Appendix A

Analytical Laboratory and Field Reports

Towslee Landfill

ANALYTICAL REPORT

Job Number: 480-193337-1

SDG Number: 193337

Job Description: Towslee Landfill - Baseline

For:
Cortland Cty Soil & Water Cons District
100 Grange Place
Rm 202
Cortland, NY 13045

Attention: Ms. Kathleen McGrath

Approved for release.
Judy L Stone
Senior Project Manager
12/27/2021 4:30 PM

Designee for
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12/27/2021

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NYDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Job Narrative
480-193337-1

Comments
No additional comments.

Receipt
The samples were received on 12/11/2021 11:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4º C and 2.8º C.

Receipt Exceptions
Samples MW-1B and a DUP sample were listed on the Chain of Custody (COC), however, no volume was received for these locations with the receipt on 12/11/2021. These samples arrived on 12/13/2021 and were logged into job 480-193369-1.

Method 7196A: The following samples were received outside of holding time: CD-1 (480-193337-1) and CD-1RA (480-193337-2).

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

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

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

General Chemistry
Method SM 2120B: The following samples were received outside of holding time: CD-1 (480-193337-1) and CD-1RA (480-193337-2).

Method SM 2120B: The following samples were filtered prior to analysis, therefore the analytical results are being report as "True Color": CD-1 (480-193337-1) and CD-1RA (480-193337-2)

Method 353.2: The following sample was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: CD-1 (480-193337-1).

Method 353.2: The following sample was received outside of holding time: CD-1RA (480-193337-2).

Method 353.2: The following Nitrite as N sample was received outside of holding time: CD-1RA (480-193337-2).

Method 353.2: The following Nitrite as N sample was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: CD-1 (480-193337-1).

Method SM 5210B: The following sample was received outside of holding time: CD-1RA (480-193337-2). Sample CD-1 (480-193337-1) was received with insufficient time remaining to perform the analysis within the hold time.

Method 7196A: The following samples were received outside of holding time: CD-1 (480-193337-1) and CD-1RA (480-193337-2).

Method 7196A: These Chromium, hexavalent samples were analyzed without the required quality control parameters:CD-1 (480-193337-1) and CD-1RA (480-193337-2). The samples were re-analyzed with the correct parameters with similar results. The initial analysis has been reported.

Method Nitrate by calc: The following Nitrate as N sample was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: CD-1 (480-193337-1).

Method Nitrate by calc: The following Nitrate as N sample was received outside of holding time: CD-1RA (480-193337-2).

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

Sample Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193337-1
SDG: 193337

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-193337-1	CD-1	Water	12/09/21 11:45	12/11/21 11:30
480-193337-2	CD-1RA	Water	12/09/21 11:15	12/11/21 11:30

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193337-1
SDG: 193337

Client Sample ID: CD-1 — Lab Sample ID: 480-193337-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	8.8		0.20		mg/L	1		6010C	Total/NA
Barium	0.17		0.0020		mg/L	1		6010C	Total/NA
Calcium	47.7		0.50		mg/L	1		6010C	Total/NA
Chromium	0.012		0.0040		mg/L	1		6010C	Total/NA
Cobalt	0.0040		0.0040		mg/L	1		6010C	Total/NA
Copper	0.012		0.010		mg/L	1		6010C	Total/NA
Iron	10.6		0.050		mg/L	1		6010C	Total/NA
Lead	0.011		0.010		mg/L	1		6010C	Total/NA
Magnesium	11.1		0.20		mg/L	1		6010C	Total/NA
Manganese	1.3		0.0030		mg/L	1		6010C	Total/NA
Potassium	3.3		0.50		mg/L	1		6010C	Total/NA
Sodium	4.4		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.013		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.025		0.010		mg/L	1		6010C	Total/NA
Barium	0.064		0.0020		mg/L	1		6010C	Dissolved
Calcium	41.3		0.50		mg/L	1		6010C	Dissolved
Magnesium	8.7		0.20		mg/L	1		6010C	Dissolved
Potassium	0.86		0.50		mg/L	1		6010C	Dissolved
Sodium	4.0		1.0		mg/L	1		6010C	Dissolved
Hardness as calcium carbonate	165		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	138		20.0		mg/L	2		310.2	Total/NA
Ammonia	0.022		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.45		0.20		mg/L	1		351.2	Total/NA
Sulfate	17.3		5.0		mg/L	1		9038	Total/NA
Color	5.00	H	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	206		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	2.0		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: CD-1RA — Lab Sample ID: 480-193337-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	13.2		0.20		mg/L	1		6010C	Total/NA
Barium	0.29		0.0020		mg/L	1		6010C	Total/NA
Calcium	55.3		0.50		mg/L	1		6010C	Total/NA
Chromium	0.016		0.0040		mg/L	1		6010C	Total/NA
Cobalt	0.0087		0.0040		mg/L	1		6010C	Total/NA
Copper	0.017		0.010		mg/L	1		6010C	Total/NA
Iron	20.3		0.050		mg/L	1		6010C	Total/NA
Lead	0.026		0.010		mg/L	1		6010C	Total/NA
Magnesium	14.7		0.20		mg/L	1		6010C	Total/NA
Manganese	0.78		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.020		0.010		mg/L	1		6010C	Total/NA
Potassium	3.5		0.50		mg/L	1		6010C	Total/NA
Sodium	4.9		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.018		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.050		0.010		mg/L	1		6010C	Total/NA
Barium	0.16		0.0020		mg/L	1		6010C	Dissolved
Calcium	41.5		0.50		mg/L	1		6010C	Dissolved
Magnesium	8.7		0.20		mg/L	1		6010C	Dissolved
Manganese	0.14		0.0030		mg/L	1		6010C	Dissolved
Potassium	0.71		0.50		mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: CD-1RA (Continued)
Lab Sample ID: 480-193337-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	4.5		1.0		mg/L	1		6010C	Dissolved
Hardness as calcium carbonate	199		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	144		20.0		mg/L	2		310.2	Total/NA
Total Kjeldahl Nitrogen	0.65		0.20		mg/L	1		351.2	Total/NA
Sulfate	17.8		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	212		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	2.0		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193337-1
SDG: 193337

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
420.4	Phenolics, Total Recoverable	MCAWW	TAL BUF
7196A	Chromium, Hexavalent	SW846	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
SM 2120B	Color, Colorimetric	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 4500 Cl- E	Chloride, Total	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF
FILTRATION	Sample Filtration	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample ID: CD-1
Date Collected: 12/09/21 11:45
Date Received: 12/11/21 11:30

Lab Sample ID: 480-193337-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/13/21 19:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/13/21 19:27	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/13/21 19:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/13/21 19:27	1
1,1-Dichloroethane	ND		1.0		ug/L			12/13/21 19:27	1
1,1-Dichloroethene	ND		1.0		ug/L			12/13/21 19:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/13/21 19:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/13/21 19:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/13/21 19:27	1
1,2-Dichloroethane	ND		1.0		ug/L			12/13/21 19:27	1
1,2-Dichloropropane	ND		1.0		ug/L			12/13/21 19:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/13/21 19:27	1
2-Butanone (MEK)	ND		10		ug/L			12/13/21 19:27	1
2-Hexanone	ND		5.0		ug/L			12/13/21 19:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/13/21 19:27	1
Acetone	ND		10		ug/L			12/13/21 19:27	1
Acrylonitrile	ND		5.0		ug/L			12/13/21 19:27	1
Benzene	ND		1.0		ug/L			12/13/21 19:27	1
Chlorobromomethane	ND		1.0		ug/L			12/13/21 19:27	1
Bromodichloromethane	ND		1.0		ug/L			12/13/21 19:27	1
Bromoform	ND		1.0		ug/L			12/13/21 19:27	1
Bromomethane	ND		1.0		ug/L			12/13/21 19:27	1
Carbon disulfide	ND		1.0		ug/L			12/13/21 19:27	1
Carbon tetrachloride	ND		1.0		ug/L			12/13/21 19:27	1
Chlorobenzene	ND		1.0		ug/L			12/13/21 19:27	1
Dibromochloromethane	ND		1.0		ug/L			12/13/21 19:27	1
Chloroethane	ND		1.0		ug/L			12/13/21 19:27	1
Chloroform	ND		1.0		ug/L			12/13/21 19:27	1
Chloromethane	ND		1.0		ug/L			12/13/21 19:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/13/21 19:27	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/13/21 19:27	1
Dibromomethane	ND		1.0		ug/L			12/13/21 19:27	1
Ethylbenzene	ND		1.0		ug/L			12/13/21 19:27	1
1,2-Dibromoethane	ND		1.0		ug/L			12/13/21 19:27	1
Iodomethane	ND		1.0		ug/L			12/13/21 19:27	1
Methylene Chloride	ND		1.0		ug/L			12/13/21 19:27	1
Styrene	ND		1.0		ug/L			12/13/21 19:27	1
Tetrachloroethene	ND		1.0		ug/L			12/13/21 19:27	1
Trichlorofluoromethane	ND		1.0		ug/L			12/13/21 19:27	1
Trichloroethene	ND		1.0		ug/L			12/13/21 19:27	1
Toluene	ND		1.0		ug/L			12/13/21 19:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/13/21 19:27	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/13/21 19:27	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/13/21 19:27	1
Vinyl acetate	ND		5.0		ug/L			12/13/21 19:27	1
Vinyl chloride	ND		1.0		ug/L			12/13/21 19:27	1
Xylenes, Total	ND		2.0		ug/L			12/13/21 19:27	1
m,p-Xylene	ND		2.0		ug/L			12/13/21 19:27	1
o-Xylene	ND		1.0		ug/L			12/13/21 19:27	1

Client Sample ID: CD-1
Date Collected: 12/09/21 11:45
Date Received: 12/11/21 11:30

Lab Sample ID: 480-193337-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*12/13/21 19:27*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*12/13/21 19:27*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*12/13/21 19:27*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8.8**		0.20		mg/L		12/15/21 08:44	12/15/21 20:06	1
Antimony	ND		0.020		mg/L		12/15/21 08:44	12/15/21 20:06	1
Arsenic	ND		0.015		mg/L		12/15/21 08:44	12/15/21 20:06	1
Barium	**0.17**		0.0020		mg/L		12/15/21 08:44	12/15/21 20:06	1
Beryllium	ND		0.0020		mg/L		12/15/21 08:44	12/15/21 20:06	1
Boron	ND		0.020		mg/L		12/15/21 08:44	12/15/21 20:06	1
Cadmium	ND		0.0020		mg/L		12/15/21 08:44	12/15/21 20:06	1
Calcium	**47.7**		0.50		mg/L		12/15/21 08:44	12/15/21 20:06	1
Chromium	**0.012**		0.0040		mg/L		12/15/21 08:44	12/15/21 20:06	1
Cobalt	**0.0040**		0.0040		mg/L		12/15/21 08:44	12/15/21 20:06	1
Copper	**0.012**		0.010		mg/L		12/15/21 08:44	12/15/21 20:06	1
Iron	**10.6**		0.050		mg/L		12/15/21 08:44	12/15/21 20:06	1
Lead	**0.011**		0.010		mg/L		12/15/21 08:44	12/15/21 20:06	1
Magnesium	**11.1**		0.20		mg/L		12/15/21 08:44	12/15/21 20:06	1
Manganese	**1.3**		0.0030		mg/L		12/15/21 08:44	12/15/21 20:06	1
Nickel	ND		0.010		mg/L		12/15/21 08:44	12/15/21 20:06	1
Potassium	**3.3**		0.50		mg/L		12/15/21 08:44	12/15/21 20:06	1
Selenium	ND		0.025		mg/L		12/15/21 08:44	12/15/21 20:06	1
Silver	ND		0.0060		mg/L		12/15/21 08:44	12/15/21 20:06	1
Sodium	**4.4**		1.0		mg/L		12/15/21 08:44	12/15/21 20:06	1
Thallium	ND		0.020		mg/L		12/15/21 08:44	12/15/21 20:06	1
Vanadium	**0.013**		0.0050		mg/L		12/15/21 08:44	12/15/21 20:06	1
Zinc	**0.025**		0.010		mg/L		12/15/21 08:44	12/15/21 20:06	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		12/15/21 08:40	12/15/21 21:43	1
Antimony	ND		0.020		mg/L		12/15/21 08:40	12/15/21 21:43	1
Arsenic	ND		0.015		mg/L		12/15/21 08:40	12/15/21 21:43	1
Barium	**0.064**		0.0020		mg/L		12/15/21 08:40	12/15/21 21:43	1
Beryllium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 21:43	1
Boron	ND		0.020		mg/L		12/15/21 08:40	12/15/21 21:43	1
Cadmium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 21:43	1
Calcium	**41.3**		0.50		mg/L		12/15/21 08:40	12/15/21 21:43	1
Chromium	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 21:43	1
Cobalt	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 21:43	1
Copper	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:43	1
Iron	ND		0.050		mg/L		12/15/21 08:40	12/15/21 21:43	1
Lead	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:43	1
Magnesium	**8.7**		0.20		mg/L		12/15/21 08:40	12/15/21 21:43	1
Manganese	ND		0.0030		mg/L		12/15/21 08:40	12/15/21 21:43	1
Nickel	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:43	1
Potassium	**0.86**		0.50		mg/L		12/15/21 08:40	12/15/21 21:43	1
Selenium	ND		0.025		mg/L		12/15/21 08:40	12/15/21 21:43	1

Client Sample ID: CD-1
Lab Sample ID: 480-193337-1

Date Collected: 12/09/21 11:45
Matrix: Water
Date Received: 12/11/21 11:30

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0060		mg/L		12/15/21 08:40	12/15/21 21:43	1
Sodium	**4.0**		1.0		mg/L		12/15/21 08:40	12/15/21 21:43	1
Thallium	ND		0.020		mg/L		12/15/21 08:40	12/15/21 21:43	1
Zinc	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:43	1
Vanadium	ND		0.0050		mg/L		12/15/21 08:40	12/15/21 21:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/13/21 13:55	12/13/21 18:36	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/15/21 12:48	12/15/21 17:04	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**165**		0.50		mg/L			12/17/21 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/18/21 02:49	1
Alkalinity, Total	**138**		20.0		mg/L			12/15/21 21:42	2
Cyanide, Total	ND		0.010		mg/L		12/14/21 10:51	12/14/21 13:34	1
Ammonia	**0.022**		0.020		mg/L			12/13/21 09:50	1
Total Kjeldahl Nitrogen	**0.45**		0.20		mg/L		12/12/21 17:51	12/13/21 08:31	1
Nitrate as N	ND	H	0.050		mg/L			12/11/21 14:22	1
Chemical Oxygen Demand	ND		10.0		mg/L			12/15/21 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/13/21 11:29	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			12/11/21 15:30	1
Sulfate	**17.3**		5.0		mg/L			12/17/21 02:50	1
Total Dissolved Solids	**206**		10.0		mg/L			12/14/21 11:17	1
Chloride	**2.0**		1.0		mg/L			12/14/21 07:13	1
Biochemical Oxygen Demand	ND	H	2.0		mg/L			12/11/21 17:24	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			12/14/21 21:59	1
TOC Result 1	ND		1.0		mg/L			12/14/21 21:59	1
TOC Result 2	ND		1.0		mg/L			12/14/21 21:59	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**5.00**	**H**	5.00		Color Units			12/12/21 08:48	1

Client Sample ID: CD-1RA
Lab Sample ID: 480-193337-2

Date Collected: 12/09/21 11:15
Matrix: Water
Date Received: 12/11/21 11:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/13/21 19:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/13/21 19:49	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/13/21 19:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/13/21 19:49	1
1,1-Dichloroethane	ND		1.0		ug/L			12/13/21 19:49	1
1,1-Dichloroethene	ND		1.0		ug/L			12/13/21 19:49	1

Client Sample ID: CD-1RA
Date Collected: 12/09/21 11:15
Date Received: 12/11/21 11:30

Lab Sample ID: 480-193337-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			12/13/21 19:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/13/21 19:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/13/21 19:49	1
1,2-Dichloroethane	ND		1.0		ug/L			12/13/21 19:49	1
1,2-Dichloropropane	ND		1.0		ug/L			12/13/21 19:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/13/21 19:49	1
2-Butanone (MEK)	ND		10		ug/L			12/13/21 19:49	1
2-Hexanone	ND		5.0		ug/L			12/13/21 19:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/13/21 19:49	1
Acetone	ND		10		ug/L			12/13/21 19:49	1
Acrylonitrile	ND		5.0		ug/L			12/13/21 19:49	1
Benzene	ND		1.0		ug/L			12/13/21 19:49	1
Chlorobromomethane	ND		1.0		ug/L			12/13/21 19:49	1
Bromodichloromethane	ND		1.0		ug/L			12/13/21 19:49	1
Bromoform	ND		1.0		ug/L			12/13/21 19:49	1
Bromomethane	ND		1.0		ug/L			12/13/21 19:49	1
Carbon disulfide	ND		1.0		ug/L			12/13/21 19:49	1
Carbon tetrachloride	ND		1.0		ug/L			12/13/21 19:49	1
Chlorobenzene	ND		1.0		ug/L			12/13/21 19:49	1
Dibromochloromethane	ND		1.0		ug/L			12/13/21 19:49	1
Chloroethane	ND		1.0		ug/L			12/13/21 19:49	1
Chloroform	ND		1.0		ug/L			12/13/21 19:49	1
Chloromethane	ND		1.0		ug/L			12/13/21 19:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/13/21 19:49	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/13/21 19:49	1
Dibromomethane	ND		1.0		ug/L			12/13/21 19:49	1
Ethylbenzene	ND		1.0		ug/L			12/13/21 19:49	1
1,2-Dibromoethane	ND		1.0		ug/L			12/13/21 19:49	1
Iodomethane	ND		1.0		ug/L			12/13/21 19:49	1
Methylene Chloride	ND		1.0		ug/L			12/13/21 19:49	1
Styrene	ND		1.0		ug/L			12/13/21 19:49	1
Tetrachloroethene	ND		1.0		ug/L			12/13/21 19:49	1
Trichlorofluoromethane	ND		1.0		ug/L			12/13/21 19:49	1
Trichloroethene	ND		1.0		ug/L			12/13/21 19:49	1
Toluene	ND		1.0		ug/L			12/13/21 19:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/13/21 19:49	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/13/21 19:49	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/13/21 19:49	1
Vinyl acetate	ND		5.0		ug/L			12/13/21 19:49	1
Vinyl chloride	ND		1.0		ug/L			12/13/21 19:49	1
Xylenes, Total	ND		2.0		ug/L			12/13/21 19:49	1
m,p-Xylene	ND		2.0		ug/L			12/13/21 19:49	1
o-Xylene	ND		1.0		ug/L			12/13/21 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*12/13/21 19:49*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/13/21 19:49*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*12/13/21 19:49*	*1*

Client Sample ID: CD-1RA

Date Collected: 12/09/21 11:15
Date Received: 12/11/21 11:30

Lab Sample ID: 480-193337-2

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13.2**		0.20		mg/L		12/15/21 08:44	12/15/21 20:09	1
Antimony	ND		0.020		mg/L		12/15/21 08:44	12/15/21 20:09	1
Arsenic	ND		0.015		mg/L		12/15/21 08:44	12/15/21 20:09	1
Barium	**0.29**		0.0020		mg/L		12/15/21 08:44	12/15/21 20:09	1
Beryllium	ND		0.0020		mg/L		12/15/21 08:44	12/15/21 20:09	1
Boron	ND		0.020		mg/L		12/15/21 08:44	12/15/21 20:09	1
Cadmium	ND		0.0020		mg/L		12/15/21 08:44	12/15/21 20:09	1
Calcium	**55.3**		0.50		mg/L		12/15/21 08:44	12/15/21 20:09	1
Chromium	**0.016**		0.0040		mg/L		12/15/21 08:44	12/15/21 20:09	1
Cobalt	**0.0087**		0.0040		mg/L		12/15/21 08:44	12/15/21 20:09	1
Copper	**0.017**		0.010		mg/L		12/15/21 08:44	12/15/21 20:09	1
Iron	**20.3**		0.050		mg/L		12/15/21 08:44	12/15/21 20:09	1
Lead	**0.026**		0.010		mg/L		12/15/21 08:44	12/15/21 20:09	1
Magnesium	**14.7**		0.20		mg/L		12/15/21 08:44	12/15/21 20:09	1
Manganese	**0.78**		0.0030		mg/L		12/15/21 08:44	12/15/21 20:09	1
Nickel	**0.020**		0.010		mg/L		12/15/21 08:44	12/15/21 20:09	1
Potassium	**3.5**		0.50		mg/L		12/15/21 08:44	12/15/21 20:09	1
Selenium	ND		0.025		mg/L		12/15/21 08:44	12/15/21 20:09	1
Silver	ND		0.0060		mg/L		12/15/21 08:44	12/15/21 20:09	1
Sodium	**4.9**		1.0		mg/L		12/15/21 08:44	12/15/21 20:09	1
Thallium	ND		0.020		mg/L		12/15/21 08:44	12/15/21 20:09	1
Vanadium	**0.018**		0.0050		mg/L		12/15/21 08:44	12/15/21 20:09	1
Zinc	**0.050**		0.010		mg/L		12/15/21 08:44	12/15/21 20:09	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		12/15/21 08:40	12/15/21 21:40	1
Antimony	ND		0.020		mg/L		12/15/21 08:40	12/15/21 21:40	1
Arsenic	ND		0.015		mg/L		12/15/21 08:40	12/15/21 21:40	1
Barium	**0.16**		0.0020		mg/L		12/15/21 08:40	12/15/21 21:40	1
Beryllium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 21:40	1
Boron	ND		0.020		mg/L		12/15/21 08:40	12/15/21 21:40	1
Cadmium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 21:40	1
Calcium	**41.5**		0.50		mg/L		12/15/21 08:40	12/15/21 21:40	1
Chromium	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 21:40	1
Cobalt	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 21:40	1
Copper	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:40	1
Iron	ND		0.050		mg/L		12/15/21 08:40	12/15/21 21:40	1
Lead	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:40	1
Magnesium	**8.7**		0.20		mg/L		12/15/21 08:40	12/15/21 21:40	1
Manganese	**0.14**		0.0030		mg/L		12/15/21 08:40	12/15/21 21:40	1
Nickel	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:40	1
Potassium	**0.71**		0.50		mg/L		12/15/21 08:40	12/15/21 21:40	1
Selenium	ND		0.025		mg/L		12/15/21 08:40	12/15/21 21:40	1
Silver	ND		0.0060		mg/L		12/15/21 08:40	12/15/21 21:40	1
Sodium	**4.5**		1.0		mg/L		12/15/21 08:40	12/15/21 21:40	1
Thallium	ND		0.020		mg/L		12/15/21 08:40	12/15/21 21:40	1
Zinc	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:40	1
Vanadium	ND		0.0050		mg/L		12/15/21 08:40	12/15/21 21:40	1

Client Sample ID: CD-1RA
Date Collected: 12/09/21 11:15
Date Received: 12/11/21 11:30

Lab Sample ID: 480-193337-2
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/13/21 13:55	12/13/21 18:40	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/15/21 12:48	12/15/21 17:02	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**199**		0.50		mg/L			12/17/21 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/18/21 03:09	1
Alkalinity, Total	**144**		20.0		mg/L			12/15/21 21:16	2
Cyanide, Total	ND		0.010		mg/L		12/14/21 10:51	12/14/21 13:36	1
Ammonia	ND	F1	0.020		mg/L			12/13/21 09:51	1
Total Kjeldahl Nitrogen	**0.65**		0.20		mg/L		12/12/21 17:51	12/13/21 08:31	1
Nitrate as N	ND	H H3	0.050		mg/L			12/11/21 14:23	1
Chemical Oxygen Demand	ND		10.0		mg/L			12/15/21 18:00	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/13/21 12:05	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			12/11/21 15:30	1
Sulfate	**17.8**		5.0		mg/L			12/17/21 02:52	1
Total Dissolved Solids	**212**		10.0		mg/L			12/14/21 11:17	1
Chloride	**2.0**		1.0		mg/L			12/14/21 07:13	1
Biochemical Oxygen Demand	ND	H H3	2.0		mg/L			12/11/21 17:24	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			12/14/21 22:15	1
TOC Result 1	ND		1.0		mg/L			12/14/21 22:15	1
TOC Result 2	ND		1.0		mg/L			12/14/21 22:15	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND	H H3	5.00		Color Units			12/12/21 08:48	1

Surrogate Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193337-1
SDG: 193337

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	BFB
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)
480-193337-1	CD-1	109	103	97
480-193337-2	CD-1RA	108	102	97
LCS 480-608538/6	Lab Control Sample	101	103	102
MB 480-608538/8	Method Blank	105	108	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-608538/8
Matrix: Water
Analysis Batch: 608538

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/13/21 11:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/13/21 11:30	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/13/21 11:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/13/21 11:30	1
1,1-Dichloroethane	ND		1.0		ug/L			12/13/21 11:30	1
1,1-Dichloroethene	ND		1.0		ug/L			12/13/21 11:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/13/21 11:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/13/21 11:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/13/21 11:30	1
1,2-Dichloroethane	ND		1.0		ug/L			12/13/21 11:30	1
1,2-Dichloropropane	ND		1.0		ug/L			12/13/21 11:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/13/21 11:30	1
2-Butanone (MEK)	ND		10		ug/L			12/13/21 11:30	1
2-Hexanone	ND		5.0		ug/L			12/13/21 11:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/13/21 11:30	1
Acetone	ND		10		ug/L			12/13/21 11:30	1
Acrylonitrile	ND		5.0		ug/L			12/13/21 11:30	1
Benzene	ND		1.0		ug/L			12/13/21 11:30	1
Chlorobromomethane	ND		1.0		ug/L			12/13/21 11:30	1
Bromodichloromethane	ND		1.0		ug/L			12/13/21 11:30	1
Bromoform	ND		1.0		ug/L			12/13/21 11:30	1
Bromomethane	ND		1.0		ug/L			12/13/21 11:30	1
Carbon disulfide	ND		1.0		ug/L			12/13/21 11:30	1
Carbon tetrachloride	ND		1.0		ug/L			12/13/21 11:30	1
Chlorobenzene	ND		1.0		ug/L			12/13/21 11:30	1
Dibromochloromethane	ND		1.0		ug/L			12/13/21 11:30	1
Chloroethane	ND		1.0		ug/L			12/13/21 11:30	1
Chloroform	ND		1.0		ug/L			12/13/21 11:30	1
Chloromethane	ND		1.0		ug/L			12/13/21 11:30	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/13/21 11:30	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/13/21 11:30	1
Dibromomethane	ND		1.0		ug/L			12/13/21 11:30	1
Ethylbenzene	ND		1.0		ug/L			12/13/21 11:30	1
1,2-Dibromoethane	ND		1.0		ug/L			12/13/21 11:30	1
Iodomethane	ND		1.0		ug/L			12/13/21 11:30	1
Methylene Chloride	ND		1.0		ug/L			12/13/21 11:30	1
Styrene	ND		1.0		ug/L			12/13/21 11:30	1
Tetrachloroethene	ND		1.0		ug/L			12/13/21 11:30	1
Trichlorofluoromethane	ND		1.0		ug/L			12/13/21 11:30	1
Trichloroethene	ND		1.0		ug/L			12/13/21 11:30	1
Toluene	ND		1.0		ug/L			12/13/21 11:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/13/21 11:30	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/13/21 11:30	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/13/21 11:30	1
Vinyl acetate	ND		5.0		ug/L			12/13/21 11:30	1
Vinyl chloride	ND		1.0		ug/L			12/13/21 11:30	1
Xylenes, Total	ND		2.0		ug/L			12/13/21 11:30	1
m,p-Xylene	ND		2.0		ug/L			12/13/21 11:30	1

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

Lab Sample ID: MB 480-608538/8
Matrix: Water
Analysis Batch: 608538

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			12/13/21 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*12/13/21 11:30*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*12/13/21 11:30*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*12/13/21 11:30*	*1*

Lab Sample ID: LCS 480-608538/6
Matrix: Water
Analysis Batch: 608538

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	80 - 120
1,1,1-Trichloroethane	25.0	29.1		ug/L		116	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.1		ug/L		104	76 - 120
1,1,2-Trichloroethane	25.0	26.7		ug/L		107	76 - 122
1,1-Dichloroethane	25.0	26.6		ug/L		106	77 - 120
1,1-Dichloroethene	25.0	29.5		ug/L		118	66 - 127
1,2,3-Trichloropropane	25.0	26.0		ug/L		104	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.8		ug/L		111	56 - 134
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	25.7		ug/L		103	75 - 120
1,2-Dichloropropane	25.0	28.4		ug/L		114	76 - 120
1,4-Dichlorobenzene	25.0	24.4		ug/L		97	80 - 120
2-Butanone (MEK)	125	145		ug/L		116	57 - 140
2-Hexanone	125	143		ug/L		114	65 - 127
4-Methyl-2-pentanone (MIBK)	125	135		ug/L		108	71 - 125
Acetone	125	142		ug/L		114	56 - 142
Acrylonitrile	250	263		ug/L		105	63 - 125
Benzene	25.0	27.4		ug/L		110	71 - 124
Chlorobromomethane	25.0	26.1		ug/L		104	72 - 130
Bromodichloromethane	25.0	27.6		ug/L		111	80 - 122
Bromoform	25.0	27.7		ug/L		111	61 - 132
Bromomethane	25.0	26.4		ug/L		105	55 - 144
Carbon disulfide	25.0	28.3		ug/L		113	59 - 134
Carbon tetrachloride	25.0	30.3		ug/L		121	72 - 134
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120
Dibromochloromethane	25.0	27.6		ug/L		110	75 - 125
Chloroethane	25.0	25.8		ug/L		103	69 - 136
Chloroform	25.0	25.2		ug/L		101	73 - 127
Chloromethane	25.0	25.2		ug/L		101	68 - 124
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	74 - 124
cis-1,3-Dichloropropene	25.0	29.5		ug/L		118	74 - 124
Dibromomethane	25.0	26.5		ug/L		106	76 - 127
Ethylbenzene	25.0	27.0		ug/L		108	77 - 123
1,2-Dibromoethane	25.0	26.4		ug/L		106	77 - 120
Iodomethane	25.0	25.0		ug/L		100	78 - 123
Methylene Chloride	25.0	24.0		ug/L		96	75 - 124

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

Lab Sample ID: LCS 480-608538/6
Matrix: Water
Analysis Batch: 608538

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	27.2		ug/L		109	80 - 120
Tetrachloroethene	25.0	27.6		ug/L		111	74 - 122
Trichlorofluoromethane	25.0	26.2		ug/L		105	62 - 150
Trichloroethene	25.0	28.0		ug/L		112	74 - 123
Toluene	25.0	26.4		ug/L		105	80 - 122
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	73 - 127
trans-1,3-Dichloropropene	25.0	28.7		ug/L		115	80 - 120
trans-1,4-Dichloro-2-butene	25.0	28.2		ug/L		113	41 - 131
Vinyl acetate	50.0	57.5		ug/L		115	50 - 144
Vinyl chloride	25.0	28.0		ug/L		112	65 - 133
m,p-Xylene	25.0	26.8		ug/L		107	76 - 122
o-Xylene	25.0	26.0		ug/L		104	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-608733/1-A
Matrix: Water
Analysis Batch: 609087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		12/15/21 08:44	12/15/21 18:07	1
Antimony	ND		0.020		mg/L		12/15/21 08:44	12/15/21 18:07	1
Arsenic	ND		0.015		mg/L		12/15/21 08:44	12/15/21 18:07	1
Barium	ND		0.0020		mg/L		12/15/21 08:44	12/15/21 18:07	1
Beryllium	ND		0.0020		mg/L		12/15/21 08:44	12/15/21 18:07	1
Boron	ND		0.020		mg/L		12/15/21 08:44	12/15/21 18:07	1
Cadmium	ND		0.0020		mg/L		12/15/21 08:44	12/15/21 18:07	1
Calcium	ND		0.50		mg/L		12/15/21 08:44	12/15/21 18:07	1
Chromium	ND		0.0040		mg/L		12/15/21 08:44	12/15/21 18:07	1
Cobalt	ND		0.0040		mg/L		12/15/21 08:44	12/15/21 18:07	1
Copper	ND		0.010		mg/L		12/15/21 08:44	12/15/21 18:07	1
Iron	ND		0.050		mg/L		12/15/21 08:44	12/15/21 18:07	1
Lead	ND		0.010		mg/L		12/15/21 08:44	12/15/21 18:07	1
Magnesium	ND		0.20		mg/L		12/15/21 08:44	12/15/21 18:07	1
Manganese	ND		0.0030		mg/L		12/15/21 08:44	12/15/21 18:07	1
Nickel	ND		0.010		mg/L		12/15/21 08:44	12/15/21 18:07	1
Potassium	ND		0.50		mg/L		12/15/21 08:44	12/15/21 18:07	1
Selenium	ND		0.025		mg/L		12/15/21 08:44	12/15/21 18:07	1
Silver	ND		0.0060		mg/L		12/15/21 08:44	12/15/21 18:07	1
Sodium	ND		1.0		mg/L		12/15/21 08:44	12/15/21 18:07	1
Thallium	ND		0.020		mg/L		12/15/21 08:44	12/15/21 18:07	1
Vanadium	ND		0.0050		mg/L		12/15/21 08:44	12/15/21 18:07	1
Zinc	ND		0.010		mg/L		12/15/21 08:44	12/15/21 18:07	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-608733/2-A
Matrix: Water
Analysis Batch: 609087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.08		mg/L		101	80 - 120
Antimony	0.200	0.209		mg/L		105	80 - 120
Arsenic	0.200	0.202		mg/L		101	80 - 120
Barium	0.200	0.210		mg/L		105	80 - 120
Beryllium	0.200	0.204		mg/L		102	80 - 120
Boron	0.200	0.206		mg/L		103	80 - 120
Cadmium	0.200	0.196		mg/L		98	80 - 120
Calcium	10.0	10.03		mg/L		100	80 - 120
Chromium	0.200	0.197		mg/L		99	80 - 120
Cobalt	0.200	0.201		mg/L		100	80 - 120
Copper	0.200	0.208		mg/L		104	80 - 120
Iron	10.0	10.34		mg/L		103	80 - 120
Lead	0.200	0.205		mg/L		103	80 - 120
Magnesium	10.0	9.67		mg/L		97	80 - 120
Manganese	0.200	0.200		mg/L		100	80 - 120
Nickel	0.200	0.188		mg/L		94	80 - 120
Potassium	10.0	9.88		mg/L		99	80 - 120
Selenium	0.200	0.197		mg/L		98	80 - 120
Silver	0.0500	0.0502		mg/L		100	80 - 120
Sodium	10.0	9.40		mg/L		94	80 - 120
Thallium	0.200	0.201		mg/L		101	80 - 120
Vanadium	0.200	0.200		mg/L		100	80 - 120
Zinc	0.200	0.204		mg/L		102	80 - 120

Lab Sample ID: MB 480-608766/1-B
Matrix: Water
Analysis Batch: 609088

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 608771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		12/15/21 08:40	12/15/21 20:17	1
Antimony	ND		0.020		mg/L		12/15/21 08:40	12/15/21 20:17	1
Arsenic	ND		0.015		mg/L		12/15/21 08:40	12/15/21 20:17	1
Barium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 20:17	1
Beryllium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 20:17	1
Boron	ND		0.020		mg/L		12/15/21 08:40	12/15/21 20:17	1
Cadmium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 20:17	1
Calcium	ND		0.50		mg/L		12/15/21 08:40	12/15/21 20:17	1
Chromium	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 20:17	1
Cobalt	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 20:17	1
Copper	ND		0.010		mg/L		12/15/21 08:40	12/15/21 20:17	1
Iron	ND		0.050		mg/L		12/15/21 08:40	12/15/21 20:17	1
Lead	ND		0.010		mg/L		12/15/21 08:40	12/15/21 20:17	1
Magnesium	ND		0.20		mg/L		12/15/21 08:40	12/15/21 20:17	1
Manganese	ND		0.0030		mg/L		12/15/21 08:40	12/15/21 20:17	1
Nickel	ND		0.010		mg/L		12/15/21 08:40	12/15/21 20:17	1
Potassium	ND		0.50		mg/L		12/15/21 08:40	12/15/21 20:17	1
Selenium	ND		0.025		mg/L		12/15/21 08:40	12/15/21 20:17	1
Silver	ND		0.0060		mg/L		12/15/21 08:40	12/15/21 20:17	1
Sodium	ND		1.0		mg/L		12/15/21 08:40	12/15/21 20:17	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-608766/1-B
Matrix: Water
Analysis Batch: 609088

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 608771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.020		mg/L		12/15/21 08:40	12/15/21 20:17	1
Vanadium	ND		0.0050		mg/L		12/15/21 08:40	12/15/21 20:17	1
Zinc	ND		0.010		mg/L		12/15/21 08:40	12/15/21 20:17	1

Lab Sample ID: LCS 480-608766/2-B
Matrix: Water
Analysis Batch: 609088

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 608771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.94		mg/L		99	80 - 120
Antimony	0.200	0.199		mg/L		99	80 - 120
Arsenic	0.200	0.194		mg/L		97	80 - 120
Barium	0.200	0.206		mg/L		103	80 - 120
Beryllium	0.200	0.194		mg/L		97	80 - 120
Boron	0.200	0.205		mg/L		103	80 - 120
Cadmium	0.200	0.188		mg/L		94	80 - 120
Calcium	10.0	9.74		mg/L		97	80 - 120
Chromium	0.200	0.190		mg/L		95	80 - 120
Cobalt	0.200	0.199		mg/L		99	80 - 120
Copper	0.200	0.206		mg/L		103	80 - 120
Iron	10.0	10.24		mg/L		102	80 - 120
Lead	0.200	0.203		mg/L		102	80 - 120
Magnesium	10.0	9.24		mg/L		92	80 - 120
Manganese	0.200	0.193		mg/L		97	80 - 120
Nickel	0.200	0.181		mg/L		91	80 - 120
Potassium	10.0	9.63		mg/L		96	80 - 120
Selenium	0.200	0.190		mg/L		95	80 - 120
Silver	0.0500	0.0501		mg/L		100	80 - 120
Sodium	10.0	9.00		mg/L		90	80 - 120
Thallium	0.200	0.197		mg/L		99	80 - 120
Vanadium	0.200	0.194		mg/L		97	80 - 120
Zinc	0.200	0.201		mg/L		100	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-608605/1-A
Matrix: Water
Analysis Batch: 608687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/13/21 13:55	12/13/21 18:24	1

Lab Sample ID: LCS 480-608605/2-A
Matrix: Water
Analysis Batch: 608687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00683		mg/L		102	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 480-608766/1-C
Matrix: Water
Analysis Batch: 609041

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 608977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/15/21 12:48	12/15/21 16:39	1

Lab Sample ID: LCS 480-608766/2-C
Matrix: Water
Analysis Batch: 609041

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 608977

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00660		mg/L		99	80 - 120		

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-609280/28
Matrix: Water
Analysis Batch: 609280

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/17/21 22:35	1

Lab Sample ID: MB 480-609280/4
Matrix: Water
Analysis Batch: 609280

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/17/21 14:46	1

Lab Sample ID: LCS 480-609280/27
Matrix: Water
Analysis Batch: 609280

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Bromide			5.00	4.86		mg/L		97	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-609054/119
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 19:41	1

Lab Sample ID: MB 480-609054/127
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 19:44	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-609054/139
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 19:56	1

Lab Sample ID: MB 480-609054/203
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 21:08	1

Lab Sample ID: MB 480-609054/215
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 21:14	1

Lab Sample ID: MB 480-609054/265
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 21:38	1

Lab Sample ID: MB 480-609054/275
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 21:41	1

Lab Sample ID: MB 480-609054/45
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 19:18	1

Lab Sample ID: MB 480-609054/55
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 19:23	1

Lab Sample ID: LCS 480-609054/126
Matrix: Water
Analysis Batch: 609054

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.96		mg/L		106	90 - 110		

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-609054/138
Matrix: Water
Analysis Batch: 609054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.22		mg/L		102	90 - 110

Lab Sample ID: LCS 480-609054/214
Matrix: Water
Analysis Batch: 609054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.15		mg/L		100	90 - 110

Lab Sample ID: LCS 480-609054/274
Matrix: Water
Analysis Batch: 609054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.58		mg/L		105	90 - 110

Lab Sample ID: LCS 480-609054/54
Matrix: Water
Analysis Batch: 609054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.34		mg/L		105	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-608774/1-A
Matrix: Water
Analysis Batch: 608835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		12/14/21 10:51	12/14/21 13:14	1

Lab Sample ID: LCS 480-608774/2-A
Matrix: Water
Analysis Batch: 608835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.234		mg/L		94	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-608583/75
Matrix: Water
Analysis Batch: 608583

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			12/13/21 09:35	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-608583/76
Matrix: Water
Analysis Batch: 608583

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			1.00	1.02		mg/L		102	90 - 110		

Lab Sample ID: 480-193337-2 MS
Matrix: Water
Analysis Batch: 608583

Client Sample ID: CD-1RA
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	ND	F1	0.200	0.222	F1	mg/L		111	90 - 110		

Lab Sample ID: 480-193337-2 DU
Matrix: Water
Analysis Batch: 608583

Client Sample ID: CD-1RA
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia	ND	F1		ND		mg/L				NC	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-608523/1-A
Matrix: Water
Analysis Batch: 608564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608523

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		12/12/21 17:51	12/13/21 07:40	1

Lab Sample ID: LCS 480-608523/2-A
Matrix: Water
Analysis Batch: 608564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608523

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Kjeldahl Nitrogen			2.50	2.57		mg/L		103	90 - 110		

Method: 410.4 - COD

Lab Sample ID: MB 480-609052/75
Matrix: Water
Analysis Batch: 609052

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			12/15/21 18:00	1

Lab Sample ID: LCS 480-609052/76
Matrix: Water
Analysis Batch: 609052

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			25.0	24.24		mg/L		97	90 - 110		

Method: 410.4 - COD (Continued)

Lab Sample ID: 480-193337-1 MS
Matrix: Water
Analysis Batch: 609052

Client Sample ID: CD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		50.0	61.64		mg/L		123	75 - 125

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-608634/72
Matrix: Water
Analysis Batch: 608634

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			12/13/21 11:11	1

Lab Sample ID: LCS 480-608634/73
Matrix: Water
Analysis Batch: 608634

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.0980		mg/L		98	90 - 110

Lab Sample ID: 480-193337-2 MS
Matrix: Water
Analysis Batch: 608634

Client Sample ID: CD-1RA
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	ND		0.100	0.0970		mg/L		97	90 - 110

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-608495/3
Matrix: Water
Analysis Batch: 608495

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010		mg/L			12/11/21 15:30	1

Lab Sample ID: LCS 480-608495/4
Matrix: Water
Analysis Batch: 608495

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0500	0.0565		mg/L		113	85 - 115

Lab Sample ID: MB 480-608880/3
Matrix: Water
Analysis Batch: 608880

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010		mg/L			12/14/21 14:36	1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 480-608880/4
Matrix: Water
Analysis Batch: 608880

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent			0.0500	0.0539		mg/L		108	85 - 115		

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-609236/162
Matrix: Water
Analysis Batch: 609236

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			12/16/21 21:16	1

Lab Sample ID: LCS 480-609236/163
Matrix: Water
Analysis Batch: 609236

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			30.0	29.34		mg/L		98	90 - 110		

Lab Sample ID: 480-193337-1 MS
Matrix: Water
Analysis Batch: 609236

Client Sample ID: CD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	17.3		20.0	36.91		mg/L		98	60 - 128		

Lab Sample ID: 480-193337-1 MSD
Matrix: Water
Analysis Batch: 609236

Client Sample ID: CD-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	17.3		20.0	37.60		mg/L		102	60 - 128	2	20

Lab Sample ID: 480-193337-2 MS
Matrix: Water
Analysis Batch: 609236

Client Sample ID: CD-1RA
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	17.8		20.0	40.44		mg/L		113	60 - 128		

Lab Sample ID: 480-193337-2 MSD
Matrix: Water
Analysis Batch: 609236

Client Sample ID: CD-1RA
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	17.8		20.0	37.48		mg/L		99	60 - 128	8	20

Method: SM 2120B - Color, Colorimetric

Lab Sample ID: MB 480-608517/3
Matrix: Water
Analysis Batch: 608517

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.00		Color Units			12/12/21 08:48	1

Lab Sample ID: LCS 480-608517/4
Matrix: Water
Analysis Batch: 608517

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Color			30.0	30.00		Color Units		100	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-608781/1
Matrix: Water
Analysis Batch: 608781

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			12/14/21 11:17	1

Lab Sample ID: LCS 480-608781/2
Matrix: Water
Analysis Batch: 608781

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			504	526.0		mg/L		104	85 - 115		

Lab Sample ID: 480-193337-2 DU
Matrix: Water
Analysis Batch: 608781

Client Sample ID: CD-1RA
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	212			198.0		mg/L				7	10

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 480-608717/239
Matrix: Water
Analysis Batch: 608717

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/14/21 06:57	1

Lab Sample ID: MB 480-608717/248
Matrix: Water
Analysis Batch: 608717

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/14/21 07:03	1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: MB 480-608717/260
Matrix: Water
Analysis Batch: 608717

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/14/21 07:09	1

Lab Sample ID: LCS 480-608717/247
Matrix: Water
Analysis Batch: 608717

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.72		mg/L		107	90 - 110

Lab Sample ID: LCS 480-608717/259
Matrix: Water
Analysis Batch: 608717

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.58		mg/L		106	90 - 110

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: MB 480-608499/1
Matrix: Water
Analysis Batch: 608499

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			12/11/21 17:24	1

Lab Sample ID: LCS 480-608499/2
Matrix: Water
Analysis Batch: 608499

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	176.2		mg/L		89	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 480-608965/4
Matrix: Water
Analysis Batch: 608965

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			12/14/21 16:53	1
TOC Result 1	ND		1.0		mg/L			12/14/21 16:53	1
TOC Result 2	ND		1.0		mg/L			12/14/21 16:53	1

Lab Sample ID: LCS 480-608965/5
Matrix: Water
Analysis Batch: 608965

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	60.0	63.24		mg/L		105	90 - 110
TOC Result 1	60.0	62.37		mg/L		104	90 - 110

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-608965/5
Matrix: Water
Analysis Batch: 608965

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
TOC Result 2			60.0	64.11		mg/L		107	90 - 110		

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

Glossary

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

GC/MS VOA

Analysis Batch: 608538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	8260C	
480-193337-2	CD-1RA	Total/NA	Water	8260C	
MB 480-608538/8	Method Blank	Total/NA	Water	8260C	
LCS 480-608538/6	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 608605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	7470A	
480-193337-2	CD-1RA	Total/NA	Water	7470A	
MB 480-608605/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-608605/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 608687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	7470A	608605
480-193337-2	CD-1RA	Total/NA	Water	7470A	608605
MB 480-608605/1-A	Method Blank	Total/NA	Water	7470A	608605
LCS 480-608605/2-A	Lab Control Sample	Total/NA	Water	7470A	608605

Prep Batch: 608733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	3005A	
480-193337-2	CD-1RA	Total/NA	Water	3005A	
MB 480-608733/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-608733/2-A	Lab Control Sample	Total/NA	Water	3005A	

Filtration Batch: 608766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Dissolved	Water	FILTRATION	
480-193337-2	CD-1RA	Dissolved	Water	FILTRATION	
MB 480-608766/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-608766/1-C	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-608766/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-608766/2-C	Lab Control Sample	Dissolved	Water	FILTRATION	

Prep Batch: 608771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Dissolved	Water	3005A	608766
480-193337-2	CD-1RA	Dissolved	Water	3005A	608766
MB 480-608766/1-B	Method Blank	Dissolved	Water	3005A	608766
LCS 480-608766/2-B	Lab Control Sample	Dissolved	Water	3005A	608766

Prep Batch: 608977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Dissolved	Water	7470A	608766
480-193337-2	CD-1RA	Dissolved	Water	7470A	608766
MB 480-608766/1-C	Method Blank	Dissolved	Water	7470A	608766
LCS 480-608766/2-C	Lab Control Sample	Dissolved	Water	7470A	608766

Metals

Analysis Batch: 609041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Dissolved	Water	7470A	608977
480-193337-2	CD-1RA	Dissolved	Water	7470A	608977
MB 480-608766/1-C	Method Blank	Dissolved	Water	7470A	608977
LCS 480-608766/2-C	Lab Control Sample	Dissolved	Water	7470A	608977

Analysis Batch: 609087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	6010C	608733
480-193337-2	CD-1RA	Total/NA	Water	6010C	608733
MB 480-608733/1-A	Method Blank	Total/NA	Water	6010C	608733
LCS 480-608733/2-A	Lab Control Sample	Total/NA	Water	6010C	608733

Analysis Batch: 609088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Dissolved	Water	6010C	608771
480-193337-2	CD-1RA	Dissolved	Water	6010C	608771
MB 480-608766/1-B	Method Blank	Dissolved	Water	6010C	608771
LCS 480-608766/2-B	Lab Control Sample	Dissolved	Water	6010C	608771

Analysis Batch: 609317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	SM 2340B	
480-193337-2	CD-1RA	Total/NA	Water	SM 2340B	

General Chemistry

Analysis Batch: 608493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	353.2	
480-193337-2	CD-1RA	Total/NA	Water	353.2	

Analysis Batch: 608495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	7196A	
480-193337-2	CD-1RA	Total/NA	Water	7196A	
MB 480-608495/3	Method Blank	Total/NA	Water	7196A	
LCS 480-608495/4	Lab Control Sample	Total/NA	Water	7196A	

Analysis Batch: 608499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	SM 5210B	
480-193337-2	CD-1RA	Total/NA	Water	SM 5210B	
MB 480-608499/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-608499/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 608517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	SM 2120B	
480-193337-2	CD-1RA	Total/NA	Water	SM 2120B	
MB 480-608517/3	Method Blank	Total/NA	Water	SM 2120B	
LCS 480-608517/4	Lab Control Sample	Total/NA	Water	SM 2120B	

General Chemistry

Prep Batch: 608523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	351.2	
480-193337-2	CD-1RA	Total/NA	Water	351.2	
MB 480-608523/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-608523/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 608564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	351.2	608523
480-193337-2	CD-1RA	Total/NA	Water	351.2	608523
MB 480-608523/1-A	Method Blank	Total/NA	Water	351.2	608523
LCS 480-608523/2-A	Lab Control Sample	Total/NA	Water	351.2	608523

Analysis Batch: 608583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	350.1	
480-193337-2	CD-1RA	Total/NA	Water	350.1	
MB 480-608583/75	Method Blank	Total/NA	Water	350.1	
LCS 480-608583/76	Lab Control Sample	Total/NA	Water	350.1	
480-193337-2 MS	CD-1RA	Total/NA	Water	350.1	
480-193337-2 DU	CD-1RA	Total/NA	Water	350.1	

Analysis Batch: 608634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	420.4	
480-193337-2	CD-1RA	Total/NA	Water	420.4	
MB 480-608634/72	Method Blank	Total/NA	Water	420.4	
LCS 480-608634/73	Lab Control Sample	Total/NA	Water	420.4	
480-193337-2 MS	CD-1RA	Total/NA	Water	420.4	

Analysis Batch: 608717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	SM 4500 Cl- E	
480-193337-2	CD-1RA	Total/NA	Water	SM 4500 Cl- E	
MB 480-608717/239	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-608717/248	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-608717/260	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 480-608717/247	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-608717/259	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Prep Batch: 608774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	Distill/CN	
480-193337-2	CD-1RA	Total/NA	Water	Distill/CN	
MB 480-608774/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-608774/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 608781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	SM 2540C	
480-193337-2	CD-1RA	Total/NA	Water	SM 2540C	
MB 480-608781/1	Method Blank	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 608781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-608781/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-193337-2 DU	CD-1RA	Total/NA	Water	SM 2540C	

Analysis Batch: 608835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	335.4	608774
480-193337-2	CD-1RA	Total/NA	Water	335.4	608774
MB 480-608774/1-A	Method Blank	Total/NA	Water	335.4	608774
LCS 480-608774/2-A	Lab Control Sample	Total/NA	Water	335.4	608774

Analysis Batch: 608880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-608880/3	Method Blank	Total/NA	Water	7196A	
LCS 480-608880/4	Lab Control Sample	Total/NA	Water	7196A	

Analysis Batch: 608965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	SM 5310C	
480-193337-2	CD-1RA	Total/NA	Water	SM 5310C	
MB 480-608965/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-608965/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 609052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	410.4	
480-193337-2	CD-1RA	Total/NA	Water	410.4	
MB 480-609052/75	Method Blank	Total/NA	Water	410.4	
LCS 480-609052/76	Lab Control Sample	Total/NA	Water	410.4	
480-193337-1 MS	CD-1	Total/NA	Water	410.4	

Analysis Batch: 609054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	310.2	
480-193337-2	CD-1RA	Total/NA	Water	310.2	
MB 480-609054/119	Method Blank	Total/NA	Water	310.2	
MB 480-609054/127	Method Blank	Total/NA	Water	310.2	
MB 480-609054/139	Method Blank	Total/NA	Water	310.2	
MB 480-609054/203	Method Blank	Total/NA	Water	310.2	
MB 480-609054/215	Method Blank	Total/NA	Water	310.2	
MB 480-609054/265	Method Blank	Total/NA	Water	310.2	
MB 480-609054/275	Method Blank	Total/NA	Water	310.2	
MB 480-609054/45	Method Blank	Total/NA	Water	310.2	
MB 480-609054/55	Method Blank	Total/NA	Water	310.2	
LCS 480-609054/126	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-609054/138	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-609054/214	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-609054/274	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-609054/54	Lab Control Sample	Total/NA	Water	310.2	

General Chemistry

Analysis Batch: 609236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	9038	
480-193337-2	CD-1RA	Total/NA	Water	9038	
MB 480-609236/162	Method Blank	Total/NA	Water	9038	
LCS 480-609236/163	Lab Control Sample	Total/NA	Water	9038	
480-193337-1 MS	CD-1	Total/NA	Water	9038	
480-193337-1 MSD	CD-1	Total/NA	Water	9038	
480-193337-2 MS	CD-1RA	Total/NA	Water	9038	
480-193337-2 MSD	CD-1RA	Total/NA	Water	9038	

Analysis Batch: 609280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193337-1	CD-1	Total/NA	Water	300.0	
480-193337-2	CD-1RA	Total/NA	Water	300.0	
MB 480-609280/28	Method Blank	Total/NA	Water	300.0	
MB 480-609280/4	Method Blank	Total/NA	Water	300.0	
LCS 480-609280/27	Lab Control Sample	Total/NA	Water	300.0	

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193337-1
SDG: 193337

Client Sample ID: CD-1

Date Collected: 12/09/21 11:45
Date Received: 12/11/21 11:30

Lab Sample ID: 480-193337-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	608538	12/13/21 19:27	CRL	TAL BUF
Dissolved	Filtration	FILTRATION			608766	12/14/21 09:40	NBS	TAL BUF
Dissolved	Prep	3005A			608771	12/15/21 08:40	NBS	TAL BUF
Dissolved	Analysis	6010C		1	609088	12/15/21 21:43	AMH	TAL BUF
Total/NA	Prep	3005A			608733	12/15/21 08:44	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609087	12/15/21 20:06	AMH	TAL BUF
Dissolved	Filtration	FILTRATION			608766	12/14/21 09:40	NBS	TAL BUF
Dissolved	Prep	7470A			608977	12/15/21 12:48	BMB	TAL BUF
Dissolved	Analysis	7470A		1	609041	12/15/21 17:04	BMB	TAL BUF
Total/NA	Prep	7470A			608605	12/13/21 13:55	BMB	TAL BUF
Total/NA	Analysis	7470A		1	608687	12/13/21 18:36	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	609317	12/17/21 12:06	JJP	TAL BUF
Total/NA	Analysis	300.0		1	609280	12/18/21 02:49	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	609054	12/15/21 21:42	SRW	TAL BUF
Total/NA	Prep	Distill/CN			608774	12/14/21 10:51	RJM	TAL BUF
Total/NA	Analysis	335.4		1	608835	12/14/21 13:34	JGO	TAL BUF
Total/NA	Analysis	350.1		1	608583	12/13/21 09:50	CLT	TAL BUF
Total/NA	Prep	351.2			608523	12/12/21 17:51	KEB	TAL BUF
Total/NA	Analysis	351.2		1	608564	12/13/21 08:31	CLT	TAL BUF
Total/NA	Analysis	353.2		1	608493	12/11/21 14:22	PRD	TAL BUF
Total/NA	Analysis	410.4		1	609052	12/15/21 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	608634	12/13/21 11:29	CLT	TAL BUF
Total/NA	Analysis	7196A		1	608495	12/11/21 15:30	RJM	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 02:50	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	608517	12/12/21 08:48	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	608781	12/14/21 11:17	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	608717	12/14/21 07:13	KEB	TAL BUF
Total/NA	Analysis	SM 5210B		1	608499	12/11/21 17:24	RJM	TAL BUF
Total/NA	Analysis	SM 5310C		1	608965	12/14/21 21:59	IMZ	TAL BUF

Client Sample ID: CD-1RA

Date Collected: 12/09/21 11:15
Date Received: 12/11/21 11:30

Lab Sample ID: 480-193337-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	608538	12/13/21 19:49	CRL	TAL BUF
Dissolved	Filtration	FILTRATION			608766	12/14/21 09:40	NBS	TAL BUF
Dissolved	Prep	3005A			608771	12/15/21 08:40	NBS	TAL BUF
Dissolved	Analysis	6010C		1	609088	12/15/21 21:40	AMH	TAL BUF
Total/NA	Prep	3005A			608733	12/15/21 08:44	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609087	12/15/21 20:09	AMH	TAL BUF

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193337-1
SDG: 193337

Client Sample ID: CD-1RA

Date Collected: 12/09/21 11:15
Date Received: 12/11/21 11:30

Lab Sample ID: 480-193337-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			608766	12/14/21 09:40	NBS	TAL BUF
Dissolved	Prep	7470A			608977	12/15/21 12:48	BMB	TAL BUF
Dissolved	Analysis	7470A		1	609041	12/15/21 17:02	BMB	TAL BUF
Total/NA	Prep	7470A			608605	12/13/21 13:55	BMB	TAL BUF
Total/NA	Analysis	7470A		1	608687	12/13/21 18:40	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	609317	12/17/21 12:06	JJP	TAL BUF
Total/NA	Analysis	300.0		1	609280	12/18/21 03:09	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	609054	12/15/21 21:16	SRW	TAL BUF
Total/NA	Prep	Distill/CN			608774	12/14/21 10:51	RJM	TAL BUF
Total/NA	Analysis	335.4		1	608835	12/14/21 13:36	JGO	TAL BUF
Total/NA	Analysis	350.1		1	608583	12/13/21 09:51	CLT	TAL BUF
Total/NA	Prep	351.2			608523	12/12/21 17:51	KEB	TAL BUF
Total/NA	Analysis	351.2		1	608564	12/13/21 08:31	CLT	TAL BUF
Total/NA	Analysis	353.2		1	608493	12/11/21 14:23	PRD	TAL BUF
Total/NA	Analysis	410.4		1	609052	12/15/21 18:00	CSS	TAL BUF
Total/NA	Analysis	420.4		1	608634	12/13/21 12:05	CLT	TAL BUF
Total/NA	Analysis	7196A		1	608495	12/11/21 15:30	RJM	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 02:52	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	608517	12/12/21 08:48	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	608781	12/14/21 11:17	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	608717	12/14/21 07:13	KEB	TAL BUF
Total/NA	Analysis	SM 5210B		1	608499	12/11/21 17:24	RJM	TAL BUF
Total/NA	Analysis	SM 5310C		1	608965	12/14/21 22:15	IMZ	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-193337-1
Project/Site: Towslee Landfill - Baseline
SDG: 193337

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Water	Sulfate
SM 5310C		Water	TOC Result 1
SM 5310C		Water	TOC Result 2

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Matrix: Water Level: Low

GC Column (1): ZB-624 (30) ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
CD-1	480-193337-1	109	103	97
CD-1RA	480-193337-2	108	102	97
	MB 480-608538/8	105	108	103
	LCS 480-608538/6	101	103	102

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Matrix: Water Level: Low Lab File ID: L16173.D

Lab ID: LCS 480-608538/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	25.0	26.5	106	80-120	
1,1,1-Trichloroethane	25.0	29.1	116	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.1	104	76-120	
1,1,2-Trichloroethane	25.0	26.7	107	76-122	
1,1-Dichloroethane	25.0	26.6	106	77-120	
1,1-Dichloroethene	25.0	29.5	118	66-127	
1,2,3-Trichloropropane	25.0	26.0	104	68-122	
1,2-Dibromo-3-Chloropropane	25.0	27.8	111	56-134	
1,2-Dichlorobenzene	25.0	24.3	97	80-124	
1,2-Dichloroethane	25.0	25.7	103	75-120	
1,2-Dichloropropane	25.0	28.4	114	76-120	
1,4-Dichlorobenzene	25.0	24.4	97	80-120	
2-Butanone (MEK)	125	145	116	57-140	
2-Hexanone	125	143	114	65-127	
4-Methyl-2-pentanone (MIBK)	125	135	108	71-125	
Acetone	125	142	114	56-142	
Acrylonitrile	250	263	105	63-125	
Benzene	25.0	27.4	110	71-124	
Chlorobromomethane	25.0	26.1	104	72-130	
Bromodichloromethane	25.0	27.6	111	80-122	
Bromoform	25.0	27.7	111	61-132	
Bromomethane	25.0	26.4	105	55-144	
Carbon disulfide	25.0	28.3	113	59-134	
Carbon tetrachloride	25.0	30.3	121	72-134	
Chlorobenzene	25.0	25.8	103	80-120	
Dibromochloromethane	25.0	27.6	110	75-125	
Chloroethane	25.0	25.8	103	69-136	
Chloroform	25.0	25.2	101	73-127	
Chloromethane	25.0	25.2	101	68-124	
cis-1,2-Dichloroethene	25.0	26.7	107	74-124	
cis-1,3-Dichloropropene	25.0	29.5	118	74-124	
Dibromomethane	25.0	26.5	106	76-127	
Ethylbenzene	25.0	27.0	108	77-123	
1,2-Dibromoethane	25.0	26.4	106	77-120	
Iodomethane	25.0	25.0	100	78-123	
Methylene Chloride	25.0	24.0	96	75-124	
Styrene	25.0	27.2	109	80-120	
Tetrachloroethene	25.0	27.6	111	74-122	
Trichlorofluoromethane	25.0	26.2	105	62-150	
Trichloroethene	25.0	28.0	112	74-123	
Toluene	25.0	26.4	105	80-122	
trans-1,2-Dichloroethene	25.0	26.5	106	73-127	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Matrix: Water Level: Low Lab File ID: L16173.D

Lab ID: LCS 480-608538/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	25.0	28.7	115	80-120	
trans-1,4-Dichloro-2-butene	25.0	28.2	113	41-131	
Vinyl acetate	50.0	57.5	115	50-144	
Vinyl chloride	25.0	28.0	112	65-133	
m,p-Xylene	25.0	26.8	107	76-122	
o-Xylene	25.0	26.0	104	76-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab File ID: L16175.D Lab Sample ID: MB 480-608538/8

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

Instrument ID: HP5977L Date Analyzed: 12/13/2021 11:30

GC Column: ZB-624 (30) VOA ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-608538/6	L16173.D	12/13/2021 10:47
CD-1	480-193337-1	L16196.D	12/13/2021 19:27
CD-1RA	480-193337-2	L16197.D	12/13/2021 19:49

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab File ID: L16082.D BFB Injection Date: 12/08/2021

Instrument ID: HP5977L BFB Injection Time: 15:28

Analysis Batch No.: 608018

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	49.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	1.0	(1.0) 1
174	Greater than 50% of mass 95	102.0	
175	5.0 - 9.0 % of mass 174	7.6	(7.4) 1
176	95.0 - 101.0 % of mass 174	98.0	(96.1) 1
177	5.0 - 9.0 % of mass 176	6.7	(6.8) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-608018/8	L16084.D	12/08/2021	16:14
	IC 480-608018/9	L16085.D	12/08/2021	16:36
	IC 480-608018/10	L16086.D	12/08/2021	16:58
	IC 480-608018/11	L16087.D	12/08/2021	17:21
	IC 480-608018/12	L16088.D	12/08/2021	17:42
	ICIS 480-608018/13	L16089.D	12/08/2021	18:04
	IC 480-608018/14	L16090.D	12/08/2021	18:25
	IC 480-608018/15	L16091.D	12/08/2021	18:47
	ICV 480-608018/29	L16105.D	12/08/2021	23:57
	ICV 480-608018/30	L16106.D	12/09/2021	0:19

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab File ID: L16170.D BFB Injection Date: 12/13/2021

Instrument ID: HP5977L BFB Injection Time: 09:33

Analysis Batch No.: 608538

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.4	
75	30.0 - 60.0 % of mass 95	49.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	100.6	
175	5.0 - 9.0 % of mass 174	8.0	(8.0) 1
176	95.0 - 101.0 % of mass 174	99.2	(98.6) 1
177	5.0 - 9.0 % of mass 176	7.1	(7.1) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-608538/4	L16171.D	12/13/2021	10:03
	LCS 480-608538/6	L16173.D	12/13/2021	10:47
	MB 480-608538/8	L16175.D	12/13/2021	11:30
CD-1	480-193337-1	L16196.D	12/13/2021	19:27
CD-1RA	480-193337-2	L16197.D	12/13/2021	19:49

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Sample No.: ICIS 480-608018/13 Date Analyzed: 12/08/2021 18:04

Instrument ID: HP5977L GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): L16089.D Heated Purge: (Y/N) N

Calibration ID: 42816

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		126368	6.35	590112	9.30	375982	11.61
UPPER LIMIT		252736	6.85	1180224	9.80	751964	12.11
LOWER LIMIT		63184	5.85	295056	8.80	187991	11.11
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-608018/29		125904	6.35	606530	9.30	372576	11.61
ICV 480-608018/30		127104	6.35	582333	9.30	339534	11.61
CCVIS 480-608538/4		138621	6.35	692197	9.30	410917	11.61

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Sample No.: CCVIS 480-608538/4 Date Analyzed: 12/13/2021 10:03

Instrument ID: HP5977L GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): L16171.D Heated Purge: (Y/N) N

Calibration ID: 42819

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		138621	6.35	692197	9.30	410917	11.61
UPPER LIMIT		277242	6.85	1384394	9.80	821834	12.11
LOWER LIMIT		69311	5.85	346099	8.80	205459	11.11
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-608538/6		145415	6.35	713651	9.30	428908	11.61
MB 480-608538/8		124671	6.35	569123	9.30	314656	11.61
480-193337-1	CD-1	123325	6.35	612239	9.30	352551	11.61
480-193337-2	CD-1RA	125740	6.35	639244	9.30	369804	11.61

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Client Sample ID: CD-1 Lab Sample ID: 480-193337-1

Matrix: Water Lab File ID: L16196.D

Analysis Method: 8260C Date Collected: 12/09/2021 11:45

Sample wt/vol: 5(mL) Date Analyzed: 12/13/2021 19:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608538 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Client Sample ID: CD-1 Lab Sample ID: 480-193337-1

Matrix: Water Lab File ID: L16196.D

Analysis Method: 8260C Date Collected: 12/09/2021 11:45

Sample wt/vol: 5(mL) Date Analyzed: 12/13/2021 19:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608538 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
2037-26-5	Toluene-d8 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16196.D
Lims ID: 480-193337-N-1
Client ID: CD-1
Sample Type: Client
Inject. Date: 13-Dec-2021 19:27:34 ALS Bottle#: 0 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193337-N-1
Misc. Info.: 480-0103006-029
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Dec-2021 10:16:04 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1664

First Level Reviewer: lapointec Date: 14-Dec-2021 10:16:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	100	123325	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	612239	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	92	352551	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	234704	27.3	
$ 6 Toluene-d8 (Surr)	98	7.810	7.807	0.003	93	759226	25.7	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.517	0.001	94	273453	24.2	
13 Chloromethane	50		2.347				ND	
14 Vinyl chloride	62		2.476				ND	
18 Bromomethane	94		2.852				ND	
19 Chloroethane	64		2.945				ND	
21 Trichlorofluoromethane	101		3.183				ND	
30 1,1-Dichloroethene	96		3.727				ND	
31 Acetone	43		3.820				ND	U
33 Iodomethane	142		3.910				ND	
35 Carbon disulfide	76		3.965				ND	
39 Methylene Chloride	84		4.219				ND	
42 trans-1,2-Dichloroethene	96		4.437				ND	
44 Acrylonitrile	53		4.476				ND	
50 1,1-Dichloroethane	63		4.833				ND	
49 Vinyl acetate	43		4.836				ND	
58 cis-1,2-Dichloroethene	96		5.350				ND	
57 2-Butanone (MEK)	43		5.354				ND	
60 Chlorobromomethane	128		5.582				ND	
62 Chloroform	83		5.627				ND	
64 1,1,1-Trichloroethane	97		5.768				ND	
66 Carbon tetrachloride	117		5.904				ND	
70 Benzene	78		6.109				ND	
72 1,2-Dichloroethane	62		6.164				ND	
75 Trichloroethene	95		6.675				ND	
77 1,2-Dichloropropane	63		6.920				ND	
82 Dibromomethane	93		7.061				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
83 Dichlorobromomethane	83		7.180				ND	
85 cis-1,3-Dichloropropene	75		7.576				ND	
87 4-Methyl-2-pentanone (MIBK)	43		7.682				ND	
88 Toluene	92		7.875				ND	
91 trans-1,3-Dichloropropene	75		8.116				ND	
93 1,1,2-Trichloroethane	83		8.321				ND	
94 Tetrachloroethene	166		8.408				ND	
96 2-Hexanone	43		8.502				ND	
98 Chlorodibromomethane	129		8.743				ND	
101 Ethylene Dibromide	107		8.875				ND	
103 Chlorobenzene	112		9.328				ND	
104 Ethylbenzene	91		9.389				ND	
105 1,1,1,2-Tetrachloroethane	131		9.408				ND	
106 m-Xylene & p-Xylene	106		9.505				ND	
107 o-Xylene	106		9.945				ND	
109 Styrene	104		9.971				ND	
110 Bromoform	173		10.251				ND	
112 1,1,2,2-Tetrachloroethane	83		10.682				ND	
115 trans-1,4-Dichloro-2-butene	53		10.723				ND	
116 1,2,3-Trichloropropane	110		10.736				ND	
126 1,4-Dichlorobenzene	146		11.633				ND	
128 1,2-Dichlorobenzene	146		11.977				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.656				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent

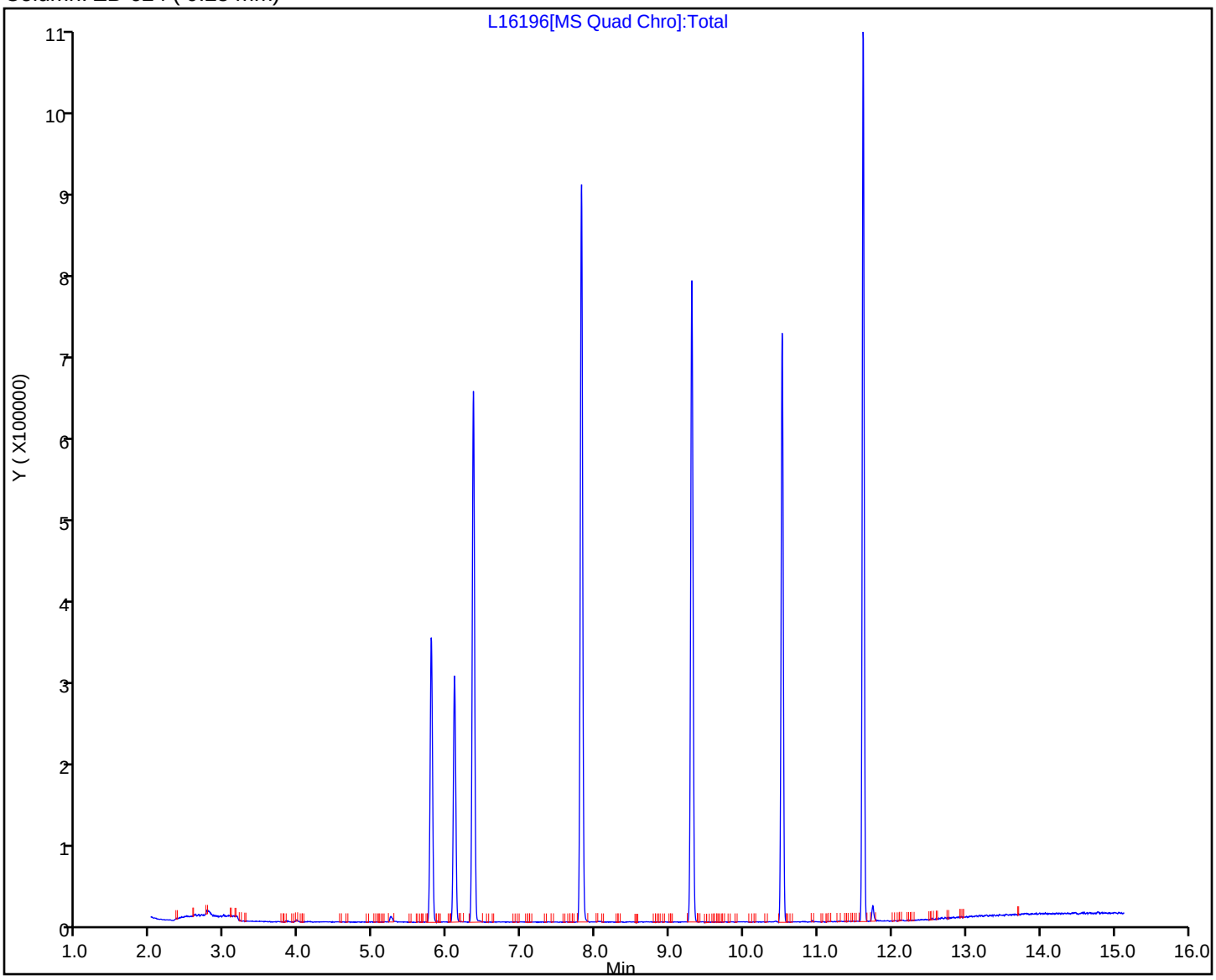
Report Date: 14-Dec-2021 10:16:05 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16196.D

Injection Date:	13-Dec-2021 19:27:34	Instrument ID:	HP5977L		
Lims ID:	480-193337-N-1	Lab Sample ID:	480-193337-1		
Client ID:	CD-1				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



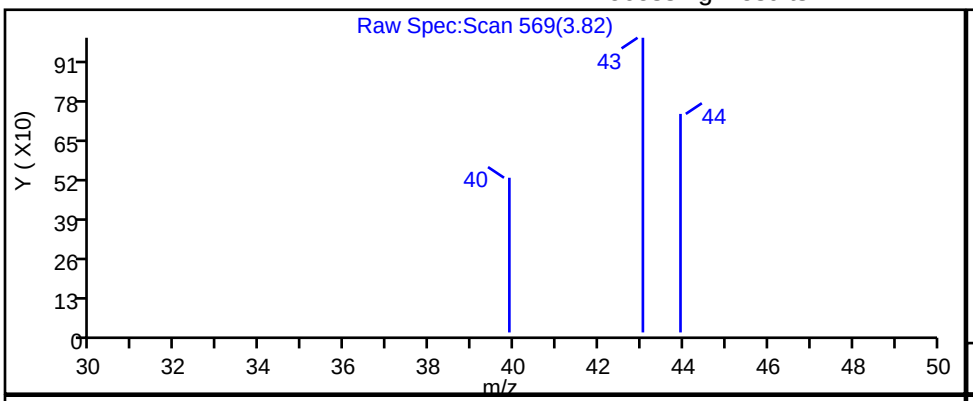
User Disabled Compound Report

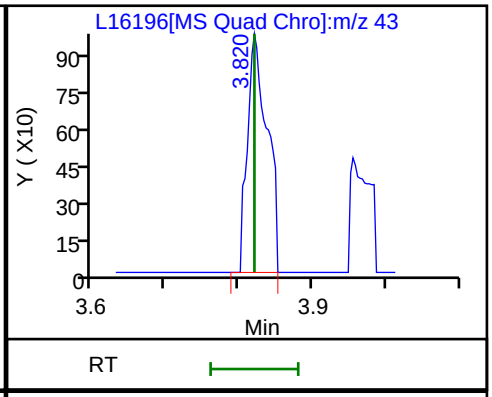
Eurofins TestAmerica, Buffalo

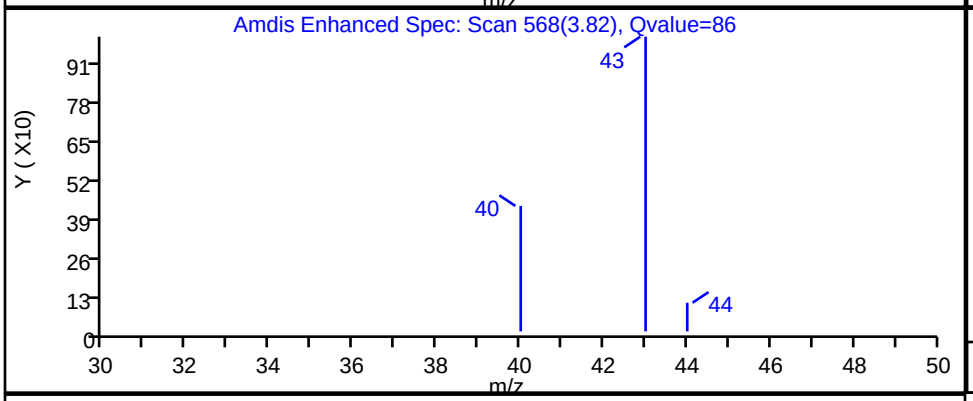
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16196.D				
Injection Date:	13-Dec-2021 19:27:34	Instrument ID:	HP5977L		
Lims ID:	480-193337-N-1	Lab Sample ID:	480-193337-1		
Client ID:	CD-1				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

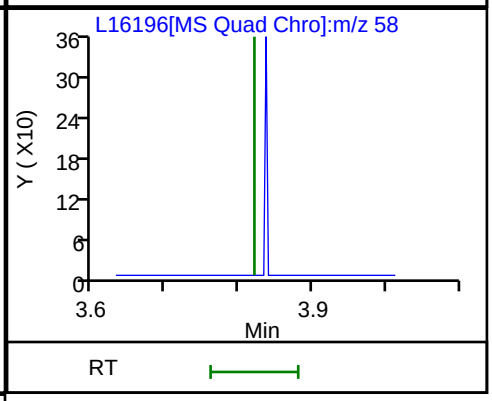
31 Acetone, CAS: 67-64-1

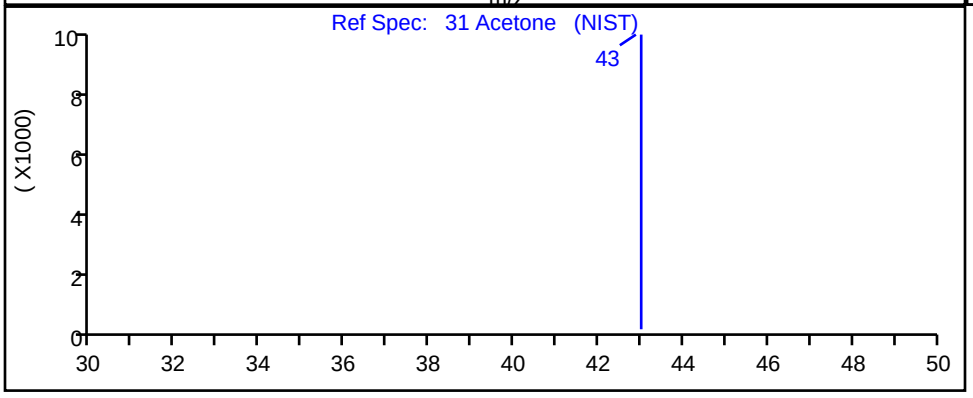
Processing Results











RT	Mass	Response	Amount
3.82	43.00	1837	0.683348
3.82	58.00	0	

Reviewer: lapointec, 14-Dec-2021 10:15:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-193337-1

SDG No.: 193337

Client Sample ID: CD-1RA | Lab Sample ID: 480-193337-2

Matrix: Water | Lab File ID: L16197.D

Analysis Method: 8260C | Date Collected: 12/09/2021 11:15

Sample wt/vol: 5(mL) | Date Analyzed: 12/13/2021 19:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 608538 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Client Sample ID: CD-1RA Lab Sample ID: 480-193337-2

Matrix: Water Lab File ID: L16197.D

Analysis Method: 8260C Date Collected: 12/09/2021 11:15

Sample wt/vol: 5(mL) Date Analyzed: 12/13/2021 19:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608538 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16197.D
Lims ID: 480-193337-N-2
Client ID: CD-1RA
Sample Type: Client
Inject. Date: 13-Dec-2021 19:49:28 ALS Bottle#: 0 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193337-N-2
Misc. Info.: 480-0103006-030
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Dec-2021 10:16:29 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1664

First Level Reviewer: lapointec Date: 14-Dec-2021 10:16:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	100	125740	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	84	639244	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	93	369804	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	236241	26.9	
$ 6 Toluene-d8 (Surr)	98	7.810	7.807	0.003	93	783533	25.4	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.517	0.001	97	286644	24.3	
13 Chloromethane	50		2.347				ND	
14 Vinyl chloride	62		2.476				ND	
18 Bromomethane	94		2.852				ND	
19 Chloroethane	64		2.945				ND	
21 Trichlorofluoromethane	101		3.183				ND	
30 1,1-Dichloroethene	96		3.727				ND	
31 Acetone	43		3.820				ND	U
33 Iodomethane	142		3.910				ND	
35 Carbon disulfide	76		3.965				ND	
39 Methylene Chloride	84		4.219				ND	
42 trans-1,2-Dichloroethene	96		4.437				ND	
44 Acrylonitrile	53		4.476				ND	
50 1,1-Dichloroethane	63		4.833				ND	
49 Vinyl acetate	43		4.836				ND	
58 cis-1,2-Dichloroethene	96		5.350				ND	
57 2-Butanone (MEK)	43		5.354				ND	
60 Chlorobromomethane	128		5.582				ND	
62 Chloroform	83		5.627				ND	
64 1,1,1-Trichloroethane	97		5.768				ND	
66 Carbon tetrachloride	117		5.904				ND	
70 Benzene	78		6.109				ND	
72 1,2-Dichloroethane	62		6.164				ND	
75 Trichloroethene	95		6.675				ND	
77 1,2-Dichloropropane	63		6.920				ND	
82 Dibromomethane	93		7.061				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
83 Dichlorobromomethane	83		7.180				ND	
85 cis-1,3-Dichloropropene	75		7.576				ND	
87 4-Methyl-2-pentanone (MIBK)	43		7.682				ND	
88 Toluene	92		7.875				ND	
91 trans-1,3-Dichloropropene	75		8.116				ND	
93 1,1,2-Trichloroethane	83		8.321				ND	
94 Tetrachloroethene	166		8.408				ND	
96 2-Hexanone	43		8.502				ND	
98 Chlorodibromomethane	129		8.743				ND	
101 Ethylene Dibromide	107		8.875				ND	
103 Chlorobenzene	112		9.328				ND	
104 Ethylbenzene	91		9.389				ND	
105 1,1,1,2-Tetrachloroethane	131		9.408				ND	
106 m-Xylene & p-Xylene	106		9.505				ND	
107 o-Xylene	106		9.945				ND	
109 Styrene	104		9.971				ND	
110 Bromoform	173		10.251				ND	
112 1,1,2,2-Tetrachloroethane	83		10.682				ND	
115 trans-1,4-Dichloro-2-butene	53		10.723				ND	
116 1,2,3-Trichloropropane	110		10.736				ND	
126 1,4-Dichlorobenzene	146		11.633				ND	
128 1,2-Dichlorobenzene	146		11.977				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.656				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent

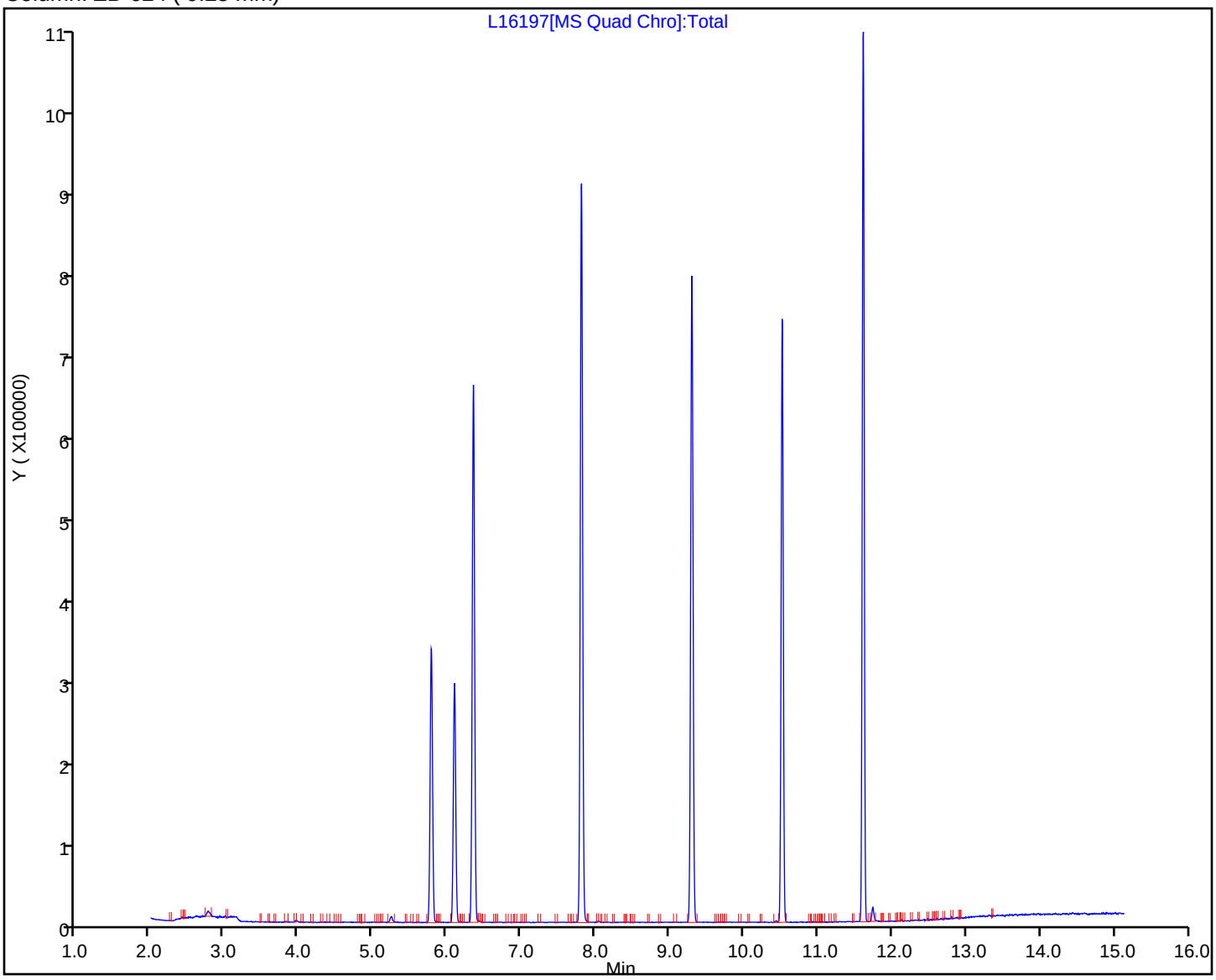
Report Date: 14-Dec-2021 10:16:29 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16197.D

Injection Date:	13-Dec-2021 19:49:28	Instrument ID:	HP5977L		
Lims ID:	480-193337-N-2	Lab Sample ID:	480-193337-2		
Client ID:	CD-1RA				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



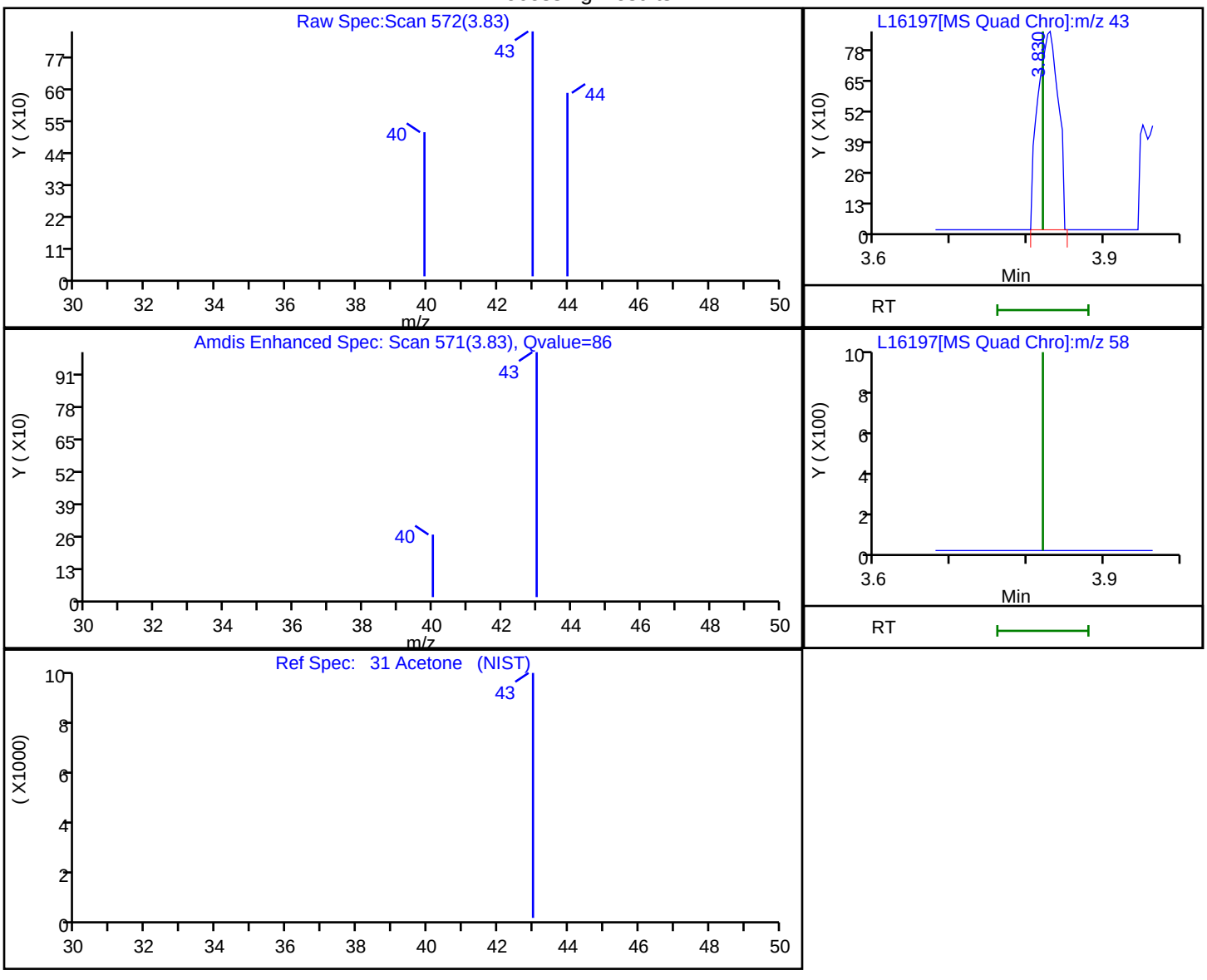
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16197.D				
Injection Date:	13-Dec-2021 19:49:28	Instrument ID:	HP5977L		
Lims ID:	480-193337-N-2	Lab Sample ID:	480-193337-2		
Client ID:	CD-1RA				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

31 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.83	43.00	1600	0.583754
3.82	58.00	0	

Reviewer: lapointec, 14-Dec-2021 10:16:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-608018/8	L16084.D
Level 2	IC 480-608018/9	L16085.D
Level 3	IC 480-608018/10	L16086.D
Level 4	IC 480-608018/11	L16087.D
Level 5	IC 480-608018/12	L16088.D
Level 6	ICIS 480-608018/13	L16089.D
Level 7	IC 480-608018/14	L16090.D
Level 8	IC 480-608018/15	L16091.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 1.3571	0.7949 1.5082	0.7756 1.4829	1.1445	1.1783	Lin1	-1.128	1.4786			0.1000	15.8			0.9970		0.9900
Chloromethane	+++++ 1.3666	1.5777 1.4797	1.2603 1.3927	1.4901	1.3442	Ave		1.4159			0.1000	7.5		20.0			
Vinyl chloride	1.7904 1.5674	1.3940 1.7479	1.1590 1.6387	1.4663	1.4595	Ave		1.5279			0.1000	13.4		20.0			
Butadiene	1.7630 1.4325	1.0692 1.5786	0.9425 1.4983	1.3069	1.2807	Ave		1.3590				19.7		20.0			
Bromomethane	1.5622 1.5618	1.2649 1.8223	1.3644 1.6383	1.5293	1.7258	Ave		1.5586			0.1000	11.6		20.0			
Chloroethane	+++++ 1.1822	1.3621 1.3285	1.0495 1.2207	1.2293	1.1941	Ave		1.2238			0.1000	8.4		20.0			
Trichlorofluoromethane	+++++ 2.4733	1.5111 2.7466	1.5305 2.6186	2.0541	2.2951	Lin1	-1.771	2.6488			0.1000	12.8			0.9980		0.9900
Dichlorofluoromethane	+++++ 2.3808	2.5999 2.7747	2.3236 2.5012	2.3912	2.5276	Ave		2.4999				6.2		20.0			
Ethyl ether	+++++ 1.1109	1.3923 1.1413	1.4216 1.1398	1.1435	1.1395	Ave		1.2127				11.0		20.0			
Acrolein	+++++ 0.2222	0.2371 0.2343	0.2593 0.2472	0.2127	0.2309	Ave		0.2348				6.6		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 1.3681	0.9345 1.2998	1.1319 1.3748	0.8838	1.0168	Ave		1.1443			0.1000	18.0		20.0			
1,1-Dichloroethene	1.0290 1.2595	1.1708 1.2973	1.3540 1.3260	1.0589	1.1267	Ave		1.2028			0.1000	10.3		20.0			
Acetone	+++++ 0.5381	0.5496 0.5232	0.5816 0.5627	0.5398	0.5196	Ave		0.5449			0.1000	4.0		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	2.7237 2.7497	2.9403 2.9200	3.1076 2.8987	2.6530	2.8091	Ave		2.8503				5.1		20.0			
Carbon disulfide	3.9609 4.0607	3.7260 4.2161	4.3056 4.2141	3.5371	3.7067	Ave		3.9659			0.1000	7.1		20.0			
Allyl chloride	1.7541 1.6889	1.9189 1.7831	1.9716 1.7792	1.5622	1.6814	Ave		1.7674				7.4		20.0			
Methyl acetate	+++++ 1.2925	1.4493 1.3271	1.4781 1.3940	1.2860	1.3334	Ave		1.3658			0.1000	5.6		20.0			
Methylene Chloride	+++++ 1.5833	4.6231 1.6023	3.2717 1.5623	2.0517	1.8732	Lin1	3.1578	1.5232			0.1000	6.5			0.9990		0.9900
2-Methyl-2-propanol	0.2389 0.2313	0.2048 0.2169	0.2122 0.2601	0.2129	0.2062	Ave		0.2229				8.6		20.0			
Methyl tert-butyl ether	4.0398 3.8940	4.0190 4.1629	4.1365 4.3272	3.7343	3.9856	Ave		4.0374			0.1000	4.4		20.0			
trans-1,2-Dichloroethene	1.6163 1.5480	1.5448 1.6021	1.7418 1.5806	1.4706	1.4779	Ave		1.5728			0.1000	5.5		20.0			
Acrylonitrile	0.7710 0.6863	0.7112 0.6948	0.7688 0.7182	0.6926	0.6929	Ave		0.7170				4.8		20.0			
Hexane	+++++ 1.6561	1.2328 1.5852	1.4471 1.7021	1.0594	1.2605	Ave		1.4205				17.1		20.0			
1,1-Dichloroethane	2.3619 2.2778	2.4599 2.4061	2.4777 2.4088	2.1578	2.3017	Ave		2.3565			0.2000	4.5		20.0			
Vinyl acetate	2.5859 2.8150	2.5391 3.0263	2.6776 3.2408	2.5396	2.6590	Ave		2.7604				9.2		20.0			
2,2-Dichloropropane	1.4717 1.5762	1.4703 1.7466	1.7176 1.6717	1.3834	1.5441	Ave		1.5727				8.3		20.0			
cis-1,2-Dichloroethene	1.6626 1.6820	1.6600 1.7726	1.8884 1.7677	1.6172	1.7244	Ave		1.7219			0.1000	5.0		20.0			
2-Butanone (MEK)	0.8344 0.8533	0.8359 0.8498	0.9030 0.9324	0.8275	0.8015	Ave		0.8547			0.1000	5.0		20.0			
Chlorobromomethane	0.7724 0.9886	1.0758 1.0527	1.0929 1.0549	0.9337	1.0272	Ave		0.9998				10.5		20.0			
Tetrahydrofuran	0.4443 0.5693	0.6082 0.5866	0.6193 0.6272	0.5417	0.5501	Ave		0.5683				10.4		20.0			
Chloroform	3.3321 2.6294	2.8488 2.7627	3.0555 2.7549	2.5896	2.7254	Ave		2.8373			0.2000	8.7		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	+++++ 2.3610	1.9995 2.4433	2.3489 2.4443	1.9770	2.1361	Ave		2.2443			0.1000	9.0		20.0			
Cyclohexane	1.3019 1.9234	1.3915 1.8831	1.6747 1.9537	1.2584	1.5114	Ave		1.6122			0.1000	17.7		20.0			
Carbon tetrachloride	+++++ 2.1442	1.8016 2.2268	1.9763 2.3086	1.6506	1.7780	Ave		1.9837			0.1000	12.6		20.0			
1,1-Dichloropropene	1.5022 1.8428	1.6764 1.8604	1.8026 1.9006	1.5511	1.6488	Ave		1.7231				8.7		20.0			
Isobutyl alcohol	0.0884 0.0935	0.0733 0.0915	0.0876 0.1046	0.0840	0.0818	Ave		0.0881				10.4		20.0			
Benzene	5.3117 5.2874	5.5600 5.4602	5.8147 5.5298	5.2249	5.2168	Ave		5.4257			0.5000	3.8		20.0			
1,2-Dichloroethane	2.1259 1.9428	2.1951 2.0145	2.1262 2.0424	1.9674	2.0017	Ave		2.0520			0.1000	4.3		20.0			
n-Heptane	1.2130 1.5409	1.2254 1.5061	1.5315 1.6189	1.1063	1.2230	Ave		1.3706				14.4		20.0			
Trichloroethene	1.4991 1.5292	1.4590 1.5867	1.6549 1.6040	1.4541	1.4448	Ave		1.5290			0.2000	5.1		20.0			
Methylcyclohexane	+++++ 2.3429	1.6965 2.3146	2.0215 2.3918	1.5220	1.8648	Ave		2.0220			0.1000	17.0		20.0			
1,2-Dichloropropane	1.0847 1.1999	1.1790 1.2407	1.2808 1.2838	1.1636	1.1757	Ave		1.2011			0.1000	5.5		20.0			
1,4-Dioxane	+++++ 0.0039	+++++ 0.0036	0.0034 0.0040	0.0032	0.0034	Ave		0.0036				8.8		20.0			
Dibromomethane	1.0148 1.0703	1.1095 1.0952	1.1740 1.1222	1.0794	1.0784	Ave		1.0930			0.1000	4.2		20.0			
Bromodichloromethane	1.7504 1.8761	1.9424 2.0174	1.9646 2.0975	1.7514	1.8279	Ave		1.9035			0.2000	6.6		20.0			
2-Chloroethyl vinyl ether	+++++ 0.9176	0.7638 0.9532	0.8948 1.0235	0.8631	0.8513	Ave		0.8953				9.2		20.0			
cis-1,3-Dichloropropene	1.8624 2.1207	2.0633 2.2804	2.0219 2.3977	1.9504	2.0358	Ave		2.0916			0.2000	8.3		20.0			
4-Methyl-2-pentanone (MIBK)	0.3594 0.3678	0.3303 0.3810	0.3566 0.3973	0.3494	0.3605	Ave		0.3628			0.1000	5.6		20.0			
Toluene	0.7652 0.7481	0.8242 0.7772	0.8245 0.7951	0.7577	0.7504	Ave		0.7803			0.4000	4.0		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl methacrylate	0.3185 0.3962	0.2968 0.4192	0.3198 0.4530	0.3413	0.3595	Ave		0.3630				15.1		20.0			
trans-1,3-Dichloropropene	0.3541 0.4415	0.4041 0.4612	0.4135 0.4998	0.4051	0.4181	Ave		0.4247			0.1000	10.2		20.0			
1,1,2-Trichloroethane	0.2081 0.2330	0.2658 0.2414	0.2403 0.2525	0.2323	0.2393	Ave		0.2391			0.1000	7.0		20.0			
Tetrachloroethene	0.3488 0.4041	0.3806 0.4115	0.4051 0.4259	0.3646	0.3717	Ave		0.3890			0.2000	6.8		20.0			
1,3-Dichloropropane	0.5329 0.4713	0.4948 0.4750	0.4969 0.4977	0.4750	0.4645	Ave		0.4885				4.5		20.0			
2-Hexanone	0.2453 0.2540	0.2144 0.2622	0.2454 0.2789	0.2429	0.2400	Ave		0.2479			0.1000	7.5		20.0			
Dibromochloromethane	0.2955 0.3558	0.3221 0.3843	0.3472 0.4182	0.3286	0.3327	Ave		0.3480			0.1000	11.0		20.0			
1,2-Dibromoethane	0.3679 0.3432	0.3458 0.3534	0.3524 0.3712	0.3362	0.3324	Ave		0.3503				4.0		20.0			
Chlorobenzene	0.9134 0.9091	1.0053 0.9451	1.0026 0.9716	0.9148	0.9056	Ave		0.9459			0.5000	4.5		20.0			
Ethylbenzene	1.3781 1.4205	1.4345 1.4671	1.4930 1.4921	1.3779	1.3716	Ave		1.4293			0.1000	3.6		20.0			
1,1,1,2-Tetrachloroethane	0.2843 0.3689	0.3334 0.3893	0.3520 0.4004	0.3468	0.3457	Ave		0.3526				10.2		20.0			
m,p-Xylene	0.5518 0.5833	0.5985 0.6102	0.6119 0.6183	0.5604	0.5621	Ave		0.5871			0.1000	4.5		20.0			
o-Xylene	0.5723 0.5902	0.5611 0.6189	0.5996 0.6231	0.5642	0.5827	Ave		0.5890			0.3000	4.0		20.0			
Styrene	0.8578 0.9774	0.8636 1.0331	0.9638 1.0578	0.9247	0.9306	Ave		0.9511			0.3000	7.6		20.0			
Bromoform	0.2369 0.2747	0.2317 0.3136	0.2352 0.3434	0.2329	0.2481	Ave		0.2646			0.1000	16.1		20.0			
Isopropylbenzene	2.4353 2.4230	2.3802 2.5705	2.5841 2.6963	2.4144	2.4323	Ave		2.4920			0.1000	4.5		20.0			
1,1,2,2-Tetrachloroethane	0.9041 0.7355	0.7494 0.7576	0.7604 0.8255	0.7606	0.7727	Ave		0.7832			0.3000	7.1		20.0			
Bromobenzene	0.8130 0.7038	0.7662 0.7523	0.7958 0.8010	0.7611	0.7332	Ave		0.7658				4.8		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	2.6012 2.7110	2.7714 2.8566	2.8769 2.9729	2.7668	2.7073	Ave		2.7830				4.2		20.0			
trans-1,4-Dichloro-2-butene	0.1783 0.1967	0.1780 0.2142	0.2046 0.2345	0.1900	0.1933	Ave		0.1987				9.5		20.0			
1,2,3-Trichloropropane	+++++ 0.2706	0.2994 0.2819	0.2886 0.2987	0.3012	0.2869	Ave		0.2896				3.8		20.0			
2-Chlorotoluene	0.5970 0.6334	0.6362 0.6642	0.7236 0.6925	0.6748	0.6434	Ave		0.6581				6.0		20.0			
1,3,5-Trimethylbenzene	2.1453 2.0557	2.1325 2.1682	2.2288 2.2609	2.1147	2.0909	Ave		2.1496				3.2		20.0			
4-Chlorotoluene	1.7898 1.6467	1.7507 1.7160	1.8039 1.8034	1.7629	1.7058	Ave		1.7474				3.2		20.0			
tert-Butylbenzene	+++++ 0.5008	0.5012 0.5313	0.4973 0.5606	0.4895	0.4794	Ave		0.5086				5.5		20.0			
1,2,4-Trimethylbenzene	2.0439 2.1473	2.1129 2.2573	2.3051 2.3327	2.2341	2.1886	Ave		2.2027				4.5		20.0			
sec-Butylbenzene	2.4672 2.6722	2.4282 2.7633	2.6993 2.8965	2.5418	2.5053	Ave		2.6217				6.2		20.0			
4-Isopropyltoluene	2.2251 2.4442	2.2885 2.5561	2.5020 2.6836	2.3727	2.3793	Ave		2.4315				6.1		20.0			
1,3-Dichlorobenzene	1.4760 1.3677	1.4668 1.4137	1.5657 1.4933	1.4340	1.4412	Ave		1.4573			0.6000	4.0		20.0			
1,4-Dichlorobenzene	1.6398 1.3787	1.5594 1.4436	1.5731 1.5101	1.4916	1.4529	Ave		1.5061			0.5000	5.5		20.0			
n-Butylbenzene	2.0499 2.0215	1.9114 2.1246	2.1170 2.2148	1.9288	1.9094	Ave		2.0347				5.6		20.0			
1,2-Dichlorobenzene	1.6579 1.3507	1.5276 1.4050	1.4679 1.4726	1.4265	1.4155	Ave		1.4654			0.4000	6.4		20.0			
1,2-Dibromo-3-Chloropropane	0.1329 0.1657	0.1534 0.1827	0.1795 0.2005	0.1528	0.1679	Ave		0.1669			0.0500	12.6		20.0			
1,2,4-Trichlorobenzene	+++++ 1.0573	1.1122 1.0992	1.1525 1.1580	1.1112	1.1090	Ave		1.1142			0.2000	3.0		20.0			
Hexachlorobutadiene	0.5290 0.4806	0.3781 0.4915	0.4933 0.5290	0.4538	0.4557	Ave		0.4764				10.2		20.0			
Naphthalene	+++++ 3.0188	3.0195 3.1294	3.1004 3.2784	3.0467	3.1100	Ave		3.1005				2.9		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	+++++ 1.0293	1.0712 1.0551	1.1176 1.1035	1.0622	1.0482	Ave		1.0696				2.9		20.0			
Dibromofluoromethane (Surr)	1.7330 1.6901	1.6961 1.7511	1.7013 1.7240	1.7201	1.7802	Ave		1.7245				1.8		20.0			
1,2-Dichloroethane-d4 (Surr)	1.7879 1.7096	1.7596 1.7130	1.7326 1.7355	1.7570	1.7704	Ave		1.7457				1.6		20.0			
Toluene-d8 (Surr)	1.2179 1.1805	1.2267 1.1594	1.1744 1.2071	1.2577	1.2318	Ave		1.2069				2.8		20.0			
4-Bromofluorobenzene (Surr)	0.4504 0.4551	0.4552 0.4560	0.4457 0.4880	0.4680	0.4708	Ave		0.4611				3.0		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-608018/8	L16084.D
Level 2	IC 480-608018/9	L16085.D
Level 3	IC 480-608018/10	L16086.D
Level 4	IC 480-608018/11	L16087.D
Level 5	IC 480-608018/12	L16088.D
Level 6	ICIS 480-608018/13	L16089.D
Level 7	IC 480-608018/14	L16090.D
Level 8	IC 480-608018/15	L16091.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Lin1	+++++	3842	7551	28573	57861	+++++	1.00	2.00	5.00	10.0
			171495	391553	784419			25.0	50.0	100		
Chloromethane	FB	Ave	+++++	7626	12270	37201	66008	+++++	1.00	2.00	5.00	10.0
			172698	384163	736687			25.0	50.0	100		
Vinyl chloride	FB	Ave	3405	6738	11284	36607	71668	0.400	1.00	2.00	5.00	10.0
			198074	453789	866811			25.0	50.0	100		
Butadiene	FB	Ave	3353	5168	9176	32626	62888	0.400	1.00	2.00	5.00	10.0
			181017	409828	792550			25.0	50.0	100		
Bromomethane	FB	Ave	2971	6114	13283	38178	84745	0.400	1.00	2.00	5.00	10.0
			197367	473102	866603			25.0	50.0	100		
Chloroethane	FB	Ave	+++++	6584	10218	30690	58638	+++++	1.00	2.00	5.00	10.0
			149396	344892	645715			25.0	50.0	100		
Trichlorofluoromethane	FB	Lin1	+++++	7304	14901	51280	112701	+++++	1.00	2.00	5.00	10.0
			312552	713067	1385169			25.0	50.0	100		
Dichlorofluoromethane	FB	Ave	+++++	12567	22622	59697	124118	+++++	1.00	2.00	5.00	10.0
			300853	720344	1323029			25.0	50.0	100		
Ethyl ether	FB	Ave	+++++	6730	13840	28547	55956	+++++	1.00	2.00	5.00	10.0
			140381	296295	602938			25.0	50.0	100		
Acrolein	FB	Ave	+++++	5731	12624	26549	56680	+++++	5.00	10.0	25.0	50.0
			140421	304111	653850			125	250	500		
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++	4517	11020	22064	49930	+++++	1.00	2.00	5.00	10.0
			172883	337454	727236			25.0	50.0	100		
1,1-Dichloroethene	FB	Ave	1957	5659	13182	26435	55326	0.400	1.00	2.00	5.00	10.0
			159162	336791	701425			25.0	50.0	100		
Acetone	FB	Ave	+++++	13283	28313	67384	127572	+++++	5.00	10.0	25.0	50.0

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ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			340016	679118	1488181			125	250	500		
Iodomethane	FB	Ave	5180 347479	14212 758083	30255 1533324	66231	137939	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	7533 513145	18010 1094564	41918 2229126	88303	182019	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Allyl chloride	FB	Ave	3336 213426	9275 462923	19195 941129	39000	82563	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	+++++ 326667	14011 689089	28781 1474701	64212	130951	+++++ 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	+++++ 200075	22346 415975	31852 826407	51221	91985	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	4543 292330	9900 563023	20662 1375660	53140	101267	4.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	7683 492071	19426 1080760	40272 2288927	93226	195712	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	3074 195615	7467 415916	16958 836106	36714	72570	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	14663 867289	34377 1803731	74848 3798780	172917	340271	4.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	+++++ 209273	5959 411549	14089 900329	26448	61897	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	4492 287840	11890 624657	24122 1274157	53870	113023	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	9836 711462	24546 1571335	52136 3428560	126803	261143	0.800 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	2799 199187	7107 453434	16722 884244	34536	75821	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	3162 212555	8024 460187	18385 935062	40374	84676	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	7934 539142	20201 1103055	43958 2466129	103295	196794	2.00 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	1469 124933	5200 273293	10640 557994	23309	50440	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	1690 143876	5880 304562	12059 663585	27048	54024	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	6337	13770	29748	64650	133831	0.400	1.00	2.00	5.00	10.0

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SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			332269	717239	1457218			25.0	50.0	100		
1,1,1-Trichloroethane	FB	Ave	+++++ 298359	9665 634306	22868 1292954	49356	104891	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	2476 243053	6726 488876	16304 1033414	31417	74215	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	+++++ 270958	8708 578104	19241 1221142	41207	87310	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	2857 232876	8103 482996	17550 1005326	38723	80965	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	4204 295488	8856 593865	21330 1383356	52432	100471	10.0 625	25.0 1250	50.0 2500	125	250
Benzene	FB	Ave	10102 668155	26875 1417541	56611 2925086	130439	256168	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	4043 245504	10610 523004	20700 1080365	49115	98295	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	2307 194722	5923 391011	14910 856345	27618	60055	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	2851 193243	7052 411926	16112 848448	36301	70946	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	+++++ 296071	8200 600899	19681 1265166	37996	91572	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	2063 151633	5699 322111	12470 679077	29050	57734	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	+++++ 46298	+++++ 87300	3065 200827	7349	15523	+++++ 500	+++++ 1000	40.0 2000	100	200
Dibromomethane	FB	Ave	1930 135254	5363 284321	11430 593618	26948	52957	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromodichloromethane	FB	Ave	3329 237083	9389 523747	19127 1109502	43723	89758	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 115954	3692 247452	8712 541404	21548	41804	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	3542 267989	9973 592031	19685 1268298	48692	99967	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	15427	37031	81443	198430	406796	2.00	5.00	10.0	25.0	50.0

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			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			1085191	2341970	4964934			125	250	500		
Toluene	CBNZ d5	Ave	6570 441443	18484 955518	37659 1987159	86055	169345	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	2735 233780	6656 515385	14606 1132087	38758	81137	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	3040 260512	9062 566961	18889 1249095	46007	94364	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	1787 137478	5961 296845	10976 631100	26382	53998	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	2995 238489	8536 505886	18504 1064349	41404	83886	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	4575 278100	11097 583952	22695 1243922	53949	104828	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	10532 749542	24037 1611969	56040 3484749	137960	270869	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	2537 209981	7223 472429	15858 1045138	37323	75089	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	3159 202512	7754 434494	16096 927625	38189	75012	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	7842 536478	22544 1161917	45795 2428277	103901	204368	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	11832 838243	32169 1803711	68196 3729047	156491	309539	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	2441	7476	16078	39388	78022	0.400	1.00	2.00	5.00	10.0

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			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			217698	478617	1000789			25.0	50.0	100		
m,p-Xylene	CBNZ d5	Ave	4738	13422	27951	63649	126864	0.400	1.00	2.00	5.00	10.0
			344209	750219	1545198			25.0	50.0	100		
o-Xylene	CBNZ d5	Ave	4914	12582	27388	64081	131511	0.400	1.00	2.00	5.00	10.0
			348275	760907	1557292			25.0	50.0	100		
Styrene	CBNZ d5	Ave	7365	19367	44022	105029	210013	0.400	1.00	2.00	5.00	10.0
			576766	1270103	2643851			25.0	50.0	100		
Bromoform	CBNZ d5	Ave	2034	5195	10742	26457	55992	0.400	1.00	2.00	5.00	10.0
			162119	385565	858177			25.0	50.0	100		
Isopropylbenzene	DCBd 4	Ave	12536	32065	72529	160689	331419	0.400	1.00	2.00	5.00	10.0
			911009	2000331	4056525			25.0	50.0	100		
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4654	10096	21343	50620	105290	0.400	1.00	2.00	5.00	10.0
			276544	589538	1241974			25.0	50.0	100		
Bromobenzene	DCBd 4	Ave	4185	10322	22335	50655	99899	0.400	1.00	2.00	5.00	10.0
			264604	585398	1205009			25.0	50.0	100		
N-Propylbenzene	DCBd 4	Ave	13390	37334	80748	184139	368892	0.400	1.00	2.00	5.00	10.0
			1019297	2222923	4472638			25.0	50.0	100		
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	918	2398	5743	12648	26342	0.400	1.00	2.00	5.00	10.0
			73938	166720	352807			25.0	50.0	100		
1,2,3-Trichloropropane	DCBd 4	Ave	+++++	4033	8100	20046	39097	+++++	1.00	2.00	5.00	10.0
			101758	219371	449453			25.0	50.0	100		
2-Chlorotoluene	DCBd 4	Ave	3073	8571	20311	44908	87673	0.400	1.00	2.00	5.00	10.0
			238130	516833	1041789			25.0	50.0	100		
1,3,5-Trimethylbenzene	DCBd 4	Ave	11043	28728	62556	140738	284901	0.400	1.00	2.00	5.00	10.0

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			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			772899	1687287	3401389			25.0	50.0	100		
4-Chlorotoluene	DCBd 4	Ave	9213 619127	23584 1335365	50632 2713135	117330	232425	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 188282	6752 413424	13957 843470	32581	65320	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	10521 807348	28463 1756563	64699 3509471	148690	298214	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	12700 1004684	32711 2150338	75762 4357688	169167	341370	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	11454 918978	30829 1989154	70226 4037341	157913	324202	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	7598 514232	19760 1100127	43944 2246545	95437	196377	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	8441 518353	21007 1123422	44154 2271838	99273	197966	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	10552 760057	25749 1653316	59420 3332084	128371	260172	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	8534 507837	20579 1093310	41199 2215416	94941	192877	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	684 62285	2067 142150	5038 301654	10168	22877	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 397540	14983 855387	32348 1742151	73955	151115	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	2723	5094	13845	30205	62093	0.400	1.00	2.00	5.00	10.0

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			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			180681	382465	795831			25.0	50.0	100		
Naphthalene	DCBd 4	Ave	+++++	40677	87021	202769	423771	+++++	1.00	2.00	5.00	10.0
			1135018	2435249	4932235			25.0	50.0	100		
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++	14431	31369	70696	142829	+++++	1.00	2.00	5.00	10.0
			387013	821050	1660148			25.0	50.0	100		
Dibromofluoromethane (Surr)	FB	Ave	205991	204953	207045	214716	218544	25.0	25.0	25.0	25.0	25.0
			213579	227304	227988			25.0	25.0	25.0		
1,2-Dichloroethane-d4 (Surr)	FB	Ave	212519	212627	210847	219318	217341	25.0	25.0	25.0	25.0	25.0
			216043	222357	229503			25.0	25.0	25.0		
Toluene-d8 (Surr)	CBNZ d5	Ave	653530	687755	670564	714239	694984	25.0	25.0	25.0	25.0	25.0
			696601	712680	754204			25.0	25.0	25.0		
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	241691	255216	254475	265761	265635	25.0	25.0	25.0	25.0	25.0
			268547	280297	304901			25.0	25.0	25.0		

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-608018/8	L16084.D
Level 2	IC 480-608018/9	L16085.D
Level 3	IC 480-608018/10	L16086.D
Level 4	IC 480-608018/11	L16087.D
Level 5	IC 480-608018/12	L16088.D
Level 6	ICIS 480-608018/13	L16089.D
Level 7	IC 480-608018/14	L16090.D
Level 8	IC 480-608018/15	L16091.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	+++++	30.0						30				
Chloromethane	+++++	11.4						30				
Vinyl chloride	17.2						30					
Butadiene	29.7						30					
Bromomethane	0.2						30					
Chloroethane	+++++	11.3						30				
Trichlorofluoromethane	+++++	23.9						30				
Dichlorofluoromethane	+++++	4.0						30				
Ethyl ether	+++++	14.8						30				
Acrolein	+++++	1.0						30				
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++	-18.3						30				
1,1-Dichloroethene	-14.4						30					
Acetone	+++++	0.9						30				
Iodomethane	-4.4						30					
Carbon disulfide	-0.1						30					

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	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Allyl chloride	-0.8						30					
Methyl acetate	+++++	6.1						30				
Methylene Chloride	+++++	-3.8						30				
2-Methyl-2-propanol	7.2						30					
Methyl tert-butyl ether	0.1						30					
trans-1,2-Dichloroethene	2.8						30					
Acrylonitrile	7.5						30					
Hexane	+++++	-13.2						30				
1,1-Dichloroethane	0.2						30					
Vinyl acetate	-6.3						30					
2,2-Dichloropropane	-6.4						30					
cis-1,2-Dichloroethene	-3.4						30					
2-Butanone (MEK)	-2.4						30					
Chlorobromomethane	-22.7						30					
Tetrahydrofuran	-21.8						30					
Chloroform	17.4						30					
1,1,1-Trichloroethane	+++++	-10.9						30				
Cyclohexane	-19.2						30					
Carbon tetrachloride	+++++	-9.2						30				
1,1-Dichloropropene	-12.8						30					
Isobutyl alcohol	0.4						30					

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	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Benzene	-2.1						30					
1,2-Dichloroethane	3.6						30					
n-Heptane	-11.5						30					
Trichloroethene	-2.0						30					
Methylcyclohexane	+++++	-16.1						30				
1,2-Dichloropropane	-9.7						30					
1,4-Dioxane	+++++	+++++	-6.5						30			
Dibromomethane	-7.2						30					
Bromodichloromethane	-8.0						30					
2-Chloroethyl vinyl ether	+++++	-14.7						30				
cis-1,3-Dichloropropene	-11.0						30					
4-Methyl-2-pentanone (MIBK)	-0.9						30					
Toluene	-1.9						30					
Ethyl methacrylate	-12.3						30					
trans-1,3-Dichloropropene	-16.6						30					
1,1,2-Trichloroethane	-12.9						30					
Tetrachloroethene	-10.3						30					
1,3-Dichloropropane	9.1						30					
2-Hexanone	-1.0						30					
Dibromochloromethane	-15.1						30					
1,2-Dibromoethane	5.0						30					

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SDG No.: 193337

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ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chlorobenzene	-3.4						30					
Ethylbenzene	-3.6						30					
1,1,1,2-Tetrachloroethane	-19.4						30					
m,p-Xylene	-6.0						30					
o-Xylene	-2.8						30					
Styrene	-9.8						30					
Bromoform	-10.5						30					
Isopropylbenzene	-2.3						30					
1,1,2,2-Tetrachloroethane	15.4						30					
Bromobenzene	6.2						30					
N-Propylbenzene	-6.5						30					
trans-1,4-Dichloro-2-butene	-10.3						30					
1,2,3-Trichloropropane	+++++	3.4						30				
2-Chlorotoluene	-9.3						30					
1,3,5-Trimethylbenzene	-0.2						30					
4-Chlorotoluene	2.4						30					
tert-Butylbenzene	+++++	-1.4						30				
1,2,4-Trimethylbenzene	-7.2						30					
sec-Butylbenzene	-5.9						30					
4-Isopropyltoluene	-8.5						30					
1,3-Dichlorobenzene	1.3						30					

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

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SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	8.9						30					
n-Butylbenzene	0.7						30					
1,2-Dichlorobenzene	13.1						30					
1,2-Dibromo-3-Chloropropane	-20.4						30					
1,2,4-Trichlorobenzene	+++++	-0.2						30				
Hexachlorobutadiene	11.0						30					
Naphthalene	+++++	-2.6						30				
1,2,3-Trichlorobenzene	+++++	0.2						30				
Dibromofluoromethane (Surr)	0.5						30					
1,2-Dichloroethane-d4 (Surr)	2.4						30					
Toluene-d8 (Surr)	0.9						30					
4-Bromofluorobenzene (Surr)	-2.3						30					

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Lims ID: IC 0.4
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Dec-2021 16:14:22 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.4
Misc. Info.: 480-0102927-008
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:21 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 10:38:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	118864	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	536616	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	93	321724	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	93	205991	25.0	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	212519	25.0	25.6	
$ 6 Toluene-d8 (Surr)	98	7.807	7.810	-0.003	93	653530	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr)	174	10.521	10.518	0.003	92	241691	25.0	24.4	
10 Dichlorodifluoromethane	85	2.087	2.090	-0.003	85	2327	0.4000	1.09	
13 Chloromethane	50	2.338	2.347	-0.009	93	3229	0.4000	0.4796	a
14 Vinyl chloride	62	2.473	2.476	-0.003	95	3405	0.4000	0.4687	
15 Butadiene	54	2.486	2.492	-0.006	93	3353	0.4000	0.5189	
18 Bromomethane	94	2.859	2.878	-0.019	51	2971	0.4000	0.4009	Ma
19 Chloroethane	64	2.952	2.955	-0.003	84	2876	0.4000	0.4943	
21 Trichlorofluoromethane	101	3.180	3.183	-0.003	69	4580	0.4000	1.03	
20 Dichlorofluoromethane	67	3.187	3.187	0.000	92	6501	0.4000	0.5470	
26 Ethyl ether	59	3.473	3.479	-0.006	91	3031	0.4000	0.5257	
28 Acrolein	56	3.682	3.678	0.004	96	2821	2.00	2.53	
29 112TCTFE	101	3.695	3.704	-0.009	72	1306	0.4000	0.2401	Ma
30 1,1-Dichloroethene	96	3.723	3.730	-0.007	93	1957	0.4000	0.3422	
31 Acetone	43	3.823	3.826	-0.003	97	6372	2.00	2.46	
33 Iodomethane	142	3.913	3.913	0.000	95	5180	0.4000	0.3822	
35 Carbon disulfide	76	3.961	3.965	-0.004	98	7533	0.4000	0.3995	a
37 3-Chloro-1-propene	41	4.074	4.080	-0.006	84	3336	0.4000	0.3970	a
38 Methyl acetate	43	4.093	4.100	-0.007	94	5941	0.8000	0.9149	
39 Methylene Chloride	84	4.215	4.222	-0.007	87	13215	0.4000	-0.2484	
40 2-Methyl-2-propanol	59	4.318	4.318	0.000	96	4543	4.00	4.29	
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	96	7683	0.4000	0.4002	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	92	3074	0.4000	0.4111	a
44 Acrylonitrile	53	4.479	4.479	0.000	97	14663	4.00	4.30	
47 Hexane	57	4.595	4.598	-0.003	86	1935	0.4000	0.2865	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.830	4.836	-0.006	90	4492	0.4000	0.4009	
49 Vinyl acetate	43	4.839	4.836	0.003	97	9836	0.8000	0.7494	
56 2,2-Dichloropropane	77	5.322	5.331	-0.009	72	2799	0.4000	0.3743	a
57 2-Butanone (MEK)	43	5.360	5.357	0.003	95	7934	2.00	1.95	
58 cis-1,2-Dichloroethene	96	5.357	5.357	0.000	65	3162	0.4000	0.3862	
60 Chlorobromomethane	128	5.585	5.585	0.000	82	1469	0.4000	0.3090	
61 Tetrahydrofuran	42	5.608	5.601	0.007	84	1690	0.8000	0.6254	
62 Chloroform	83	5.633	5.630	0.003	89	6337	0.4000	0.4698	
64 1,1,1-Trichloroethane	97	5.772	5.772	0.000	89	3104	0.4000	0.2909	
65 Cyclohexane	56	5.785	5.791	-0.006	44	2476	0.4000	0.3230	a
66 Carbon tetrachloride	117	5.900	5.907	-0.007	88	2287	0.4000	0.2425	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	81	2857	0.4000	0.3487	
69 Isobutyl alcohol	43	6.013	6.010	0.003	79	4204	10.0	10.0	
70 Benzene	78	6.116	6.113	0.004	91	10102	0.4000	0.3916	
72 1,2-Dichloroethane	62	6.164	6.167	-0.003	88	4043	0.4000	0.4144	
73 n-Heptane	43	6.212	6.209	0.003	85	2307	0.4000	0.3540	
75 Trichloroethene	95	6.672	6.678	-0.006	89	2851	0.4000	0.3922	
76 Methylcyclohexane	83	6.804	6.807	-0.003	76	2812	0.4000	0.2925	
77 1,2-Dichloropropane	63	6.926	6.920	0.006	78	2063	0.4000	0.3613	a
81 1,4-Dioxane	88		7.029				ND	ND	U
82 Dibromomethane	93	7.064	7.064	0.000	91	1930	0.4000	0.3714	
83 Dichlorobromomethane	83	7.183	7.180	0.003	89	3329	0.4000	0.3678	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	77	1386	0.4000	0.3256	a
85 cis-1,3-Dichloropropene	75	7.575	7.579	-0.004	90	3542	0.4000	0.3562	
87 4-Methyl-2-pentanone (MIBK)	43	7.682	7.685	-0.003	96	15427	2.00	1.98	a
88 Toluene	92	7.871	7.875	-0.004	98	6570	0.4000	0.3923	
90 Ethyl methacrylate	69	8.109	8.109	0.000	76	2735	0.4000	0.3510	a
91 trans-1,3-Dichloropropene	75	8.122	8.119	0.003	88	3040	0.4000	0.3335	
93 1,1,2-Trichloroethane	83	8.321	8.321	0.000	84	1787	0.4000	0.3482	
94 Tetrachloroethene	166	8.402	8.411	-0.009	85	2995	0.4000	0.3587	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	92	4575	0.4000	0.4363	a
96 2-Hexanone	43	8.505	8.505	0.000	95	10532	2.00	1.98	
98 Chlorodibromomethane	129	8.739	8.743	-0.004	80	2537	0.4000	0.3396	a
101 Ethylene Dibromide	107	8.874	8.875	0.000	94	3159	0.4000	0.4201	
103 Chlorobenzene	112	9.334	9.331	0.003	90	7842	0.4000	0.3862	a
104 Ethylbenzene	91	9.392	9.392	0.000	96	11832	0.4000	0.3857	
105 1,1,1,2-Tetrachloroethane	131	9.405	9.411	-0.006	84	2441	0.4000	0.3225	
106 m-Xylene & p-Xylene	106	9.511	9.508	0.003	95	4738	0.4000	0.3760	
107 o-Xylene	106	9.945	9.945	0.000	93	4914	0.4000	0.3887	
109 Styrene	104	9.974	9.971	0.003	90	7365	0.4000	0.3608	
110 Bromoform	173	10.247	10.251	-0.004	84	2034	0.4000	0.3582	
111 Isopropylbenzene	105	10.305	10.302	0.003	93	12536	0.4000	0.3909	
112 1,1,2,2-Tetrachloroethane	83	10.678	10.682	-0.004	88	4654	0.4000	0.4617	
113 Bromobenzene	156	10.688	10.688	0.000	78	4185	0.4000	0.4247	
114 N-Propylbenzene	91	10.717	10.717	0.000	97	13390	0.4000	0.3739	
115 trans-1,4-Dichloro-2-butene	53	10.723	10.727	-0.004	62	918	0.4000	0.3590	
116 1,2,3-Trichloropropane	110	10.739	10.736	0.003	81	1769	0.4000	0.4746	
117 2-Chlorotoluene	126	10.845	10.846	-0.001	95	3073	0.4000	0.3628	a
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	92	11043	0.4000	0.3992	
119 4-Chlorotoluene	91	10.948	10.948	0.000	93	9213	0.4000	0.4097	
120 tert-Butylbenzene	134	11.193	11.190	0.003	89	1998	0.4000	0.3053	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	93	10521	0.4000	0.3712	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.392	11.389	0.003	92	12700	0.4000	0.3764	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	94	11454	0.4000	0.3661	
124 1,3-Dichlorobenzene	146	11.559	11.556	0.003	94	7598	0.4000	0.4051	
126 1,4-Dichlorobenzene	146	11.636	11.636	0.000	94	8441	0.4000	0.4355	a
127 n-Butylbenzene	91	11.881	11.881	0.000	96	10552	0.4000	0.4030	
128 1,2-Dichlorobenzene	146	11.981	11.977	0.003	96	8534	0.4000	0.4525	
129 1,2-Dibromo-3-Chloropropane	75	12.649	12.656	-0.007	79	684	0.4000	0.3184	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	92	7164	0.4000	0.4996	
131 Hexachlorobutadiene	225	13.405	13.402	0.003	86	2723	0.4000	0.4442	
132 Naphthalene	128	13.559	13.559	0.000	96	20232	0.4000	0.5071	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	95	7797	0.4000	0.5664	
S 142 Total BTEX	1				0			1.93	
S 144 1,3-Dichloropropene, Total	1				0			0.6897	
S 141 1,2-Dichloroethene, Total	1				0			0.7973	
S 143 Xylenes, Total	1				0			0.7647	

QC Flag Legend

Processing Flags
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

8260 CORP mix_00218	Amount Added:	0.40	Units: uL	
GAS CORP mix_00484	Amount Added:	0.40	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:21 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D

Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L

Lims ID: IC 0.4

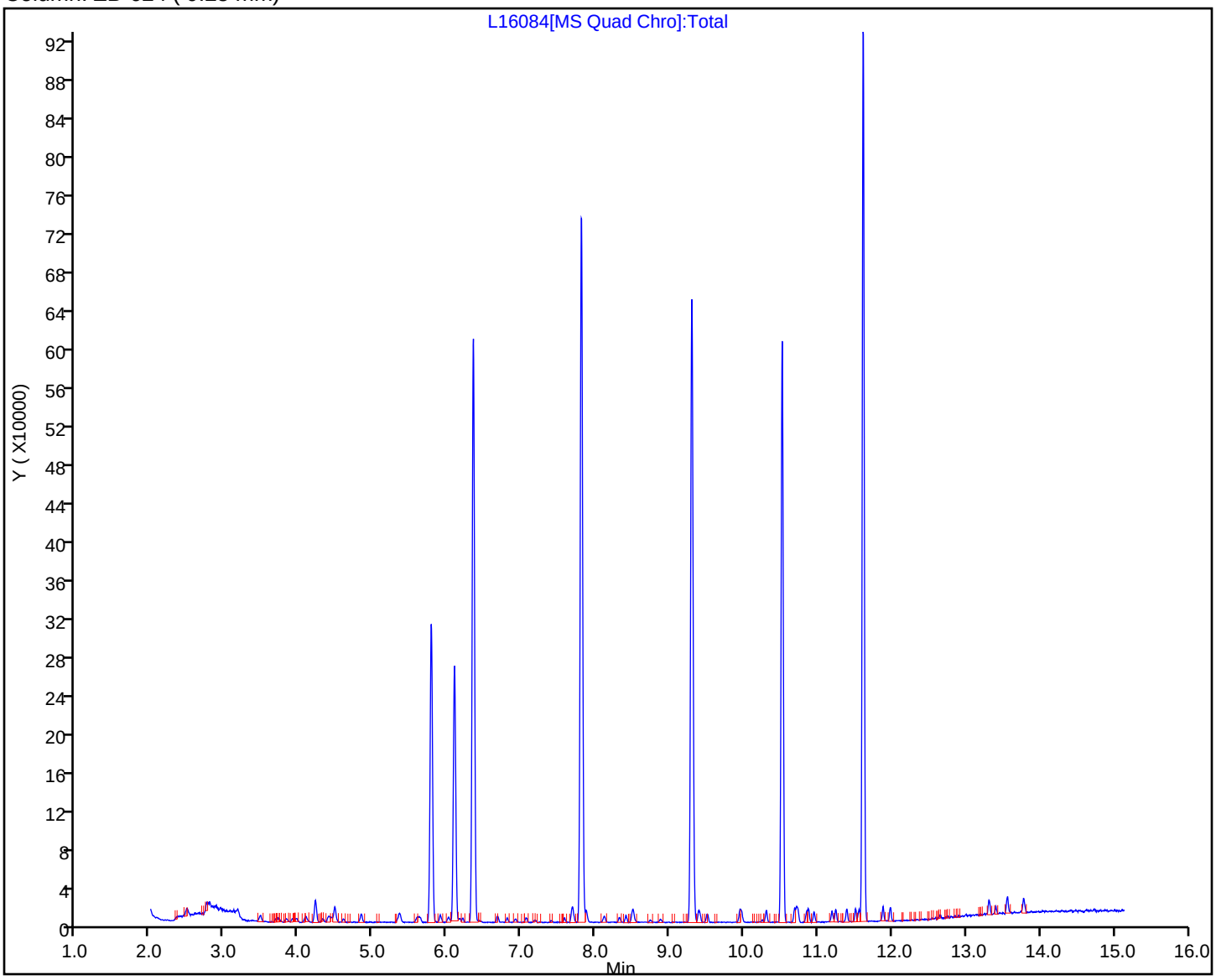
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

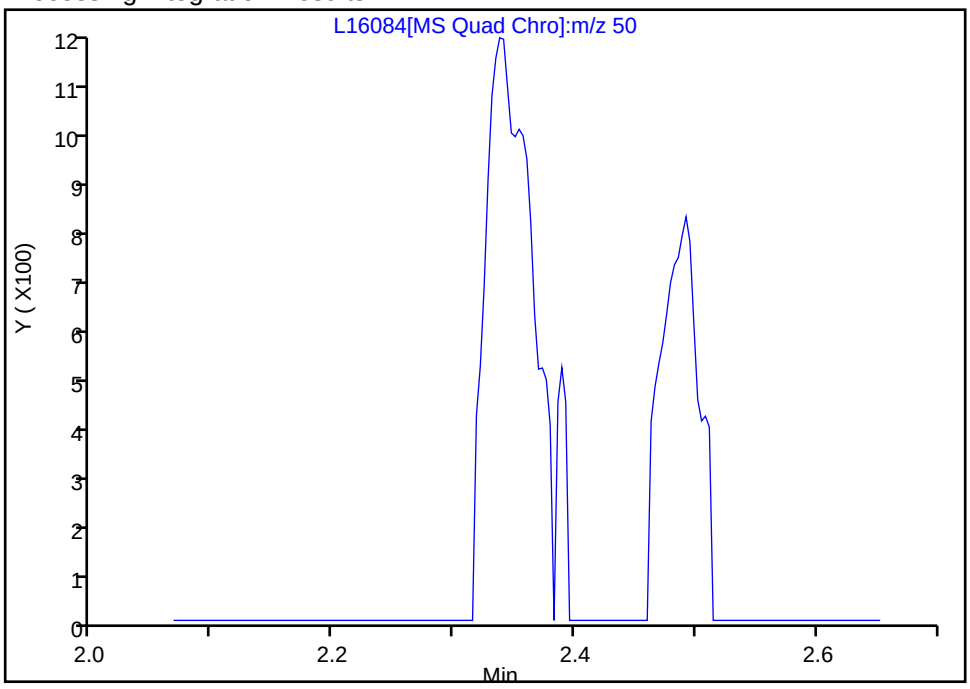
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

13 Chloromethane, CAS: 74-87-3

Signal: 1

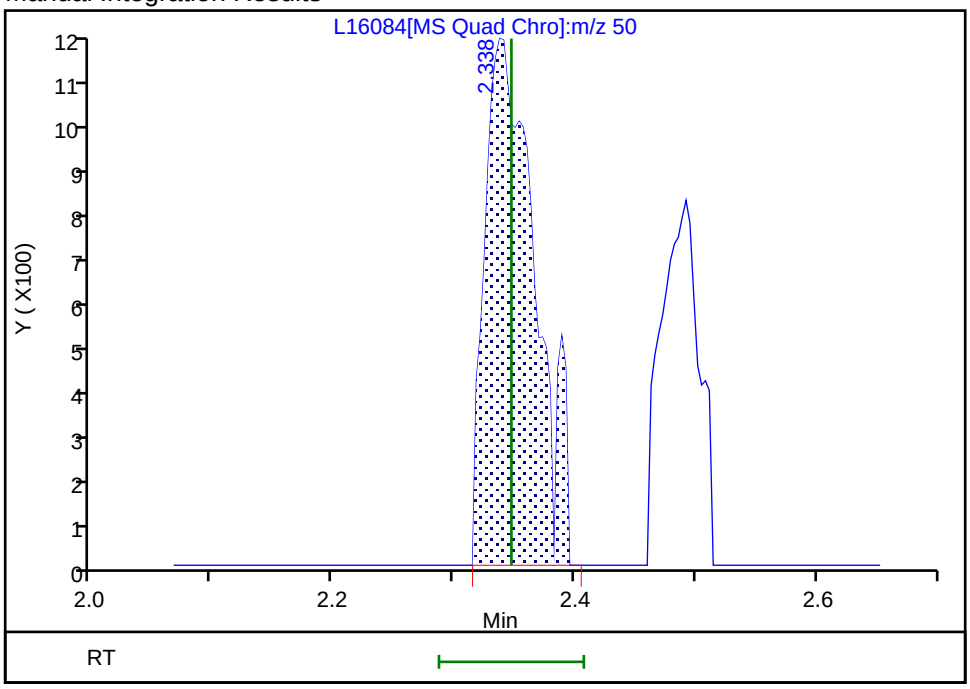
Not Detected
Expected RT: 2.35

Processing Integration Results



Manual Integration Results

RT: 2.34
Area: 3229
Amount: 0.479644
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:36:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

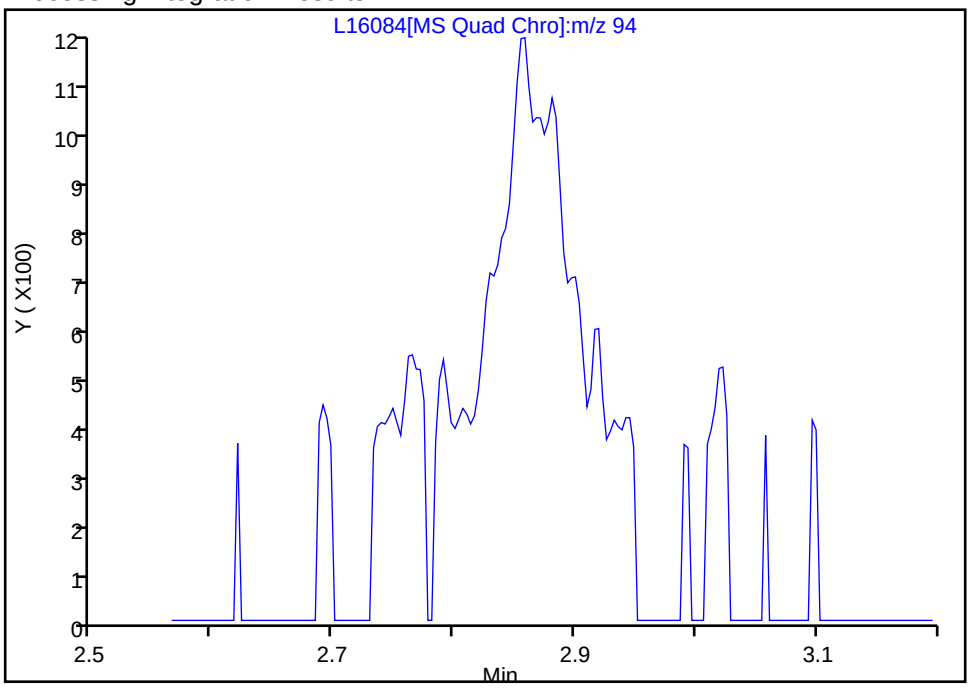
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

18 Bromomethane, CAS: 74-83-9

Signal: 1

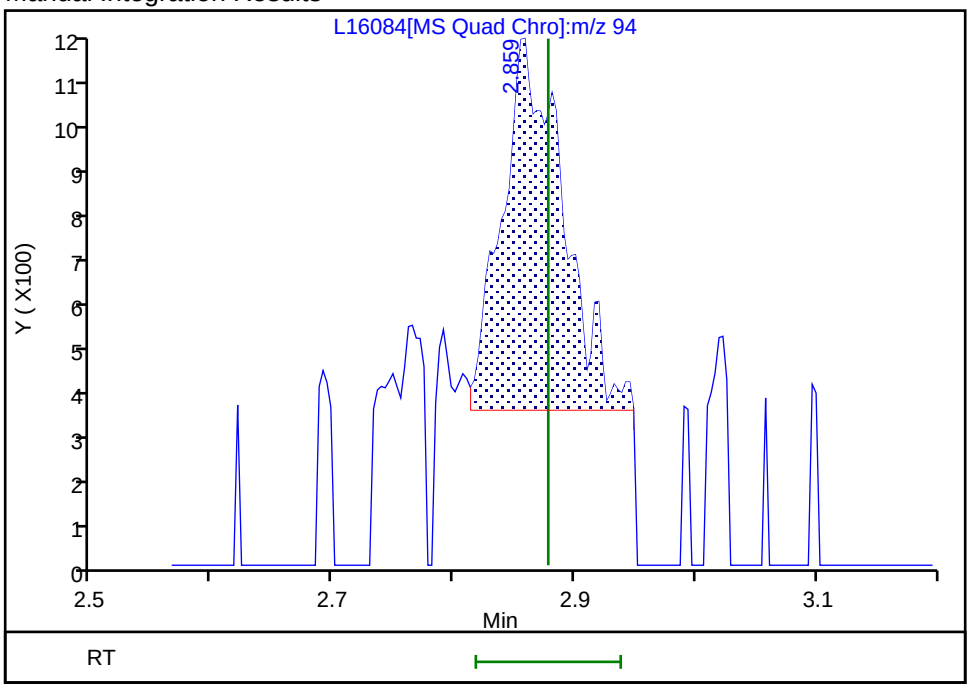
Not Detected
Expected RT: 2.88

Processing Integration Results



Manual Integration Results

RT: 2.86
Area: 2971
Amount: 0.400915
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:00:11
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

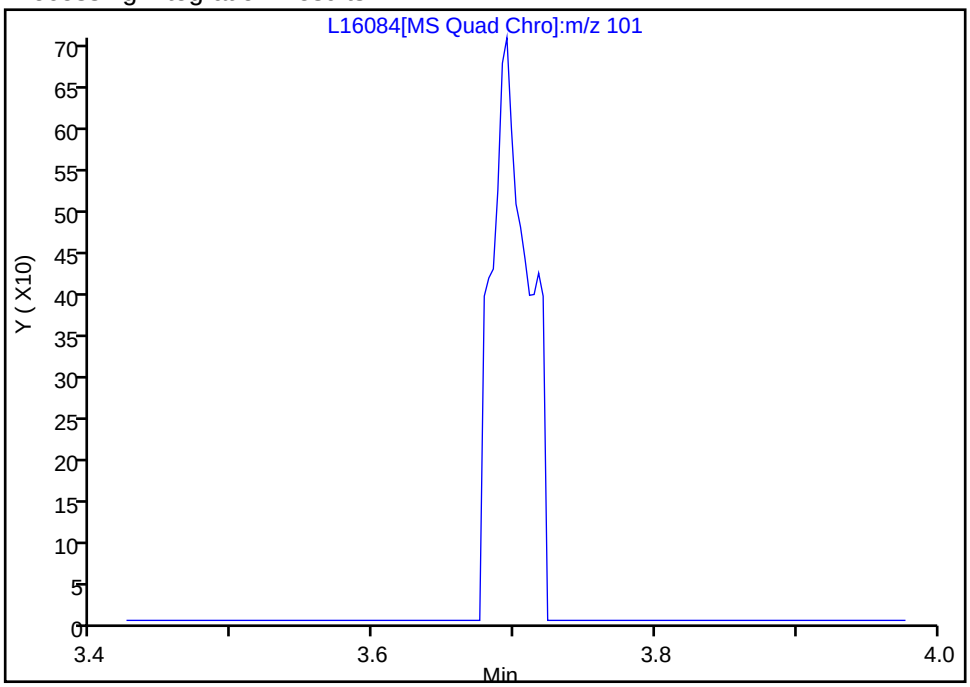
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

29 112TCTFE, CAS: 76-13-1

Signal: 1

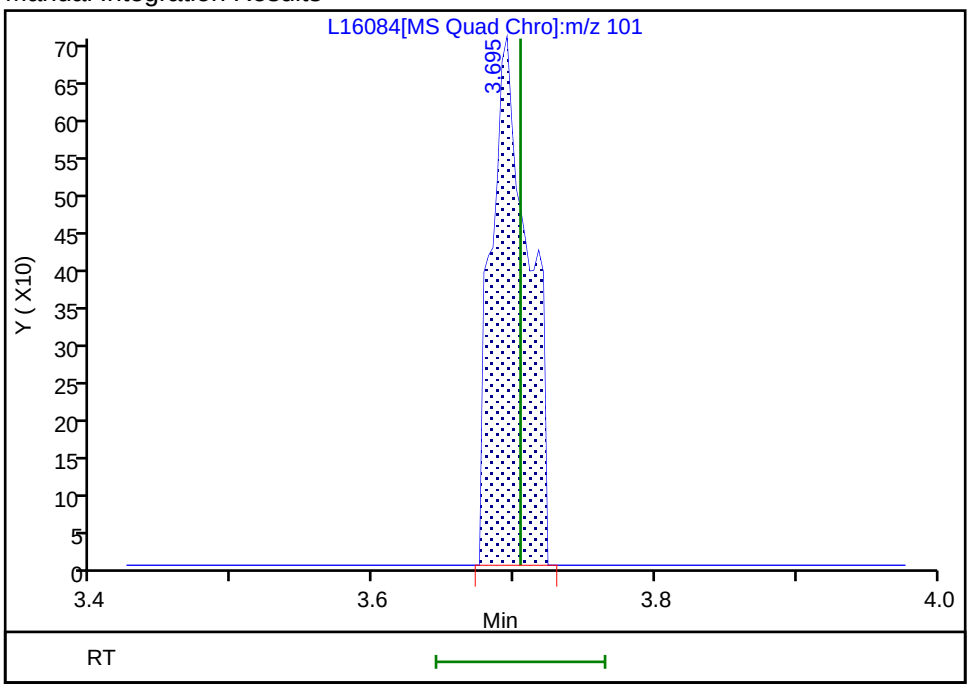
Not Detected
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.69
Area: 1306
Amount: 0.240055
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:00:30
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

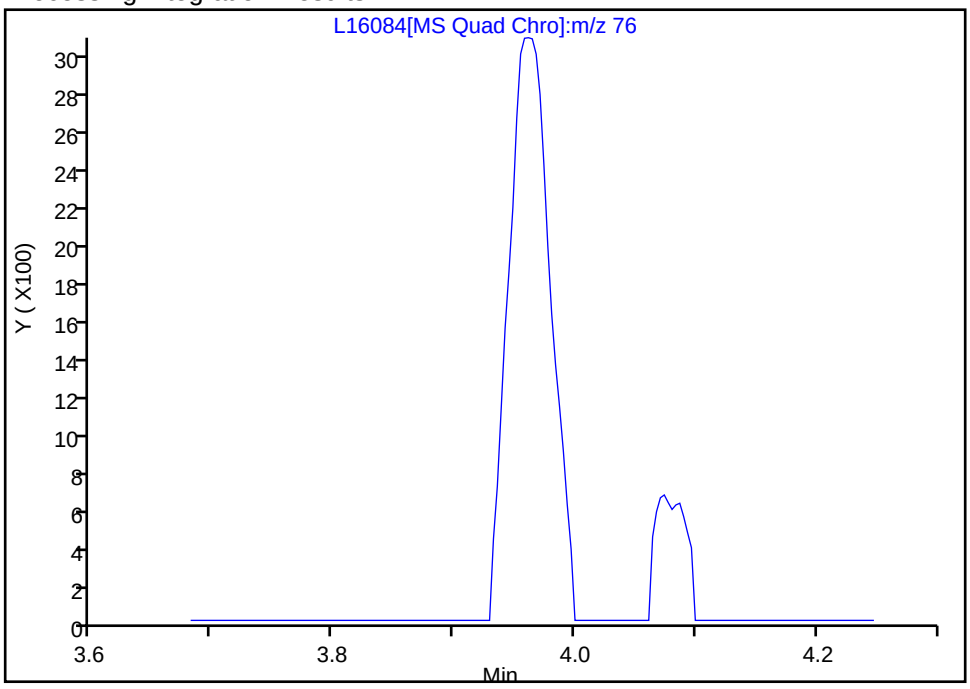
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

35 Carbon disulfide, CAS: 75-15-0

Signal: 1

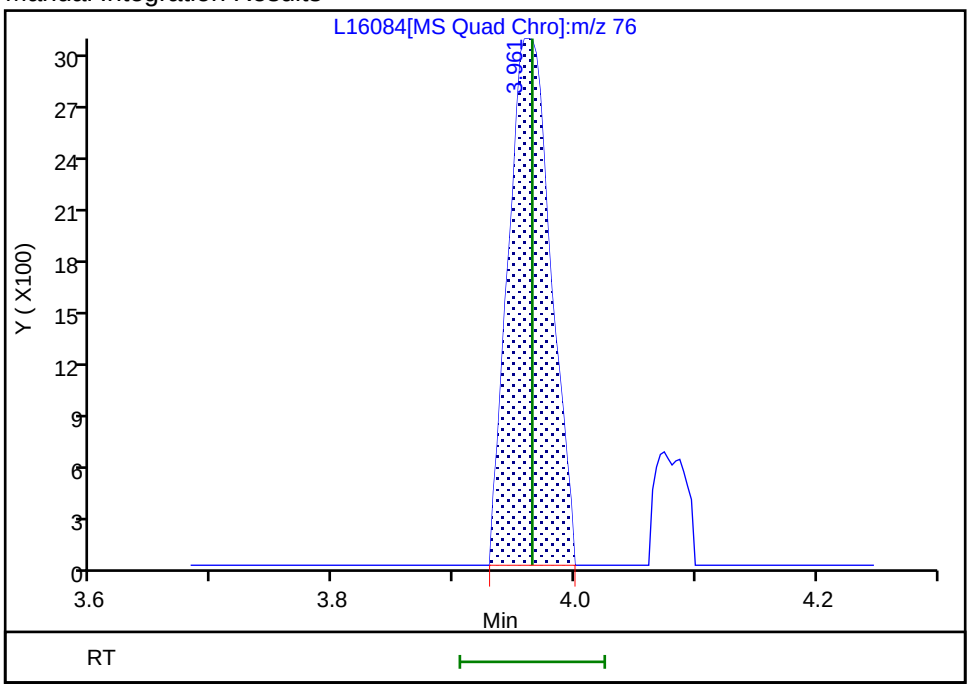
Not Detected
Expected RT: 3.96

Processing Integration Results



Manual Integration Results

RT: 3.96
Area: 7533
Amount: 0.399498
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:36:45
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

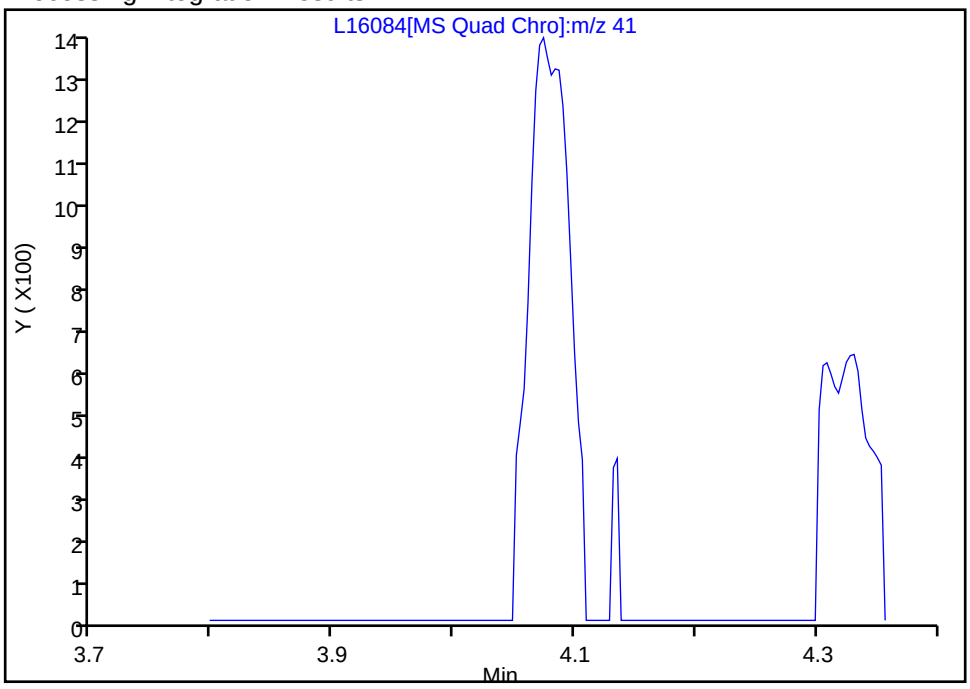
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

37 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

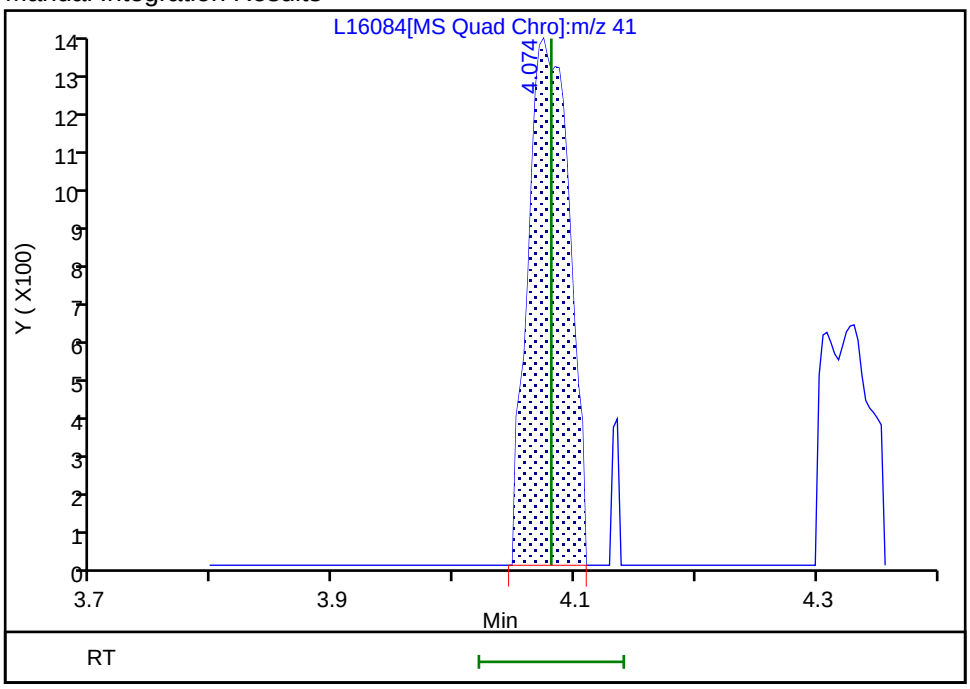
Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.07
Area: 3336
Amount: 0.396987
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:36:48
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

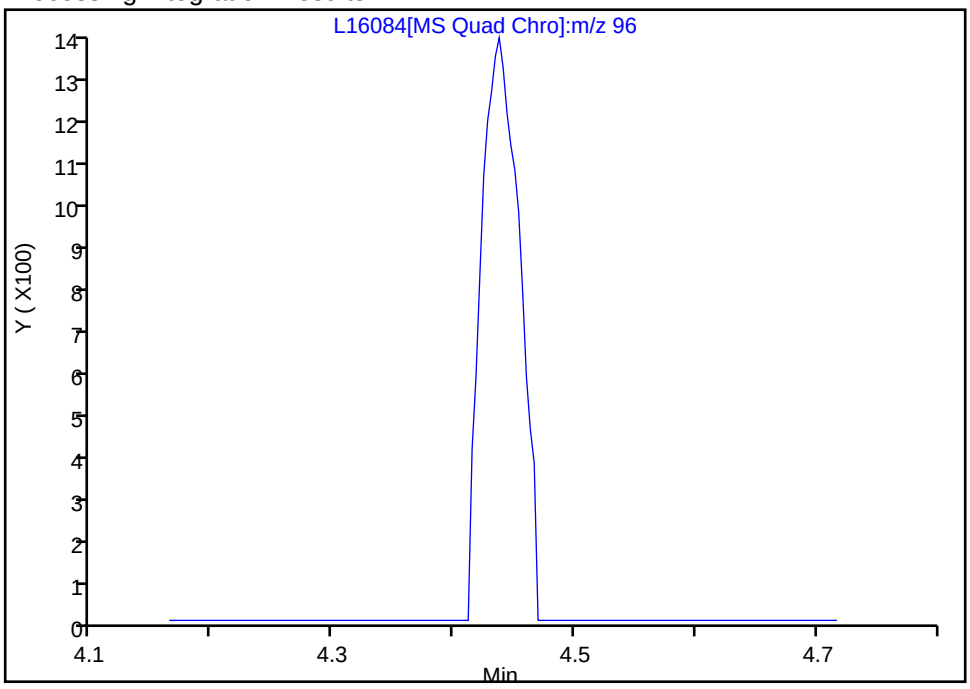
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

42 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

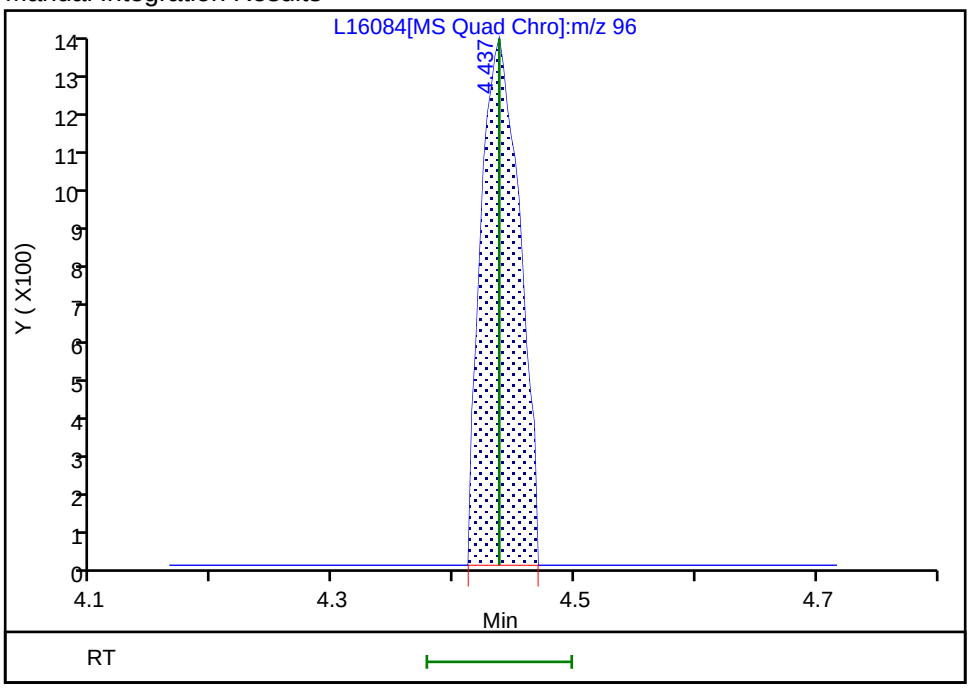
Not Detected
Expected RT: 4.44

Processing Integration Results



Manual Integration Results

RT: 4.44
Area: 3074
Amount: 0.411082
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:36:54
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

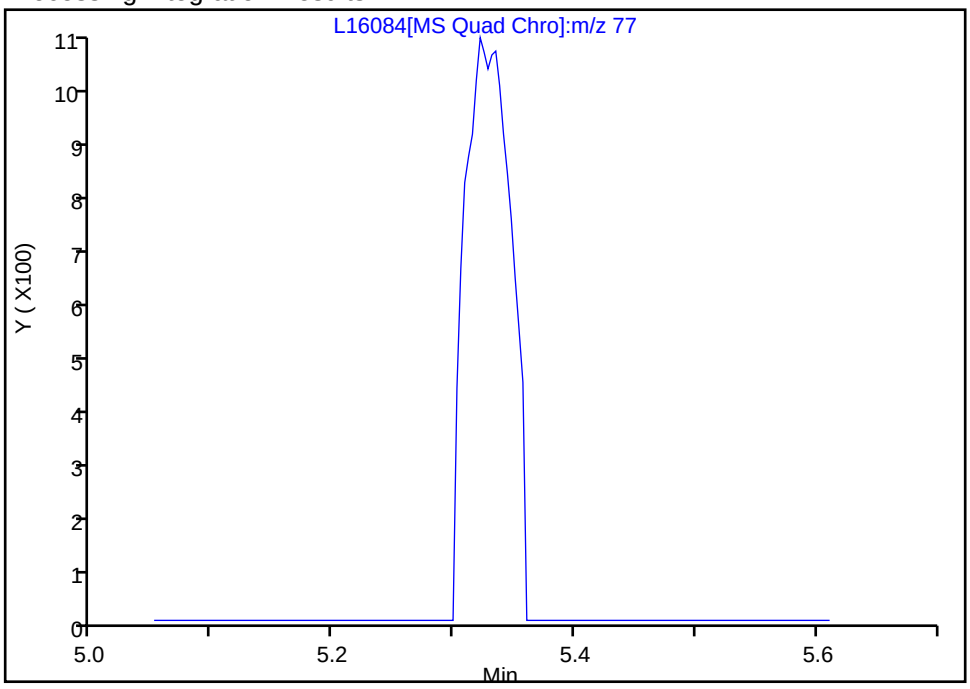
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

56 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

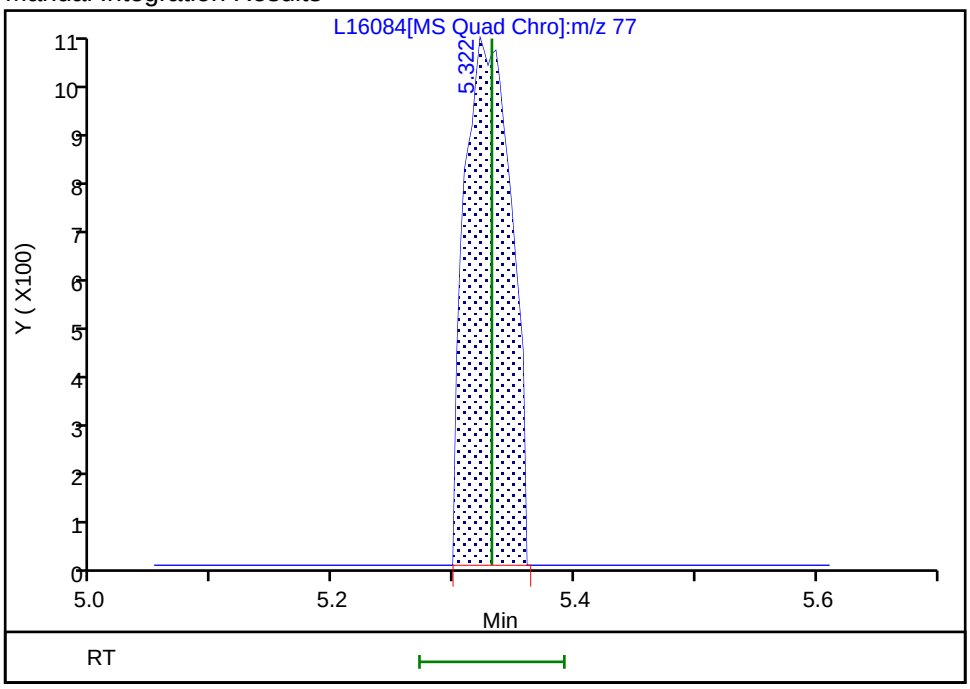
Not Detected
Expected RT: 5.33

Processing Integration Results



Manual Integration Results

RT: 5.32
Area: 2799
Amount: 0.374324
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:37:00
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

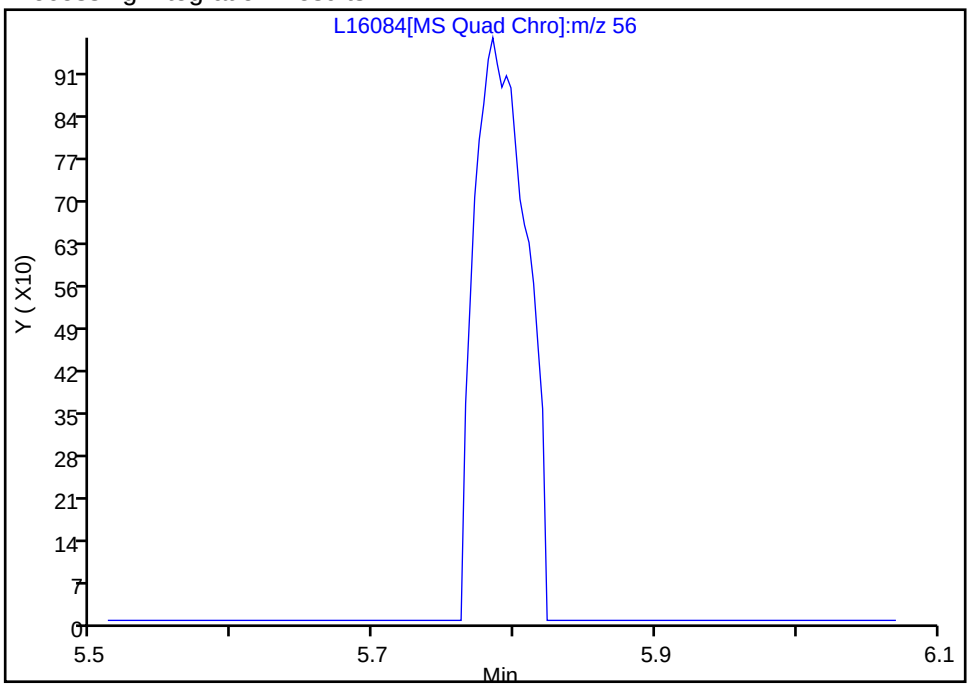
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

65 Cyclohexane, CAS: 110-82-7

Signal: 1

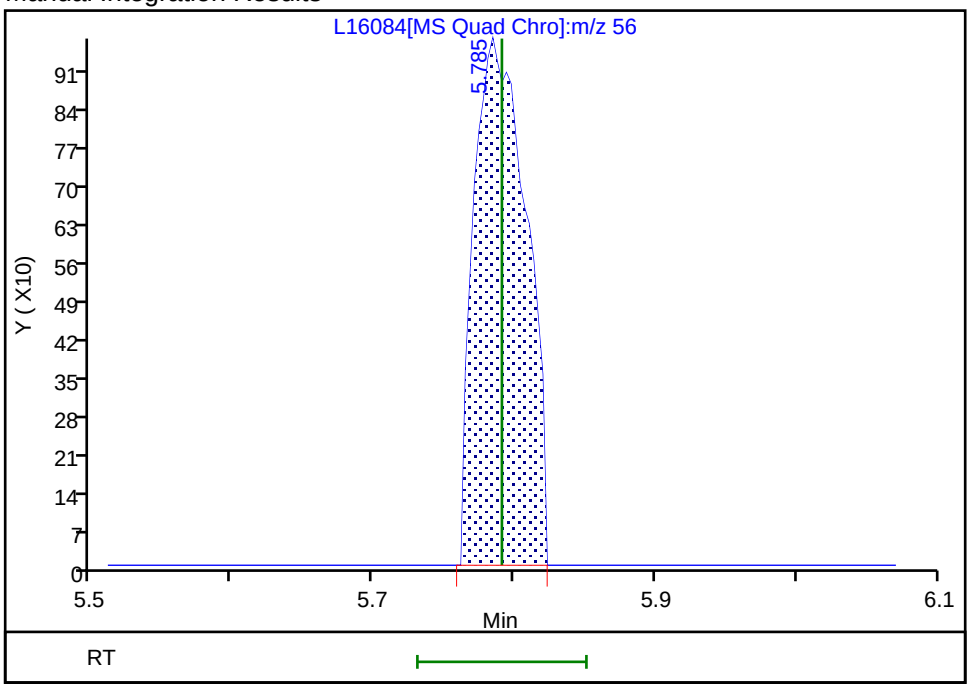
Not Detected
Expected RT: 5.79

Processing Integration Results



Manual Integration Results

RT: 5.78
Area: 2476
Amount: 0.323004
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:37:07
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

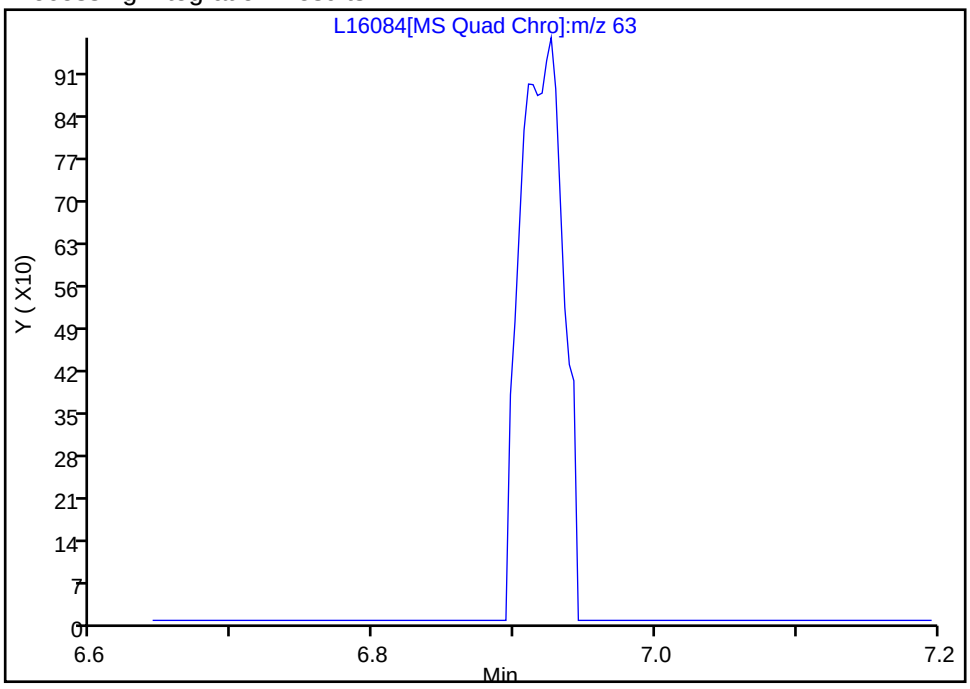
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

77 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

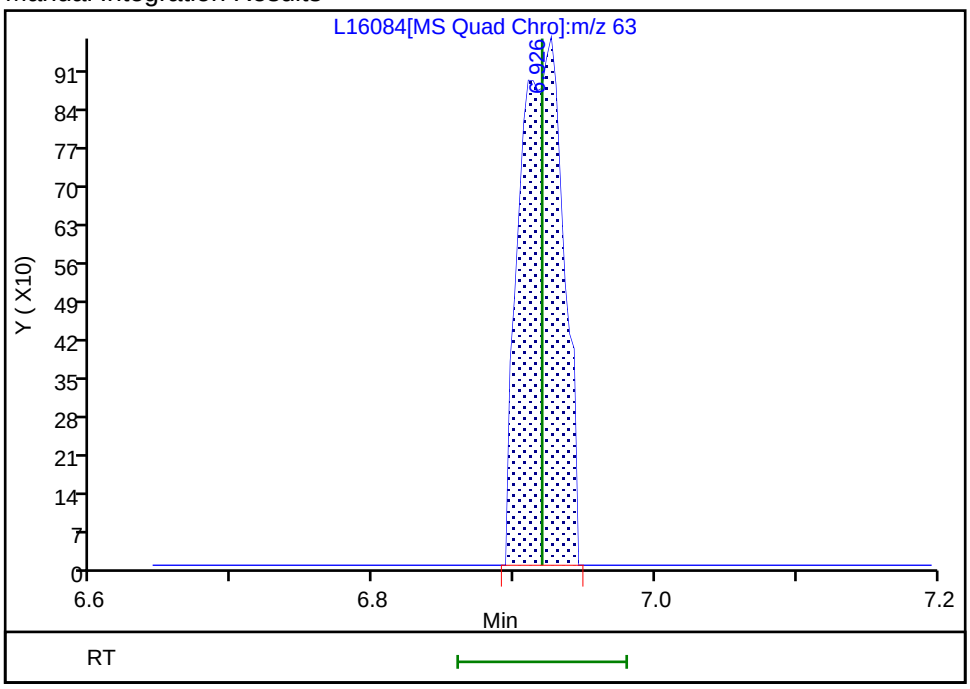
Not Detected
Expected RT: 6.92

Processing Integration Results



Manual Integration Results

RT: 6.93
Area: 2063
Amount: 0.361265
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:37:18
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

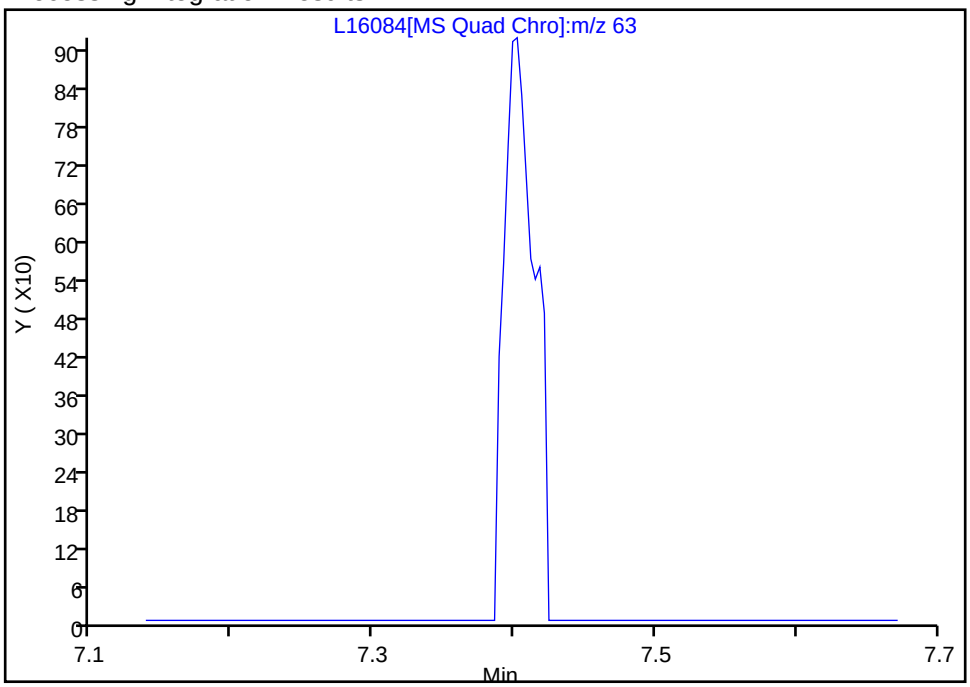
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D				
Injection Date:	08-Dec-2021 16:14:22	Instrument ID:	HP5977L		
Lims ID:	IC 0.4				
Client ID:					
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

84 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

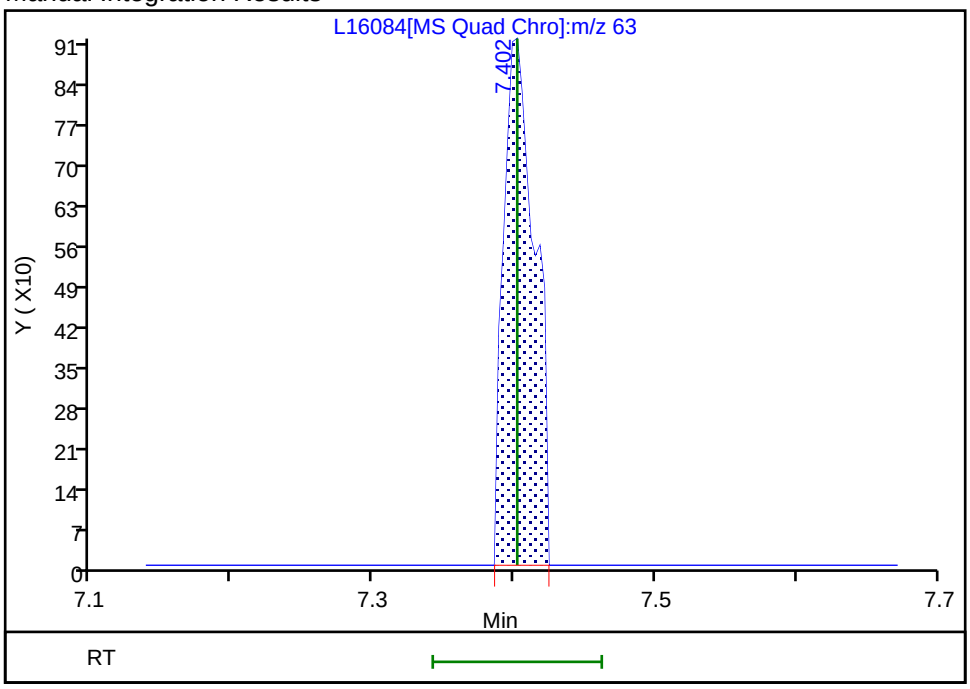
Not Detected
Expected RT: 7.40

Processing Integration Results



Manual Integration Results

RT: 7.40
Area: 1386
Amount: 0.325586
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:37:48
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

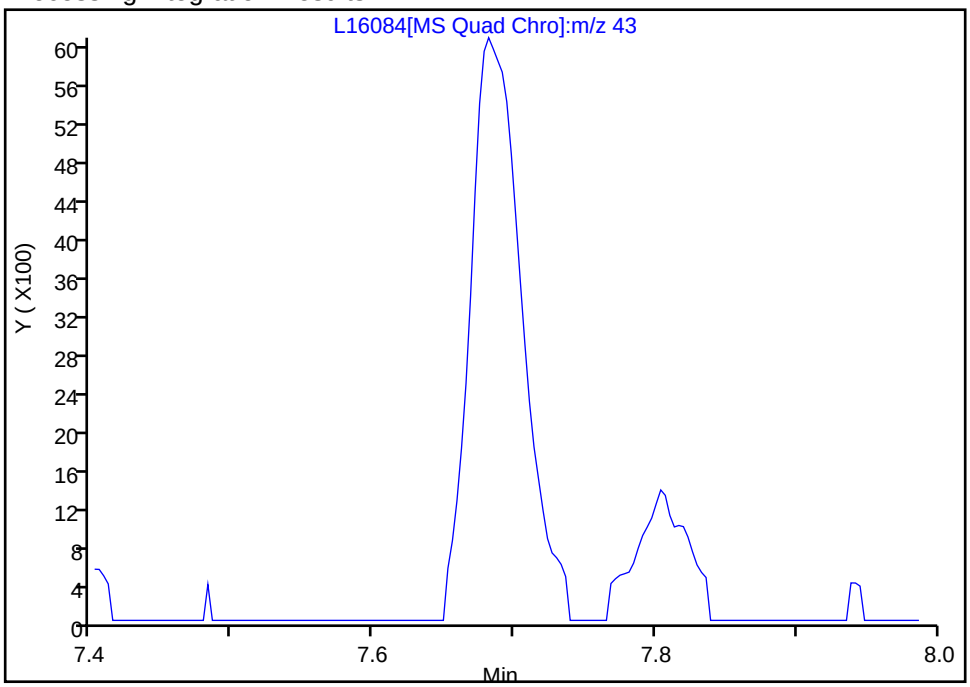
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

87 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

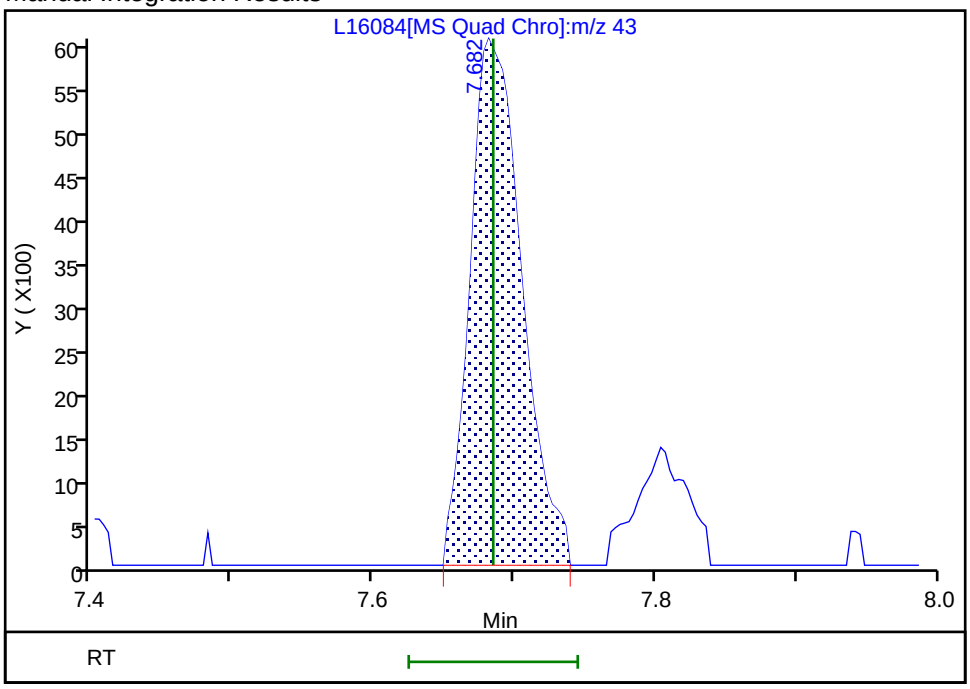
Not Detected
Expected RT: 7.68

Processing Integration Results



Manual Integration Results

RT: 7.68
Area: 15427
Amount: 1.981148
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:37:52
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

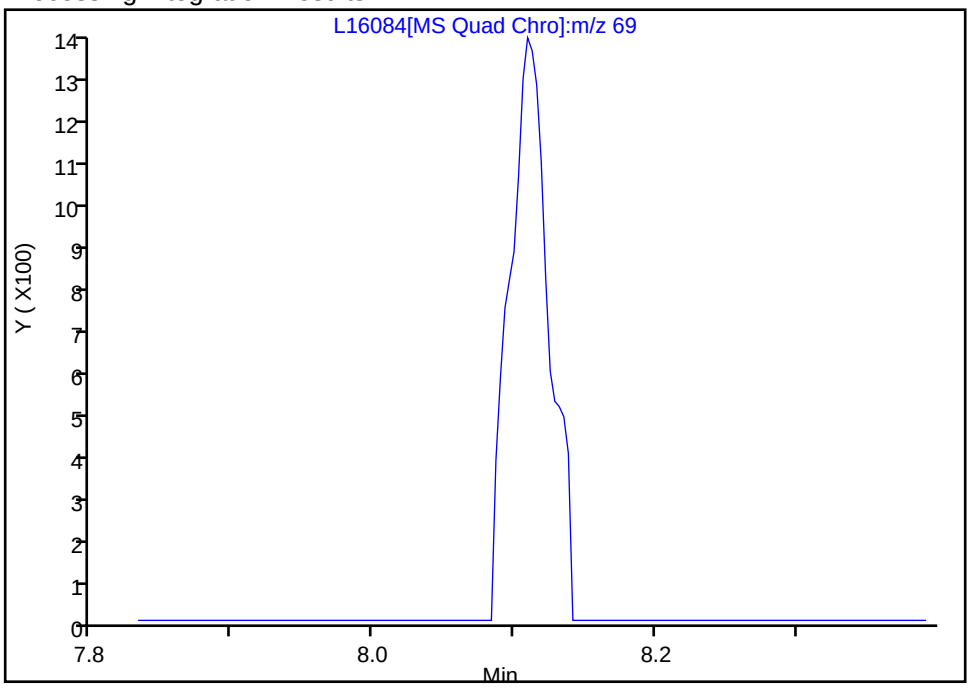
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

90 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

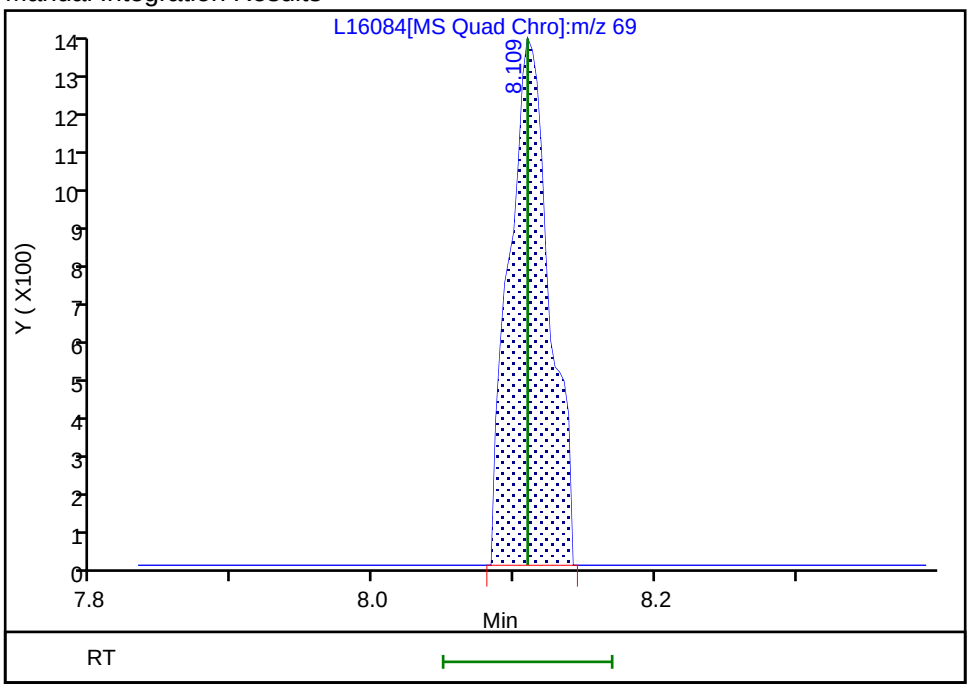
Not Detected
Expected RT: 8.11

Processing Integration Results



Manual Integration Results

RT: 8.11
Area: 2735
Amount: 0.350990
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:37:57
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

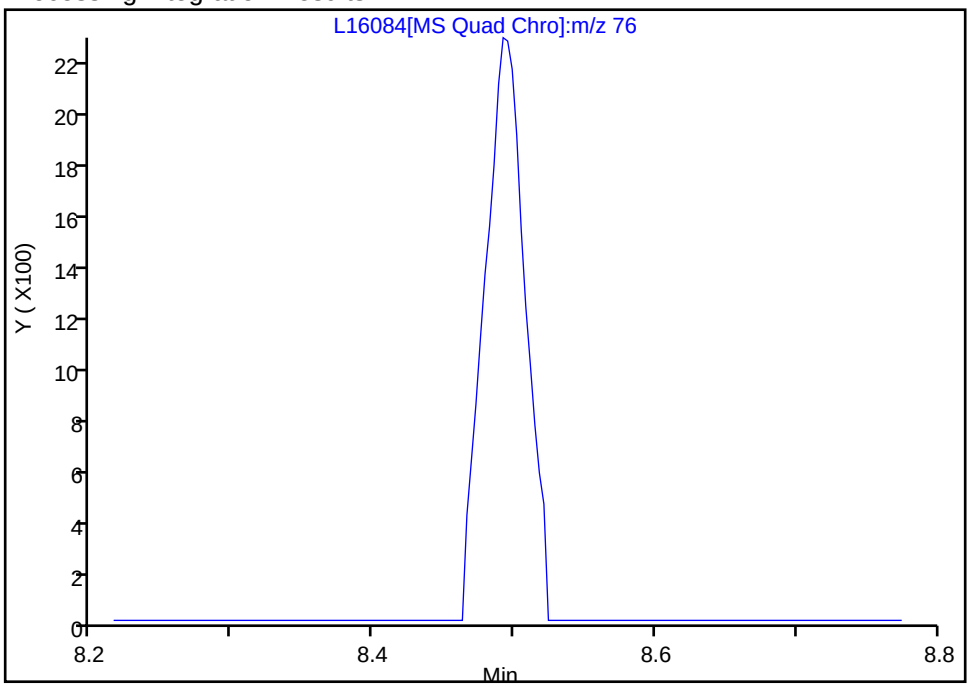
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

95 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

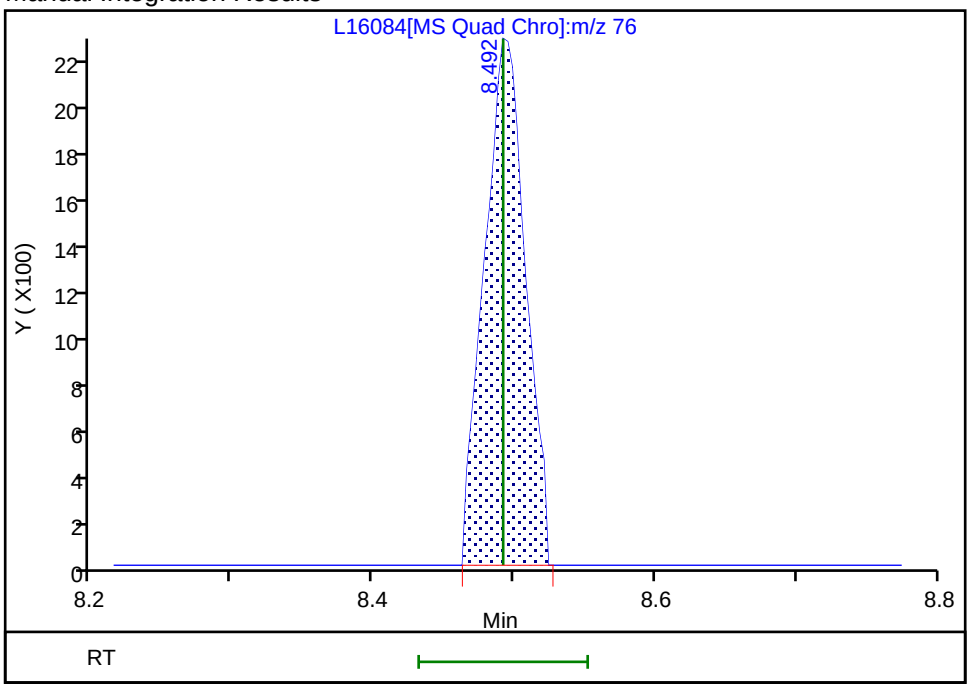
Not Detected
Expected RT: 8.49

Processing Integration Results



Manual Integration Results

RT: 8.49
Area: 4575
Amount: 0.436319
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:38:02
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

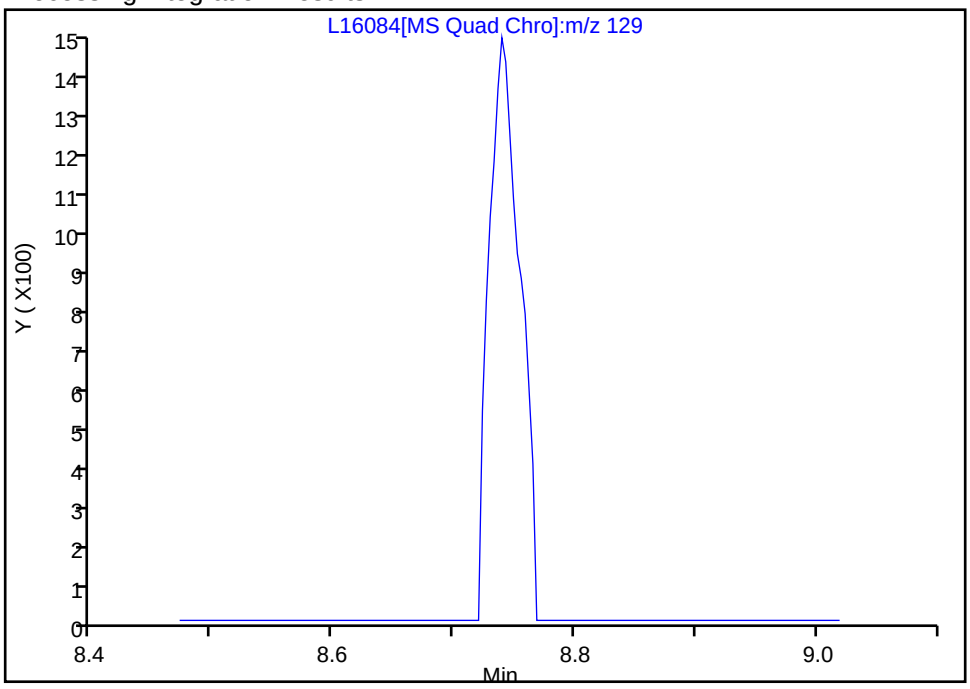
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

98 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

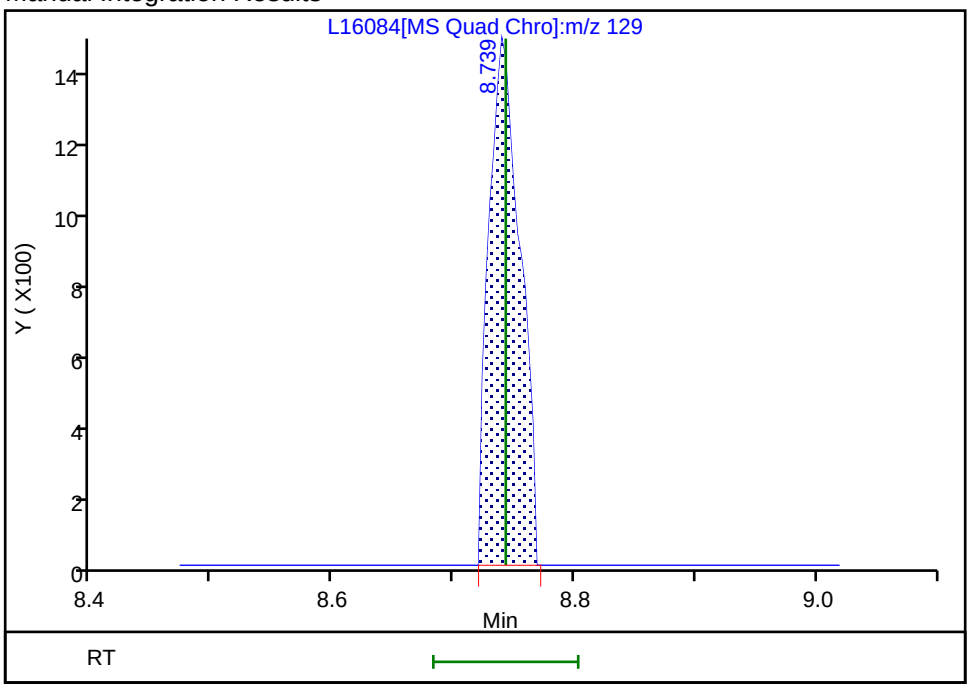
Not Detected
Expected RT: 8.74

Processing Integration Results



Manual Integration Results

RT: 8.74
Area: 2537
Amount: 0.339596
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:38:06
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

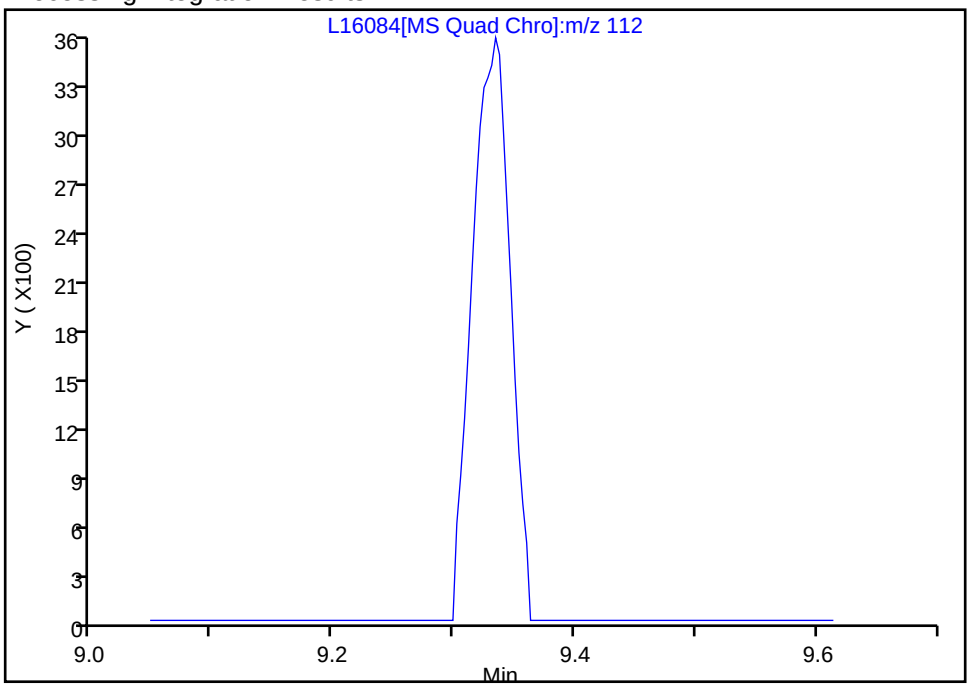
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

103 Chlorobenzene, CAS: 108-90-7

Signal: 1

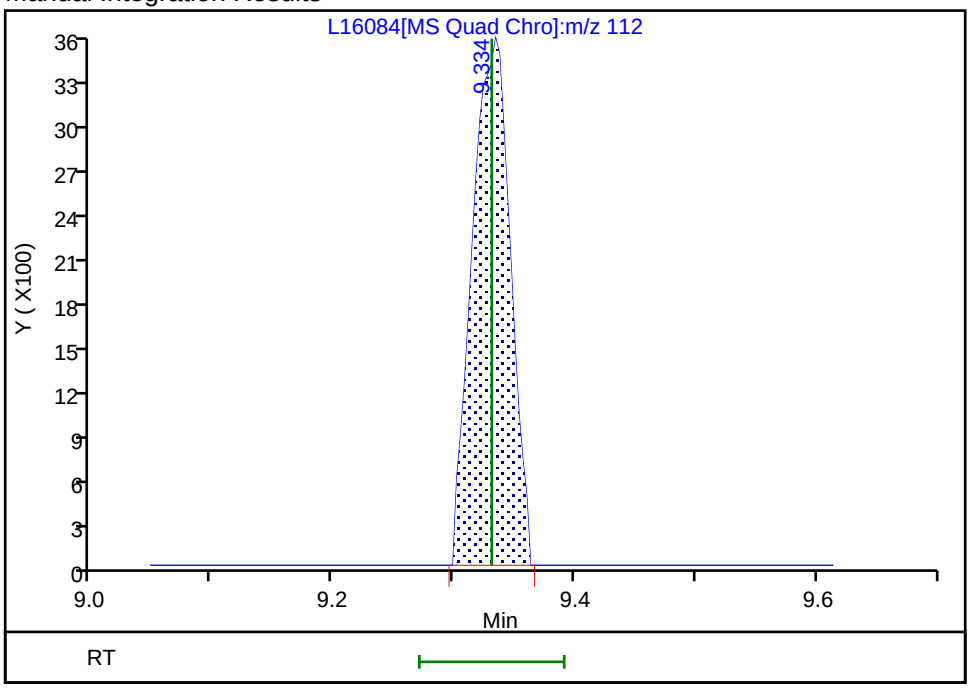
Not Detected
Expected RT: 9.33

Processing Integration Results



Manual Integration Results

RT: 9.33
Area: 7842
Amount: 0.386232
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:38:09
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

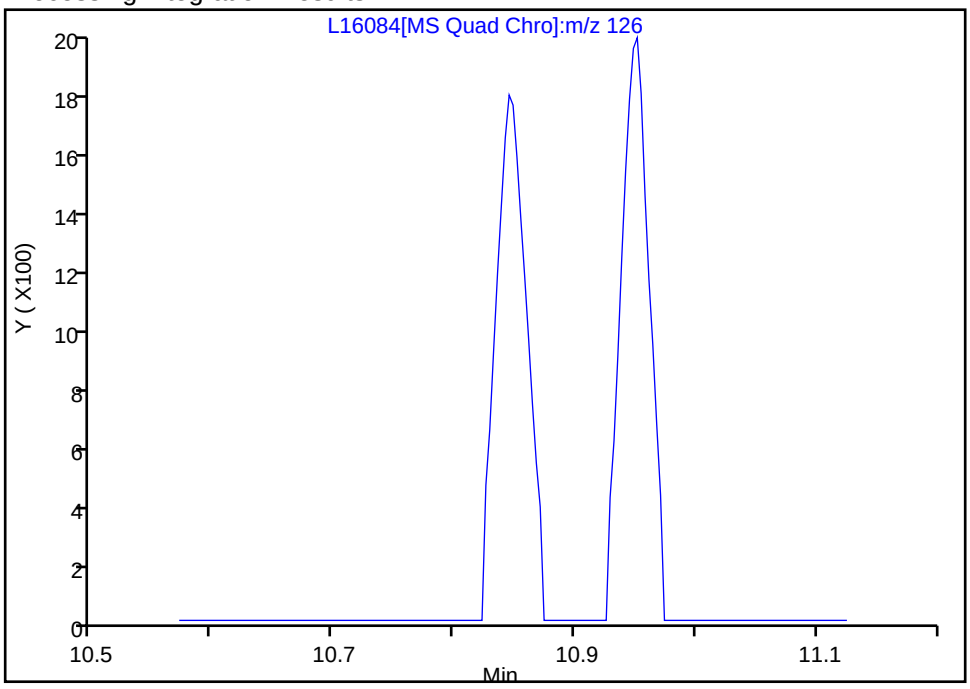
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D				
Injection Date:	08-Dec-2021 16:14:22	Instrument ID:	HP5977L		
Lims ID:	IC 0.4				
Client ID:					
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

117 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

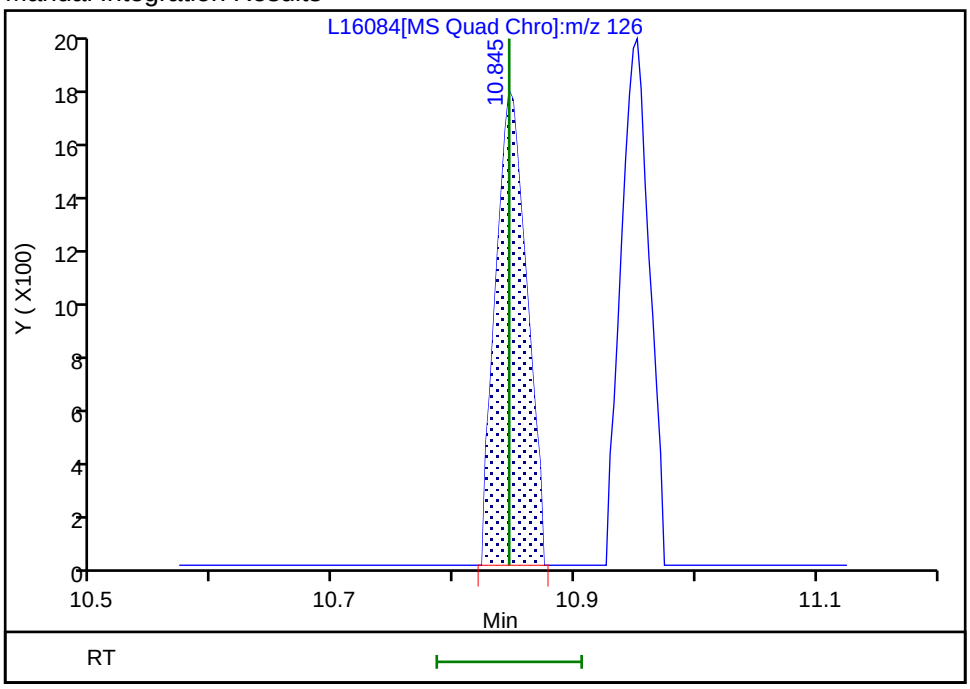
Not Detected
Expected RT: 10.85

Processing Integration Results



Manual Integration Results

RT: 10.85
Area: 3073
Amount: 0.362834
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:38:21
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

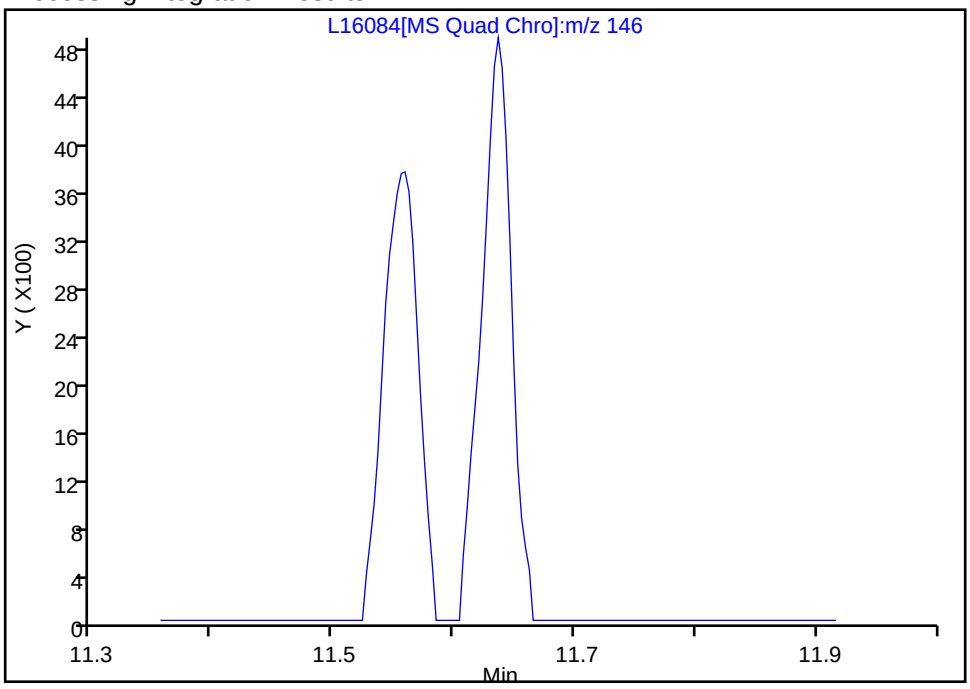
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

126 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

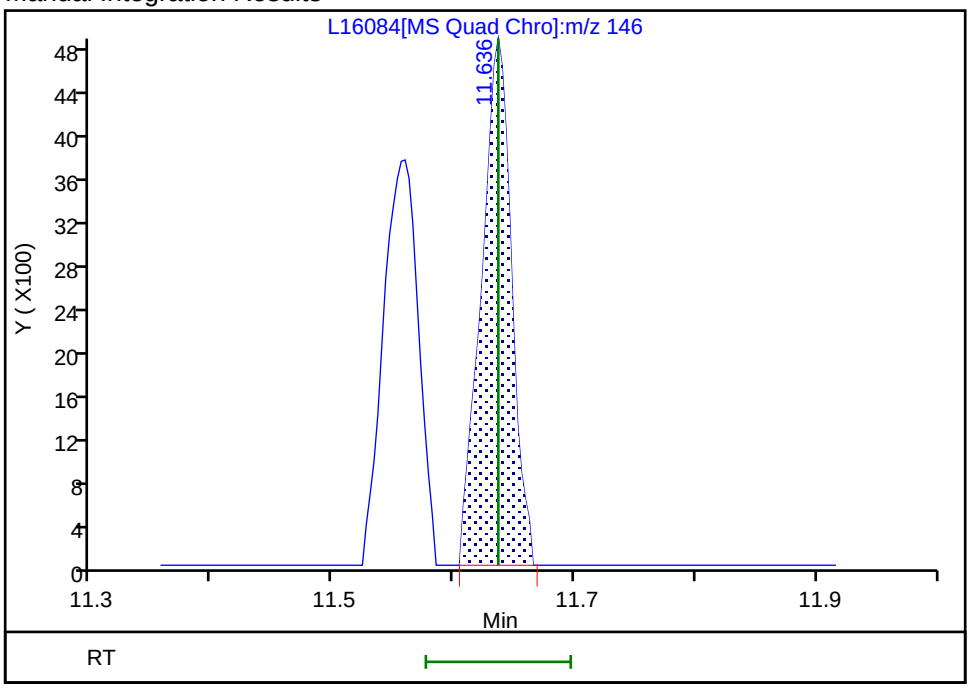
Not Detected
Expected RT: 11.64

Processing Integration Results



Manual Integration Results

RT: 11.64
Area: 8441
Amount: 0.435495
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:38:29
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Dec-2021 16:36:15 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0102927-009
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:27 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 10:40:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	120840	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	560645	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	93	336784	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	94	204953	25.0	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	212627	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	93	687755	25.0	25.4	
$ 7 4-Bromofluorobenzene (Surr)	174	10.521	10.518	0.003	93	255216	25.0	24.7	
10 Dichlorodifluoromethane	85	2.084	2.090	-0.006	94	3842	1.00	1.30	
13 Chloromethane	50	2.347	2.347	0.000	94	7626	1.00	1.11	
14 Vinyl chloride	62	2.473	2.476	-0.003	94	6738	1.00	0.9124	
15 Butadiene	54	2.489	2.492	-0.003	98	5168	1.00	0.7868	
18 Bromomethane	94	2.868	2.878	-0.010	92	6114	1.00	0.8115	M
19 Chloroethane	64	2.955	2.955	0.000	96	6584	1.00	1.11	
21 Trichlorofluoromethane	101	3.180	3.183	-0.003	83	7304	1.00	1.24	M
20 Dichlorofluoromethane	67	3.183	3.187	-0.004	94	12567	1.00	1.04	
26 Ethyl ether	59	3.479	3.479	0.000	85	6730	1.00	1.15	
28 Acrolein	56	3.678	3.678	0.000	97	5731	5.00	5.05	
29 112TCTFE	101	3.707	3.704	0.003	86	4517	1.00	0.8167	a
30 1,1-Dichloroethene	96	3.730	3.730	0.000	93	5659	1.00	0.9734	
31 Acetone	43	3.826	3.826	0.000	100	13283	5.00	5.04	
33 Iodomethane	142	3.910	3.913	-0.003	99	14212	1.00	1.03	
35 Carbon disulfide	76	3.965	3.965	-0.001	99	18010	1.00	0.9395	
37 3-Chloro-1-propene	41	4.080	4.080	0.000	87	9275	1.00	1.09	
38 Methyl acetate	43	4.096	4.100	-0.004	98	14011	2.00	2.12	
39 Methylene Chloride	84	4.222	4.222	0.000	87	22346	1.00	0.9620	
40 2-Methyl-2-propanol	59	4.315	4.318	-0.003	94	9900	10.0	9.19	
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	97	19426	1.00	1.00	
42 trans-1,2-Dichloroethene	96	4.440	4.437	0.003	89	7467	1.00	0.9822	
44 Acrylonitrile	53	4.479	4.479	0.000	96	34377	10.0	9.92	
47 Hexane	57	4.598	4.598	0.000	90	5959	1.00	0.8679	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	68	11890	1.00	1.04	
49 Vinyl acetate	43	4.836	4.836	0.000	97	24546	2.00	1.84	
56 2,2-Dichloropropane	77	5.331	5.331	0.000	88	7107	1.00	0.9349	
57 2-Butanone (MEK)	43	5.360	5.357	0.003	98	20201	5.00	4.89	
58 cis-1,2-Dichloroethene	96	5.354	5.357	-0.003	77	8024	1.00	0.9641	
60 Chlorobromomethane	128	5.591	5.585	0.006	90	5200	1.00	1.08	a
61 Tetrahydrofuran	42	5.601	5.601	0.000	81	5880	2.00	2.14	
62 Chloroform	83	5.630	5.630	0.000	91	13770	1.00	1.00	
64 1,1,1-Trichloroethane	97	5.772	5.772	0.000	97	9665	1.00	0.8909	
65 Cyclohexane	56	5.797	5.791	0.006	88	6726	1.00	0.8631	a
66 Carbon tetrachloride	117	5.900	5.907	-0.007	87	8708	1.00	0.9082	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	91	8103	1.00	0.9729	
69 Isobutyl alcohol	43	6.013	6.010	0.003	94	8856	25.0	20.8	
70 Benzene	78	6.109	6.113	-0.003	94	26875	1.00	1.02	a
72 1,2-Dichloroethane	62	6.164	6.167	-0.003	96	10610	1.00	1.07	
73 n-Heptane	43	6.206	6.209	-0.003	80	5923	1.00	0.8940	
75 Trichloroethene	95	6.675	6.678	-0.003	93	7052	1.00	0.9542	
76 Methylcyclohexane	83	6.810	6.807	0.003	89	8200	1.00	0.8390	
77 1,2-Dichloropropane	63	6.923	6.920	0.003	87	5699	1.00	0.9817	
81 1,4-Dioxane	88	7.035	7.029	0.006	44	1049	20.0	13.0	
82 Dibromomethane	93	7.061	7.064	-0.003	89	5363	1.00	1.02	
83 Dichlorobromomethane	83	7.180	7.180	0.000	97	9389	1.00	1.02	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	91	3692	1.00	0.8531	
85 cis-1,3-Dichloropropene	75	7.575	7.579	-0.004	94	9973	1.00	0.9865	
87 4-Methyl-2-pentanone (MIBK)	43	7.688	7.685	0.003	95	37031	5.00	4.55	
88 Toluene	92	7.878	7.875	0.003	98	18484	1.00	1.06	
90 Ethyl methacrylate	69	8.112	8.109	0.003	76	6656	1.00	0.8176	
91 trans-1,3-Dichloropropene	75	8.122	8.119	0.003	96	9062	1.00	0.9516	
93 1,1,2-Trichloroethane	83	8.325	8.321	0.004	89	5961	1.00	1.11	
94 Tetrachloroethene	166	8.408	8.411	-0.003	95	8536	1.00	0.9784	
95 1,3-Dichloropropane	76	8.489	8.492	-0.004	94	11097	1.00	1.01	
96 2-Hexanone	43	8.508	8.505	0.003	92	24037	5.00	4.32	
98 Chlorodibromomethane	129	8.746	8.743	0.003	88	7223	1.00	0.9254	a
101 Ethylene Dibromide	107	8.871	8.875	-0.003	95	7754	1.00	0.9870	
103 Chlorobenzene	112	9.328	9.331	-0.003	97	22544	1.00	1.06	
104 Ethylbenzene	91	9.392	9.392	0.000	97	32169	1.00	1.00	
105 1,1,1,2-Tetrachloroethane	131	9.415	9.411	0.004	90	7476	1.00	0.9454	
106 m-Xylene & p-Xylene	106	9.508	9.508	0.000	95	13422	1.00	1.02	
107 o-Xylene	106	9.948	9.945	0.003	95	12582	1.00	0.9525	
109 Styrene	104	9.971	9.971	0.000	92	19367	1.00	0.9080	
110 Bromoform	173	10.251	10.251	0.000	91	5195	1.00	0.8756	
111 Isopropylbenzene	105	10.302	10.302	0.000	95	32065	1.00	0.9551	
112 1,1,2,2-Tetrachloroethane	83	10.681	10.682	-0.001	94	10096	1.00	0.9568	
113 Bromobenzene	156	10.688	10.688	0.000	84	10322	1.00	1.00	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	37334	1.00	1.00	
115 trans-1,4-Dichloro-2-butene	53	10.726	10.727	-0.001	71	2398	1.00	0.8958	
116 1,2,3-Trichloropropane	110	10.733	10.736	-0.003	85	4033	1.00	1.03	
117 2-Chlorotoluene	126	10.849	10.846	0.003	97	8571	1.00	0.9667	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	96	28728	1.00	0.99	
119 4-Chlorotoluene	91	10.948	10.948	0.000	96	23584	1.00	1.00	
120 tert-Butylbenzene	134	11.189	11.190	-0.001	90	6752	1.00	0.9855	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	28463	1.00	0.9592	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.392	11.389	0.003	93	32711	1.00	0.9262	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	96	30829	1.00	0.9412	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	97	19760	1.00	1.01	
126 1,4-Dichlorobenzene	146	11.636	11.636	0.000	60	21007	1.00	1.04	
127 n-Butylbenzene	91	11.881	11.881	0.000	96	25749	1.00	0.9394	
128 1,2-Dichlorobenzene	146	11.980	11.977	0.003	97	20579	1.00	1.04	
129 1,2-Dibromo-3-Chloropropane	75	12.659	12.656	0.003	83	2067	1.00	0.9193	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	93	14983	1.00	1.00	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	79	5094	1.00	0.7938	
132 Naphthalene	128	13.559	13.559	0.000	97	40677	1.00	0.9739	
133 1,2,3-Trichlorobenzene	180	13.775	13.778	-0.003	93	14431	1.00	1.00	
S 142 Total BTEX	1				0			5.06	
S 144 1,3-Dichloropropene, Total	1				0			1.94	
S 141 1,2-Dichloroethene, Total	1				0			1.95	
S 143 Xylenes, Total	1				0			1.97	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00218	Amount Added:	1.00	Units: uL	
GAS CORP mix_00484	Amount Added:	1.00	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:27 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D

Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L

Lims ID: IC

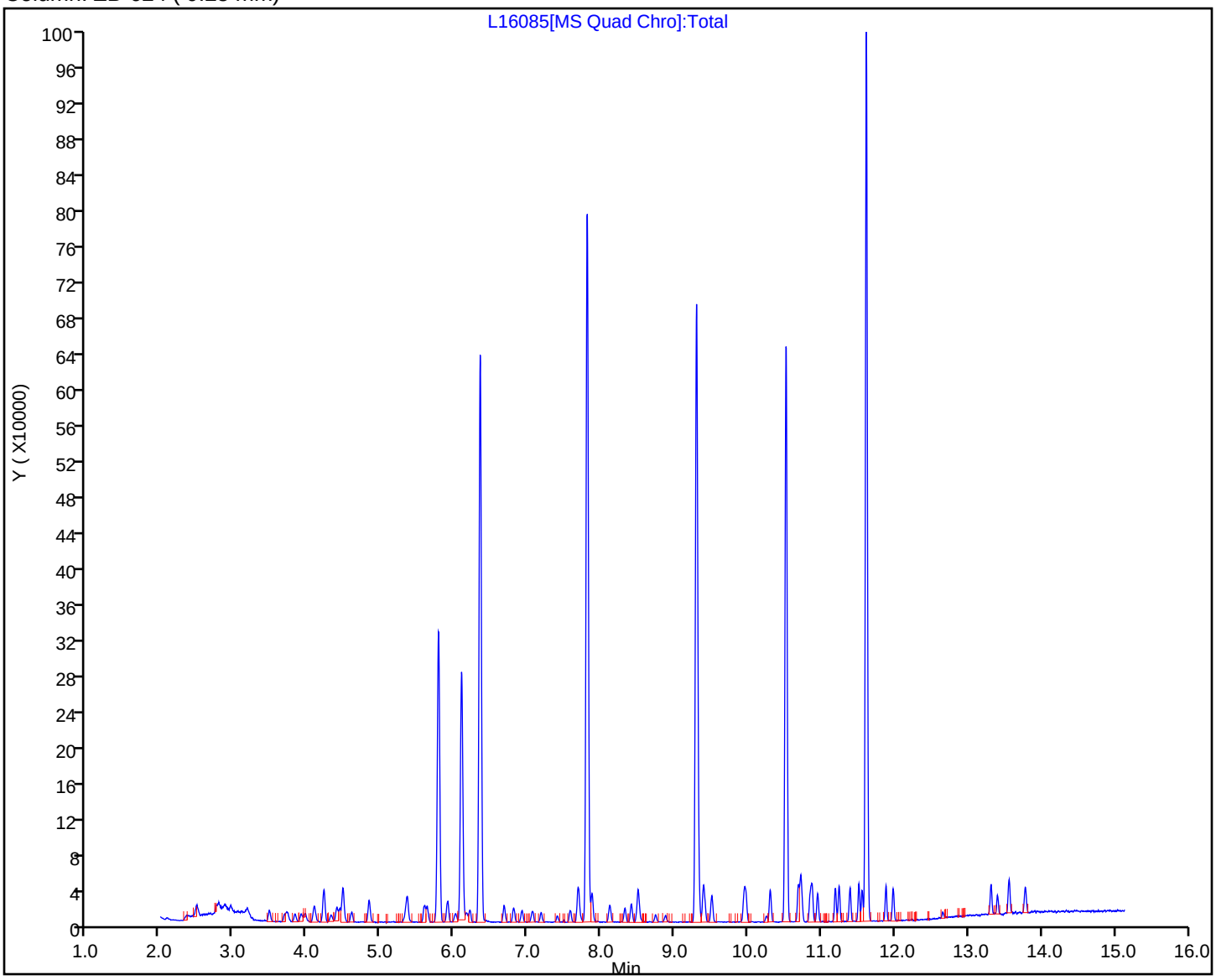
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

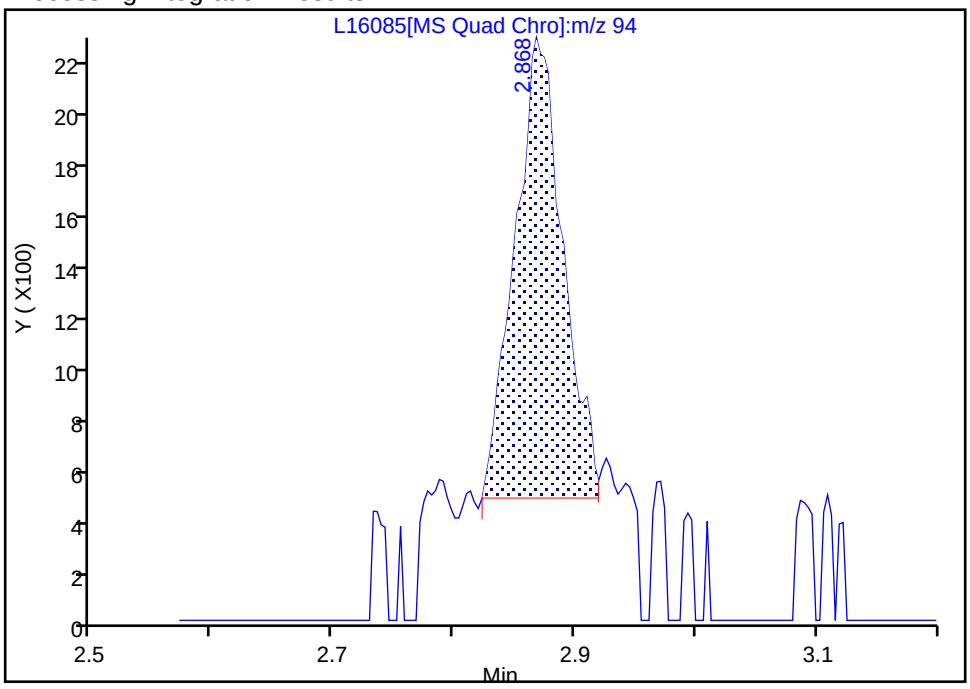
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

18 Bromomethane, CAS: 74-83-9

Signal: 1

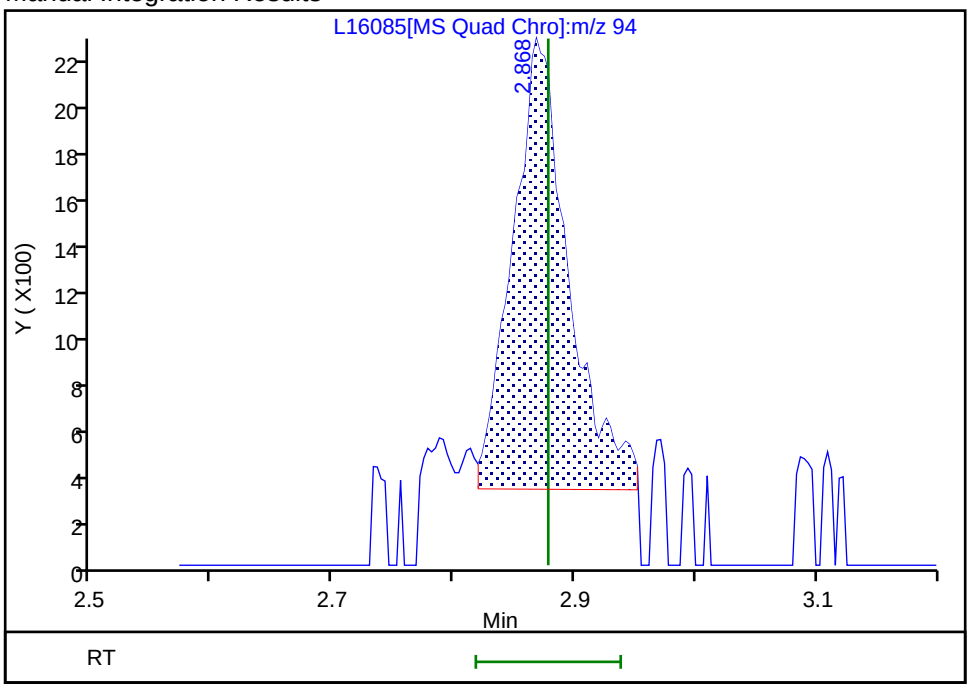
Processing Integration Results

RT: 2.87
Area: 4835
Amount: 0.909792
Amount Units: ug/L



Manual Integration Results

RT: 2.87
Area: 6114
Amount: 0.811548
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:01:55
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

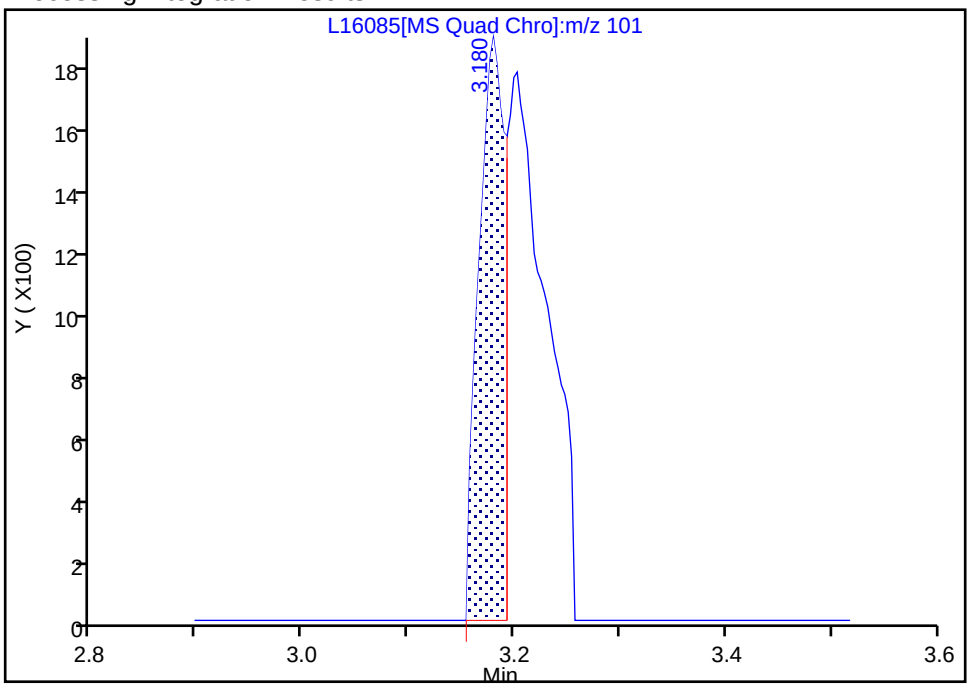
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

21 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

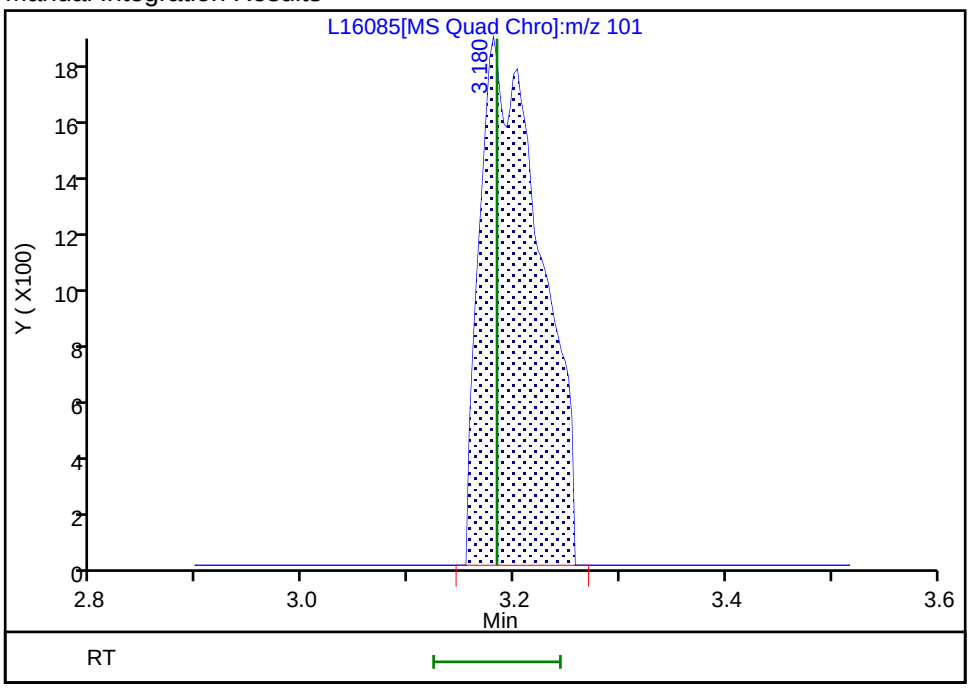
Processing Integration Results

RT: 3.18
Area: 3157
Amount: 0.312325
Amount Units: ug/L



Manual Integration Results

RT: 3.18
Area: 7304
Amount: 1.239184
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:02:05
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

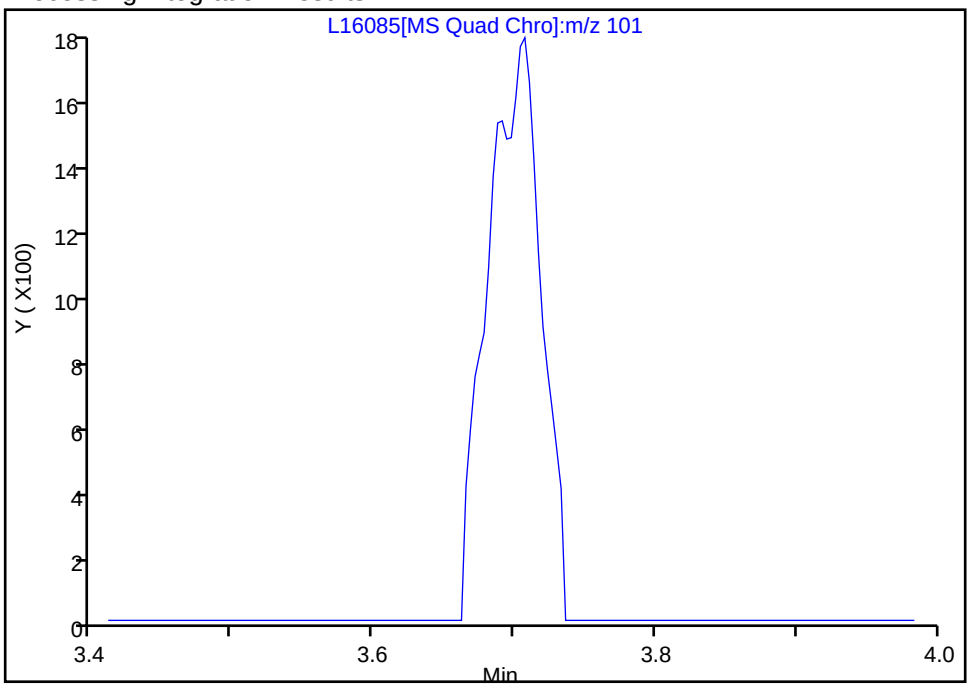
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

29 112TCTFE, CAS: 76-13-1

Signal: 1

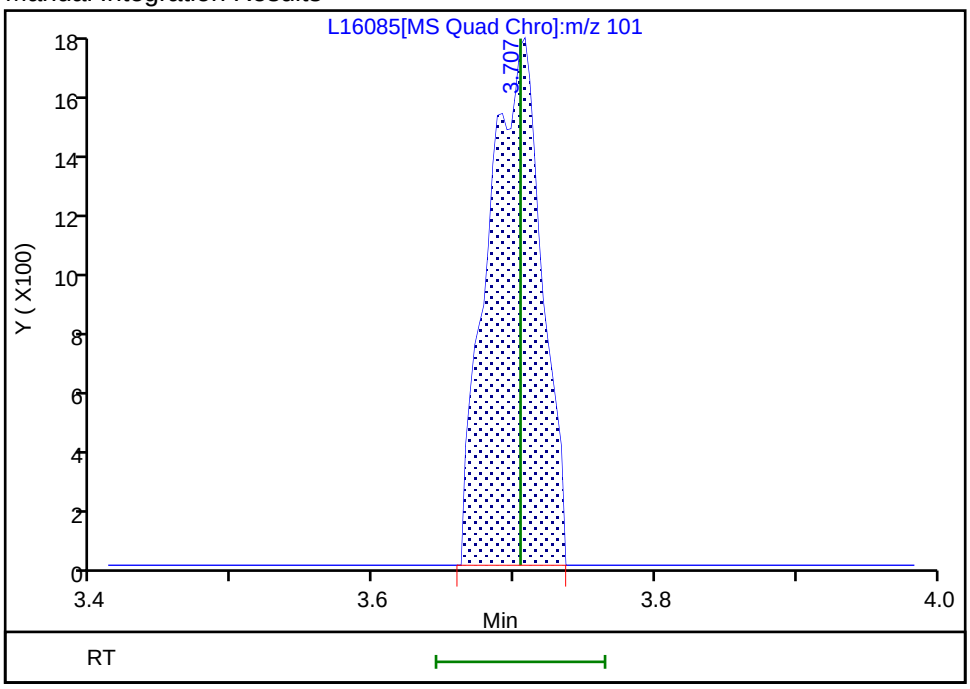
Not Detected
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.71
Area: 4517
Amount: 0.816691
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:39:54
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

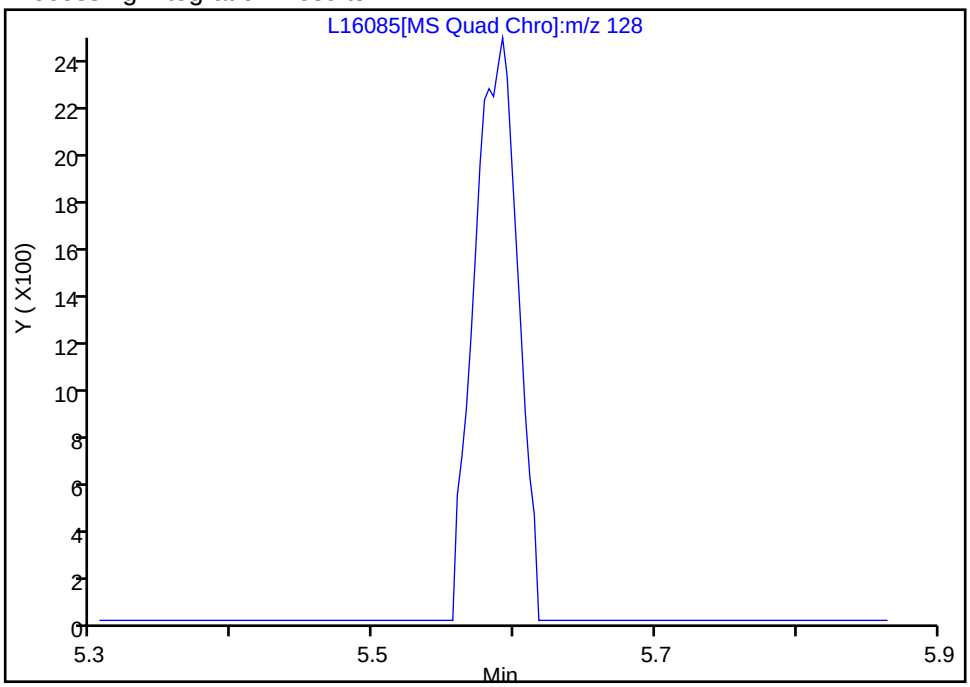
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

60 Chlorobromomethane, CAS: 74-97-5

Signal: 1

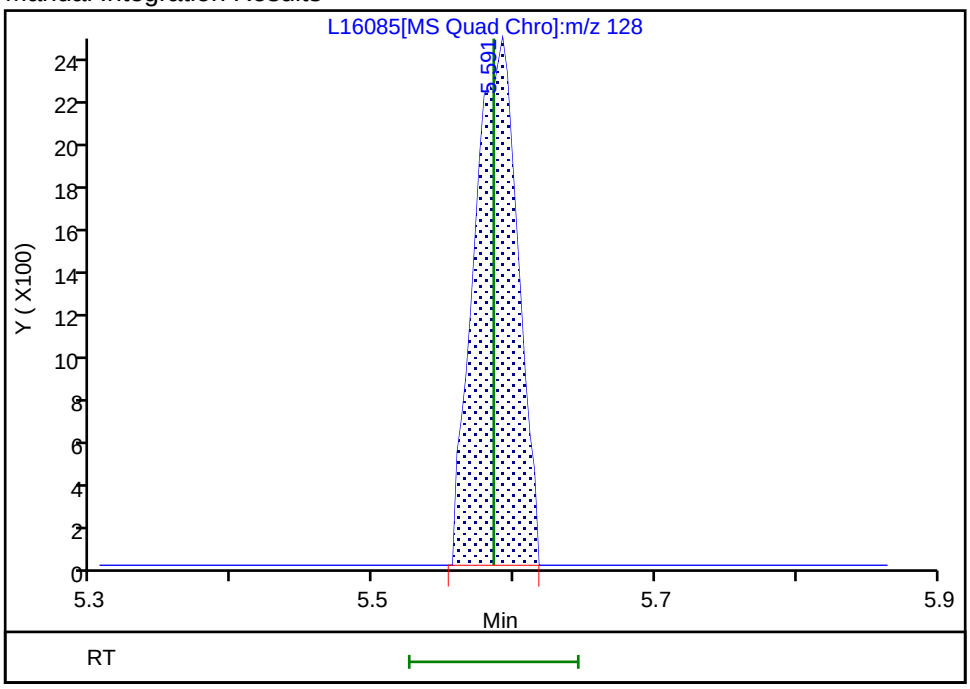
Not Detected
Expected RT: 5.59

Processing Integration Results



Manual Integration Results

RT: 5.59
Area: 5200
Amount: 1.076049
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:40:11
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

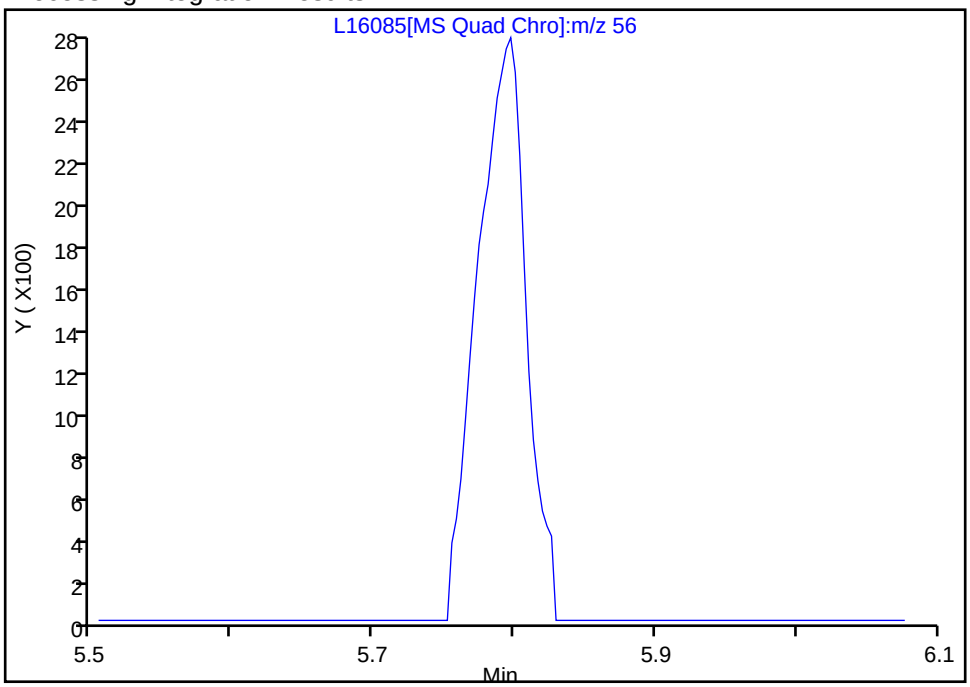
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

65 Cyclohexane, CAS: 110-82-7

Signal: 1

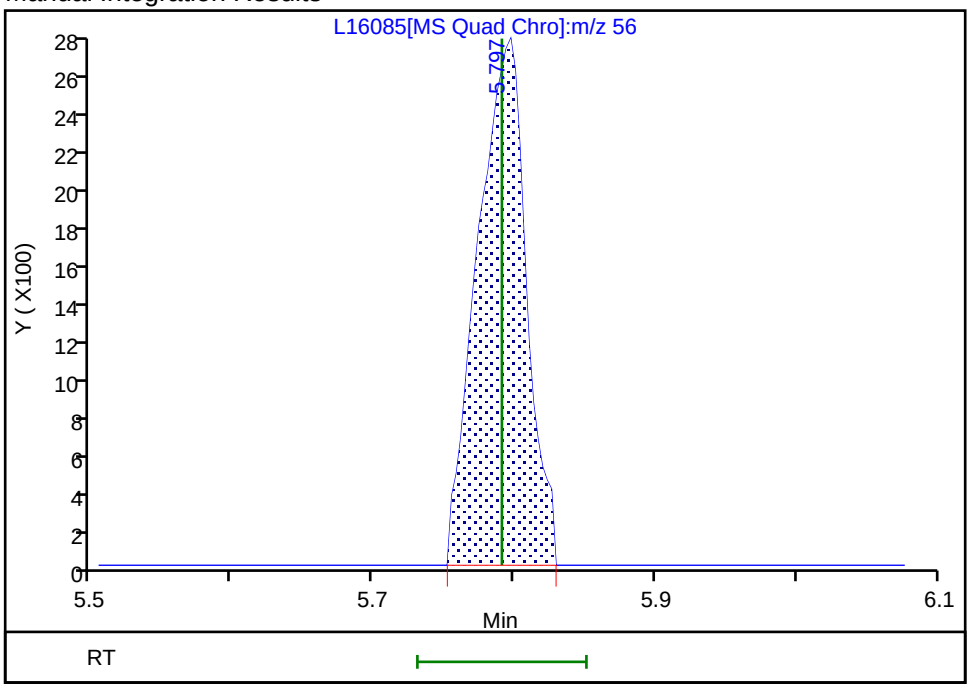
Not Detected
Expected RT: 5.79

Processing Integration Results



Manual Integration Results

RT: 5.80
Area: 6726
Amount: 0.863086
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:40:15
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

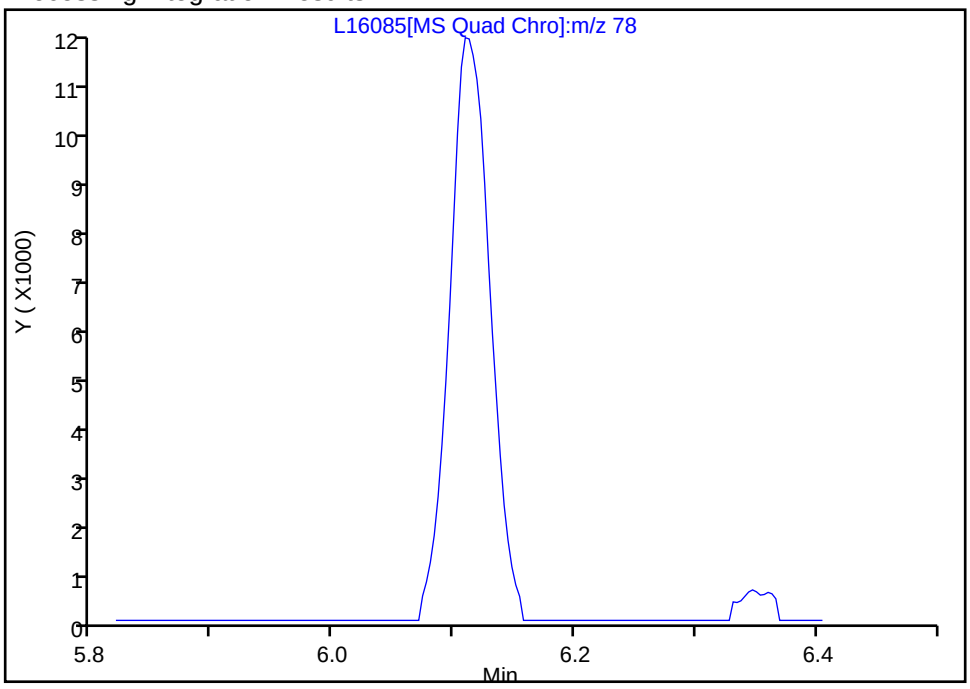
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

70 Benzene, CAS: 71-43-2

Signal: 1

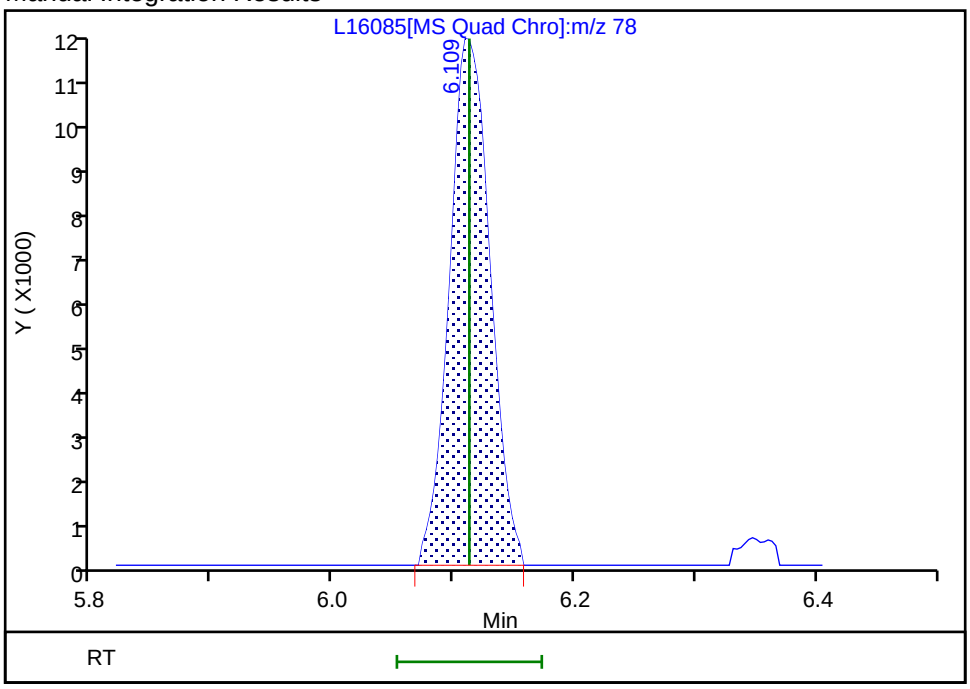
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 26875
Amount: 1.024760
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:40:20
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

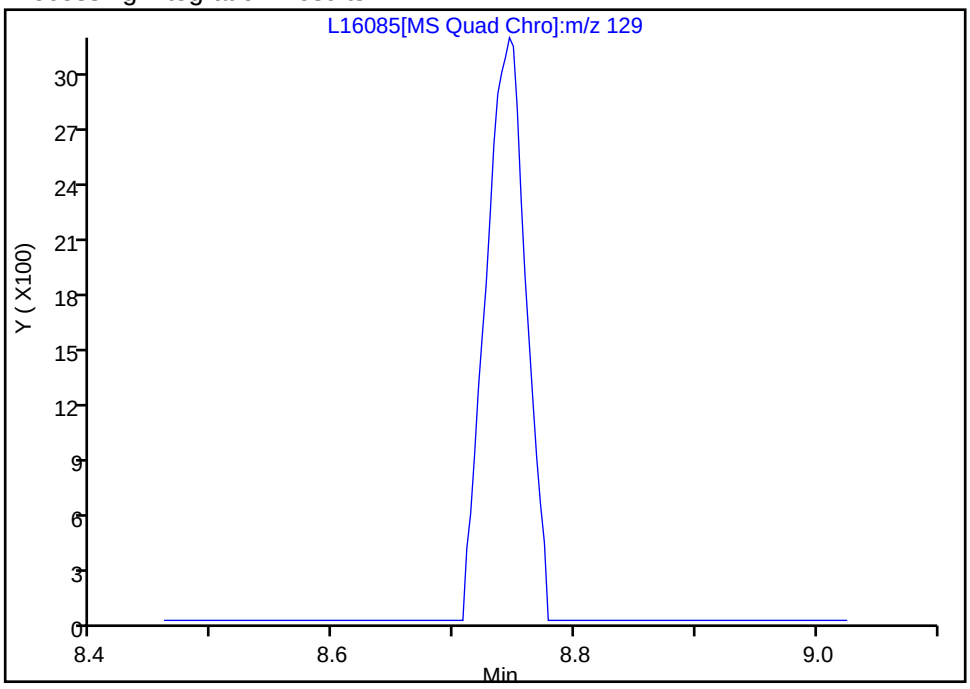
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

98 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

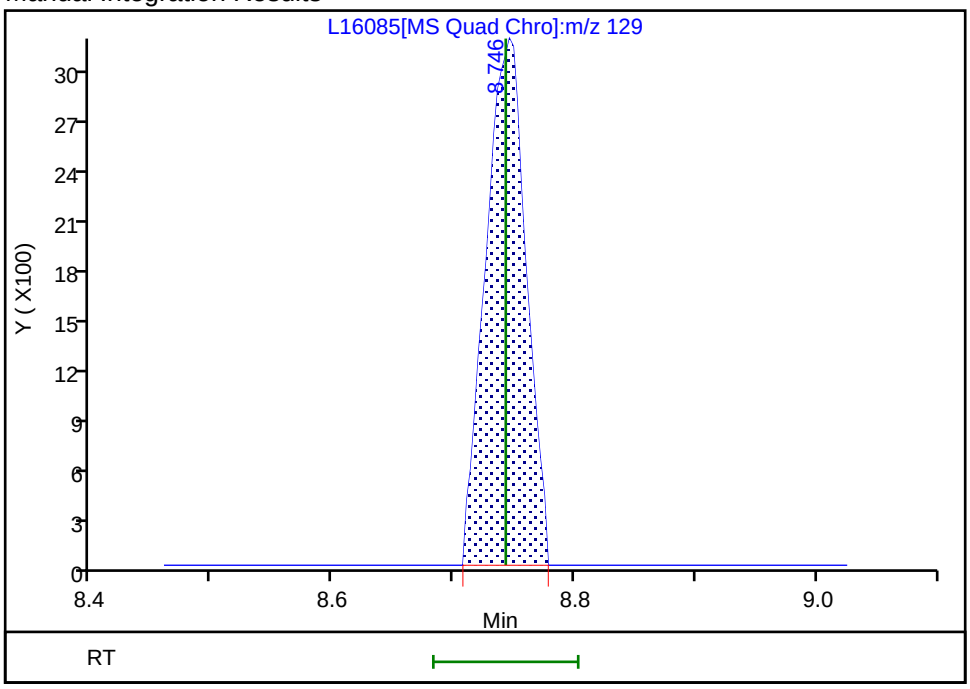
Not Detected
Expected RT: 8.74

Processing Integration Results



Manual Integration Results

RT: 8.75
Area: 7223
Amount: 0.925412
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:40:31
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16086.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Dec-2021 16:58:58 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0102927-010
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:31 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 10:41:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	121697	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	570962	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	93	350844	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	93	207045	25.0	24.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.093	6.096	-0.003	97	210847	25.0	24.8	
$ 6 Toluene-d8 (Surr)	98	7.807	7.810	-0.003	93	670564	25.0	24.3	
$ 7 4-Bromofluorobenzene (Surr)	174	10.521	10.518	0.003	93	254475	25.0	24.2	
10 Dichlorodifluoromethane	85	2.087	2.090	-0.003	95	7551	2.00	1.81	
13 Chloromethane	50	2.347	2.347	0.000	98	12270	2.00	1.78	
14 Vinyl chloride	62	2.479	2.476	0.003	95	11284	2.00	1.52	
15 Butadiene	54	2.495	2.492	0.003	95	9176	2.00	1.39	
18 Bromomethane	94	2.868	2.878	-0.010	92	13283	2.00	1.75	M
19 Chloroethane	64	2.955	2.955	0.000	93	10218	2.00	1.72	
21 Trichlorofluoromethane	101	3.186	3.183	0.003	80	14901	2.00	1.82	
20 Dichlorofluoromethane	67	3.183	3.187	-0.004	96	22622	2.00	1.86	a
26 Ethyl ether	59	3.482	3.479	0.003	91	13840	2.00	2.34	
28 Acrolein	56	3.682	3.678	0.004	99	12624	10.0	11.0	
29 112TCTFE	101	3.704	3.704	0.000	86	11020	2.00	1.98	a
30 1,1-Dichloroethene	96	3.733	3.730	0.003	95	13182	2.00	2.25	
31 Acetone	43	3.826	3.826	0.000	100	28313	10.0	10.7	
33 Iodomethane	142	3.910	3.913	-0.003	99	30255	2.00	2.18	
35 Carbon disulfide	76	3.965	3.965	0.000	99	41918	2.00	2.17	
37 3-Chloro-1-propene	41	4.084	4.080	0.004	87	19195	2.00	2.23	
38 Methyl acetate	43	4.100	4.100	0.000	96	28781	4.00	4.33	
39 Methylene Chloride	84	4.222	4.222	0.000	86	31852	2.00	2.22	
40 2-Methyl-2-propanol	59	4.318	4.318	0.000	95	20662	20.0	19.0	
41 Methyl tert-butyl ether	73	4.402	4.399	0.003	96	40272	2.00	2.05	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	92	16958	2.00	2.21	
44 Acrylonitrile	53	4.479	4.479	0.000	98	74848	20.0	21.4	
47 Hexane	57	4.601	4.598	0.003	93	14089	2.00	2.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.833	4.836	-0.003	65	24122	2.00	2.10	
49 Vinyl acetate	43	4.839	4.836	0.003	97	52136	4.00	3.88	
56 2,2-Dichloropropane	77	5.331	5.331	0.000	89	16722	2.00	2.18	
57 2-Butanone (MEK)	43	5.357	5.357	0.000	98	43958	10.0	10.6	
58 cis-1,2-Dichloroethene	96	5.354	5.357	-0.003	74	18385	2.00	2.19	
60 Chlorobromomethane	128	5.585	5.585	0.000	86	10640	2.00	2.19	
61 Tetrahydrofuran	42	5.601	5.601	0.000	80	12059	4.00	4.36	
62 Chloroform	83	5.630	5.630	0.000	93	29748	2.00	2.15	
64 1,1,1-Trichloroethane	97	5.775	5.772	0.003	98	22868	2.00	2.09	
65 Cyclohexane	56	5.791	5.791	0.000	82	16304	2.00	2.08	
66 Carbon tetrachloride	117	5.900	5.907	-0.007	94	19241	2.00	1.99	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	89	17550	2.00	2.09	
69 Isobutyl alcohol	43	6.013	6.010	0.003	95	21330	50.0	49.7	M
70 Benzene	78	6.112	6.113	0.000	95	56611	2.00	2.14	
72 1,2-Dichloroethane	62	6.161	6.167	-0.006	96	20700	2.00	2.07	
73 n-Heptane	43	6.206	6.209	-0.003	86	14910	2.00	2.23	
75 Trichloroethene	95	6.682	6.678	0.004	95	16112	2.00	2.16	
76 Methylcyclohexane	83	6.804	6.807	-0.003	85	19681	2.00	2.00	
77 1,2-Dichloropropane	63	6.919	6.920	-0.001	89	12470	2.00	2.13	
81 1,4-Dioxane	88	7.032	7.029	0.003	80	3065	40.0	37.4	
82 Dibromomethane	93	7.061	7.064	-0.003	90	11430	2.00	2.15	
83 Dichlorobromomethane	83	7.177	7.180	-0.003	98	19127	2.00	2.06	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	92	8712	2.00	2.00	
85 cis-1,3-Dichloropropene	75	7.579	7.579	0.000	93	19685	2.00	1.93	
87 4-Methyl-2-pentanone (MIBK)	43	7.688	7.685	0.003	96	81443	10.0	9.83	
88 Toluene	92	7.874	7.875	-0.001	98	37659	2.00	2.11	
90 Ethyl methacrylate	69	8.109	8.109	0.000	87	14606	2.00	1.76	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	94	18889	2.00	1.95	
93 1,1,2-Trichloroethane	83	8.325	8.321	0.004	91	10976	2.00	2.01	
94 Tetrachloroethene	166	8.411	8.411	0.000	97	18504	2.00	2.08	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	93	22695	2.00	2.03	
96 2-Hexanone	43	8.508	8.505	0.003	94	56040	10.0	9.90	
98 Chlorodibromomethane	129	8.743	8.743	0.000	89	15858	2.00	2.00	
101 Ethylene Dibromide	107	8.874	8.875	0.000	96	16096	2.00	2.01	
103 Chlorobenzene	112	9.328	9.331	-0.003	97	45795	2.00	2.12	
104 Ethylbenzene	91	9.392	9.392	0.000	98	68196	2.00	2.09	
105 1,1,1,2-Tetrachloroethane	131	9.408	9.411	-0.003	91	16078	2.00	2.00	
106 m-Xylene & p-Xylene	106	9.508	9.508	0.000	98	27951	2.00	2.08	
107 o-Xylene	106	9.945	9.945	0.000	96	27388	2.00	2.04	
109 Styrene	104	9.974	9.971	0.003	95	44022	2.00	2.03	
110 Bromoform	173	10.251	10.251	0.000	94	10742	2.00	1.78	
111 Isopropylbenzene	105	10.302	10.302	0.000	95	72529	2.00	2.07	
112 1,1,2,2-Tetrachloroethane	83	10.685	10.682	0.003	94	21343	2.00	1.94	
113 Bromobenzene	156	10.688	10.688	0.000	82	22335	2.00	2.08	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	80748	2.00	2.07	
115 trans-1,4-Dichloro-2-butene	53	10.723	10.727	-0.004	72	5743	2.00	2.06	
116 1,2,3-Trichloropropane	110	10.739	10.736	0.003	87	8100	2.00	1.99	
117 2-Chlorotoluene	126	10.845	10.846	-0.001	98	20311	2.00	2.20	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	62556	2.00	2.07	
119 4-Chlorotoluene	91	10.952	10.948	0.004	96	50632	2.00	2.06	
120 tert-Butylbenzene	134	11.193	11.190	0.003	91	13957	2.00	1.96	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	64699	2.00	2.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.392	11.389	0.003	93	75762	2.00	2.06	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	97	70226	2.00	2.06	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	97	43944	2.00	2.15	
126 1,4-Dichlorobenzene	146	11.633	11.636	-0.003	96	44154	2.00	2.09	
127 n-Butylbenzene	91	11.881	11.881	0.000	96	59420	2.00	2.08	
128 1,2-Dichlorobenzene	146	11.980	11.977	0.003	99	41199	2.00	2.00	
129 1,2-Dibromo-3-Chloropropane	75	12.652	12.656	-0.004	85	5038	2.00	2.15	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	95	32348	2.00	2.07	
131 Hexachlorobutadiene	225	13.398	13.402	-0.004	96	13845	2.00	2.07	
132 Naphthalene	128	13.559	13.559	0.000	96	87021	2.00	2.00	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	95	31369	2.00	2.09	
S 142 Total BTEX	1				0			10.5	
S 144 1,3-Dichloropropene, Total	1				0			3.88	
S 141 1,2-Dichloroethene, Total	1				0			4.41	
S 143 Xylenes, Total	1				0			4.12	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8260 CORP mix_00218	Amount Added:	2.00	Units: uL	
GAS CORP mix_00484	Amount Added:	2.00	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:32 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16086.D

Injection Date: 08-Dec-2021 16:58:58 Instrument ID: HP5977L

Lims ID: IC 2

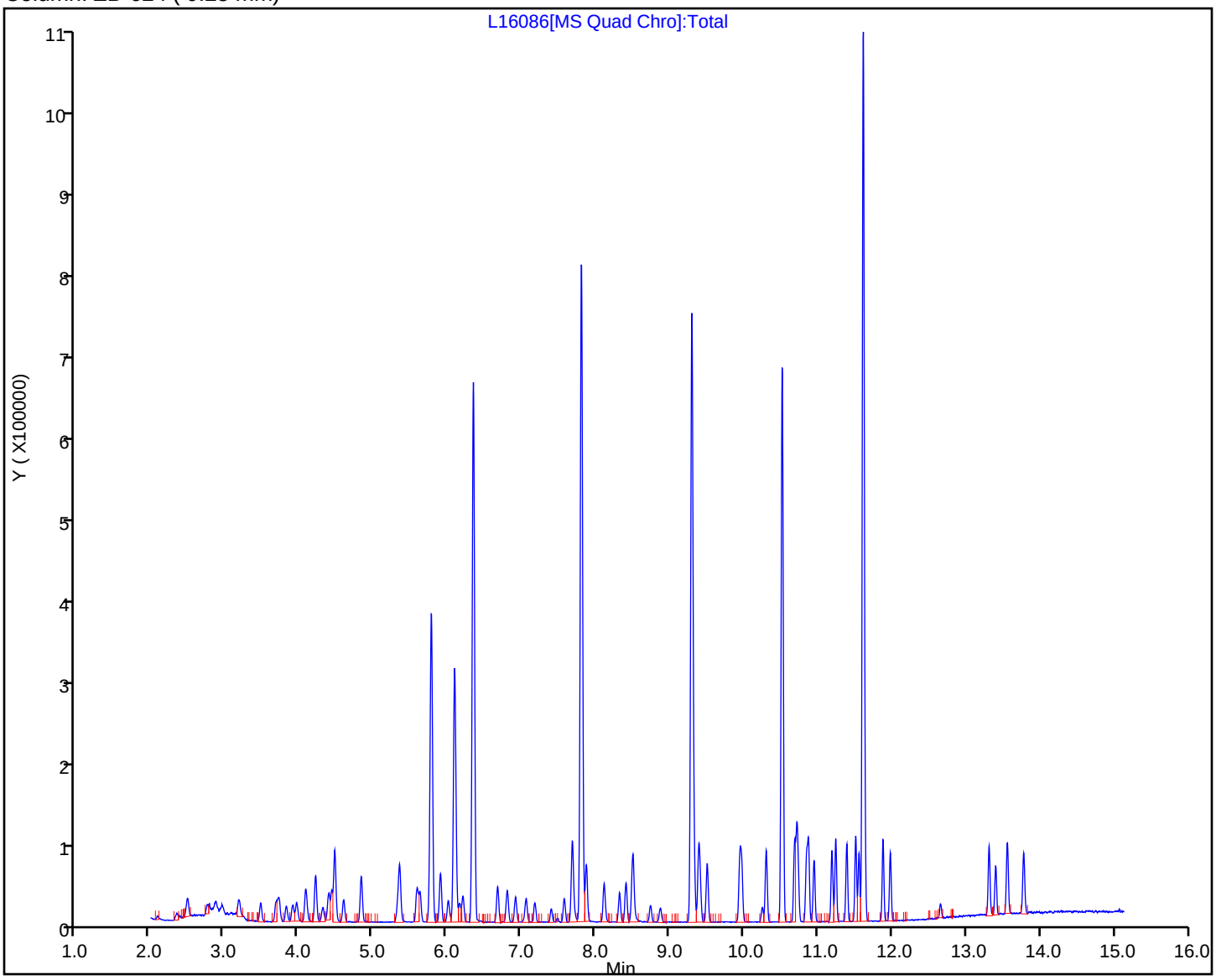
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 10

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

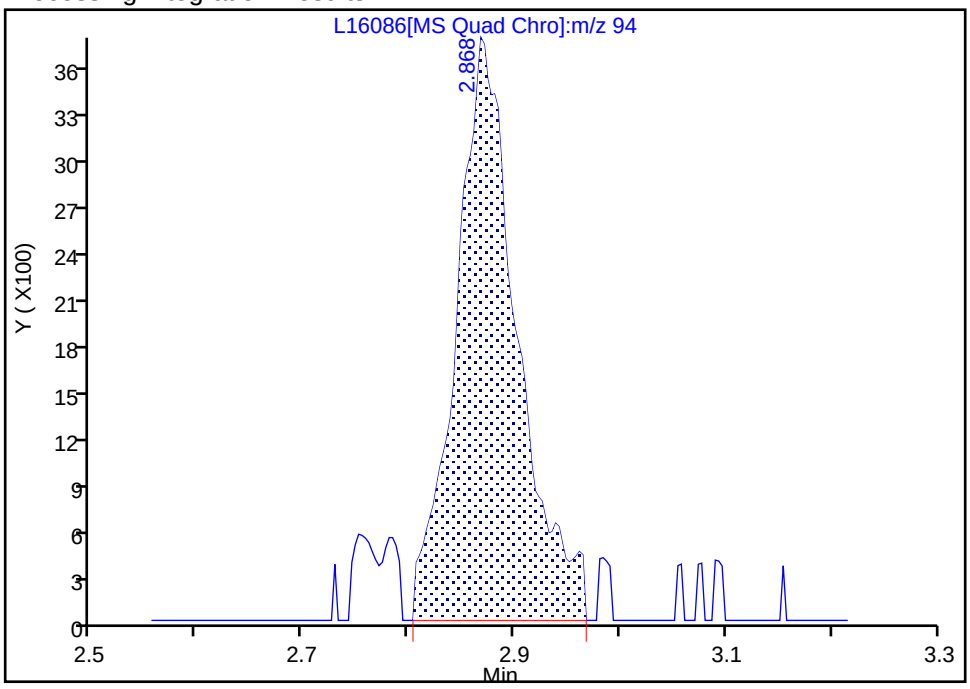
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16086.D
Injection Date: 08-Dec-2021 16:58:58 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

18 Bromomethane, CAS: 74-83-9

Signal: 1

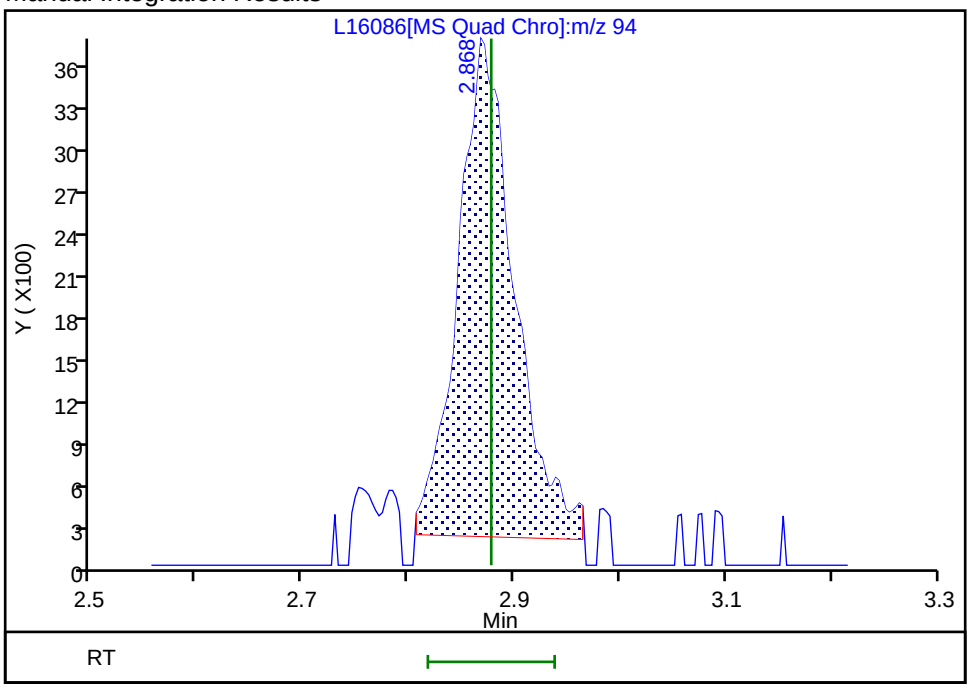
Processing Integration Results

RT: 2.87
Area: 15237
Amount: 1.972613
Amount Units: ug/L



Manual Integration Results

RT: 2.87
Area: 13283
Amount: 1.750717
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:03:11
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

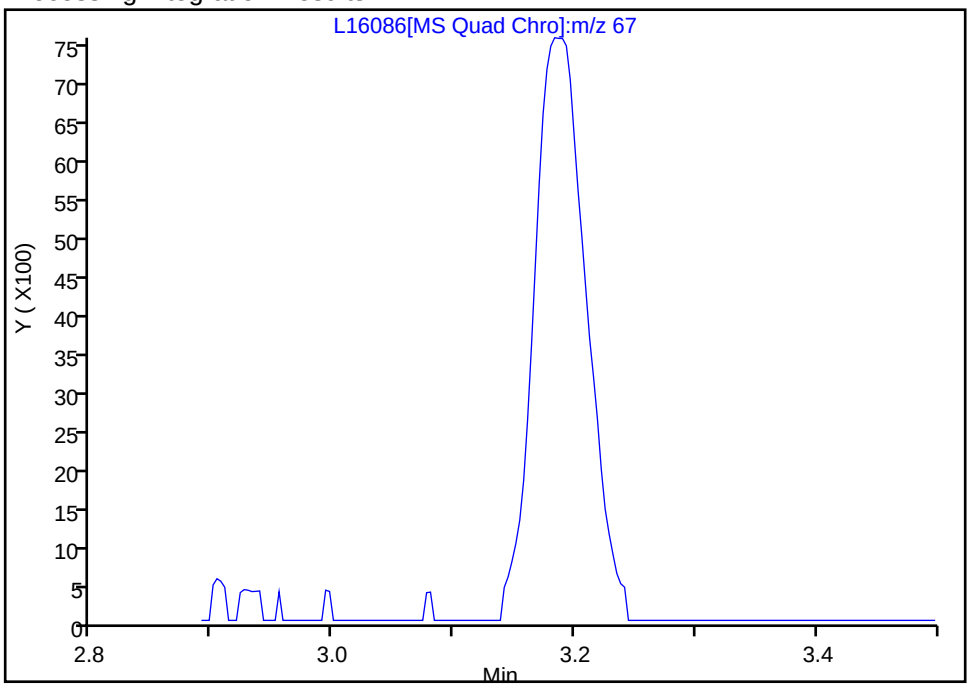
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16086.D
Injection Date: 08-Dec-2021 16:58:58 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

20 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

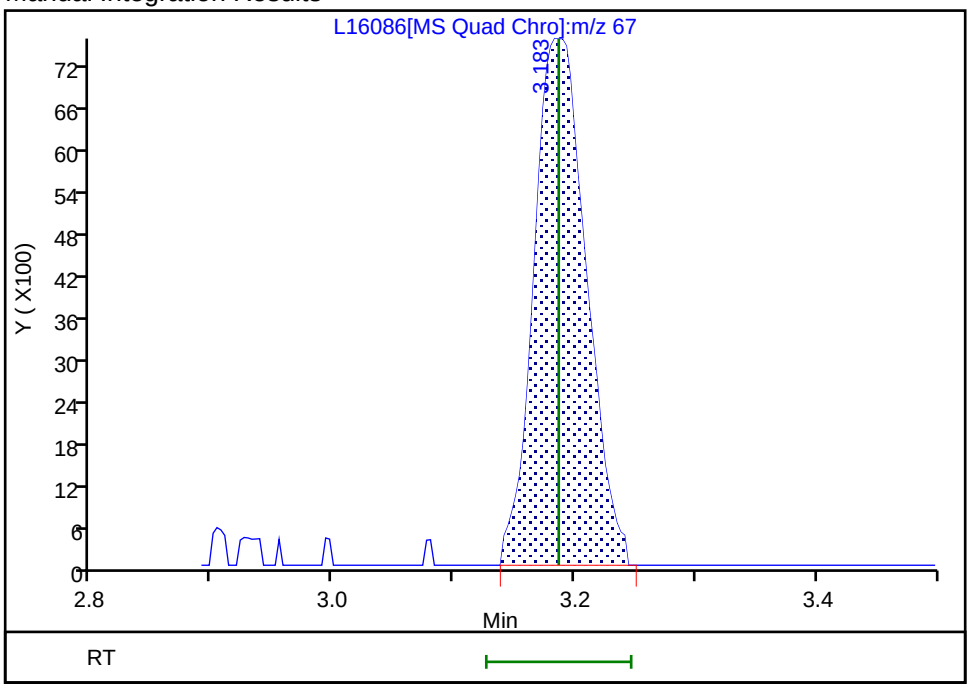
Not Detected
Expected RT: 3.19

Processing Integration Results



Manual Integration Results

RT: 3.18
Area: 22622
Amount: 1.858988
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:41:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

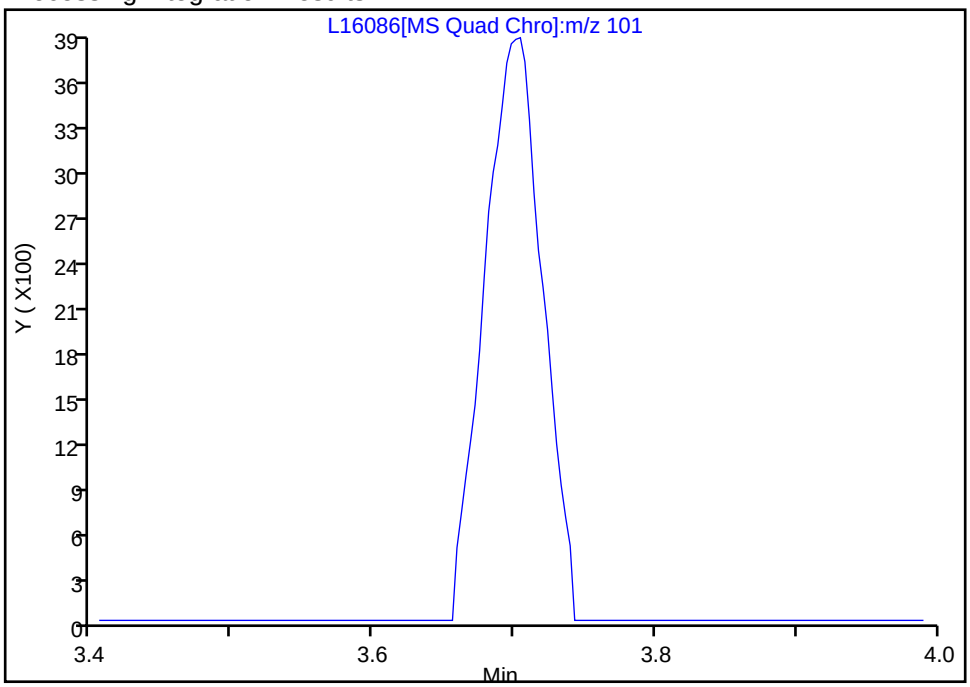
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16086.D
Injection Date: 08-Dec-2021 16:58:58 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

29 112TCTFE, CAS: 76-13-1

Signal: 1

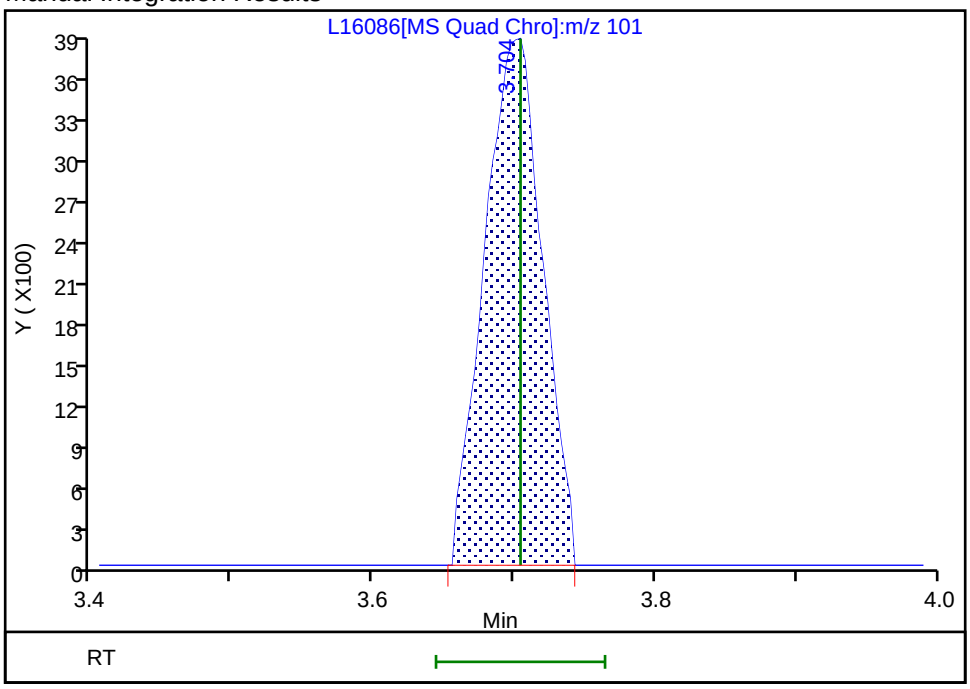
Not Detected
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.70
Area: 11020
Amount: 1.978427
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:41:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Buffalo

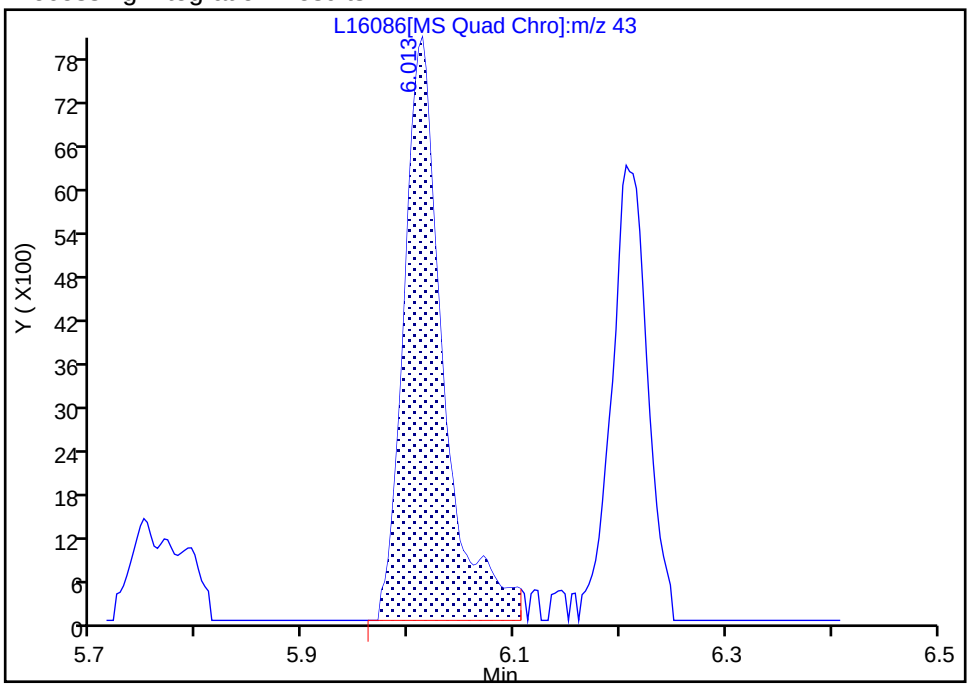
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16086.D
Injection Date: 08-Dec-2021 16:58:58 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

69 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

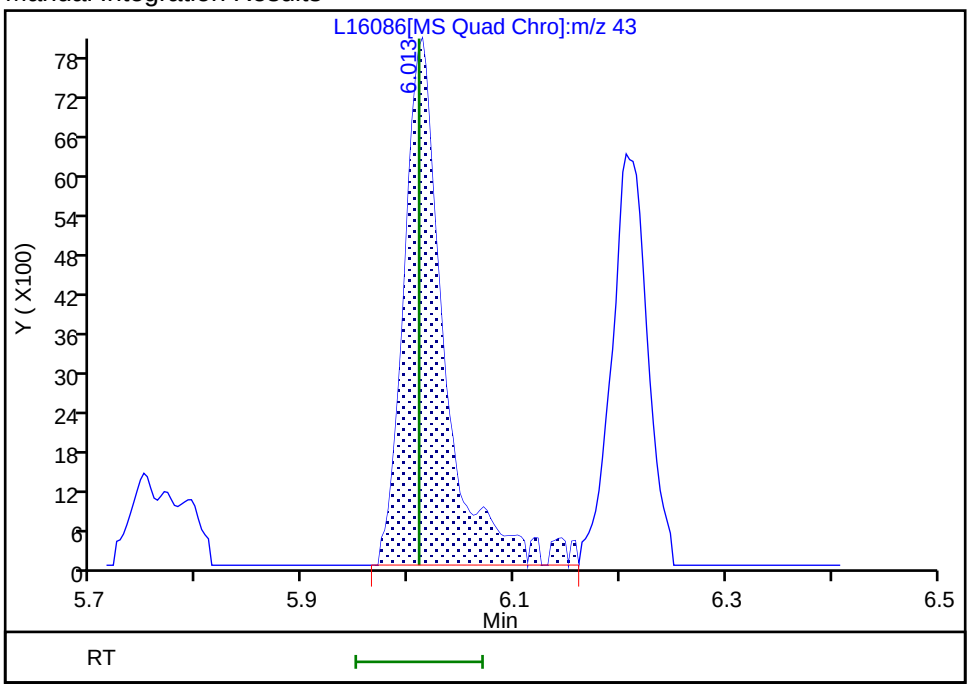
Processing Integration Results

RT: 6.01
Area: 20554
Amount: 48.142431
Amount Units: ug/L



Manual Integration Results

RT: 6.01
Area: 21330
Amount: 49.734021
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:06:55
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16087.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Dec-2021 17:21:13 ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0102927-011
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:36 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 10:44:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	124825	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	567878	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.611	11.614	-0.003	93	332769	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	95	214716	25.0	24.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	219318	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	7.807	7.810	-0.003	93	714239	25.0	26.1	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	93	265761	25.0	25.4	
10 Dichlorodifluoromethane	85	2.087	2.090	-0.003	98	28573	5.00	4.63	
13 Chloromethane	50	2.347	2.347	0.000	99	37201	5.00	5.26	
14 Vinyl chloride	62	2.479	2.476	0.003	97	36607	5.00	4.80	
15 Butadiene	54	2.495	2.492	0.003	92	32626	5.00	4.81	
18 Bromomethane	94	2.878	2.878	0.000	93	38178	5.00	4.91	
19 Chloroethane	64	2.961	2.955	0.006	98	30690	5.00	5.02	
21 Trichlorofluoromethane	101	3.187	3.183	0.004	97	51280	5.00	4.55	
20 Dichlorofluoromethane	67	3.193	3.187	0.006	97	59697	5.00	4.78	
26 Ethyl ether	59	3.479	3.479	0.000	90	28547	5.00	4.71	
28 Acrolein	56	3.682	3.678	0.004	91	26549	25.0	22.6	
29 112TCTFE	101	3.701	3.704	-0.003	91	22064	5.00	3.86	
30 1,1-Dichloroethene	96	3.727	3.730	-0.003	95	26435	5.00	4.40	
31 Acetone	43	3.826	3.826	0.000	99	67384	25.0	24.8	
33 Iodomethane	142	3.913	3.913	0.000	99	66231	5.00	4.65	
35 Carbon disulfide	76	3.968	3.965	0.003	100	88303	5.00	4.46	
37 3-Chloro-1-propene	41	4.080	4.080	0.000	84	39000	5.00	4.42	
38 Methyl acetate	43	4.097	4.100	-0.004	97	64212	10.0	9.42	
39 Methylene Chloride	84	4.222	4.222	0.000	86	51221	5.00	4.66	
40 2-Methyl-2-propanol	59	4.318	4.318	0.000	95	53140	50.0	47.7	M
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	95	93226	5.00	4.62	
42 trans-1,2-Dichloroethene	96	4.441	4.437	0.004	90	36714	5.00	4.68	
44 Acrylonitrile	53	4.479	4.479	0.000	98	172917	50.0	48.3	
47 Hexane	57	4.598	4.598	0.000	92	26448	5.00	3.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	62	53870	5.00	4.58	
49 Vinyl acetate	43	4.839	4.836	0.003	97	126803	10.0	9.20	
56 2,2-Dichloropropane	77	5.328	5.331	-0.003	90	34536	5.00	4.40	a
57 2-Butanone (MEK)	43	5.360	5.357	0.003	99	103295	25.0	24.2	
58 cis-1,2-Dichloroethene	96	5.354	5.357	-0.003	72	40374	5.00	4.70	
60 Chlorobromomethane	128	5.585	5.585	0.000	82	23309	5.00	4.67	
61 Tetrahydrofuran	42	5.601	5.601	0.000	86	27048	10.0	9.53	
62 Chloroform	83	5.630	5.630	0.000	92	64650	5.00	4.56	
64 1,1,1-Trichloroethane	97	5.768	5.772	-0.004	98	49356	5.00	4.40	
65 Cyclohexane	56	5.794	5.791	0.003	82	31417	5.00	3.90	
66 Carbon tetrachloride	117	5.907	5.907	0.000	92	41207	5.00	4.16	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	93	38723	5.00	4.50	
69 Isobutyl alcohol	43	6.013	6.010	0.003	92	52432	125.0	119.2	M
70 Benzene	78	6.113	6.113	0.001	92	130439	5.00	4.81	
72 1,2-Dichloroethane	62	6.167	6.167	0.000	97	49115	5.00	4.79	
73 n-Heptane	43	6.209	6.209	0.000	84	27618	5.00	4.04	
75 Trichloroethene	95	6.678	6.678	0.000	94	36301	5.00	4.76	
76 Methylcyclohexane	83	6.807	6.807	0.000	86	37996	5.00	3.76	
77 1,2-Dichloropropane	63	6.920	6.920	0.000	93	29050	5.00	4.84	
81 1,4-Dioxane	88	7.029	7.029	0.000	86	7349	100.0	90.2	
82 Dibromomethane	93	7.061	7.064	-0.003	91	26948	5.00	4.94	
83 Dichlorobromomethane	83	7.180	7.180	0.000	98	43723	5.00	4.60	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	96	21548	5.00	4.82	
85 cis-1,3-Dichloropropene	75	7.579	7.579	0.000	95	48692	5.00	4.66	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.685	0.000	95	198430	25.0	24.1	
88 Toluene	92	7.875	7.875	0.000	98	86055	5.00	4.86	
90 Ethyl methacrylate	69	8.112	8.109	0.003	87	38758	5.00	4.70	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	96	46007	5.00	4.77	
93 1,1,2-Trichloroethane	83	8.325	8.321	0.004	90	26382	5.00	4.86	
94 Tetrachloroethene	166	8.412	8.411	0.001	98	41404	5.00	4.69	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	95	53949	5.00	4.86	
96 2-Hexanone	43	8.505	8.505	0.000	95	137960	25.0	24.5	
98 Chlorodibromomethane	129	8.743	8.743	0.000	88	37323	5.00	4.72	
101 Ethylene Dibromide	107	8.875	8.875	0.001	99	38189	5.00	4.80	
103 Chlorobenzene	112	9.331	9.331	0.000	98	103901	5.00	4.84	
104 Ethylbenzene	91	9.392	9.392	0.000	97	156491	5.00	4.82	
105 1,1,1,2-Tetrachloroethane	131	9.408	9.411	-0.003	93	39388	5.00	4.92	
106 m-Xylene & p-Xylene	106	9.505	9.508	-0.003	97	63649	5.00	4.77	
107 o-Xylene	106	9.945	9.945	0.000	96	64081	5.00	4.79	
109 Styrene	104	9.971	9.971	0.000	96	105029	5.00	4.86	
110 Bromoform	173	10.251	10.251	0.000	97	26457	5.00	4.40	
111 Isopropylbenzene	105	10.302	10.302	0.000	95	160689	5.00	4.84	
112 1,1,2,2-Tetrachloroethane	83	10.685	10.682	0.003	96	50620	5.00	4.86	
113 Bromobenzene	156	10.688	10.688	0.000	85	50655	5.00	4.97	
114 N-Propylbenzene	91	10.717	10.717	0.000	99	184139	5.00	4.97	
115 trans-1,4-Dichloro-2-butene	53	10.727	10.727	0.000	72	12648	5.00	4.78	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	84	20046	5.00	5.20	
117 2-Chlorotoluene	126	10.846	10.846	0.000	98	44908	5.00	5.13	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	140738	5.00	4.92	
119 4-Chlorotoluene	91	10.948	10.948	0.000	97	117330	5.00	5.04	
120 tert-Butylbenzene	134	11.190	11.190	0.000	91	32581	5.00	4.81	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	148690	5.00	5.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.389	11.389	0.000	93	169167	5.00	4.85	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	96	157913	5.00	4.88	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	98	95437	5.00	4.92	
126 1,4-Dichlorobenzene	146	11.637	11.636	0.001	97	99273	5.00	4.95	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	128371	5.00	4.74	
128 1,2-Dichlorobenzene	146	11.977	11.977	0.000	99	94941	5.00	4.87	
129 1,2-Dibromo-3-Chloropropane	75	12.653	12.656	-0.003	88	10168	5.00	4.58	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	94	73955	5.00	4.99	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	97	30205	5.00	4.76	
132 Naphthalene	128	13.559	13.559	0.000	96	202769	5.00	4.91	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	70696	5.00	4.97	
S 142 Total BTEX	1				0			24.1	
S 144 1,3-Dichloropropene, Total	1				0			9.43	
S 141 1,2-Dichloroethene, Total	1				0			9.37	
S 143 Xylenes, Total	1				0			9.56	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8260 CORP mix_00218	Amount Added:	5.00	Units: uL	
GAS CORP mix_00484	Amount Added:	5.00	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:36 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16087.D

Injection Date: 08-Dec-2021 17:21:13 Instrument ID: HP5977L

Lims ID: IC 3

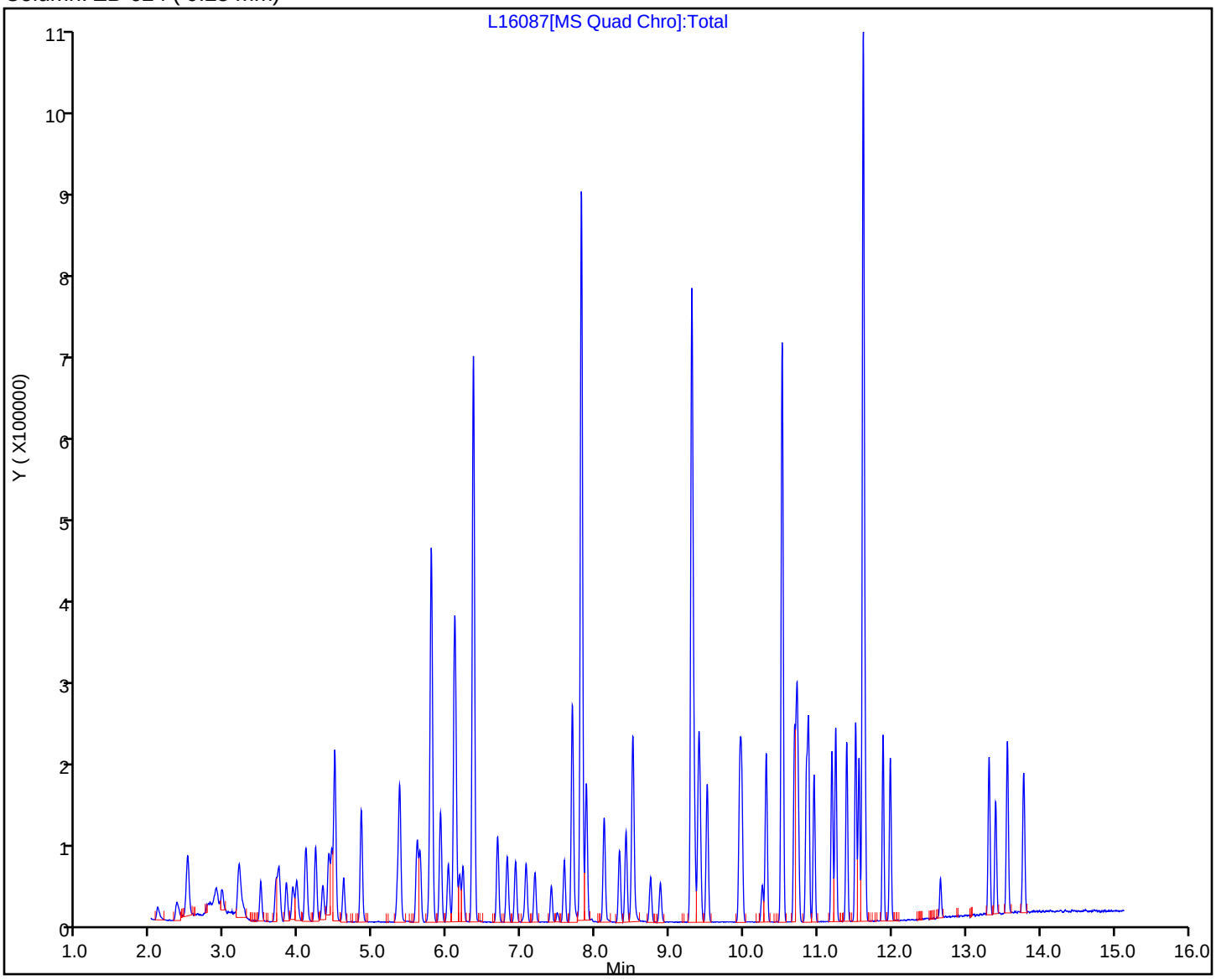
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 11

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

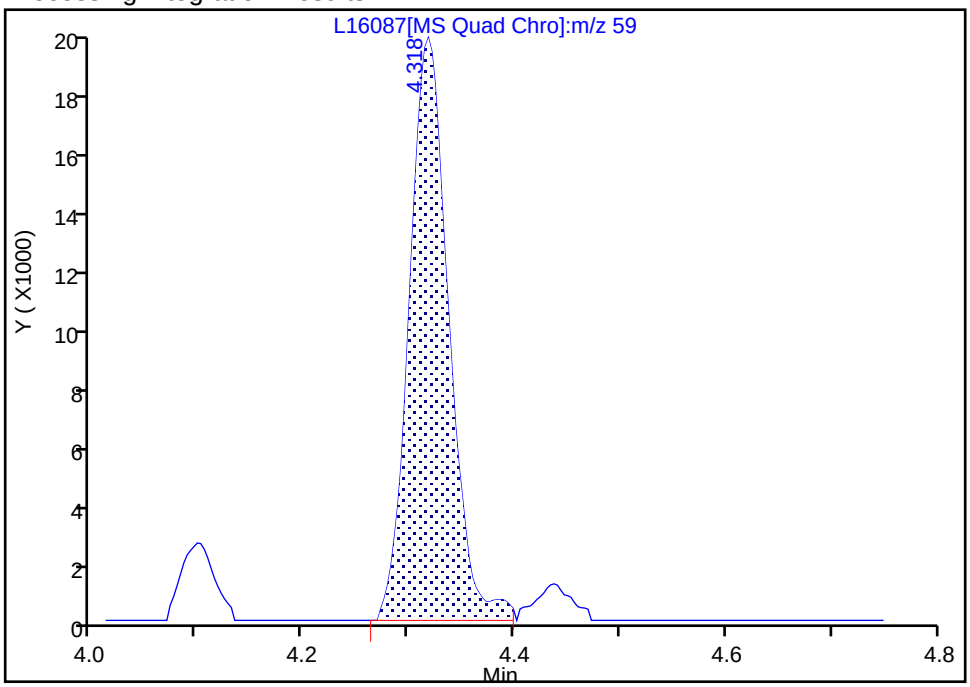
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16087.D
Injection Date: 08-Dec-2021 17:21:13 Instrument ID: HP5977L
Lims ID: IC 3
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

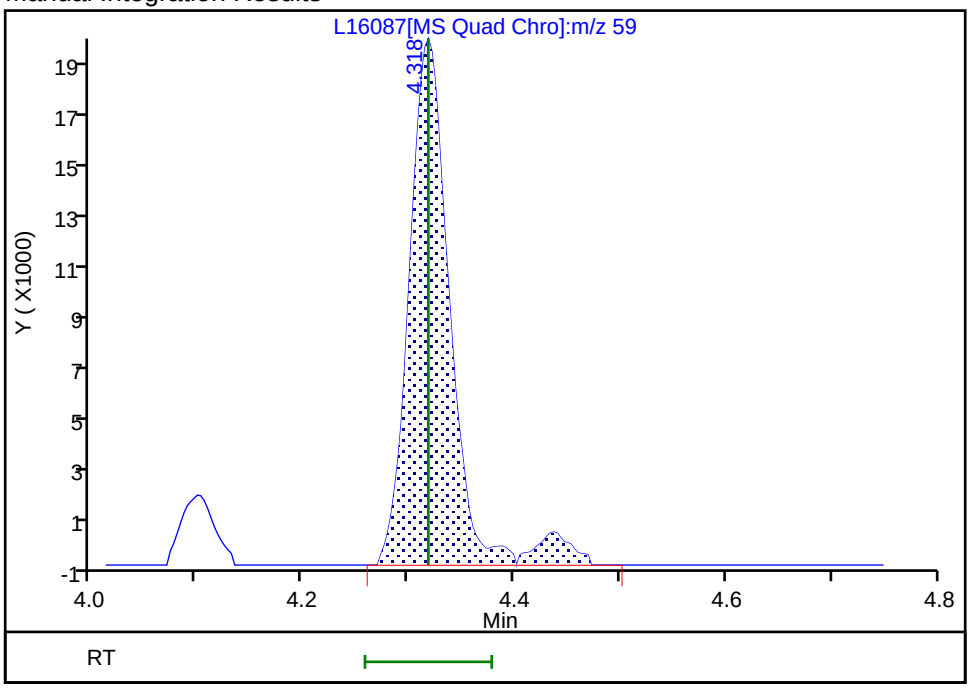
Processing Integration Results

RT: 4.32
Area: 50118
Amount: 46.585855
Amount Units: ug/L



Manual Integration Results

RT: 4.32
Area: 53140
Amount: 47.745470
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:43:11
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

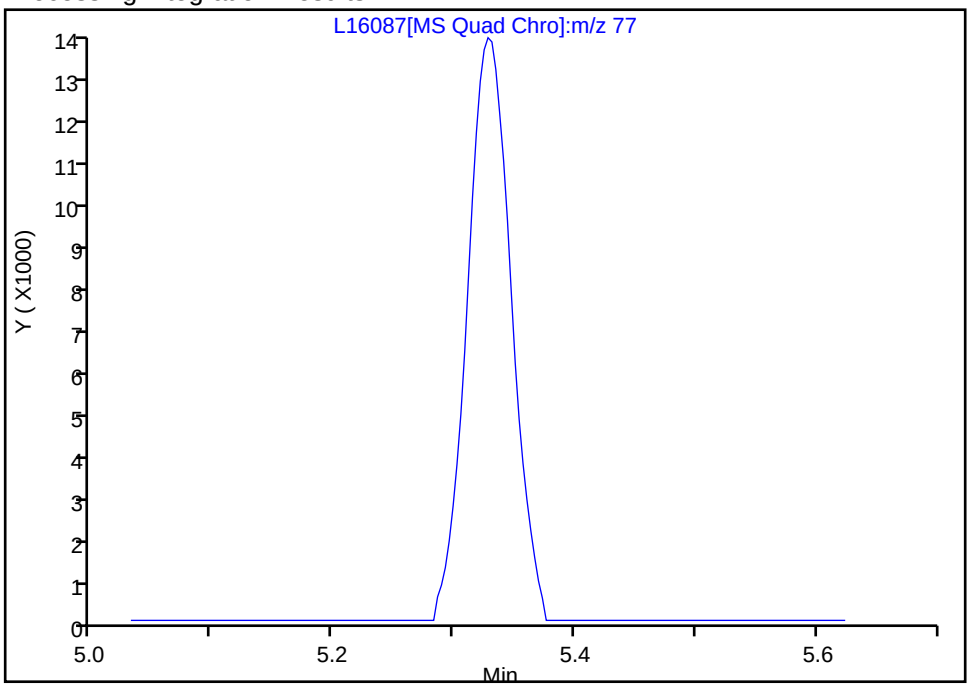
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16087.D
Injection Date: 08-Dec-2021 17:21:13 Instrument ID: HP5977L
Lims ID: IC 3
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

56 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

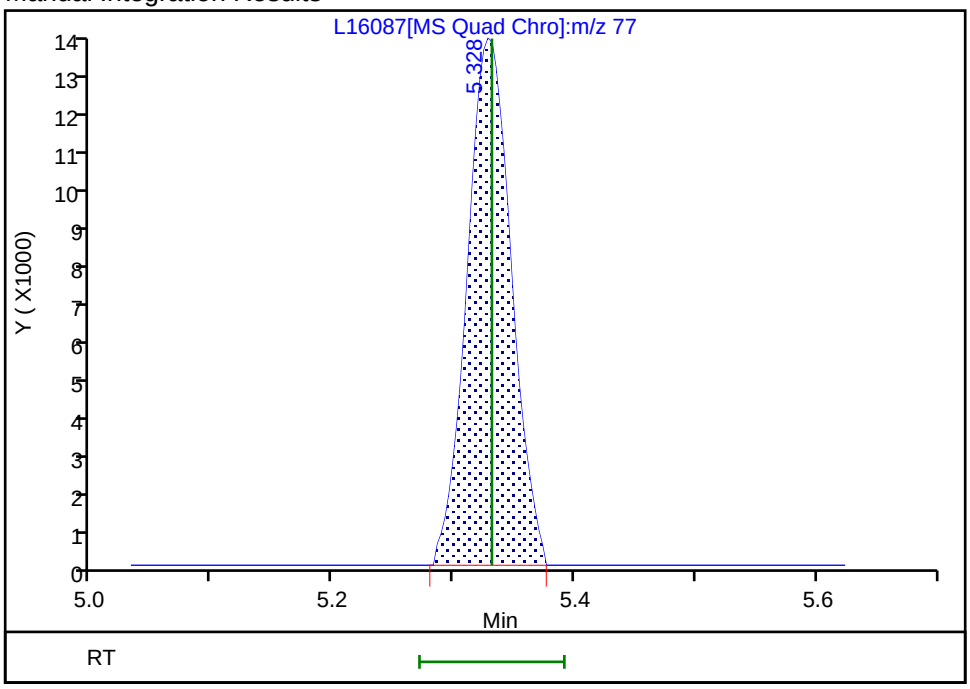
Not Detected
Expected RT: 5.33

Processing Integration Results



Manual Integration Results

RT: 5.33
Area: 34536
Amount: 4.398104
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:43:34
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

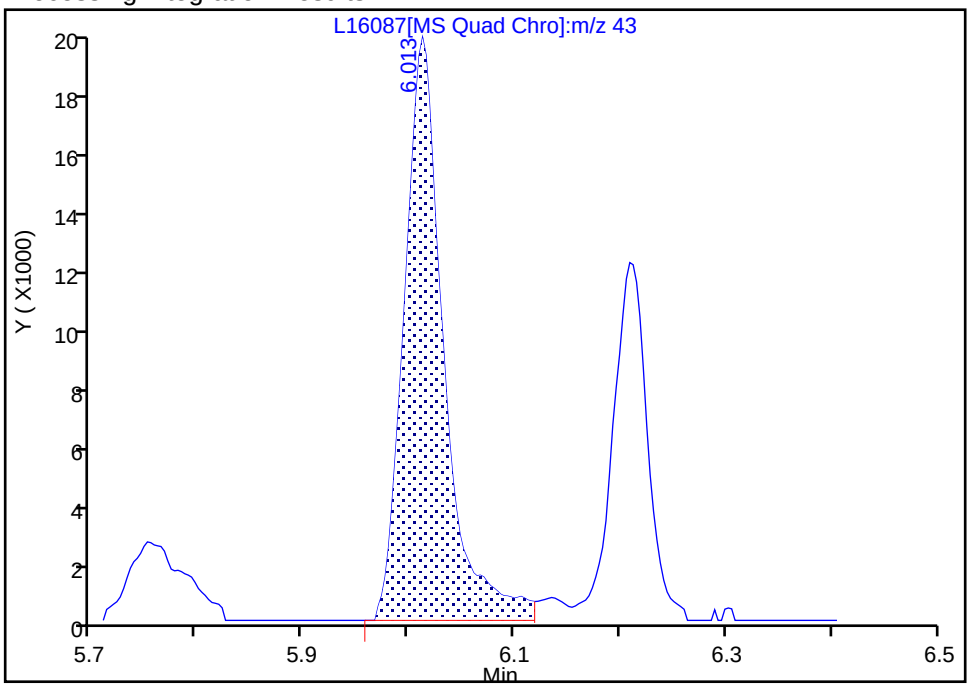
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16087.D
Injection Date: 08-Dec-2021 17:21:13 Instrument ID: HP5977L
Lims ID: IC 3
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

69 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

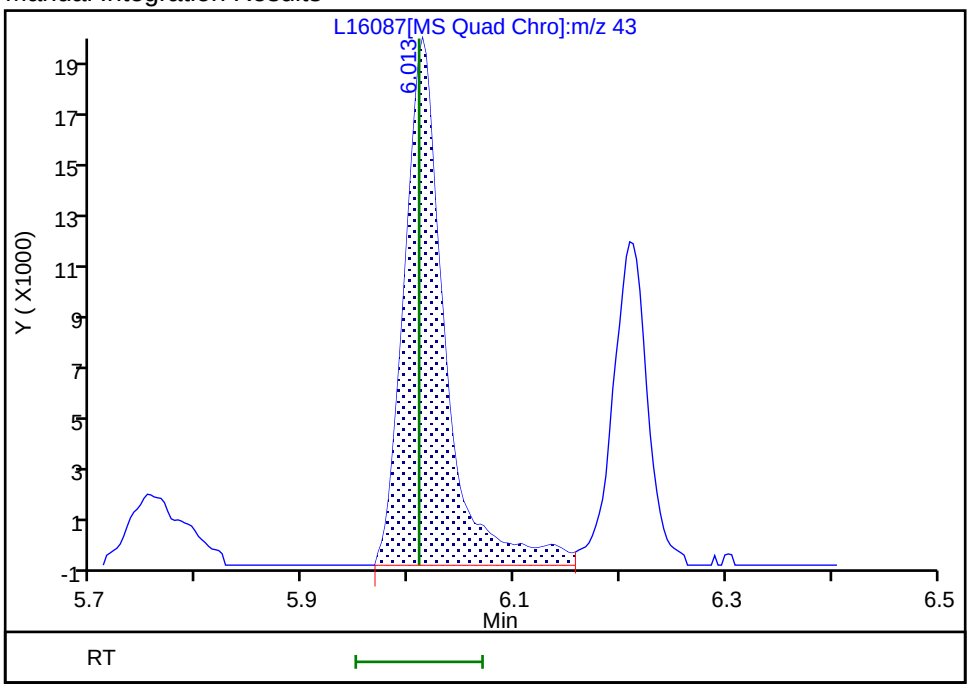
Processing Integration Results

RT: 6.01
Area: 50926
Amount: 116.6932
Amount Units: ug/L



Manual Integration Results

RT: 6.01
Area: 52432
Amount: 119.1893
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:06:35
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16088.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Dec-2021 17:42:35 ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0102927-012
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:40 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 10:58:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	122762	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	564208	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	92	340648	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	95	218544	25.0	25.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	98	217341	25.0	25.4	
$ 6 Toluene-d8 (Surr)	98	7.807	7.810	-0.003	94	694984	25.0	25.5	
$ 7 4-Bromofluorobenzene (Surr)	174	10.517	10.518	-0.001	96	265635	25.0	25.5	
10 Dichlorodifluoromethane	85	2.087	2.090	-0.003	99	57861	10.0	8.73	
13 Chloromethane	50	2.344	2.347	-0.003	99	66008	10.0	9.49	
14 Vinyl chloride	62	2.473	2.476	-0.003	97	71668	10.0	9.55	
15 Butadiene	54	2.489	2.492	-0.003	91	62888	10.0	9.42	
18 Bromomethane	94	2.868	2.878	-0.010	91	84745	10.0	11.1	
19 Chloroethane	64	2.955	2.955	0.000	99	58638	10.0	9.76	
21 Trichlorofluoromethane	101	3.183	3.183	0.000	68	112701	10.0	9.33	M
20 Dichlorofluoromethane	67	3.180	3.187	-0.007	96	124118	10.0	10.1	
26 Ethyl ether	59	3.476	3.479	-0.003	88	55956	10.0	9.40	
28 Acrolein	56	3.678	3.678	0.000	99	56680	50.0	49.2	
29 112TCTFE	101	3.694	3.704	-0.010	89	49930	10.0	8.89	
30 1,1-Dichloroethene	96	3.727	3.730	-0.003	96	55326	10.0	9.37	
31 Acetone	43	3.823	3.826	-0.003	99	127572	50.0	47.7	
33 Iodomethane	142	3.910	3.913	-0.003	100	137939	10.0	9.86	
35 Carbon disulfide	76	3.961	3.965	-0.004	100	182019	10.0	9.35	
37 3-Chloro-1-propene	41	4.083	4.080	0.003	86	82563	10.0	9.51	
38 Methyl acetate	43	4.096	4.100	-0.004	96	130951	20.0	19.5	
39 Methylene Chloride	84	4.219	4.222	-0.003	87	91985	10.0	10.2	
40 2-Methyl-2-propanol	59	4.315	4.318	-0.003	96	101267	100.0	92.5	M
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	95	195712	10.0	9.87	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	92	72570	10.0	9.40	
44 Acrylonitrile	53	4.479	4.479	0.000	98	340271	100.0	96.6	
47 Hexane	57	4.598	4.598	0.000	91	61897	10.0	8.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	95	113023	10.0	9.77	
49 Vinyl acetate	43	4.836	4.836	0.000	97	261143	20.0	19.3	
56 2,2-Dichloropropane	77	5.328	5.331	-0.003	87	75821	10.0	9.82	
57 2-Butanone (MEK)	43	5.357	5.357	0.000	99	196794	50.0	46.9	
58 cis-1,2-Dichloroethene	96	5.354	5.357	-0.003	80	84676	10.0	10.0	
60 Chlorobromomethane	128	5.585	5.585	0.000	81	50440	10.0	10.3	
61 Tetrahydrofuran	42	5.598	5.601	-0.003	82	54024	20.0	19.4	
62 Chloroform	83	5.630	5.630	0.000	91	133831	10.0	9.61	
64 1,1,1-Trichloroethane	97	5.772	5.772	0.000	97	104891	10.0	9.52	
65 Cyclohexane	56	5.788	5.791	-0.003	82	74215	10.0	9.37	
66 Carbon tetrachloride	117	5.907	5.907	0.000	95	87310	10.0	8.96	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	93	80965	10.0	9.57	
69 Isobutyl alcohol	43	6.013	6.010	0.003	91	100471	250.0	232.2	M
70 Benzene	78	6.112	6.113	0.000	96	256168	10.0	9.61	
72 1,2-Dichloroethane	62	6.164	6.167	-0.003	97	98295	10.0	9.76	
73 n-Heptane	43	6.209	6.209	0.000	88	60055	10.0	8.92	
75 Trichloroethene	95	6.678	6.678	0.000	94	70946	10.0	9.45	
76 Methylcyclohexane	83	6.807	6.807	0.000	85	91572	10.0	9.22	
77 1,2-Dichloropropane	63	6.919	6.920	-0.001	93	57734	10.0	9.79	
81 1,4-Dioxane	88	7.032	7.029	0.003	86	15523	200.0	191.8	M
82 Dibromomethane	93	7.064	7.064	0.000	89	52957	10.0	9.87	
83 Dichlorobromomethane	83	7.180	7.180	0.000	98	89758	10.0	9.60	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	94	41804	10.0	9.51	
85 cis-1,3-Dichloropropene	75	7.579	7.579	0.000	96	99967	10.0	9.73	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.685	0.000	95	406796	50.0	49.7	
88 Toluene	92	7.874	7.875	-0.001	99	169345	10.0	9.62	
90 Ethyl methacrylate	69	8.112	8.109	0.003	87	81137	10.0	9.90	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	96	94364	10.0	9.85	
93 1,1,2-Trichloroethane	83	8.321	8.321	0.000	91	53998	10.0	10.0	
94 Tetrachloroethene	166	8.411	8.411	0.000	97	83886	10.0	9.55	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	98	104828	10.0	9.51	
96 2-Hexanone	43	8.505	8.505	0.000	95	270869	50.0	48.4	
98 Chlorodibromomethane	129	8.743	8.743	0.000	89	75089	10.0	9.56	
101 Ethylene Dibromide	107	8.874	8.875	0.000	99	75012	10.0	9.49	
103 Chlorobenzene	112	9.331	9.331	0.000	98	204368	10.0	9.57	
104 Ethylbenzene	91	9.392	9.392	0.000	97	309539	10.0	9.60	
105 1,1,1,2-Tetrachloroethane	131	9.408	9.411	-0.003	94	78022	10.0	9.80	
106 m-Xylene & p-Xylene	106	9.508	9.508	0.000	97	126864	10.0	9.58	
107 o-Xylene	106	9.948	9.945	0.003	95	131511	10.0	9.89	
109 Styrene	104	9.971	9.971	0.000	94	210013	10.0	9.78	
110 Bromoform	173	10.251	10.251	0.000	97	55992	10.0	9.38	
111 Isopropylbenzene	105	10.305	10.302	0.003	95	331419	10.0	9.76	
112 1,1,2,2-Tetrachloroethane	83	10.685	10.682	0.003	97	105290	10.0	9.87	
113 Bromobenzene	156	10.688	10.688	0.000	86	99899	10.0	9.57	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	368892	10.0	9.73	
115 trans-1,4-Dichloro-2-butene	53	10.726	10.727	-0.001	70	26342	10.0	9.73	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	85	39097	10.0	9.91	
117 2-Chlorotoluene	126	10.845	10.846	-0.001	98	87673	10.0	9.78	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	284901	10.0	9.73	
119 4-Chlorotoluene	91	10.948	10.948	0.000	96	232425	10.0	9.76	
120 tert-Butylbenzene	134	11.189	11.190	-0.001	91	65320	10.0	9.43	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	298214	10.0	9.94	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.392	11.389	0.003	94	341370	10.0	9.56	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	97	324202	10.0	9.79	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	97	196377	10.0	9.89	
126 1,4-Dichlorobenzene	146	11.636	11.636	0.000	97	197966	10.0	9.65	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	260172	10.0	9.38	
128 1,2-Dichlorobenzene	146	11.977	11.977	0.000	99	192877	10.0	9.66	
129 1,2-Dibromo-3-Chloropropane	75	12.656	12.656	0.000	91	22877	10.0	10.1	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	94	151115	10.0	9.95	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	97	62093	10.0	9.57	
132 Naphthalene	128	13.556	13.559	-0.003	96	423771	10.0	10.0	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	142829	10.0	9.80	
S 142 Total BTEX	1				0			48.3	
S 144 1,3-Dichloropropene, Total	1				0			19.6	
S 141 1,2-Dichloroethene, Total	1				0			19.4	
S 143 Xylenes, Total	1				0			19.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	5.00	Units: uL	
GAS CORP mix_00484	Amount Added:	5.00	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:41 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16088.D

Injection Date: 08-Dec-2021 17:42:35 Instrument ID: HP5977L

Lims ID: IC 4

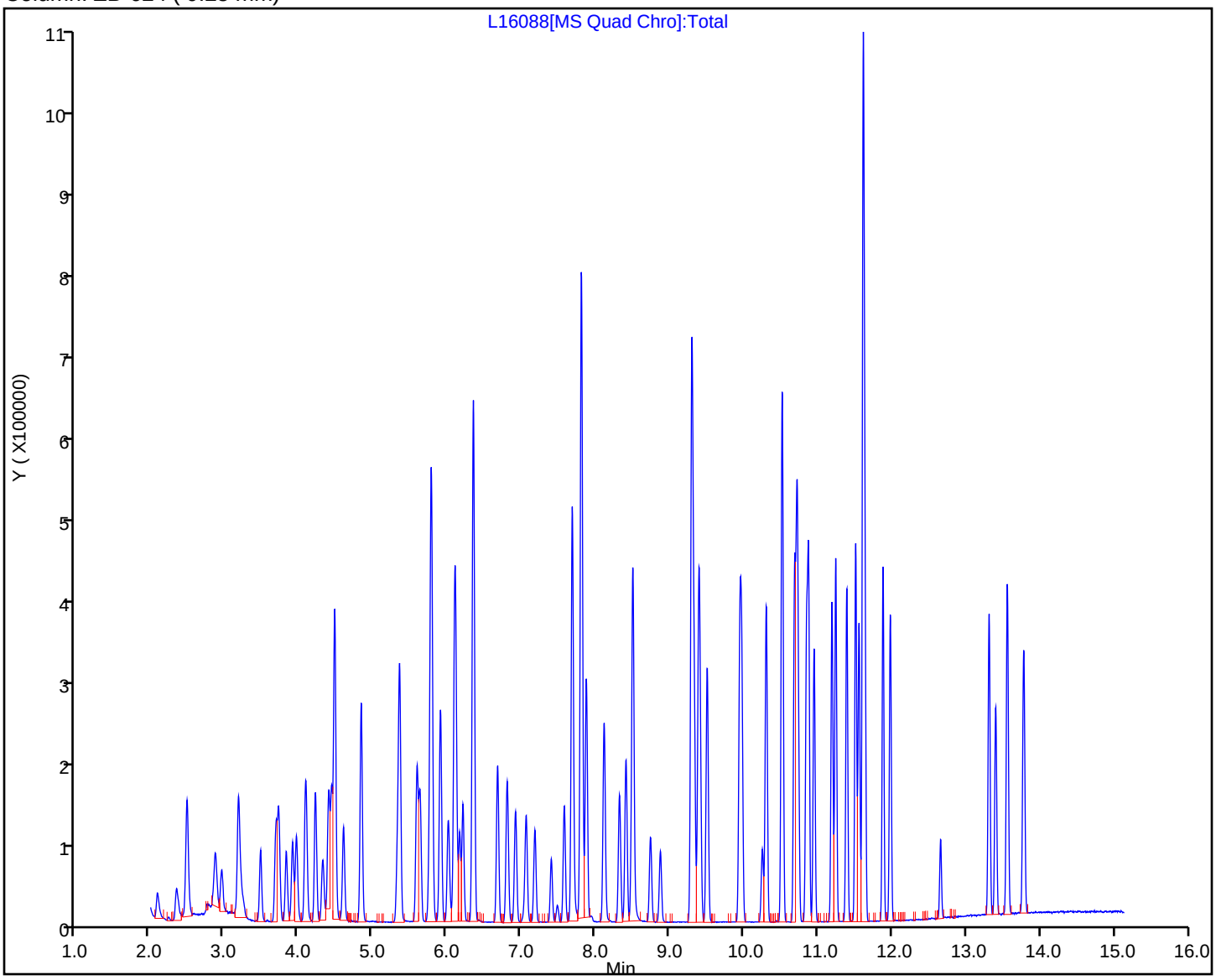
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 12

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

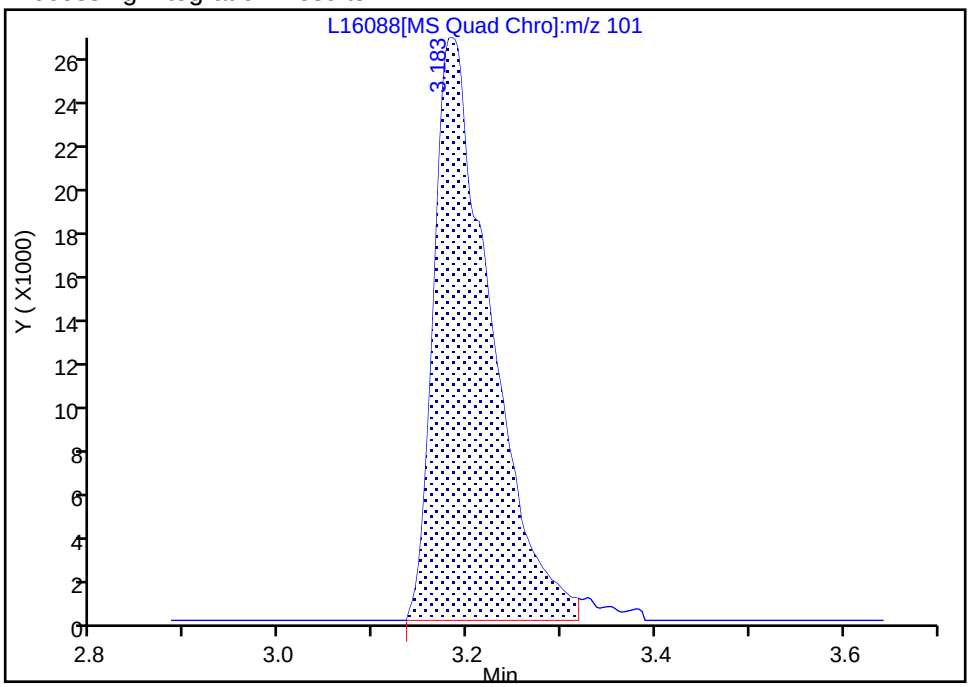
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16088.D
Injection Date: 08-Dec-2021 17:42:35 Instrument ID: HP5977L
Lims ID: IC 4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

21 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

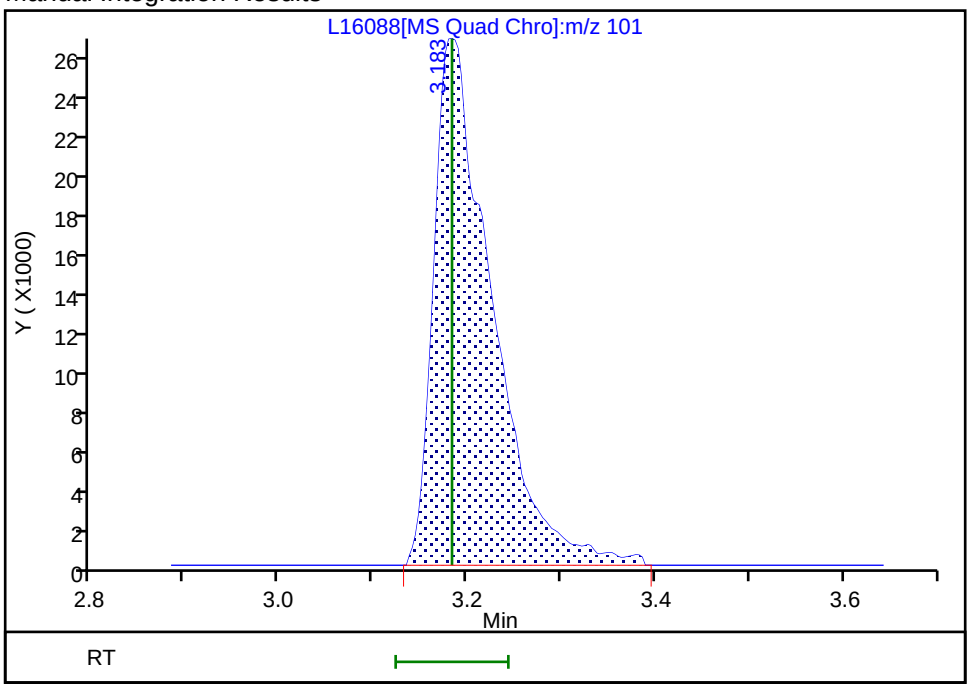
Processing Integration Results

RT: 3.18
Area: 110243
Amount: 10.211985
Amount Units: ug/L



Manual Integration Results

RT: 3.18
Area: 112701
Amount: 9.333352
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:04:39
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

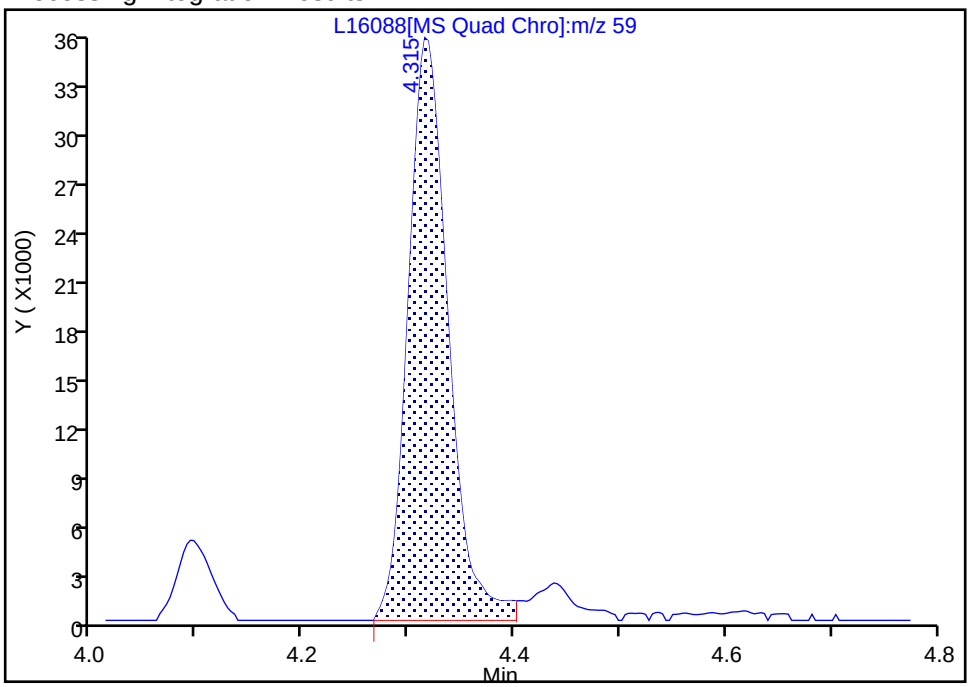
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16088.D
Injection Date: 08-Dec-2021 17:42:35 Instrument ID: HP5977L
Lims ID: IC 4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

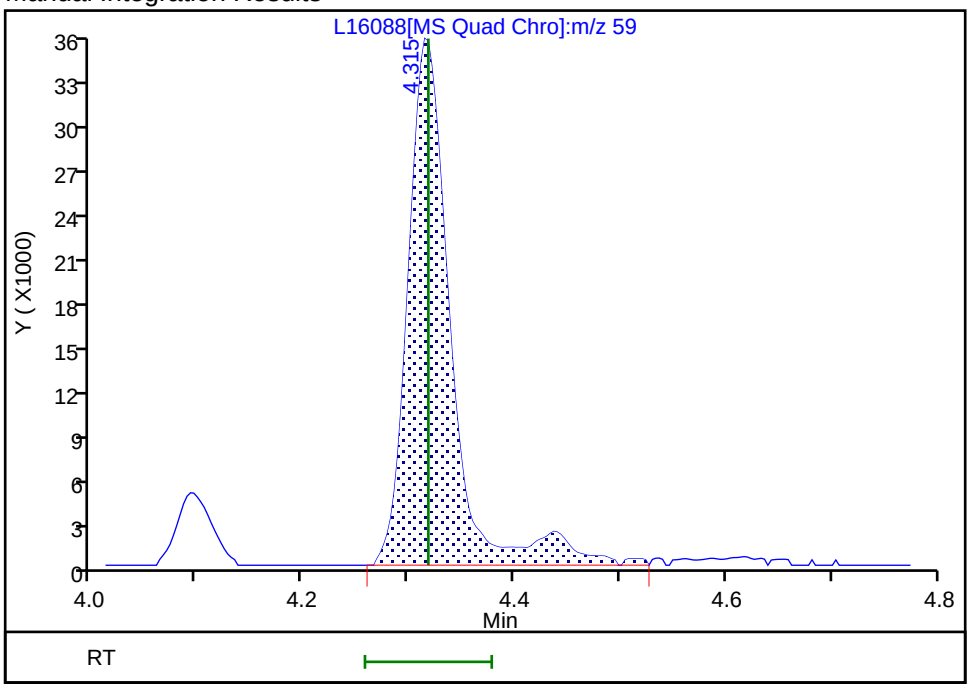
Processing Integration Results

RT: 4.31
Area: 93984
Amount: 88.208958
Amount Units: ug/L



Manual Integration Results

RT: 4.31
Area: 101267
Amount: 92.515860
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:53:04
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

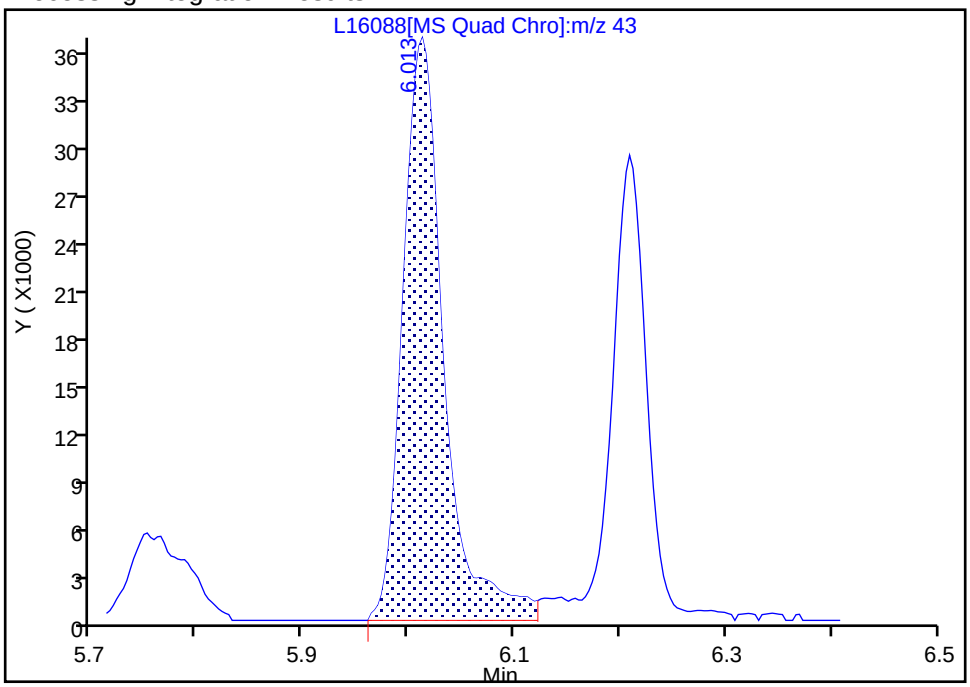
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16088.D
Injection Date: 08-Dec-2021 17:42:35 Instrument ID: HP5977L
Lims ID: IC 4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

69 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

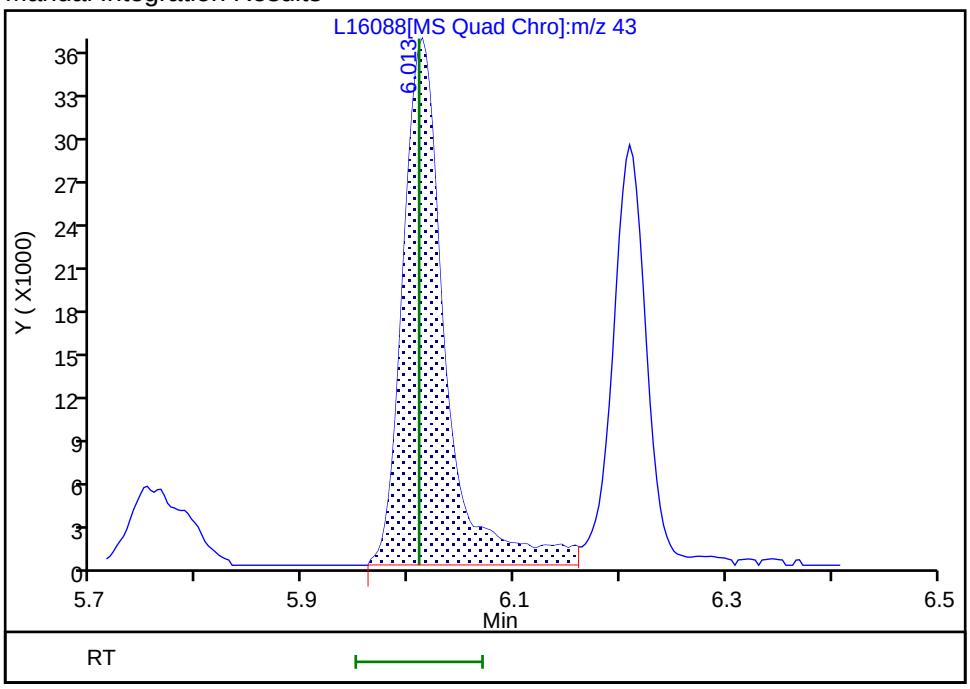
Processing Integration Results

RT: 6.01
Area: 97599
Amount: 228.1627
Amount Units: ug/L



Manual Integration Results

RT: 6.01
Area: 100471
Amount: 232.2306
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:06:01
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

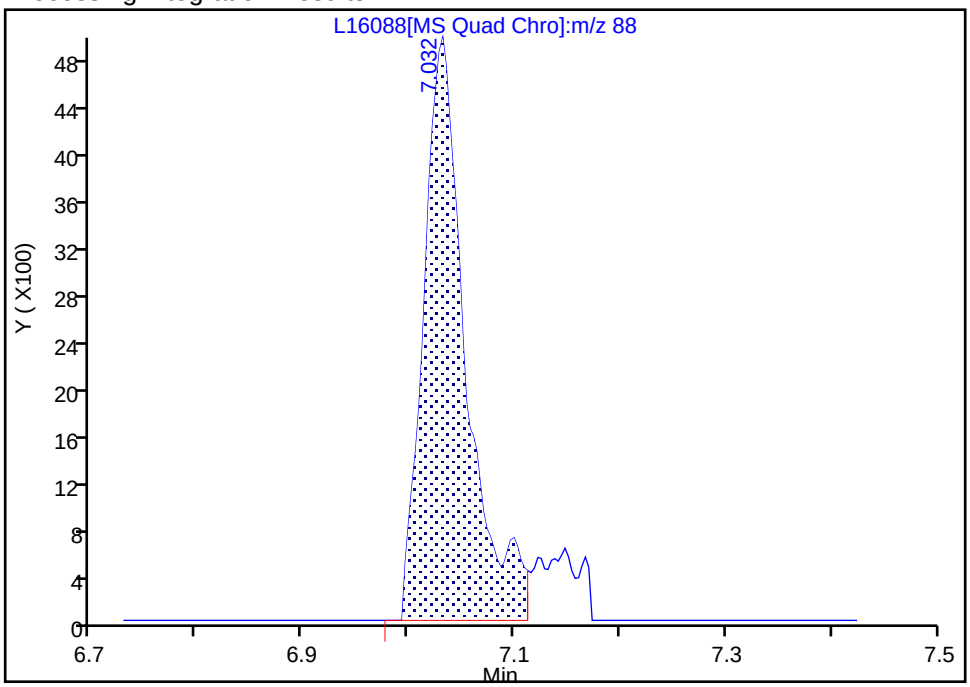
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16088.D
Injection Date: 08-Dec-2021 17:42:35 Instrument ID: HP5977L
Lims ID: IC 4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

81 1,4-Dioxane, CAS: 123-91-1

Signal: 1

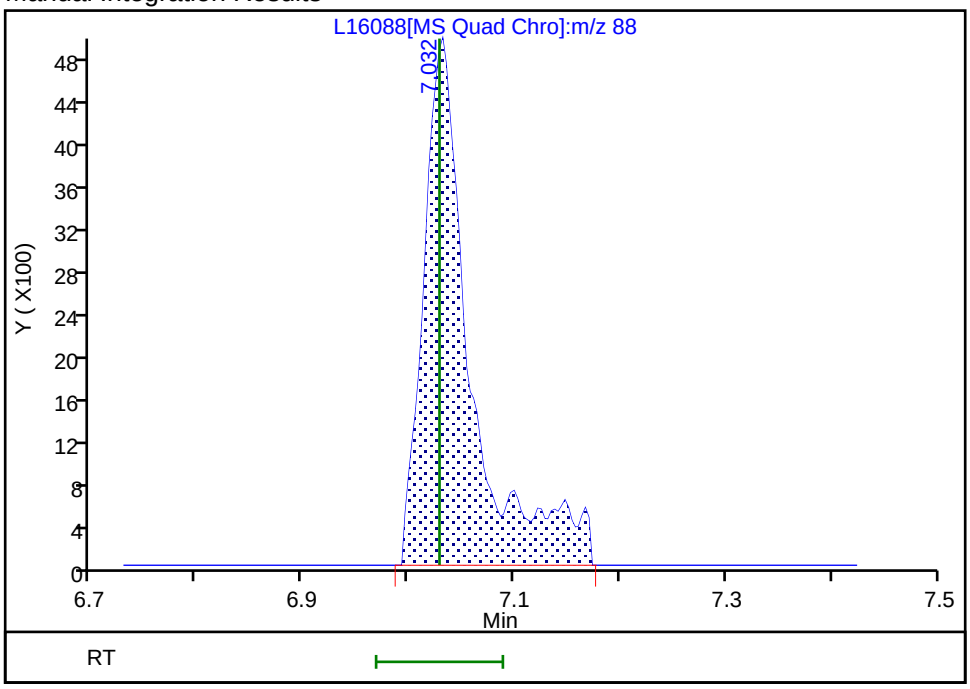
Processing Integration Results

RT: 7.03
Area: 13847
Amount: 182.8565
Amount Units: ug/L



Manual Integration Results

RT: 7.03
Area: 15523
Amount: 191.7686
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:06:10
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16089.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 08-Dec-2021 18:04:28 ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0102927-013
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:46 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 10:25:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	126368	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	590112	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	92	375982	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.785	5.785	0.000	93	213579	25.0	24.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	98	216043	25.0	24.5	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	93	696601	25.0	24.5	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	93	268547	25.0	24.7	
10 Dichlorodifluoromethane	85	2.090	2.090	0.000	99	171495	25.0	23.7	
13 Chloromethane	50	2.347	2.347	0.000	99	172698	25.0	24.1	M
14 Vinyl chloride	62	2.476	2.476	0.000	98	198074	25.0	25.6	
15 Butadiene	54	2.492	2.492	0.000	91	181017	25.0	26.4	
18 Bromomethane	94	2.878	2.878	0.000	92	197367	25.0	25.1	M
19 Chloroethane	64	2.955	2.955	0.000	99	149396	25.0	24.2	
21 Trichlorofluoromethane	101	3.183	3.183	0.000	95	312552	25.0	24.0	
20 Dichlorofluoromethane	67	3.187	3.187	0.000	96	300853	25.0	23.8	
26 Ethyl ether	59	3.479	3.479	0.000	88	140381	25.0	22.9	
28 Acrolein	56	3.678	3.678	0.000	100	140421	125.0	118.3	
29 112TCTFE	101	3.704	3.704	0.000	90	172883	25.0	29.9	
30 1,1-Dichloroethene	96	3.730	3.730	0.000	96	159162	25.0	26.2	
31 Acetone	43	3.826	3.826	0.000	100	340016	125.0	123.4	
33 Iodomethane	142	3.913	3.913	0.000	100	347479	25.0	24.1	
35 Carbon disulfide	76	3.965	3.965	0.000	99	513145	25.0	25.6	
37 3-Chloro-1-propene	41	4.080	4.080	0.000	86	213426	25.0	23.9	
38 Methyl acetate	43	4.100	4.100	0.000	97	326667	50.0	47.3	
39 Methylene Chloride	84	4.222	4.222	0.000	87	200075	25.0	23.9	
40 2-Methyl-2-propanol	59	4.318	4.318	0.000	97	292330	250.0	259.4	M
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	94	492071	25.0	24.1	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	94	195615	25.0	24.6	
44 Acrylonitrile	53	4.479	4.479	0.000	99	867289	250.0	239.3	
47 Hexane	57	4.598	4.598	0.000	91	209273	25.0	29.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	96	287840	25.0	24.2	
49 Vinyl acetate	43	4.836	4.836	0.000	97	711462	50.0	51.0	
56 2,2-Dichloropropane	77	5.331	5.331	0.000	91	199187	25.0	25.1	
57 2-Butanone (MEK)	43	5.357	5.357	0.000	99	539142	125.0	124.8	
58 cis-1,2-Dichloroethene	96	5.357	5.357	0.000	85	212555	25.0	24.4	
60 Chlorobromomethane	128	5.585	5.585	0.000	83	124933	25.0	24.7	
61 Tetrahydrofuran	42	5.601	5.601	0.000	89	143876	50.0	50.1	
62 Chloroform	83	5.630	5.630	0.000	93	332269	25.0	23.2	
64 1,1,1-Trichloroethane	97	5.772	5.772	0.000	97	298359	25.0	26.3	
65 Cyclohexane	56	5.791	5.791	0.000	87	243053	25.0	29.8	
66 Carbon tetrachloride	117	5.907	5.907	0.000	96	270958	25.0	27.0	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	96	232876	25.0	26.7	
69 Isobutyl alcohol	43	6.010	6.010	0.000	90	295488	625.0	663.5	
70 Benzene	78	6.113	6.113	0.000	97	668155	25.0	24.4	
72 1,2-Dichloroethane	62	6.167	6.167	0.000	97	245504	25.0	23.7	
73 n-Heptane	43	6.209	6.209	0.000	87	194722	25.0	28.1	
75 Trichloroethene	95	6.678	6.678	0.000	94	193243	25.0	25.0	
76 Methylcyclohexane	83	6.807	6.807	0.000	87	296071	25.0	29.0	
77 1,2-Dichloropropane	63	6.920	6.920	0.000	93	151633	25.0	25.0	
81 1,4-Dioxane	88	7.029	7.029	0.000	89	46298	500.0	546.9	
82 Dibromomethane	93	7.064	7.064	0.000	89	135254	25.0	24.5	
83 Dichlorobromomethane	83	7.180	7.180	0.000	98	237083	25.0	24.6	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	94	115954	25.0	25.6	
85 cis-1,3-Dichloropropene	75	7.579	7.579	0.000	96	267989	25.0	25.3	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.685	0.000	95	1085191	125.0	126.7	
88 Toluene	92	7.875	7.875	0.000	98	441443	25.0	24.0	
90 Ethyl methacrylate	69	8.109	8.109	0.000	88	233780	25.0	27.3	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	97	260512	25.0	26.0	
93 1,1,2-Trichloroethane	83	8.321	8.321	0.000	90	137478	25.0	24.4	
94 Tetrachloroethene	166	8.411	8.411	0.000	98	238489	25.0	26.0	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	96	278100	25.0	24.1	
96 2-Hexanone	43	8.505	8.505	0.000	95	749542	125.0	128.1	
98 Chlorodibromomethane	129	8.743	8.743	0.000	93	209981	25.0	25.6	
101 Ethylene Dibromide	107	8.875	8.875	0.000	98	202512	25.0	24.5	
103 Chlorobenzene	112	9.331	9.331	0.000	98	536478	25.0	24.0	
104 Ethylbenzene	91	9.392	9.392	0.000	97	838243	25.0	24.8	
105 1,1,1,2-Tetrachloroethane	131	9.411	9.411	0.000	95	217698	25.0	26.2	
106 m-Xylene & p-Xylene	106	9.508	9.508	0.000	98	344209	25.0	24.8	
107 o-Xylene	106	9.945	9.945	0.000	95	348275	25.0	25.0	
109 Styrene	104	9.971	9.971	0.000	94	576766	25.0	25.7	
110 Bromoform	173	10.251	10.251	0.000	97	162119	25.0	26.0	
111 Isopropylbenzene	105	10.302	10.302	0.000	95	911009	25.0	24.3	
112 1,1,2,2-Tetrachloroethane	83	10.682	10.682	0.000	97	276544	25.0	23.5	
113 Bromobenzene	156	10.688	10.688	0.000	85	264604	25.0	23.0	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	1019297	25.0	24.4	
115 trans-1,4-Dichloro-2-butene	53	10.727	10.727	0.000	76	73938	25.0	24.7	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	87	101758	25.0	23.4	
117 2-Chlorotoluene	126	10.846	10.846	0.000	98	238130	25.0	24.1	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	772899	25.0	23.9	
119 4-Chlorotoluene	91	10.948	10.948	0.000	96	619127	25.0	23.6	
120 tert-Butylbenzene	134	11.190	11.190	0.000	90	188282	25.0	24.6	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	807348	25.0	24.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.389	11.389	0.000	93	1004684	25.0	25.5	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	97	918978	25.0	25.1	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	98	514232	25.0	23.5	
126 1,4-Dichlorobenzene	146	11.636	11.636	0.000	97	518353	25.0	22.9	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	760057	25.0	24.8	
128 1,2-Dichlorobenzene	146	11.977	11.977	0.000	99	507837	25.0	23.0	
129 1,2-Dibromo-3-Chloropropane	75	12.656	12.656	0.000	92	62285	25.0	24.8	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	94	397540	25.0	23.7	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	98	180681	25.0	25.2	
132 Naphthalene	128	13.559	13.559	0.000	96	1135018	25.0	24.3	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	387013	25.0	24.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	12.50	Units: uL	
GAS CORP mix_00484	Amount Added:	12.50	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:47 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16089.D

Injection Date: 08-Dec-2021 18:04:28 Instrument ID: HP5977L

Lims ID: ICIS 5

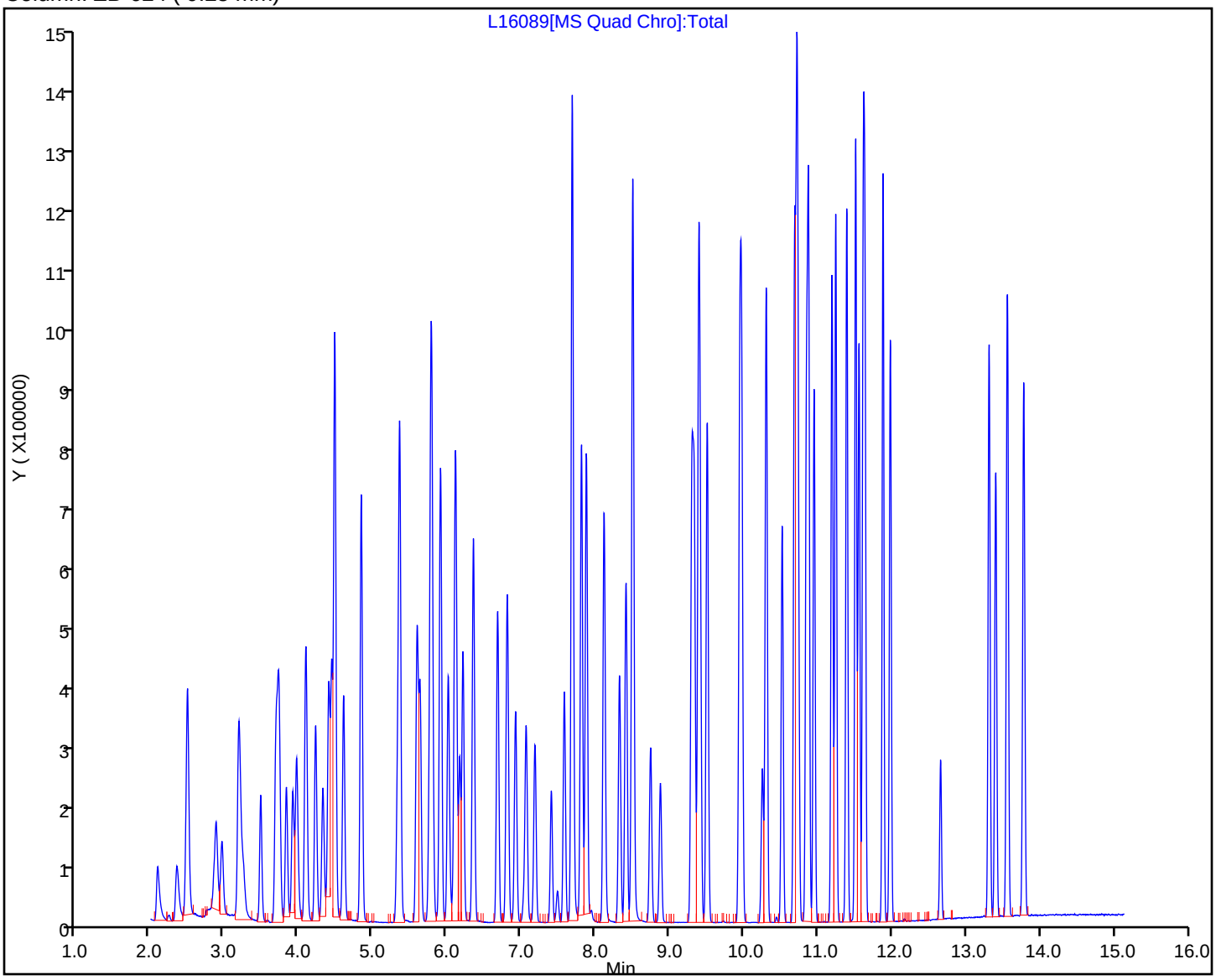
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 13

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

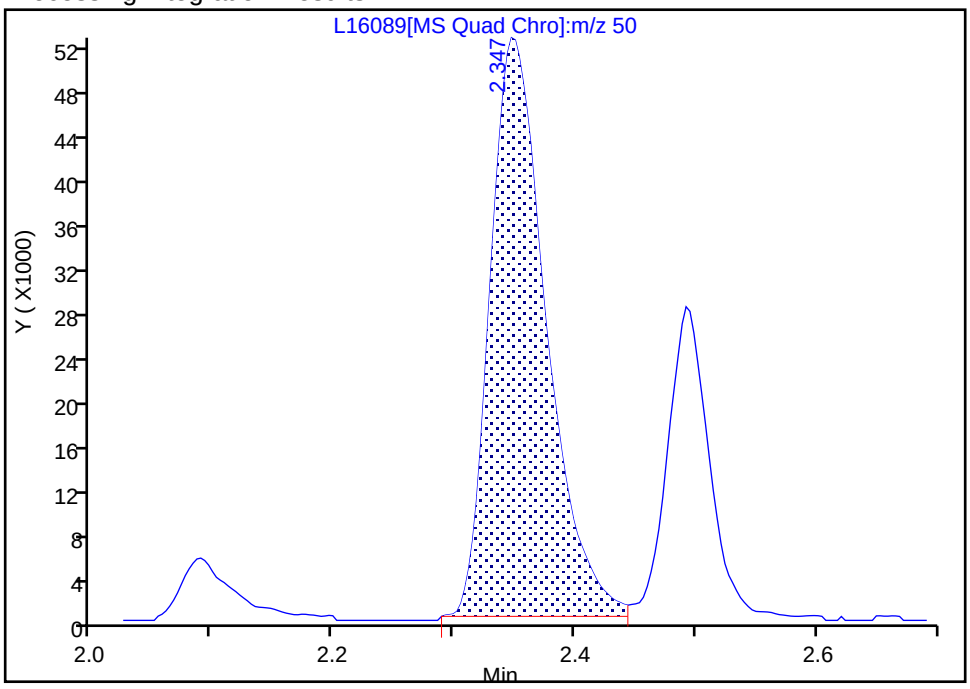
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16089.D
Injection Date: 08-Dec-2021 18:04:28 Instrument ID: HP5977L
Lims ID: ICIS 5
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

13 Chloromethane, CAS: 74-87-3

Signal: 1

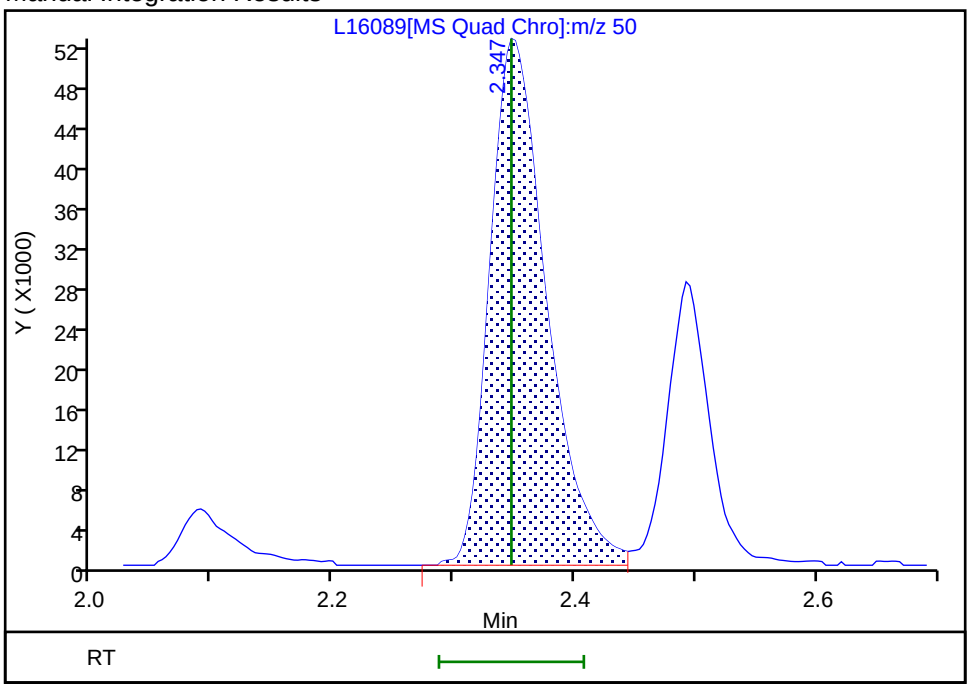
Processing Integration Results

RT: 2.35
Area: 169281
Amount: 23.716965
Amount Units: ug/L



Manual Integration Results

RT: 2.35
Area: 172698
Amount: 24.129691
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:33:03
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

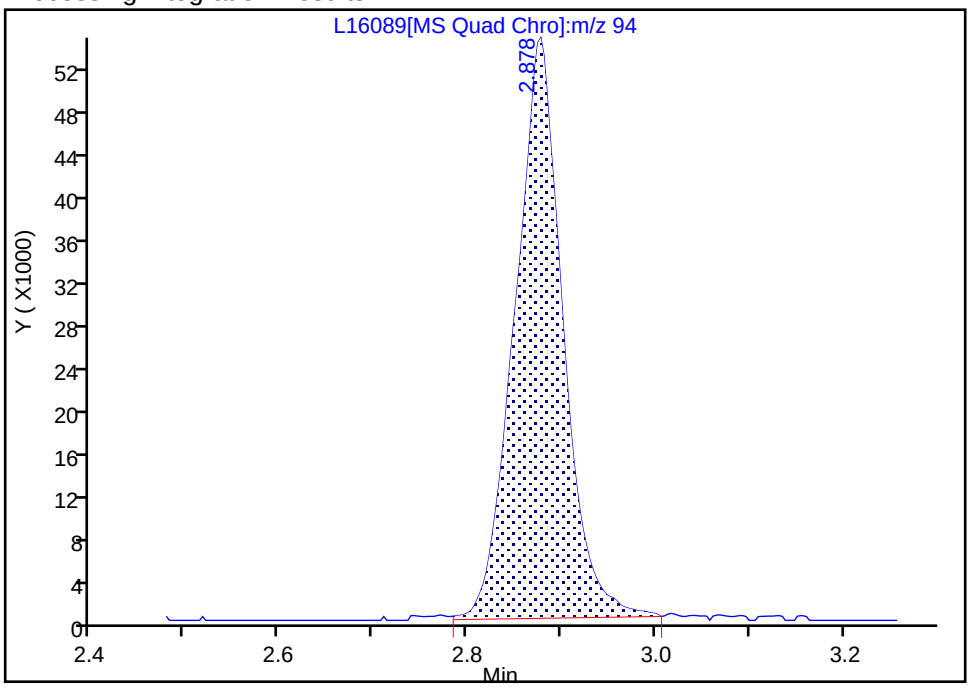
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16089.D
Injection Date: 08-Dec-2021 18:04:28 Instrument ID: HP5977L
Lims ID: ICIS 5
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

18 Bromomethane, CAS: 74-83-9

Signal: 1

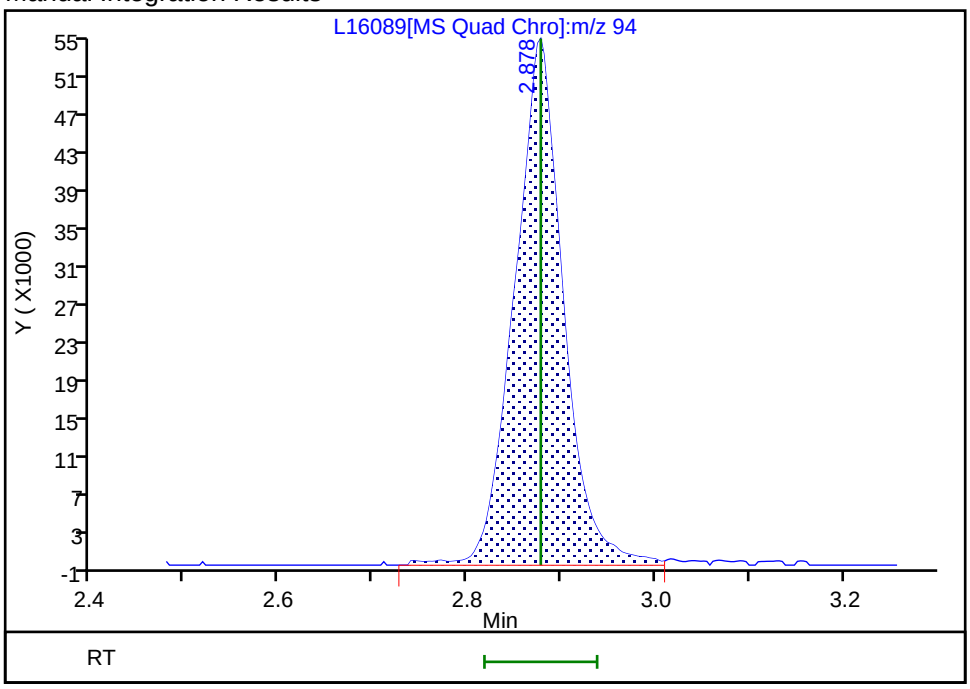
Processing Integration Results

RT: 2.88
Area: 193039
Amount: 22.932678
Amount Units: ug/L



Manual Integration Results

RT: 2.88
Area: 197367
Amount: 25.051688
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:33:35
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

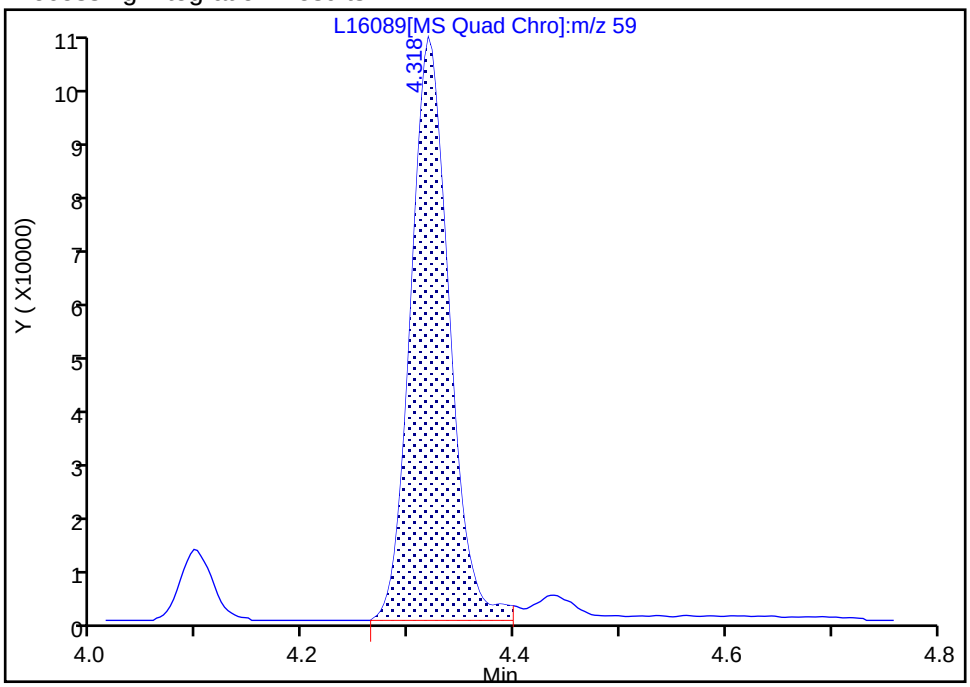
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16089.D				
Injection Date:	08-Dec-2021 18:04:28	Instrument ID:	HP5977L		
Lims ID:	ICIS 5				
Client ID:					
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

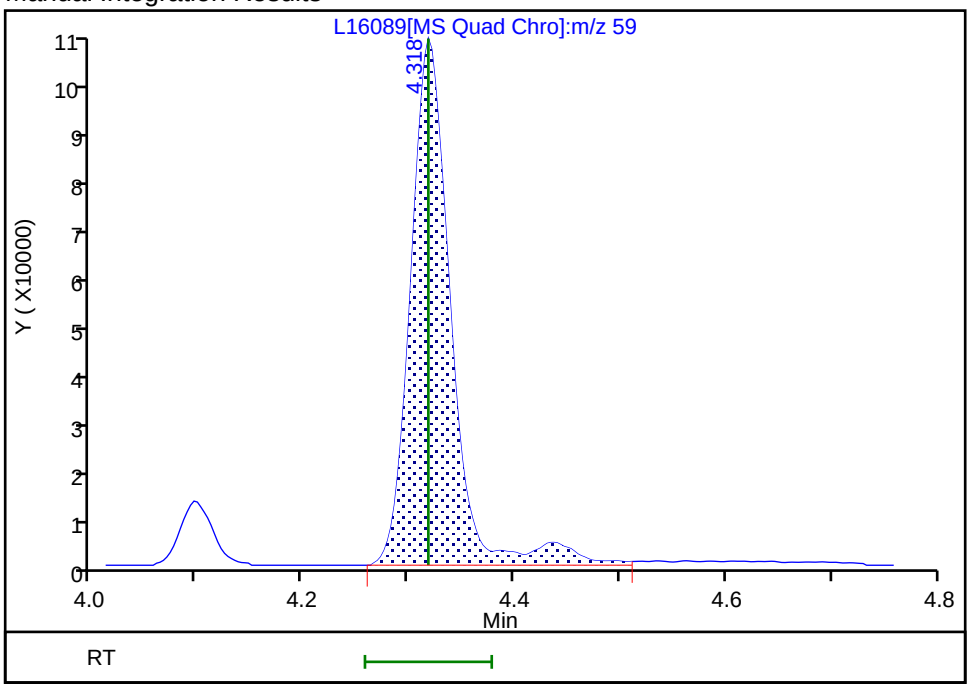
Processing Integration Results

RT: 4.32
Area: 276896
Amount: 256.0529
Amount Units: ug/L



Manual Integration Results

RT: 4.32
Area: 292330
Amount: 259.4469
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:34:10

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16090.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Dec-2021 18:25:51 ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0102927-014
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:51 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 11:01:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	129807	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	82	614723	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	92	389092	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	90	227304	25.0	25.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	94	222357	25.0	24.5	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	93	712680	25.0	24.0	
$ 7 4-Bromofluorobenzene (Surr)	174	10.517	10.518	-0.001	93	280297	25.0	24.7	
10 Dichlorodifluoromethane	85	2.087	2.090	-0.003	99	391553	50.0	51.8	
13 Chloromethane	50	2.344	2.347	-0.003	99	384163	50.0	52.3	
14 Vinyl chloride	62	2.472	2.476	-0.004	98	453789	50.0	57.2	
15 Butadiene	54	2.489	2.492	-0.003	92	409828	50.0	58.1	
18 Bromomethane	94	2.868	2.878	-0.010	93	473102	50.0	58.5	
19 Chloroethane	64	2.955	2.955	0.000	99	344892	50.0	54.3	
21 Trichlorofluoromethane	101	3.180	3.183	-0.003	61	713067	50.0	52.5	
20 Dichlorofluoromethane	67	3.180	3.187	-0.007	96	720344	50.0	55.5	
26 Ethyl ether	59	3.479	3.479	0.000	89	296295	50.0	47.1	
28 Acrolein	56	3.678	3.678	0.000	99	304111	250.0	249.4	
29 112TCTFE	101	3.697	3.704	-0.007	89	337454	50.0	56.8	
30 1,1-Dichloroethene	96	3.726	3.730	-0.004	95	336791	50.0	53.9	
31 Acetone	43	3.823	3.826	-0.003	100	679118	250.0	240.0	
33 Iodomethane	142	3.910	3.913	-0.003	99	758083	50.0	51.2	
35 Carbon disulfide	76	3.964	3.965	-0.001	99	1094564	50.0	53.2	
37 3-Chloro-1-propene	41	4.080	4.080	0.000	87	462923	50.0	50.4	
38 Methyl acetate	43	4.096	4.100	-0.004	96	689089	100.0	97.2	
39 Methylene Chloride	84	4.218	4.222	-0.004	86	415975	50.0	50.5	
40 2-Methyl-2-propanol	59	4.318	4.318	0.000	97	563023	500.0	486.5	M
41 Methyl tert-butyl ether	73	4.398	4.399	-0.001	94	1080760	50.0	51.6	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	93	415916	50.0	50.9	
44 Acrylonitrile	53	4.479	4.479	0.000	98	1803731	500.0	484.5	
47 Hexane	57	4.598	4.598	0.000	91	411549	50.0	55.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	95	624657	50.0	51.1	
49 Vinyl acetate	43	4.836	4.836	0.000	97	1571335	100.0	109.6	
56 2,2-Dichloropropane	77	5.331	5.331	0.000	90	453434	50.0	55.5	
57 2-Butanone (MEK)	43	5.357	5.357	0.000	100	1103055	250.0	248.6	
58 cis-1,2-Dichloroethene	96	5.353	5.357	-0.004	84	460187	50.0	51.5	
60 Chlorobromomethane	128	5.585	5.585	0.000	84	273293	50.0	52.6	
61 Tetrahydrofuran	42	5.598	5.601	-0.003	83	304562	100.0	103.2	
62 Chloroform	83	5.630	5.630	0.000	93	717239	50.0	48.7	
64 1,1,1-Trichloroethane	97	5.771	5.772	-0.001	97	634306	50.0	54.4	
65 Cyclohexane	56	5.791	5.791	0.000	86	488876	50.0	58.4	
66 Carbon tetrachloride	117	5.906	5.907	-0.001	96	578104	50.0	56.1	
67 1,1-Dichloropropene	75	5.906	5.907	-0.001	93	482996	50.0	54.0	
69 Isobutyl alcohol	43	6.009	6.010	-0.001	92	593865	1250.0	1298.2	
70 Benzene	78	6.112	6.113	0.000	96	1417541	50.0	50.3	
72 1,2-Dichloroethane	62	6.164	6.167	-0.003	98	523004	50.0	49.1	
73 n-Heptane	43	6.209	6.209	0.000	87	391011	50.0	54.9	
75 Trichloroethene	95	6.678	6.678	0.000	94	411926	50.0	51.9	
76 Methylcyclohexane	83	6.807	6.807	0.000	85	600899	50.0	57.2	
77 1,2-Dichloropropane	63	6.919	6.920	-0.001	93	322111	50.0	51.7	
81 1,4-Dioxane	88	7.032	7.029	0.003	89	87300	1000.0	989.9	
82 Dibromomethane	93	7.061	7.064	-0.003	89	284321	50.0	50.1	
83 Dichlorobromomethane	83	7.180	7.180	0.000	99	523747	50.0	53.0	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	93	247452	50.0	53.2	
85 cis-1,3-Dichloropropene	75	7.578	7.579	-0.001	95	592031	50.0	54.5	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.685	0.000	95	2341970	250.0	262.5	
88 Toluene	92	7.874	7.875	-0.001	98	955518	50.0	49.8	
90 Ethyl methacrylate	69	8.109	8.109	0.000	86	515385	50.0	57.7	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	96	566961	50.0	54.3	
93 1,1,2-Trichloroethane	83	8.321	8.321	0.000	91	296845	50.0	50.5	
94 Tetrachloroethene	166	8.411	8.411	0.000	98	505886	50.0	52.9	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	96	583952	50.0	48.6	
96 2-Hexanone	43	8.504	8.505	-0.001	96	1611969	250.0	264.5	
98 Chlorodibromomethane	129	8.742	8.743	-0.001	89	472429	50.0	55.2	
101 Ethylene Dibromide	107	8.874	8.875	0.000	99	434494	50.0	50.4	
103 Chlorobenzene	112	9.331	9.331	0.000	98	1161917	50.0	50.0	
104 Ethylbenzene	91	9.392	9.392	0.000	97	1803711	50.0	51.3	
105 1,1,1,2-Tetrachloroethane	131	9.411	9.411	0.000	95	478617	50.0	55.2	
106 m-Xylene & p-Xylene	106	9.508	9.508	0.000	97	750219	50.0	52.0	
107 o-Xylene	106	9.948	9.945	0.003	95	760907	50.0	52.5	
109 Styrene	104	9.971	9.971	0.000	95	1270103	50.0	54.3	
110 Bromoform	173	10.250	10.251	-0.001	98	385565	50.0	59.3	
111 Isopropylbenzene	105	10.305	10.302	0.003	95	2000331	50.0	51.6	
112 1,1,2,2-Tetrachloroethane	83	10.684	10.682	0.002	97	589538	50.0	48.4	
113 Bromobenzene	156	10.688	10.688	0.000	92	585398	50.0	49.1	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	2222923	50.0	51.3	
115 trans-1,4-Dichloro-2-butene	53	10.723	10.727	-0.004	77	166720	50.0	53.9	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	86	219371	50.0	48.7	
117 2-Chlorotoluene	126	10.848	10.846	0.002	98	516833	50.0	50.5	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	1687287	50.0	50.4	
119 4-Chlorotoluene	91	10.948	10.948	0.000	96	1335365	50.0	49.1	
120 tert-Butylbenzene	134	11.189	11.190	-0.001	90	413424	50.0	52.2	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	97	1756563	50.0	51.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.392	11.389	0.003	93	2150338	50.0	52.7	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	96	1989154	50.0	52.6	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	98	1100127	50.0	48.5	
126 1,4-Dichlorobenzene	146	11.636	11.636	0.000	97	1123422	50.0	47.9	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	1653316	50.0	52.2	
128 1,2-Dichlorobenzene	146	11.980	11.977	0.003	99	1093310	50.0	47.9	
129 1,2-Dibromo-3-Chloropropane	75	12.655	12.656	-0.001	93	142150	50.0	54.7	
130 1,2,4-Trichlorobenzene	180	13.311	13.312	-0.001	94	855387	50.0	49.3	
131 Hexachlorobutadiene	225	13.401	13.402	-0.001	98	382465	50.0	51.6	
132 Naphthalene	128	13.559	13.559	0.000	96	2435249	50.0	50.5	
133 1,2,3-Trichlorobenzene	180	13.781	13.778	0.003	96	821050	50.0	49.3	
S 142 Total BTEX	1				0			255.9	
S 144 1,3-Dichloropropene, Total	1				0			108.8	
S 141 1,2-Dichloroethene, Total	1				0			102.4	
S 143 Xylenes, Total	1				0			104.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	25.00	Units: uL	
GAS CORP mix_00484	Amount Added:	25.00	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:52 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16090.D

Injection Date: 08-Dec-2021 18:25:51 Instrument ID: HP5977L

Lims ID: IC 6

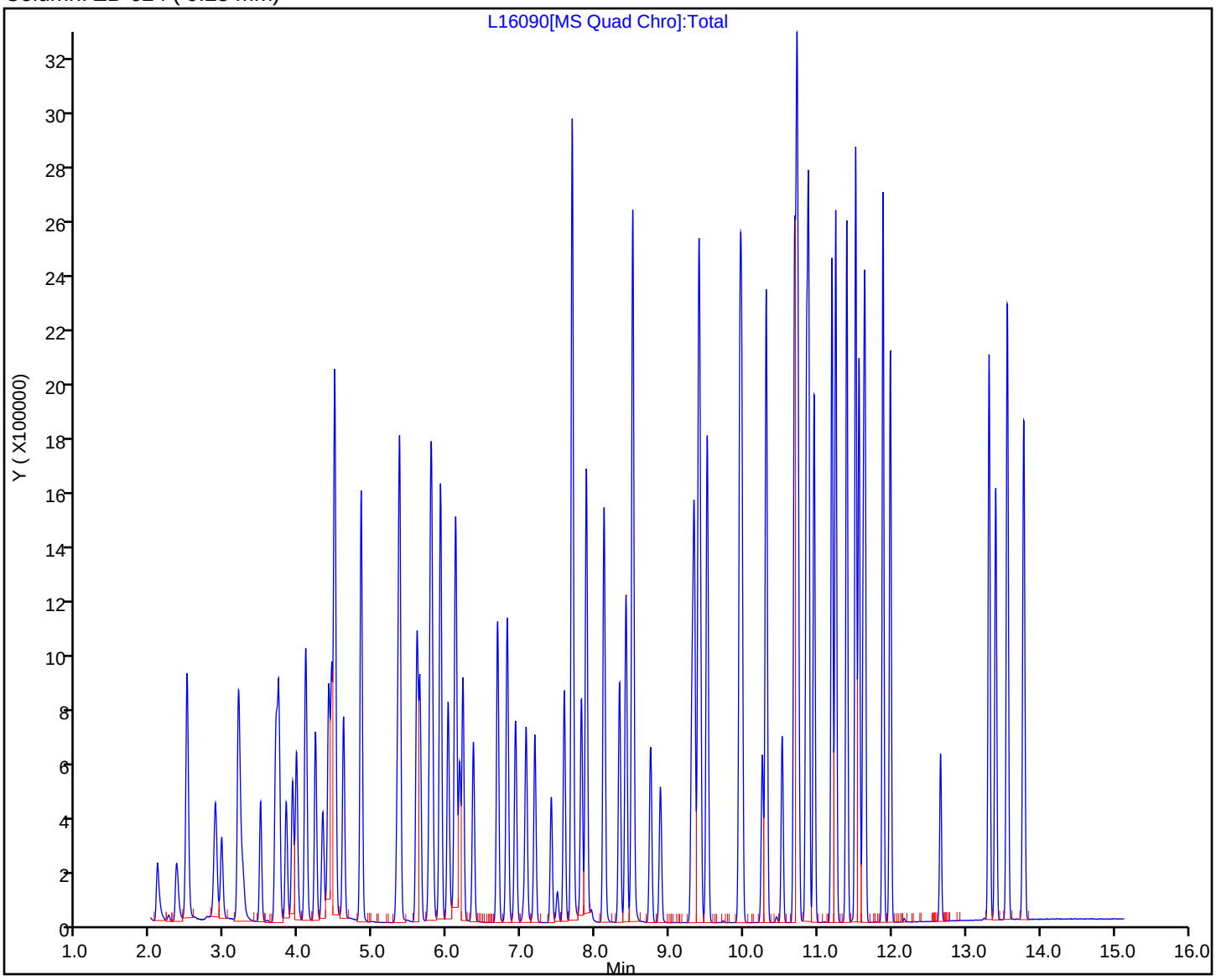
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 14

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

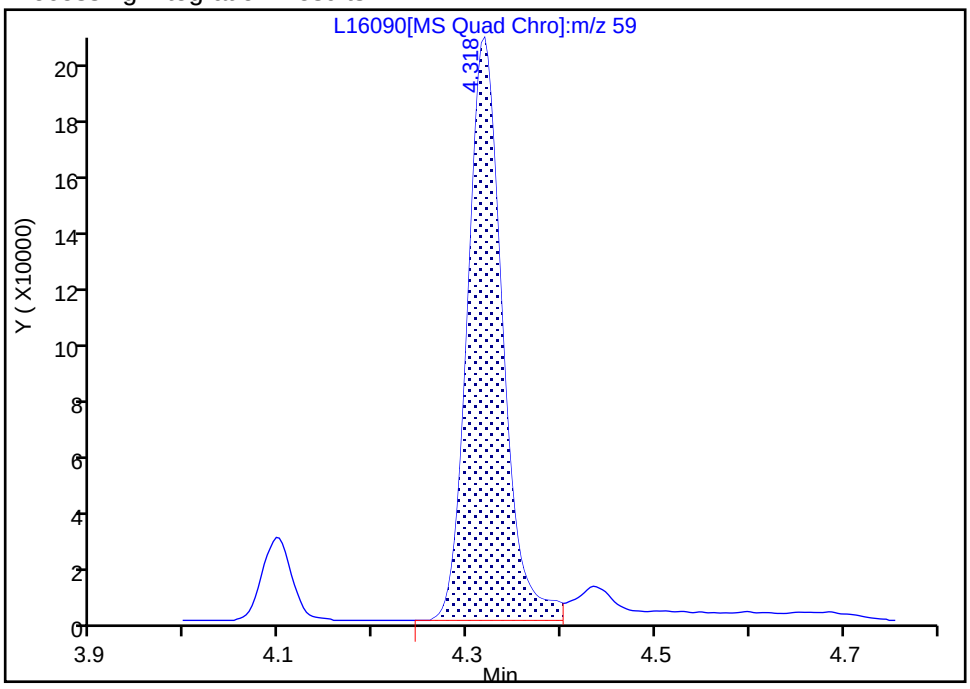
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16090.D
Injection Date: 08-Dec-2021 18:25:51 Instrument ID: HP5977L
Lims ID: IC 6
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

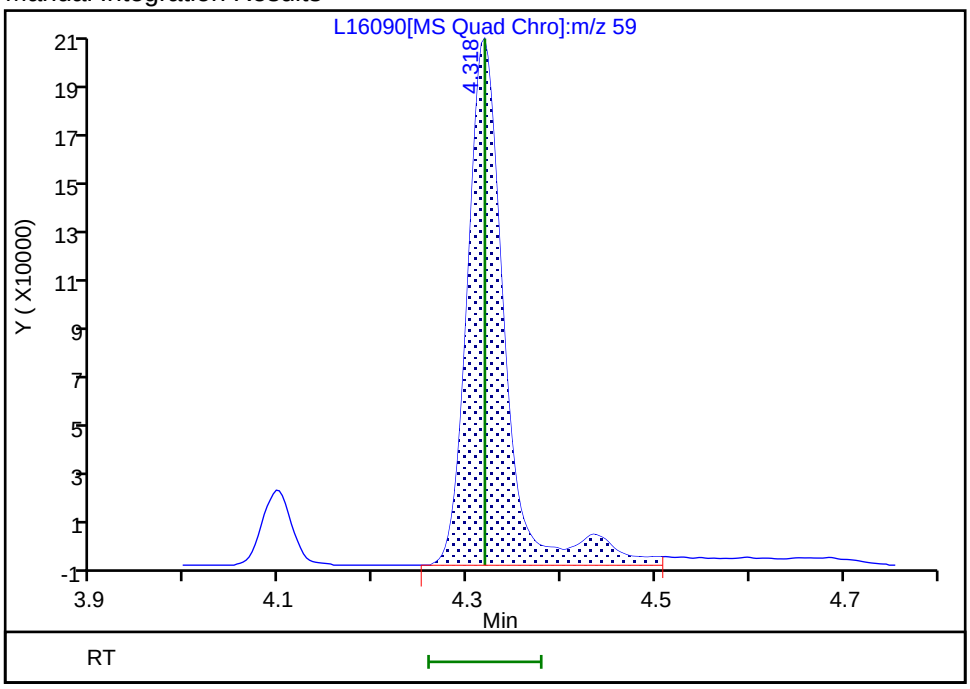
Processing Integration Results

RT: 4.32
Area: 521686
Amount: 459.1333
Amount Units: ug/L



Manual Integration Results

RT: 4.32
Area: 563023
Amount: 486.4523
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 11:00:31
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16091.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 08-Dec-2021 18:47:41 ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0102927-015
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:56 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 11:02:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	132241	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	82	624818	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	92	376113	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.785	5.785	0.000	92	227988	25.0	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.093	6.096	-0.003	96	229503	25.0	24.9	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	92	754204	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	10.521	10.518	0.003	92	304901	25.0	26.5	
10 Dichlorodifluoromethane	85	2.087	2.090	-0.003	99	784419	100.0	101.1	
13 Chloromethane	50	2.347	2.347	0.000	99	736687	100.0	98.4	
14 Vinyl chloride	62	2.476	2.476	0.000	98	866811	100.0	107.3	
15 Butadiene	54	2.492	2.492	0.000	94	792550	100.0	110.3	
18 Bromomethane	94	2.875	2.878	-0.003	92	866603	100.0	105.1	
19 Chloroethane	64	2.952	2.955	-0.003	99	645715	100.0	99.7	
21 Trichlorofluoromethane	101	3.183	3.183	0.000	98	1385169	100.0	99.5	
20 Dichlorofluoromethane	67	3.187	3.187	0.000	97	1323029	100.0	100.1	
26 Ethyl ether	59	3.479	3.479	0.000	89	602938	100.0	94.0	
28 Acrolein	56	3.679	3.678	0.001	99	653850	500.0	526.4	
29 112TCTFE	101	3.698	3.704	-0.006	89	727236	100.0	120.2	
30 1,1-Dichloroethene	96	3.727	3.730	-0.003	95	701425	100.0	110.2	
31 Acetone	43	3.823	3.826	-0.003	100	1488181	500.0	516.3	
33 Iodomethane	142	3.913	3.913	0.000	99	1533324	100.0	101.7	
35 Carbon disulfide	76	3.965	3.965	0.000	99	2229126	100.0	106.3	
37 3-Chloro-1-propene	41	4.080	4.080	0.000	86	941129	100.0	100.7	
38 Methyl acetate	43	4.097	4.100	-0.003	96	1474701	200.0	204.1	
39 Methylene Chloride	84	4.219	4.222	-0.003	86	826407	100.0	100.5	
40 2-Methyl-2-propanol	59	4.318	4.318	0.000	98	1375660	1000.0	1166.7	M
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	94	2288927	100.0	107.2	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	93	836106	100.0	100.5	
44 Acrylonitrile	53	4.479	4.479	0.000	98	3798780	1000.0	1001.6	
47 Hexane	57	4.598	4.598	0.000	92	900329	100.0	119.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	96	1274157	100.0	102.2	
49 Vinyl acetate	43	4.836	4.836	0.000	97	3428560	200.0	234.8	
56 2,2-Dichloropropane	77	5.328	5.331	-0.003	91	884244	100.0	106.3	
57 2-Butanone (MEK)	43	5.357	5.357	0.000	99	2466129	500.0	545.5	
58 cis-1,2-Dichloroethene	96	5.354	5.357	-0.003	84	935062	100.0	102.7	
60 Chlorobromomethane	128	5.585	5.585	0.000	81	557994	100.0	105.5	
61 Tetrahydrofuran	42	5.598	5.601	-0.003	83	663585	200.0	220.7	
62 Chloroform	83	5.630	5.630	0.000	93	1457218	100.0	97.1	
64 1,1,1-Trichloroethane	97	5.772	5.772	0.000	97	1292954	100.0	108.9	
65 Cyclohexane	56	5.791	5.791	0.000	86	1033414	100.0	121.2	
66 Carbon tetrachloride	117	5.907	5.907	0.000	96	1221142	100.0	116.4	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	93	1005326	100.0	110.3	
69 Isobutyl alcohol	43	6.010	6.010	0.000	92	1383356	2500.0	2968.3	
70 Benzene	78	6.113	6.113	0.001	96	2925086	100.0	101.9	
72 1,2-Dichloroethane	62	6.164	6.167	-0.003	97	1080365	100.0	99.5	
73 n-Heptane	43	6.209	6.209	0.000	87	856345	100.0	118.1	
75 Trichloroethene	95	6.675	6.678	-0.003	94	848448	100.0	104.9	
76 Methylcyclohexane	83	6.807	6.807	0.000	89	1265166	100.0	118.3	
77 1,2-Dichloropropane	63	6.920	6.920	0.000	93	679077	100.0	106.9	
81 1,4-Dioxane	88	7.032	7.029	0.003	89	200827	2000.0	2240.3	
82 Dibromomethane	93	7.061	7.064	-0.003	89	593618	100.0	102.7	
83 Dichlorobromomethane	83	7.180	7.180	0.000	99	1109502	100.0	110.2	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	94	541404	100.0	114.3	
85 cis-1,3-Dichloropropene	75	7.579	7.579	0.000	96	1268298	100.0	114.6	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.685	0.000	95	4964934	500.0	547.6	
88 Toluene	92	7.878	7.875	0.003	98	1987159	100.0	101.9	
90 Ethyl methacrylate	69	8.109	8.109	0.000	87	1132087	100.0	124.8	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	96	1249095	100.0	117.7	
93 1,1,2-Trichloroethane	83	8.321	8.321	0.000	90	631100	100.0	105.6	
94 Tetrachloroethene	166	8.412	8.411	0.001	98	1064349	100.0	109.5	
95 1,3-Dichloropropane	76	8.495	8.492	0.003	92	1243922	100.0	101.9	
96 2-Hexanone	43	8.505	8.505	0.000	95	3484749	500.0	562.5	
98 Chlorodibromomethane	129	8.743	8.743	0.000	91	1045138	100.0	120.2	
101 Ethylene Dibromide	107	8.875	8.875	0.001	99	927625	100.0	106.0	
103 Chlorobenzene	112	9.331	9.331	0.000	98	2428277	100.0	102.7	
104 Ethylbenzene	91	9.392	9.392	0.000	97	3729047	100.0	104.4	
105 1,1,1,2-Tetrachloroethane	131	9.412	9.411	0.001	95	1000789	100.0	113.6	
106 m-Xylene & p-Xylene	106	9.508	9.508	0.000	97	1545198	100.0	105.3	
107 o-Xylene	106	9.948	9.945	0.003	95	1557292	100.0	105.8	
109 Styrene	104	9.971	9.971	0.000	95	2643851	100.0	111.2	
110 Bromoform	173	10.251	10.251	0.000	98	858177	100.0	129.8	
111 Isopropylbenzene	105	10.305	10.302	0.003	95	4056525	100.0	108.2	
112 1,1,2,2-Tetrachloroethane	83	10.685	10.682	0.003	97	1241974	100.0	105.4	
113 Bromobenzene	156	10.688	10.688	0.000	91	1205009	100.0	104.6	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	4472638	100.0	106.8	
115 trans-1,4-Dichloro-2-butene	53	10.727	10.727	0.000	78	352807	100.0	118.0	
116 1,2,3-Trichloropropane	110	10.739	10.736	0.003	86	449453	100.0	103.1	
117 2-Chlorotoluene	126	10.846	10.846	0.000	98	1041789	100.0	105.2	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	3401389	100.0	105.2	
119 4-Chlorotoluene	91	10.952	10.948	0.004	97	2713135	100.0	103.2	
120 tert-Butylbenzene	134	11.193	11.190	0.003	91	843470	100.0	110.2	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	97	3509471	100.0	105.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.392	11.389	0.003	93	4357688	100.0	110.5	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	96	4037341	100.0	110.4	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	98	2246545	100.0	102.5	
126 1,4-Dichlorobenzene	146	11.637	11.636	0.001	97	2271838	100.0	100.3	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	3332084	100.0	108.9	
128 1,2-Dichlorobenzene	146	11.981	11.977	0.004	99	2215416	100.0	100.5	
129 1,2-Dibromo-3-Chloropropane	75	12.656	12.656	0.000	97	301654	100.0	120.1	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	94	1742151	100.0	103.9	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	98	795831	100.0	111.0	
132 Naphthalene	128	13.559	13.559	0.000	96	4932235	100.0	105.7	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	1660148	100.0	103.2	
S 142 Total BTEX	1				0			519.3	
S 144 1,3-Dichloropropene, Total	1				0			232.3	
S 141 1,2-Dichloroethene, Total	1				0			203.2	
S 143 Xylenes, Total	1				0			211.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	50.00	Units: uL	
GAS CORP mix_00484	Amount Added:	50.00	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

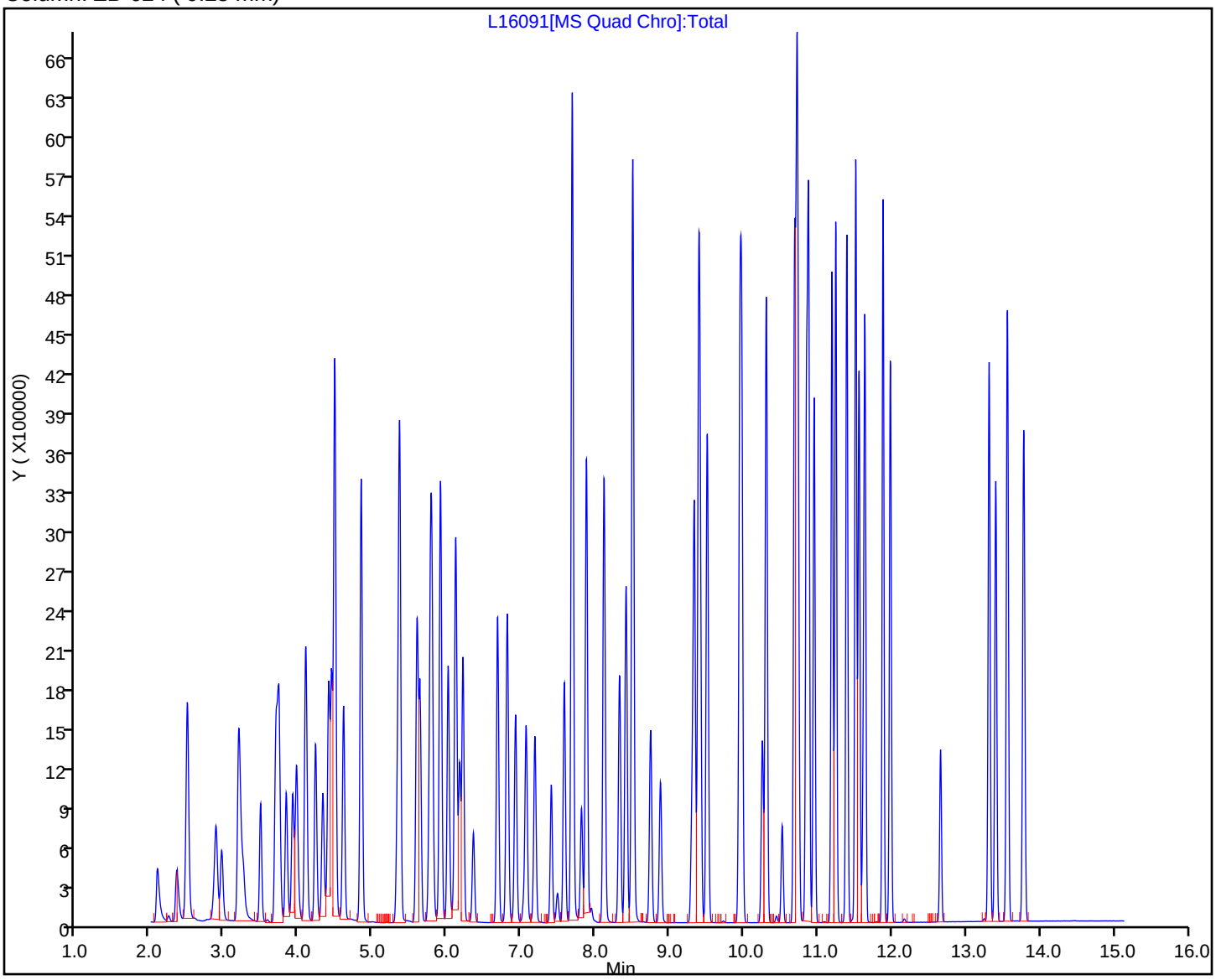
Report Date: 09-Dec-2021 15:59:56 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16091.D

Injection Date:	08-Dec-2021 18:47:41	Instrument ID:	HP5977L		
Lims ID:	IC 7				
Client ID:					
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

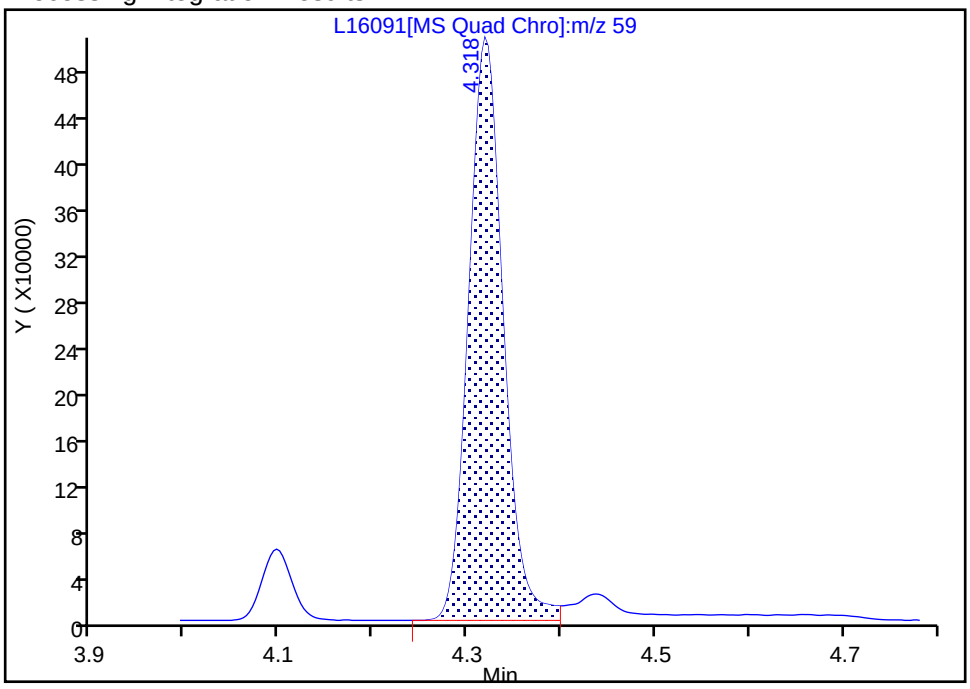
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16091.D				
Injection Date:	08-Dec-2021 18:47:41	Instrument ID:	HP5977L		
Lims ID:	IC 7				
Client ID:					
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

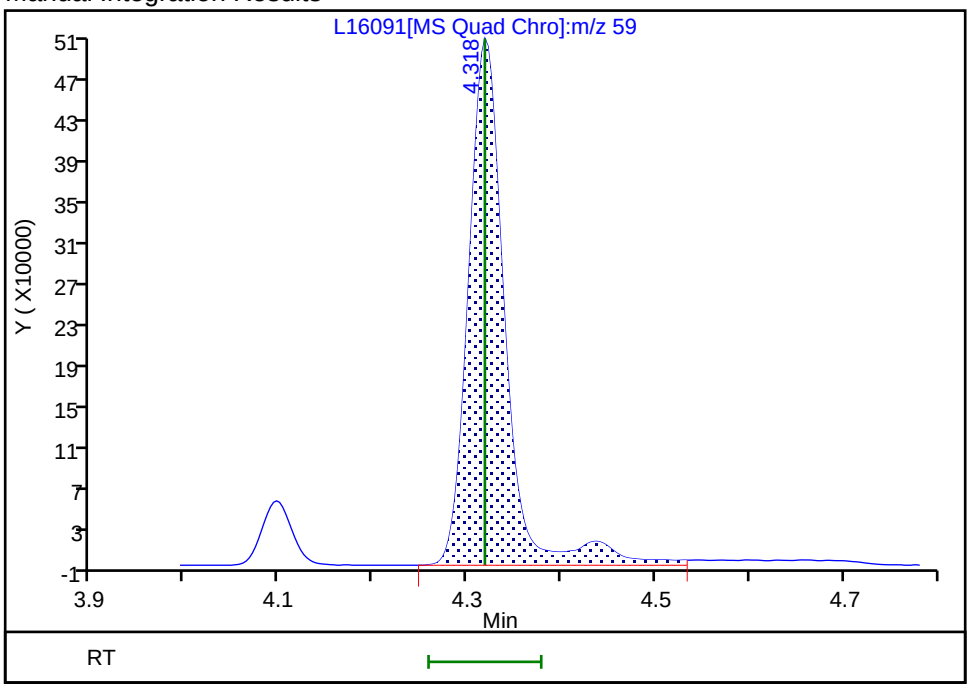
Processing Integration Results

RT: 4.32
Area: 1287384
Amount: 1102.1421
Amount Units: ug/L



Manual Integration Results

RT: 4.32
Area: 1375660
Amount: 1166.6946
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 11:01:57

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Calibration / Dichlorodifluoromethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

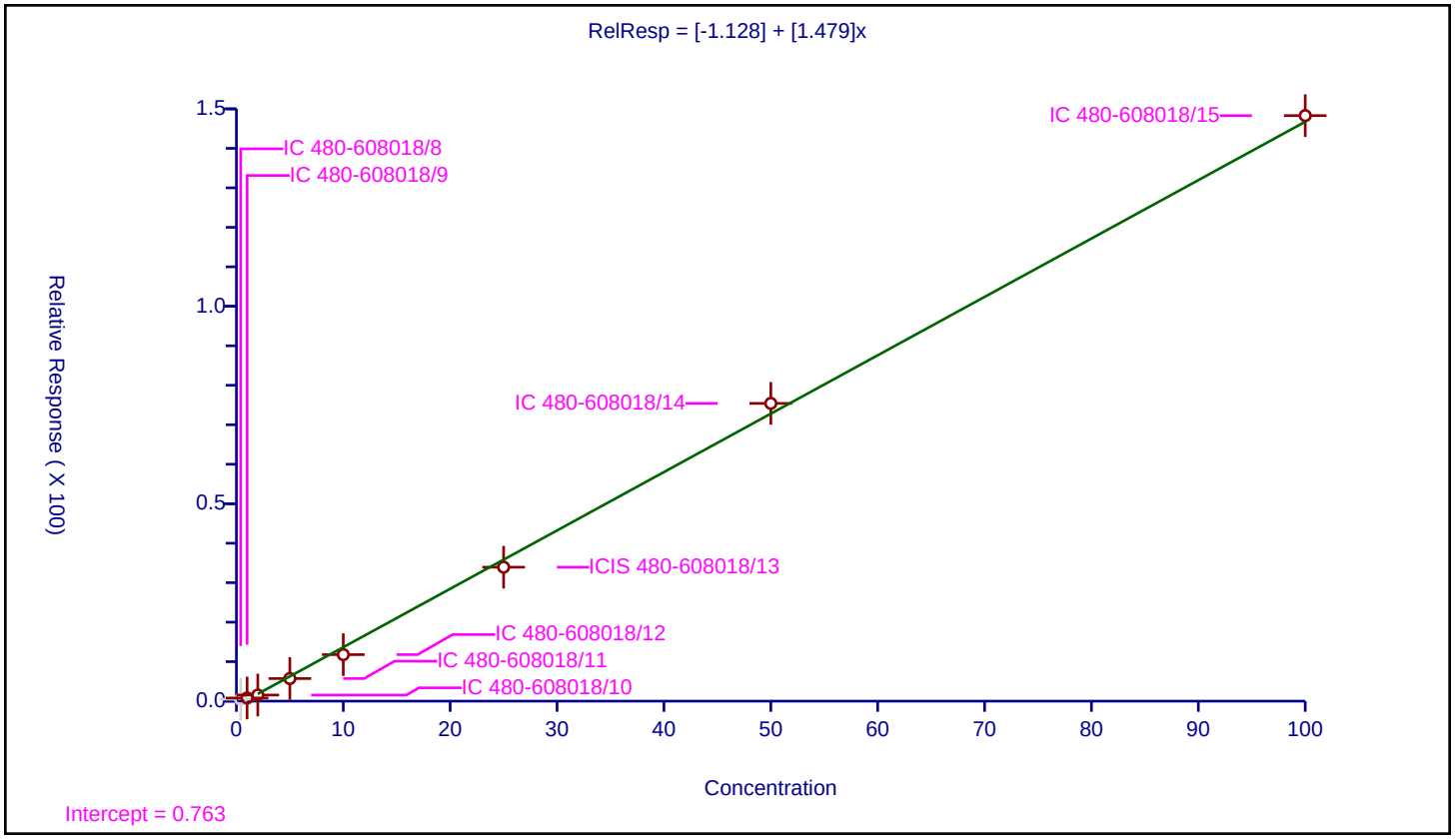
Curve Coefficients

Intercept:	-1.128
Slope:	1.479

Error Coefficients

Standard Error:	400000
Relative Standard Error:	15.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.489425	25.0	118864.0	1.223562	N
2	IC 480-608018/9	1.0	0.794853	25.0	120840.0	0.794853	Y
3	IC 480-608018/10	2.0	1.551189	25.0	121697.0	0.775594	Y
4	IC 480-608018/11	5.0	5.722612	25.0	124825.0	1.144522	Y
5	IC 480-608018/12	10.0	11.783166	25.0	122762.0	1.178317	Y
6	ICIS 480-608018/13	25.0	33.927695	25.0	126368.0	1.357108	Y
7	IC 480-608018/14	50.0	75.41061	25.0	129807.0	1.508212	Y
8	IC 480-608018/15	100.0	148.293457	25.0	132241.0	1.482935	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

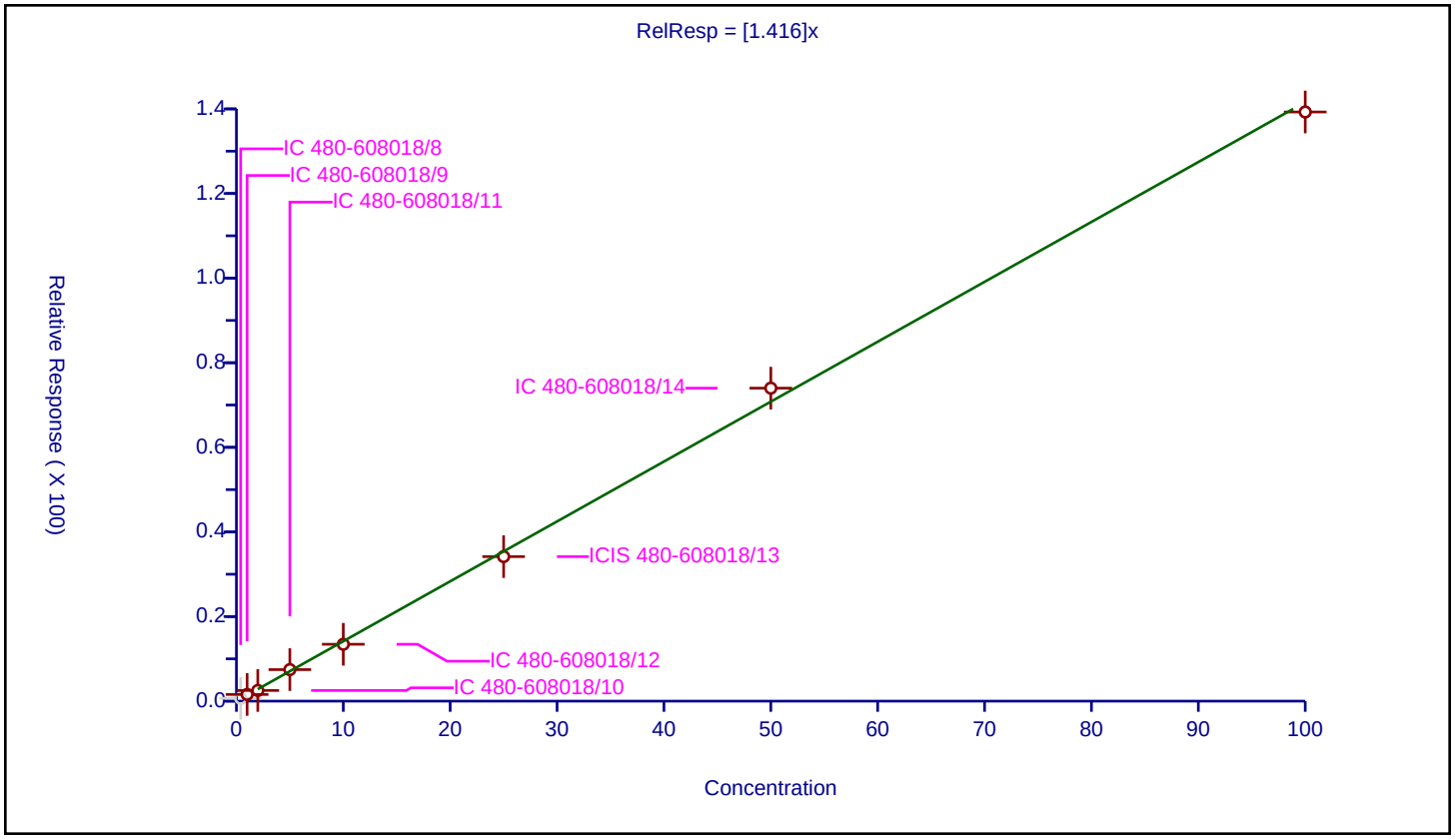
Curve Coefficients

Intercept:	0
Slope:	1.416

Error Coefficients

Standard Error:	348000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.679138	25.0	118864.0	1.697844	N
2	IC 480-608018/9	1.0	1.577706	25.0	120840.0	1.577706	Y
3	IC 480-608018/10	2.0	2.520604	25.0	121697.0	1.260302	Y
4	IC 480-608018/11	5.0	7.450631	25.0	124825.0	1.490126	Y
5	IC 480-608018/12	10.0	13.44227	25.0	122762.0	1.344227	Y
6	ICIS 480-608018/13	25.0	34.165691	25.0	126368.0	1.366628	Y
7	IC 480-608018/14	50.0	73.987343	25.0	129807.0	1.479747	Y
8	IC 480-608018/15	100.0	139.26978	25.0	132241.0	1.392698	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

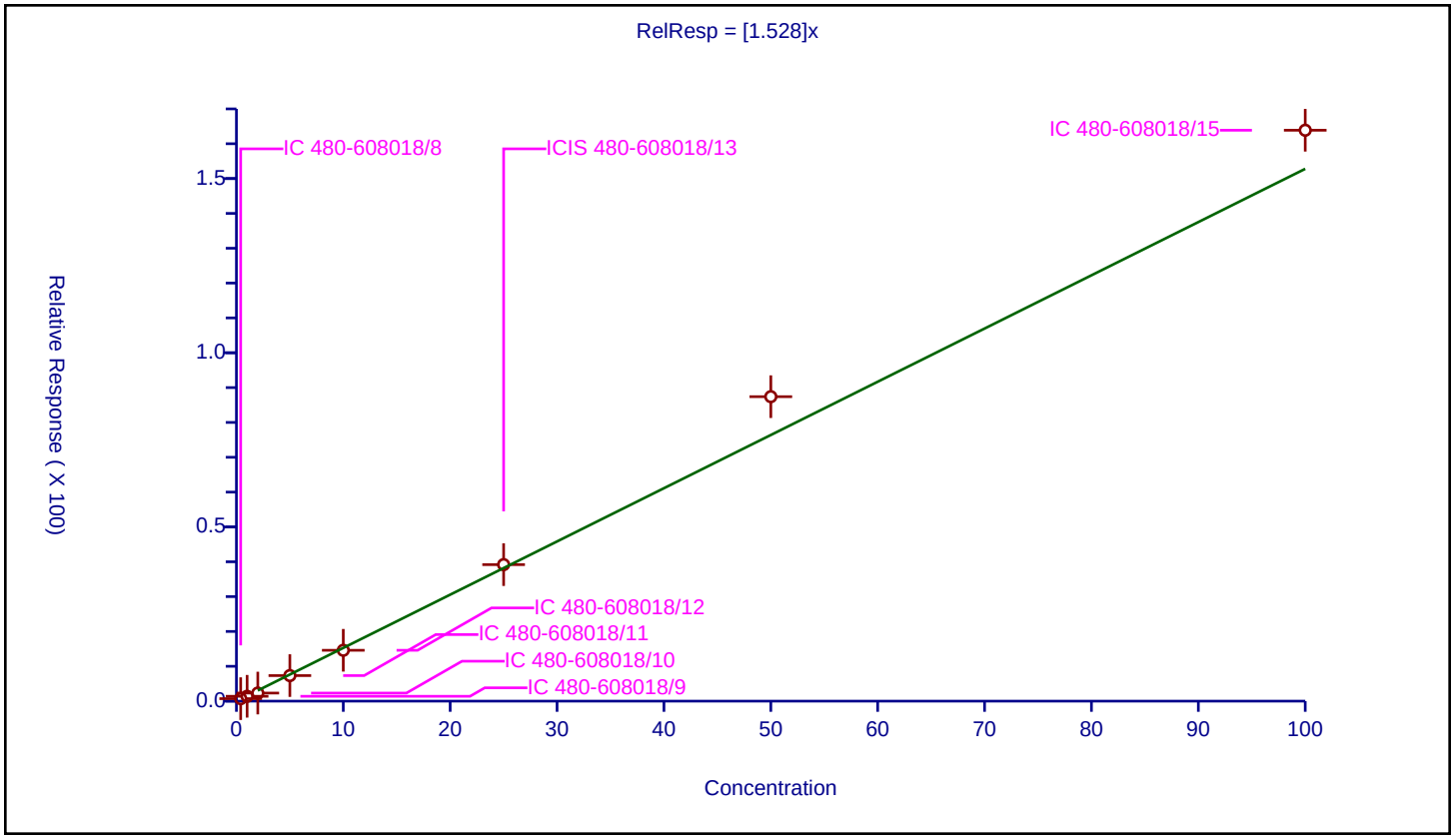
Curve Coefficients

Intercept:	0
Slope:	1.528

Error Coefficients

Standard Error:	378000
Relative Standard Error:	13.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.716155	25.0	118864.0	1.790386	Y
2	IC 480-608018/9	1.0	1.393992	25.0	120840.0	1.393992	Y
3	IC 480-608018/10	2.0	2.318052	25.0	121697.0	1.159026	Y
4	IC 480-608018/11	5.0	7.331664	25.0	124825.0	1.466333	Y
5	IC 480-608018/12	10.0	14.594907	25.0	122762.0	1.459491	Y
6	ICIS 480-608018/13	25.0	39.185949	25.0	126368.0	1.567438	Y
7	IC 480-608018/14	50.0	87.396866	25.0	129807.0	1.747937	Y
8	IC 480-608018/15	100.0	163.869564	25.0	132241.0	1.638696	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

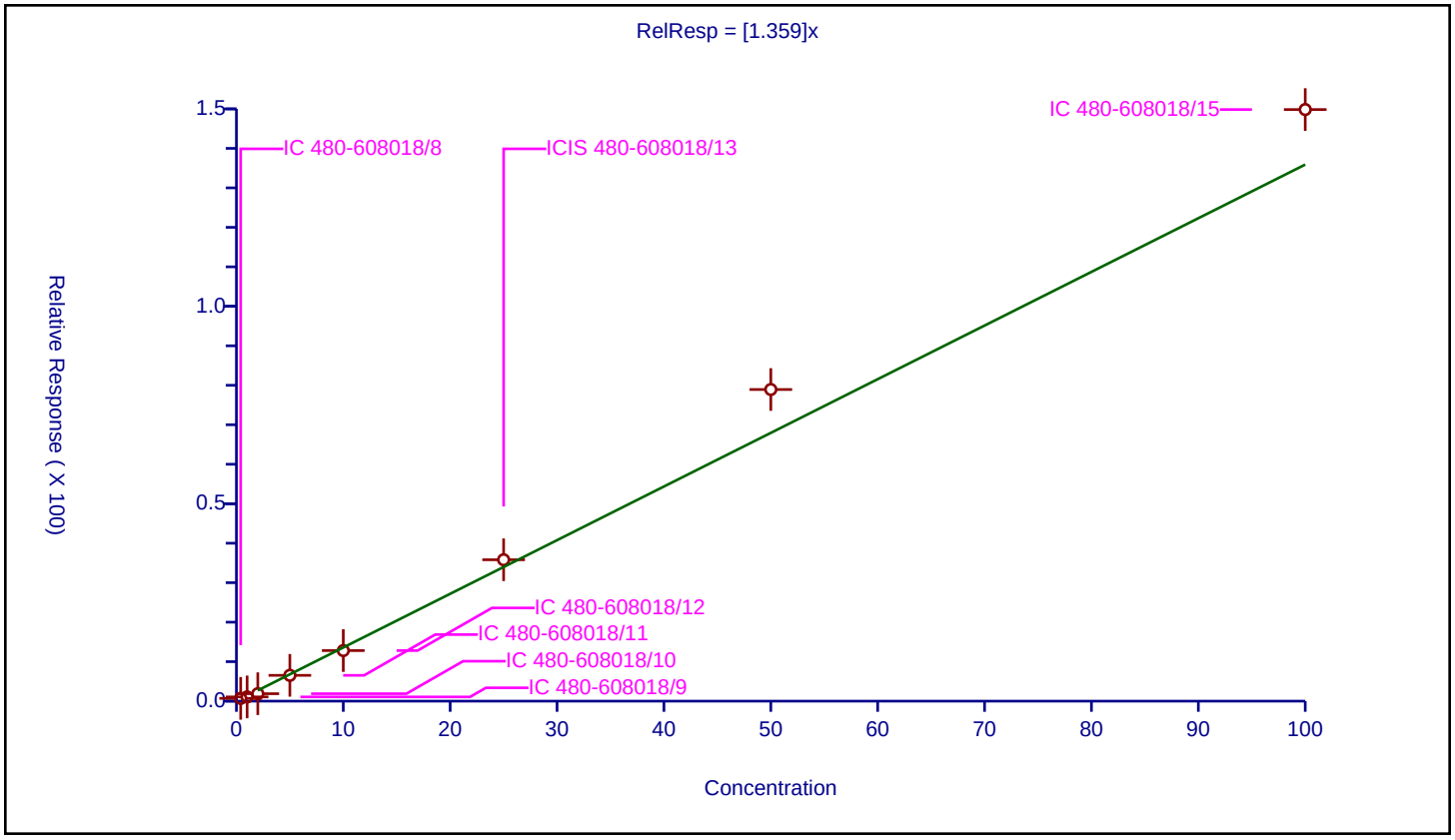
Curve Coefficients

Intercept:	0
Slope:	1.359

Error Coefficients

Standard Error:	345000
Relative Standard Error:	19.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.949

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.705218	25.0	118864.0	1.763044	Y
2	IC 480-608018/9	1.0	1.069182	25.0	120840.0	1.069182	Y
3	IC 480-608018/10	2.0	1.885009	25.0	121697.0	0.942505	Y
4	IC 480-608018/11	5.0	6.534348	25.0	124825.0	1.30687	Y
5	IC 480-608018/12	10.0	12.806895	25.0	122762.0	1.280689	Y
6	ICIS 480-608018/13	25.0	35.811479	25.0	126368.0	1.432459	Y
7	IC 480-608018/14	50.0	78.930258	25.0	129807.0	1.578605	Y
8	IC 480-608018/15	100.0	149.830612	25.0	132241.0	1.498306	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

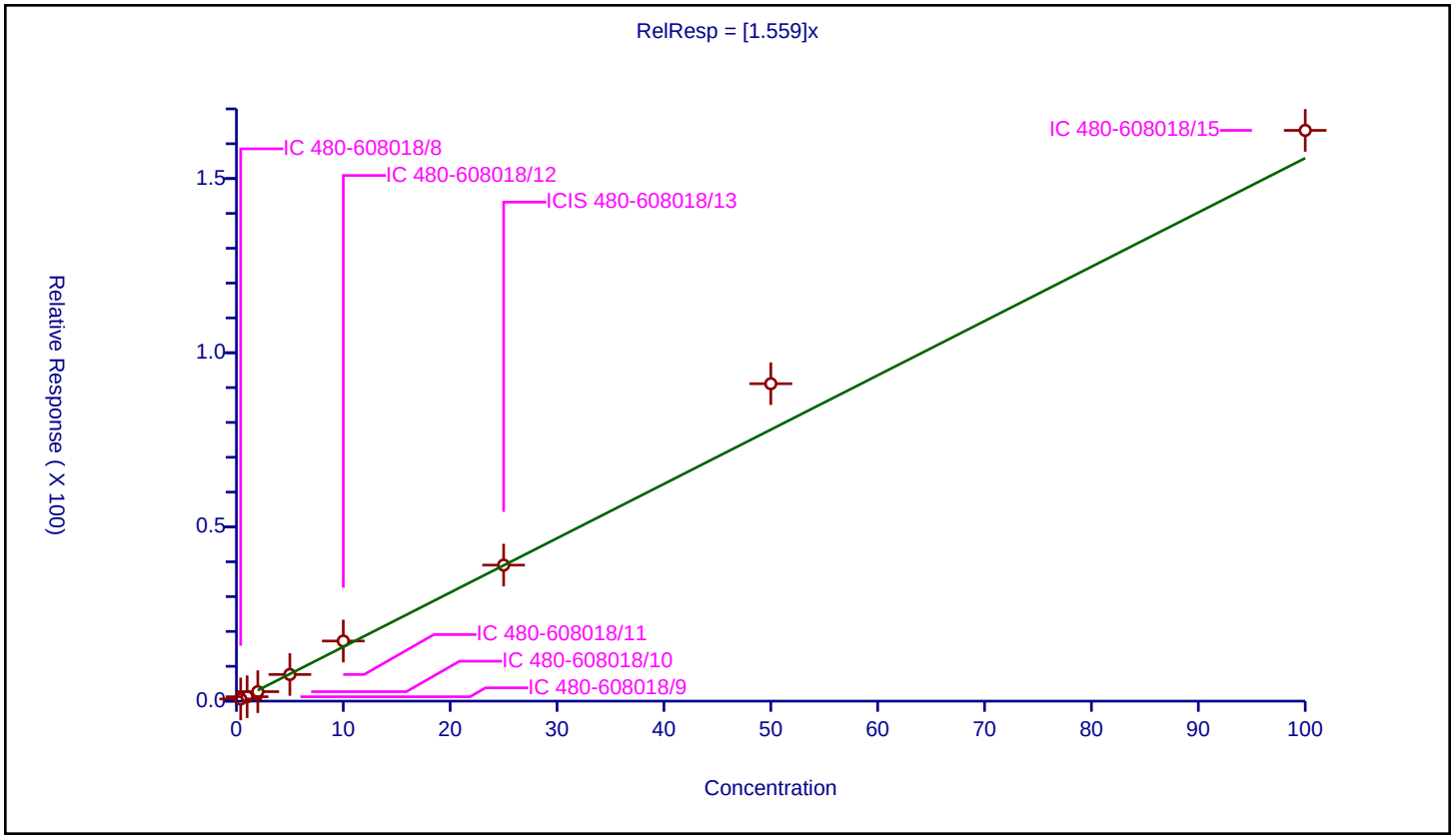
Curve Coefficients

Intercept:	0
Slope:	1.559

Error Coefficients

Standard Error:	382000
Relative Standard Error:	11.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.624874	25.0	118864.0	1.562185	Y
2	IC 480-608018/9	1.0	1.264896	25.0	120840.0	1.264896	Y
3	IC 480-608018/10	2.0	2.728703	25.0	121697.0	1.364352	Y
4	IC 480-608018/11	5.0	7.646305	25.0	124825.0	1.529261	Y
5	IC 480-608018/12	10.0	17.257987	25.0	122762.0	1.725799	Y
6	ICIS 480-608018/13	25.0	39.04608	25.0	126368.0	1.561843	Y
7	IC 480-608018/14	50.0	91.116427	25.0	129807.0	1.822329	Y
8	IC 480-608018/15	100.0	163.830242	25.0	132241.0	1.638302	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

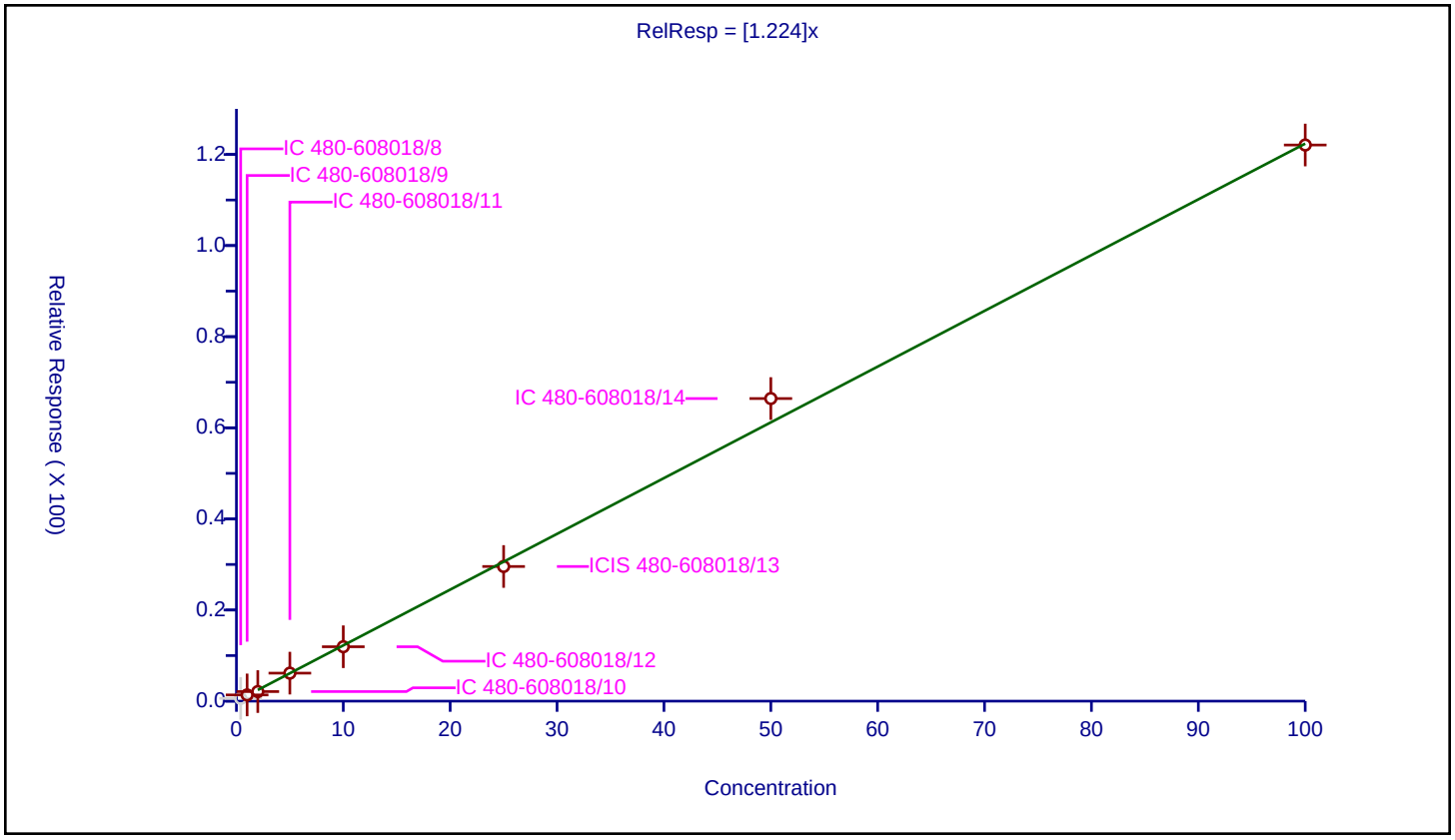
Curve Coefficients

Intercept:	0
Slope:	1.224

Error Coefficients

Standard Error:	306000
Relative Standard Error:	8.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.604893	25.0	118864.0	1.512232	N
2	IC 480-608018/9	1.0	1.362132	25.0	120840.0	1.362132	Y
3	IC 480-608018/10	2.0	2.099066	25.0	121697.0	1.049533	Y
4	IC 480-608018/11	5.0	6.146605	25.0	124825.0	1.229321	Y
5	IC 480-608018/12	10.0	11.941399	25.0	122762.0	1.19414	Y
6	ICIS 480-608018/13	25.0	29.555742	25.0	126368.0	1.18223	Y
7	IC 480-608018/14	50.0	66.423999	25.0	129807.0	1.32848	Y
8	IC 480-608018/15	100.0	122.071634	25.0	132241.0	1.220716	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

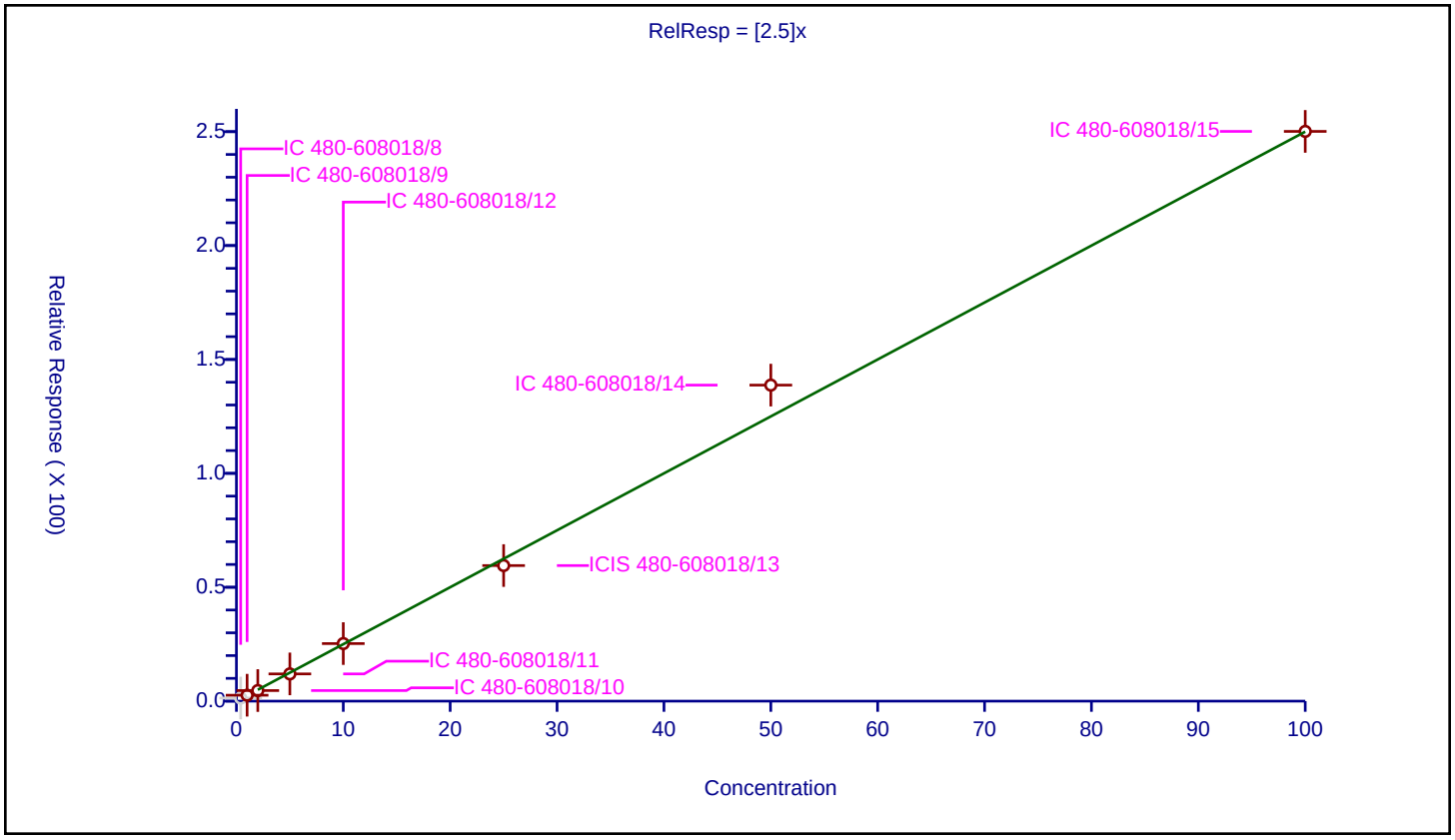
Curve Coefficients

Intercept:	0
Slope:	2.5

Error Coefficients

Standard Error:	630000
Relative Standard Error:	6.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.367319	25.0	118864.0	3.418297	N
2	IC 480-608018/9	1.0	2.599926	25.0	120840.0	2.599926	Y
3	IC 480-608018/10	2.0	4.647198	25.0	121697.0	2.323599	Y
4	IC 480-608018/11	5.0	11.956139	25.0	124825.0	2.391228	Y
5	IC 480-608018/12	10.0	25.276144	25.0	122762.0	2.527614	Y
6	ICIS 480-608018/13	25.0	59.519222	25.0	126368.0	2.380769	Y
7	IC 480-608018/14	50.0	138.733658	25.0	129807.0	2.774673	Y
8	IC 480-608018/15	100.0	250.117021	25.0	132241.0	2.50117	Y



Calibration / Trichlorofluoromethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

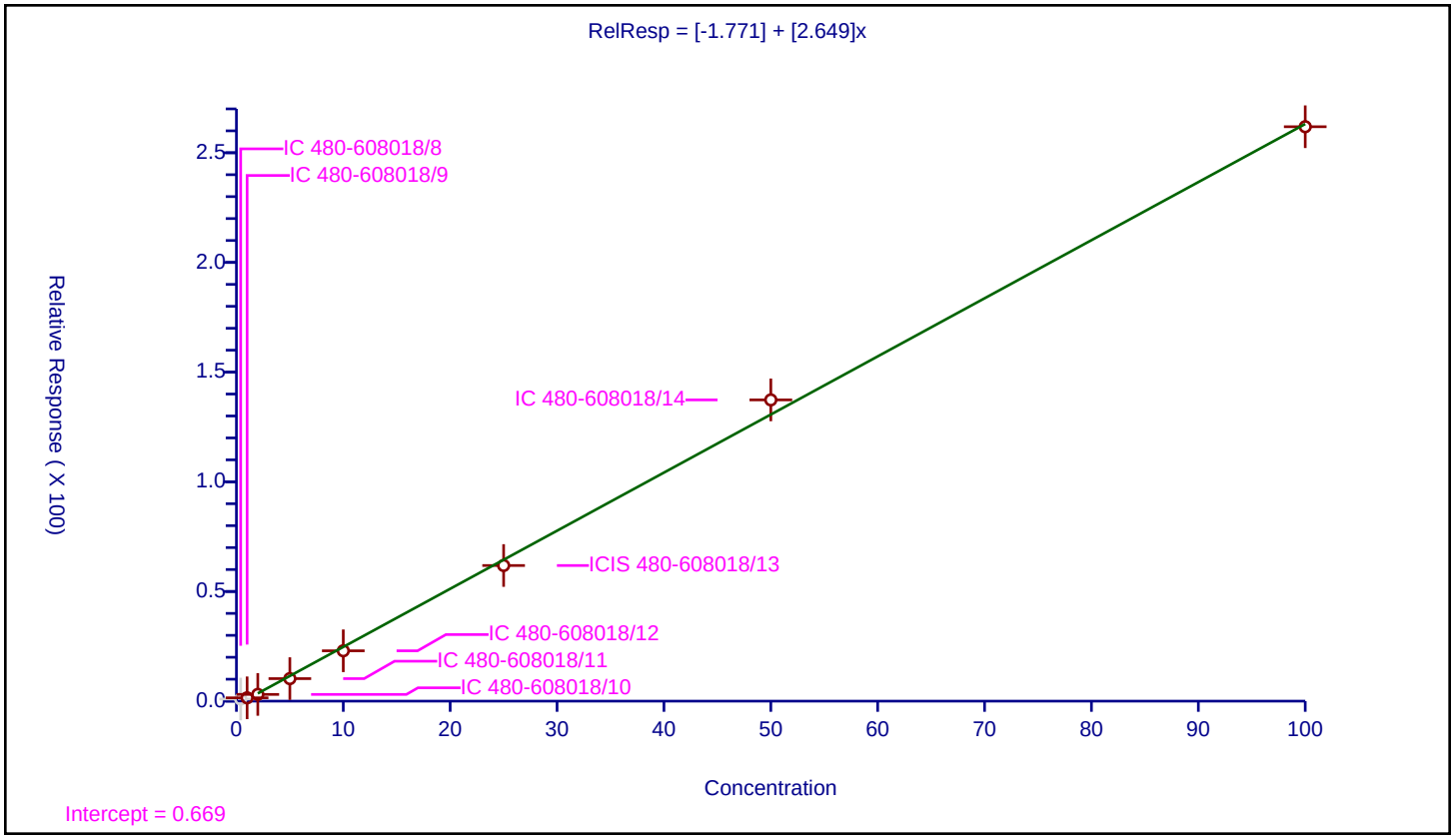
Curve Coefficients

Intercept:	-1.771
Slope:	2.649

Error Coefficients

Standard Error:	713000
Relative Standard Error:	12.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.963286	25.0	118864.0	2.408214	N
2	IC 480-608018/9	1.0	1.511089	25.0	120840.0	1.511089	Y
3	IC 480-608018/10	2.0	3.061086	25.0	121697.0	1.530543	Y
4	IC 480-608018/11	5.0	10.270379	25.0	124825.0	2.054076	Y
5	IC 480-608018/12	10.0	22.951117	25.0	122762.0	2.295112	Y
6	ICIS 480-608018/13	25.0	61.833692	25.0	126368.0	2.473348	Y
7	IC 480-608018/14	50.0	137.332155	25.0	129807.0	2.746643	Y
8	IC 480-608018/15	100.0	261.864513	25.0	132241.0	2.618645	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

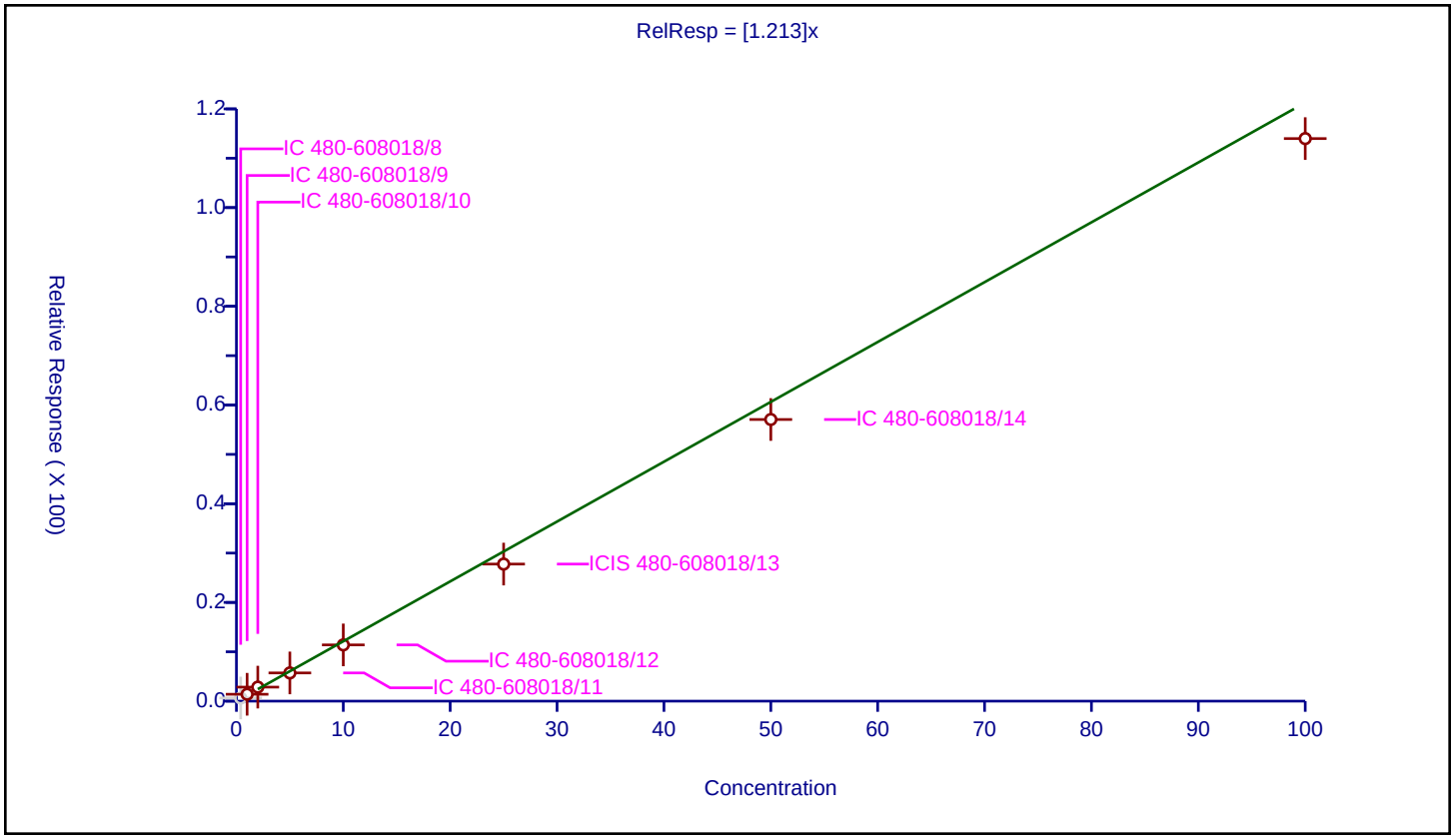
Curve Coefficients

Intercept:	0
Slope:	1.213

Error Coefficients

Standard Error:	281000
Relative Standard Error:	11.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.637493	25.0	118864.0	1.593733	N
2	IC 480-608018/9	1.0	1.392337	25.0	120840.0	1.392337	Y
3	IC 480-608018/10	2.0	2.843127	25.0	121697.0	1.421563	Y
4	IC 480-608018/11	5.0	5.717404	25.0	124825.0	1.143481	Y
5	IC 480-608018/12	10.0	11.39522	25.0	122762.0	1.139522	Y
6	ICIS 480-608018/13	25.0	27.77226	25.0	126368.0	1.11089	Y
7	IC 480-608018/14	50.0	57.064527	25.0	129807.0	1.141291	Y
8	IC 480-608018/15	100.0	113.984695	25.0	132241.0	1.139847	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

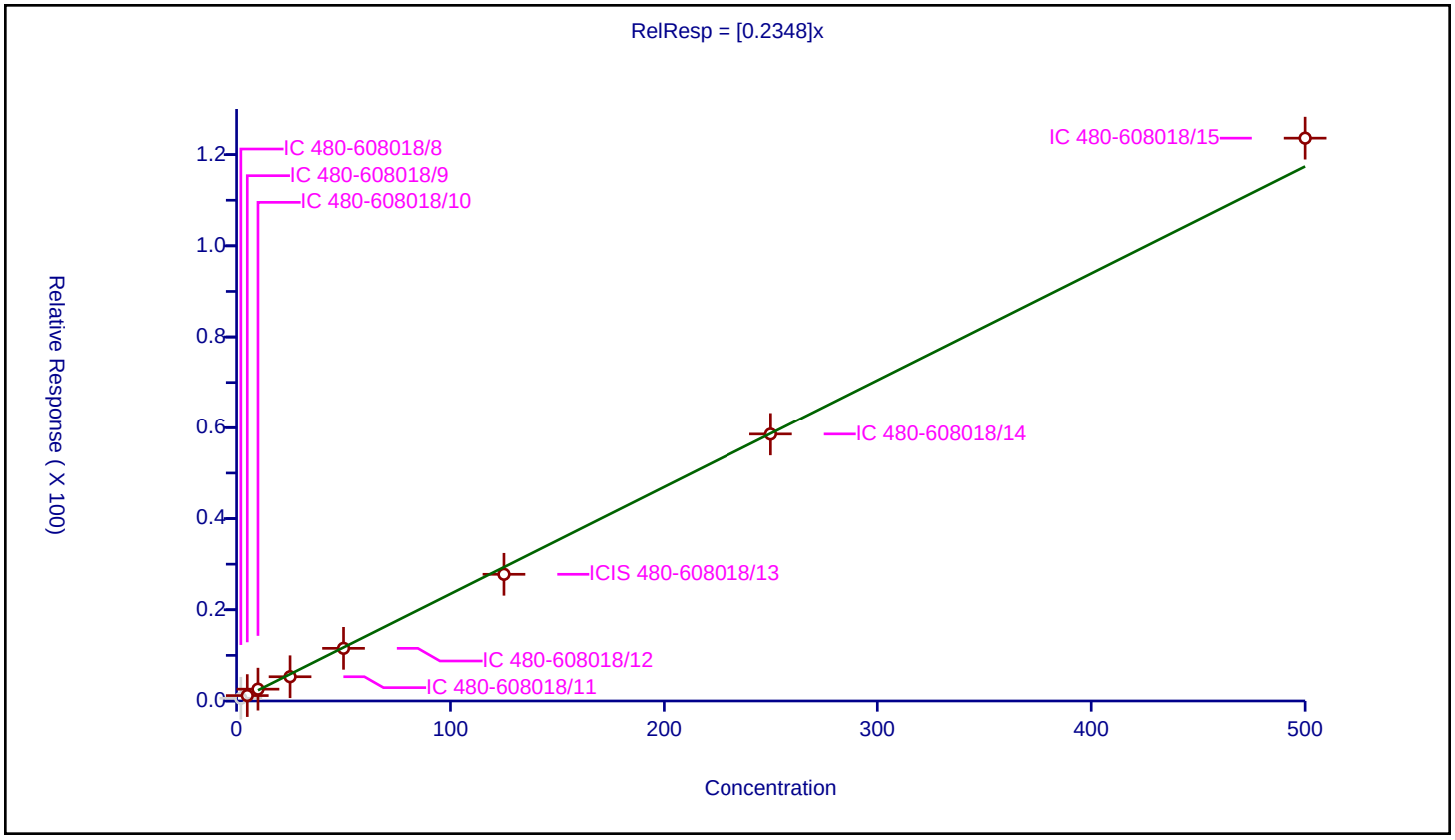
Curve Coefficients

Intercept:	0
Slope:	0.2348

Error Coefficients

Standard Error:	301000
Relative Standard Error:	6.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	2.0	0.593325	25.0	118864.0	0.296663	N
2	IC 480-608018/9	5.0	1.185659	25.0	120840.0	0.237132	Y
3	IC 480-608018/10	10.0	2.593326	25.0	121697.0	0.259333	Y
4	IC 480-608018/11	25.0	5.317244	25.0	124825.0	0.21269	Y
5	IC 480-608018/12	50.0	11.54266	25.0	122762.0	0.230853	Y
6	ICIS 480-608018/13	125.0	27.780174	25.0	126368.0	0.222241	Y
7	IC 480-608018/14	250.0	58.569838	25.0	129807.0	0.234279	Y
8	IC 480-608018/15	500.0	123.609546	25.0	132241.0	0.247219	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

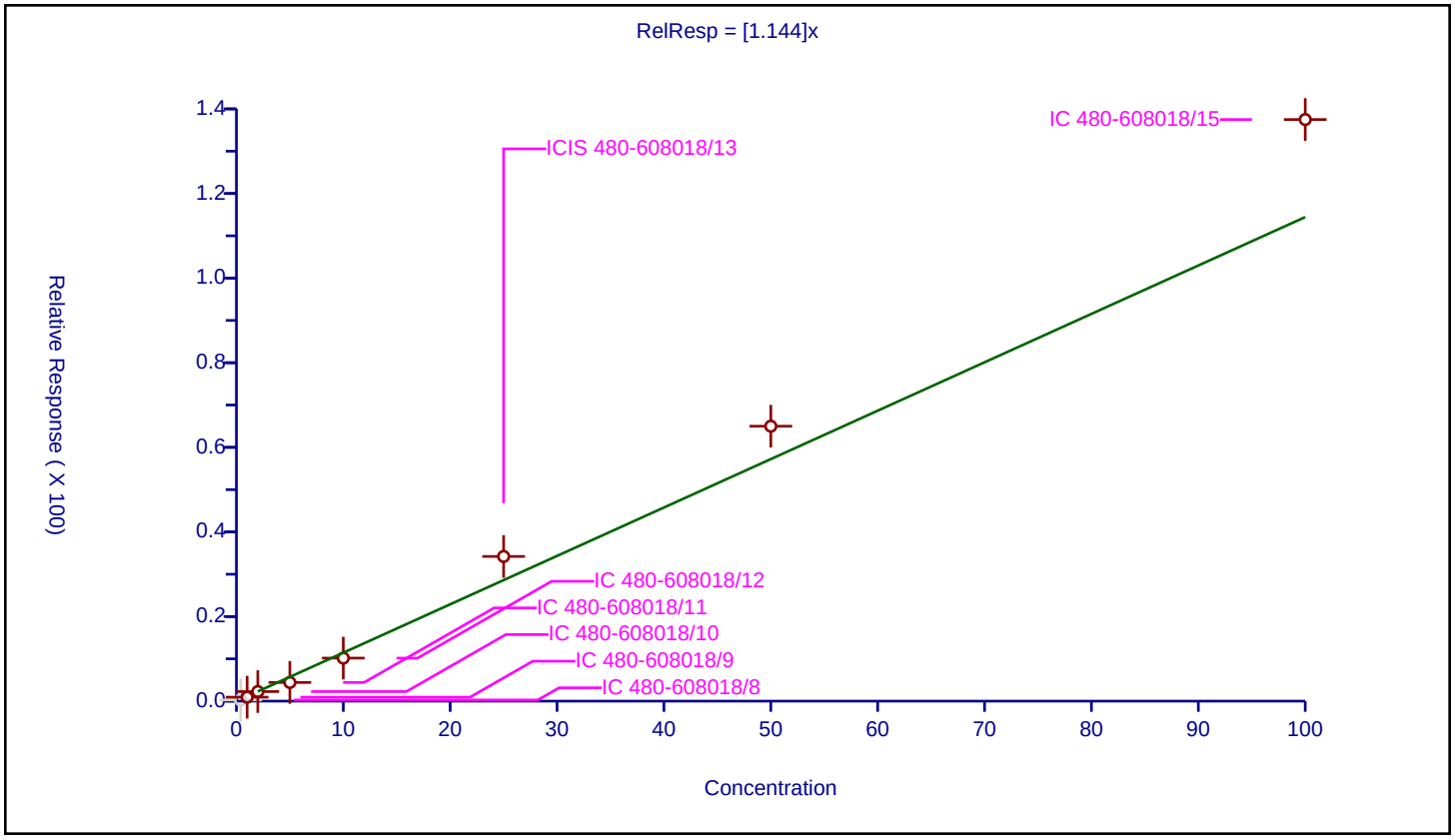
Curve Coefficients

Intercept:	0
Slope:	1.144

Error Coefficients

Standard Error:	336000
Relative Standard Error:	18.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.274684	25.0	118864.0	0.686709	N
2	IC 480-608018/9	1.0	0.9345	25.0	120840.0	0.9345	Y
3	IC 480-608018/10	2.0	2.263819	25.0	121697.0	1.13191	Y
4	IC 480-608018/11	5.0	4.418987	25.0	124825.0	0.883797	Y
5	IC 480-608018/12	10.0	10.168049	25.0	122762.0	1.016805	Y
6	ICIS 480-608018/13	25.0	34.20229	25.0	126368.0	1.368092	Y
7	IC 480-608018/14	50.0	64.991487	25.0	129807.0	1.29983	Y
8	IC 480-608018/15	100.0	137.48308	25.0	132241.0	1.374831	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

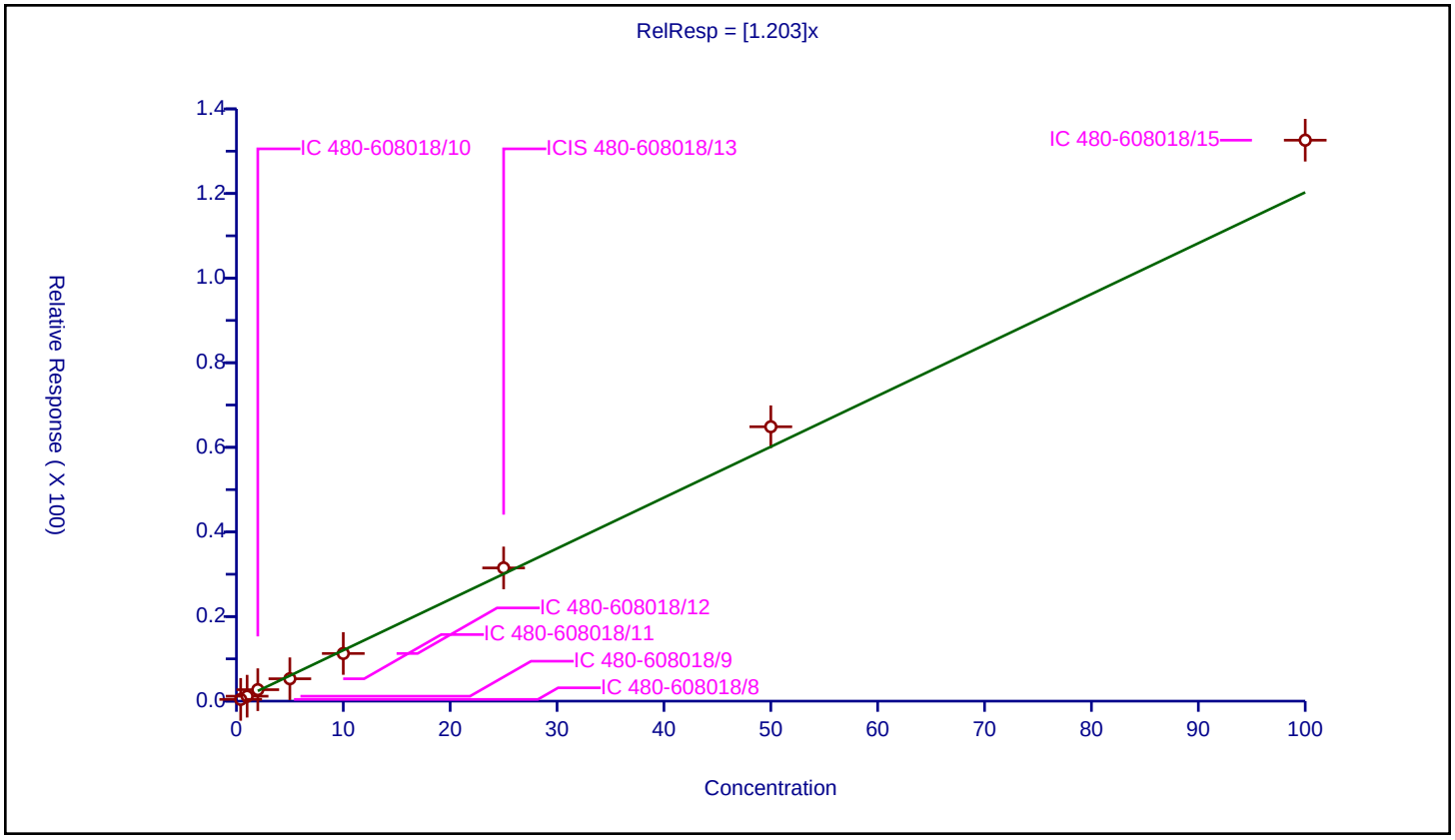
Curve Coefficients

Intercept:	0
Slope:	1.203

Error Coefficients

Standard Error:	301000
Relative Standard Error:	10.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.411605	25.0	118864.0	1.029012	Y
2	IC 480-608018/9	1.0	1.170763	25.0	120840.0	1.170763	Y
3	IC 480-608018/10	2.0	2.707955	25.0	121697.0	1.353978	Y
4	IC 480-608018/11	5.0	5.294412	25.0	124825.0	1.058882	Y
5	IC 480-608018/12	10.0	11.266923	25.0	122762.0	1.126692	Y
6	ICIS 480-608018/13	25.0	31.487798	25.0	126368.0	1.259512	Y
7	IC 480-608018/14	50.0	64.863798	25.0	129807.0	1.297276	Y
8	IC 480-608018/15	100.0	132.603542	25.0	132241.0	1.326035	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

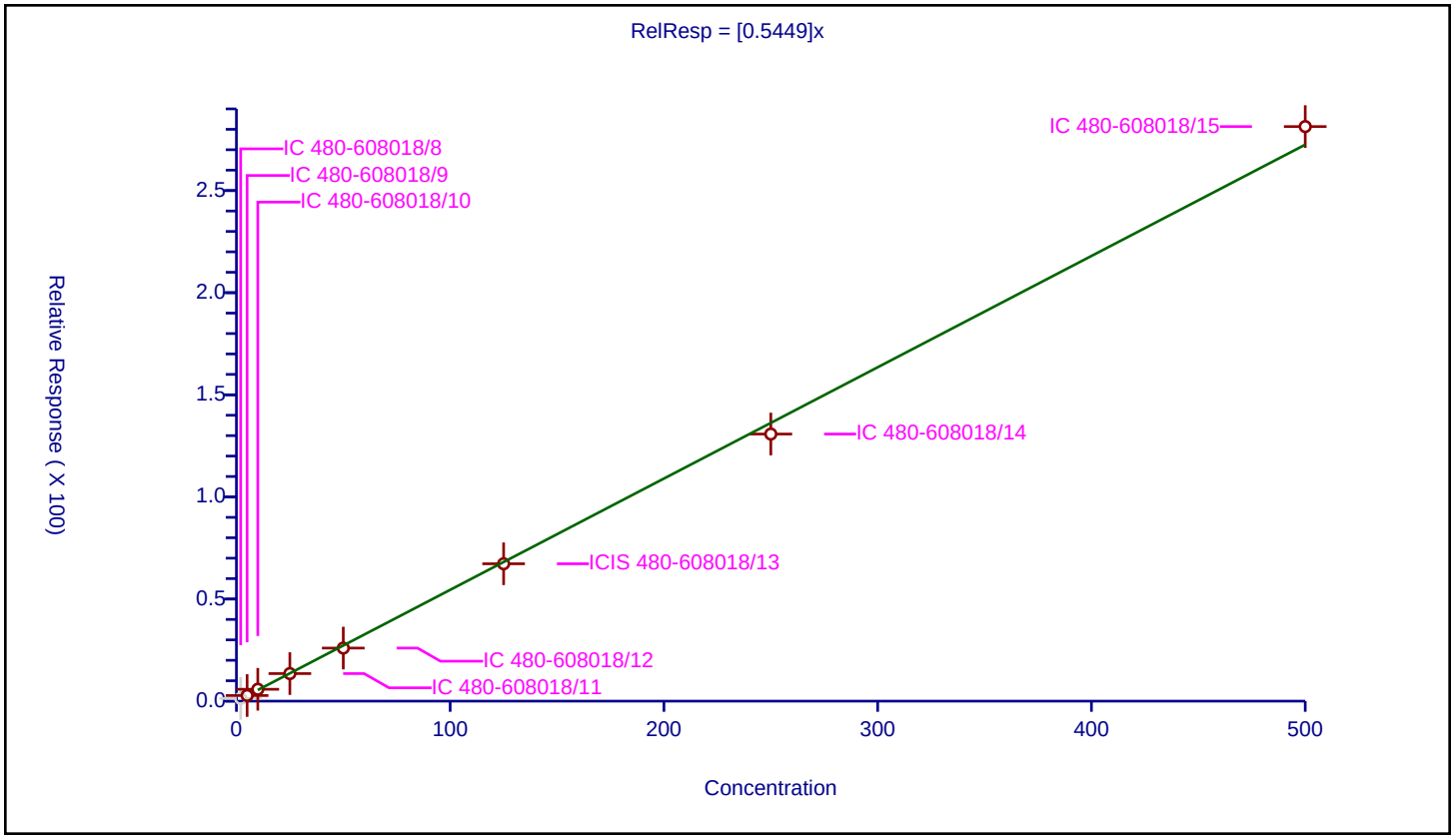
Curve Coefficients

Intercept:	0
Slope:	0.5449

Error Coefficients

Standard Error:	685000
Relative Standard Error:	4.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	2.0	1.340187	25.0	118864.0	0.670094	N
2	IC 480-608018/9	5.0	2.748055	25.0	120840.0	0.549611	Y
3	IC 480-608018/10	10.0	5.81629	25.0	121697.0	0.581629	Y
4	IC 480-608018/11	25.0	13.495694	25.0	124825.0	0.539828	Y
5	IC 480-608018/12	50.0	25.979538	25.0	122762.0	0.519591	Y
6	ICIS 480-608018/13	125.0	67.26703	25.0	126368.0	0.538136	Y
7	IC 480-608018/14	250.0	130.793794	25.0	129807.0	0.523175	Y
8	IC 480-608018/15	500.0	281.338806	25.0	132241.0	0.562678	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

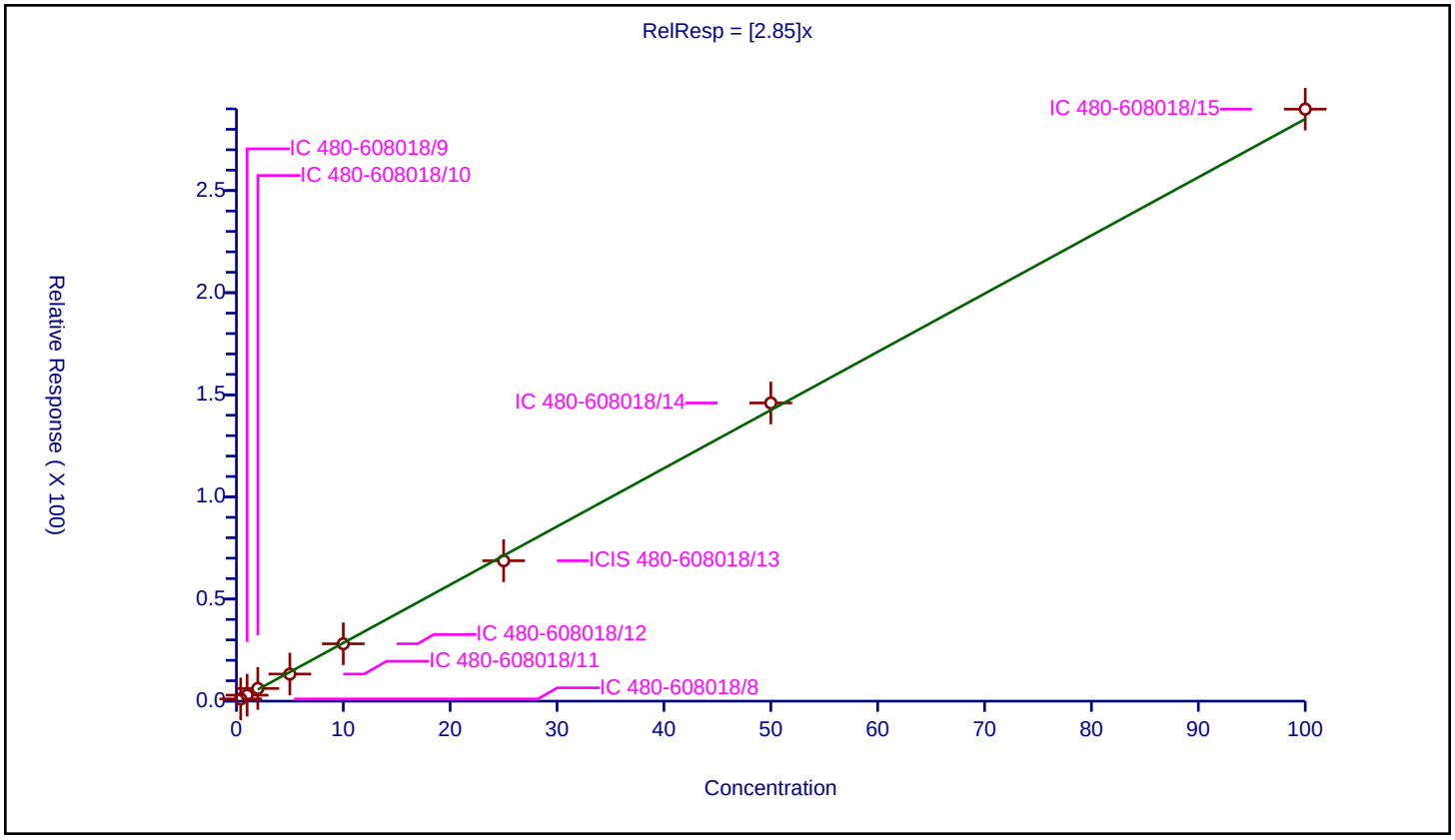
Curve Coefficients

Intercept:	0
Slope:	2.85

Error Coefficients

Standard Error:	662000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.08948	25.0	118864.0	2.723701	Y
2	IC 480-608018/9	1.0	2.940252	25.0	120840.0	2.940252	Y
3	IC 480-608018/10	2.0	6.215231	25.0	121697.0	3.107616	Y
4	IC 480-608018/11	5.0	13.264771	25.0	124825.0	2.652954	Y
5	IC 480-608018/12	10.0	28.090737	25.0	122762.0	2.809074	Y
6	ICIS 480-608018/13	25.0	68.743471	25.0	126368.0	2.749739	Y
7	IC 480-608018/14	50.0	146.001949	25.0	129807.0	2.920039	Y
8	IC 480-608018/15	100.0	289.873035	25.0	132241.0	2.89873	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

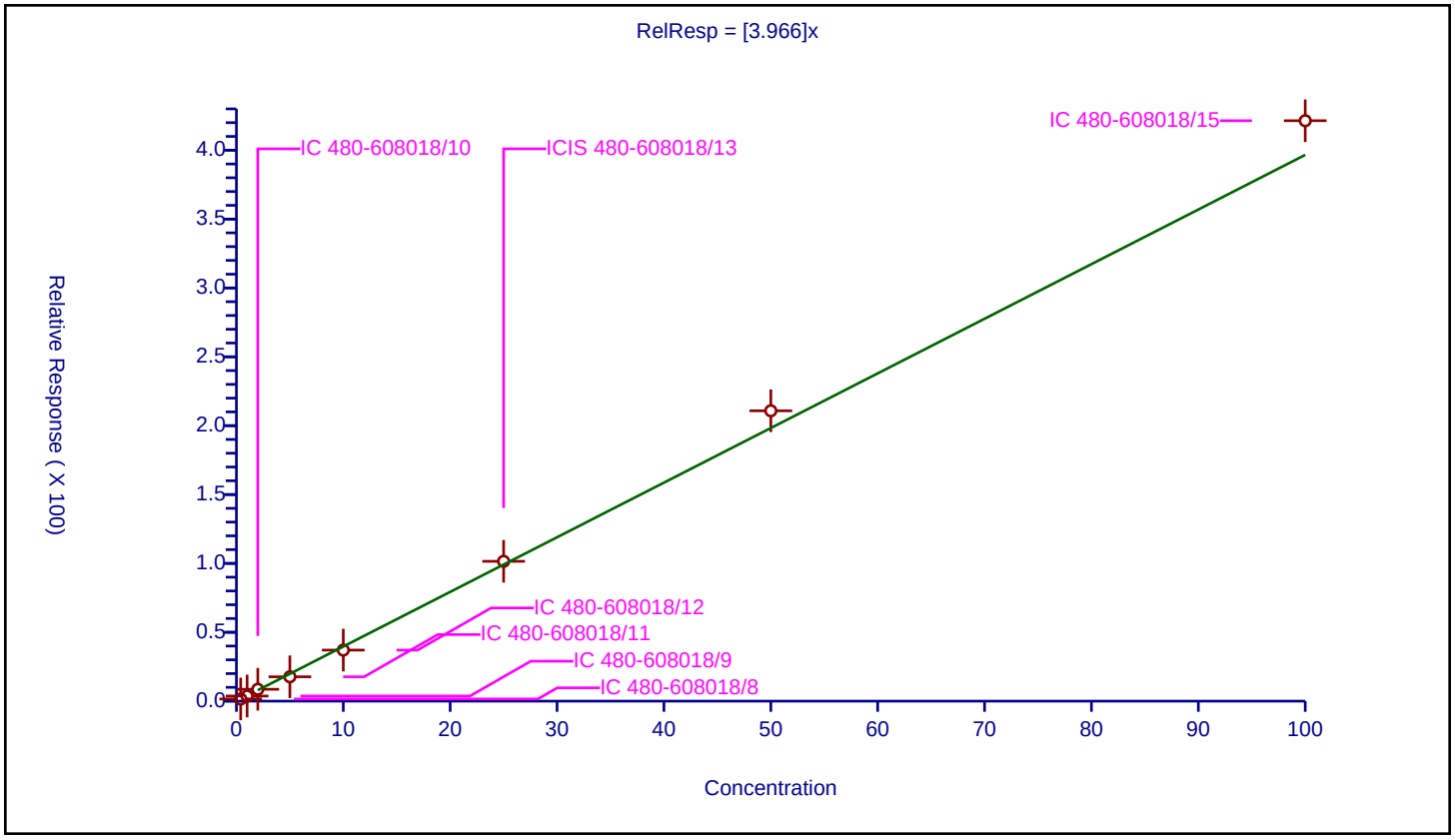
Curve Coefficients

Intercept:	0
Slope:	3.966

Error Coefficients

Standard Error:	961000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.584374	25.0	118864.0	3.960934	Y
2	IC 480-608018/9	1.0	3.726001	25.0	120840.0	3.726001	Y
3	IC 480-608018/10	2.0	8.611141	25.0	121697.0	4.30557	Y
4	IC 480-608018/11	5.0	17.68536	25.0	124825.0	3.537072	Y
5	IC 480-608018/12	10.0	37.067456	25.0	122762.0	3.706746	Y
6	ICIS 480-608018/13	25.0	101.517987	25.0	126368.0	4.060719	Y
7	IC 480-608018/14	50.0	210.806043	25.0	129807.0	4.216121	Y
8	IC 480-608018/15	100.0	421.413556	25.0	132241.0	4.214136	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

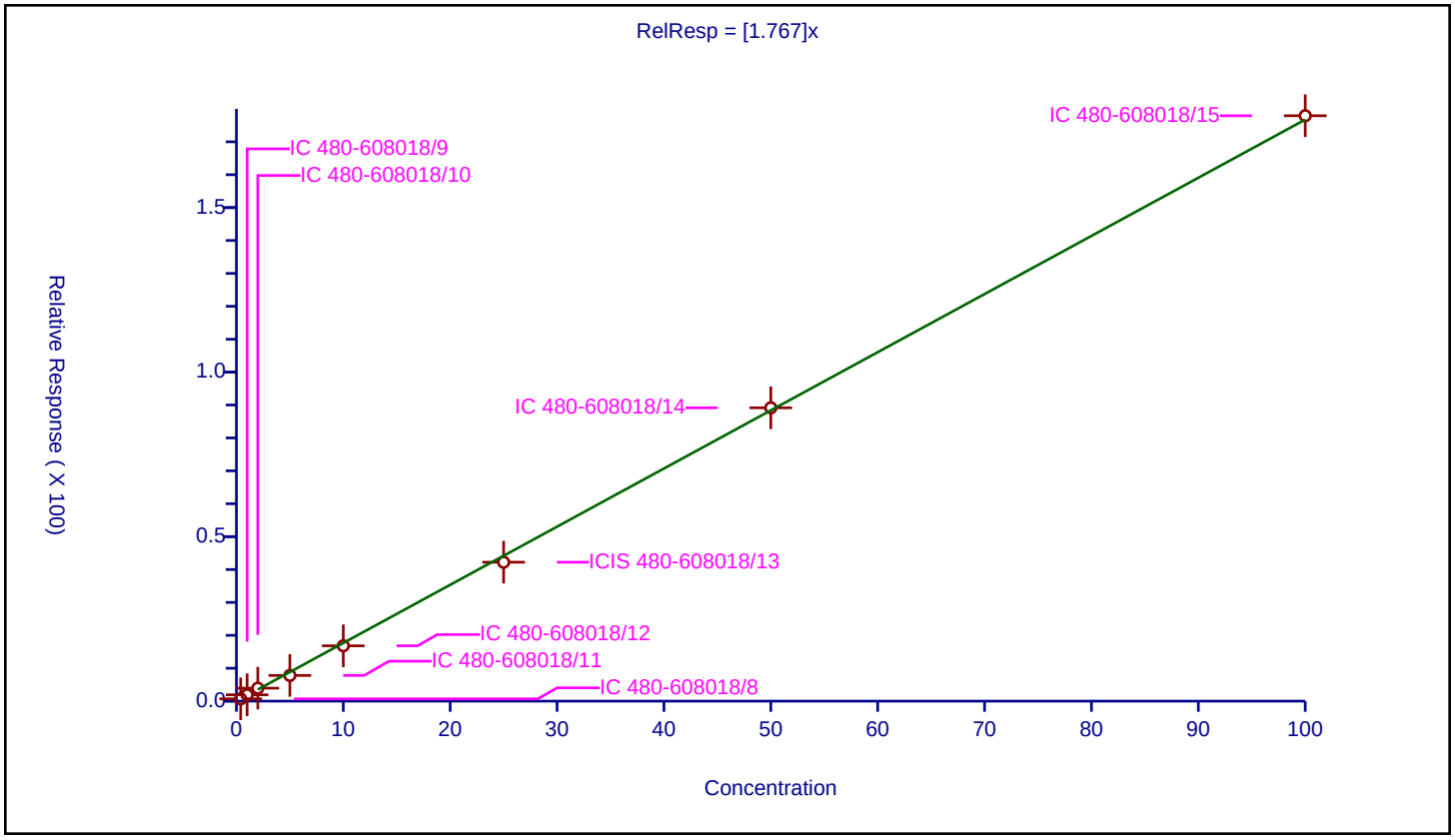
Curve Coefficients

Intercept:	0
Slope:	1.767

Error Coefficients

Standard Error:	406000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.701642	25.0	118864.0	1.754106	Y
2	IC 480-608018/9	1.0	1.91886	25.0	120840.0	1.91886	Y
3	IC 480-608018/10	2.0	3.943195	25.0	121697.0	1.971597	Y
4	IC 480-608018/11	5.0	7.810935	25.0	124825.0	1.562187	Y
5	IC 480-608018/12	10.0	16.813631	25.0	122762.0	1.681363	Y
6	ICIS 480-608018/13	25.0	42.22311	25.0	126368.0	1.688924	Y
7	IC 480-608018/14	50.0	89.156016	25.0	129807.0	1.78312	Y
8	IC 480-608018/15	100.0	177.919291	25.0	132241.0	1.779193	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

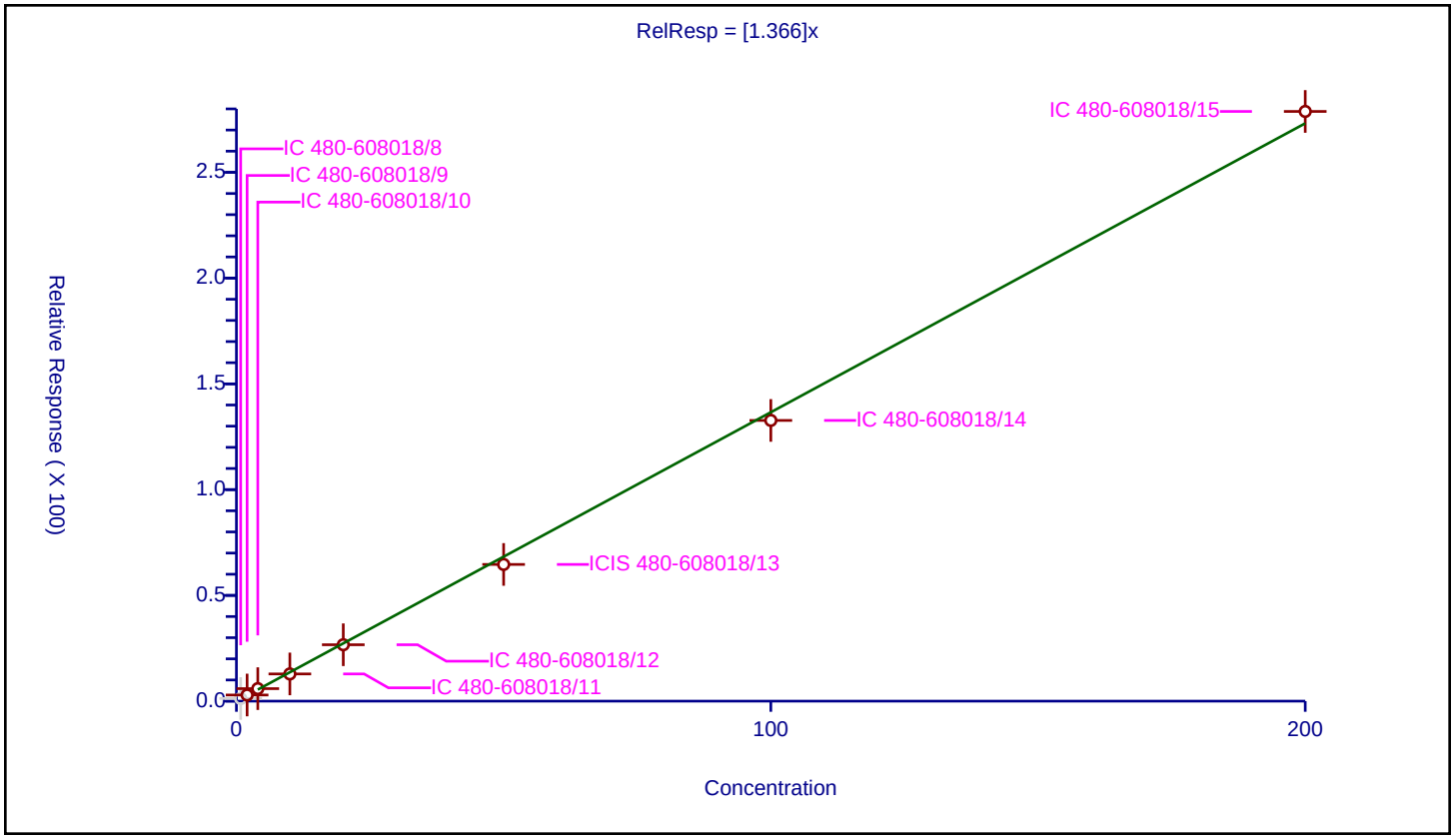
Curve Coefficients

Intercept:	0
Slope:	1.366

Error Coefficients

Standard Error:	680000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.8	1.249537	25.0	118864.0	1.561922	N
2	IC 480-608018/9	2.0	2.898668	25.0	120840.0	1.449334	Y
3	IC 480-608018/10	4.0	5.91243	25.0	121697.0	1.478108	Y
4	IC 480-608018/11	10.0	12.860405	25.0	124825.0	1.28604	Y
5	IC 480-608018/12	20.0	26.667658	25.0	122762.0	1.333383	Y
6	ICIS 480-608018/13	50.0	64.626132	25.0	126368.0	1.292523	Y
7	IC 480-608018/14	100.0	132.714145	25.0	129807.0	1.327141	Y
8	IC 480-608018/15	200.0	278.790428	25.0	132241.0	1.393952	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

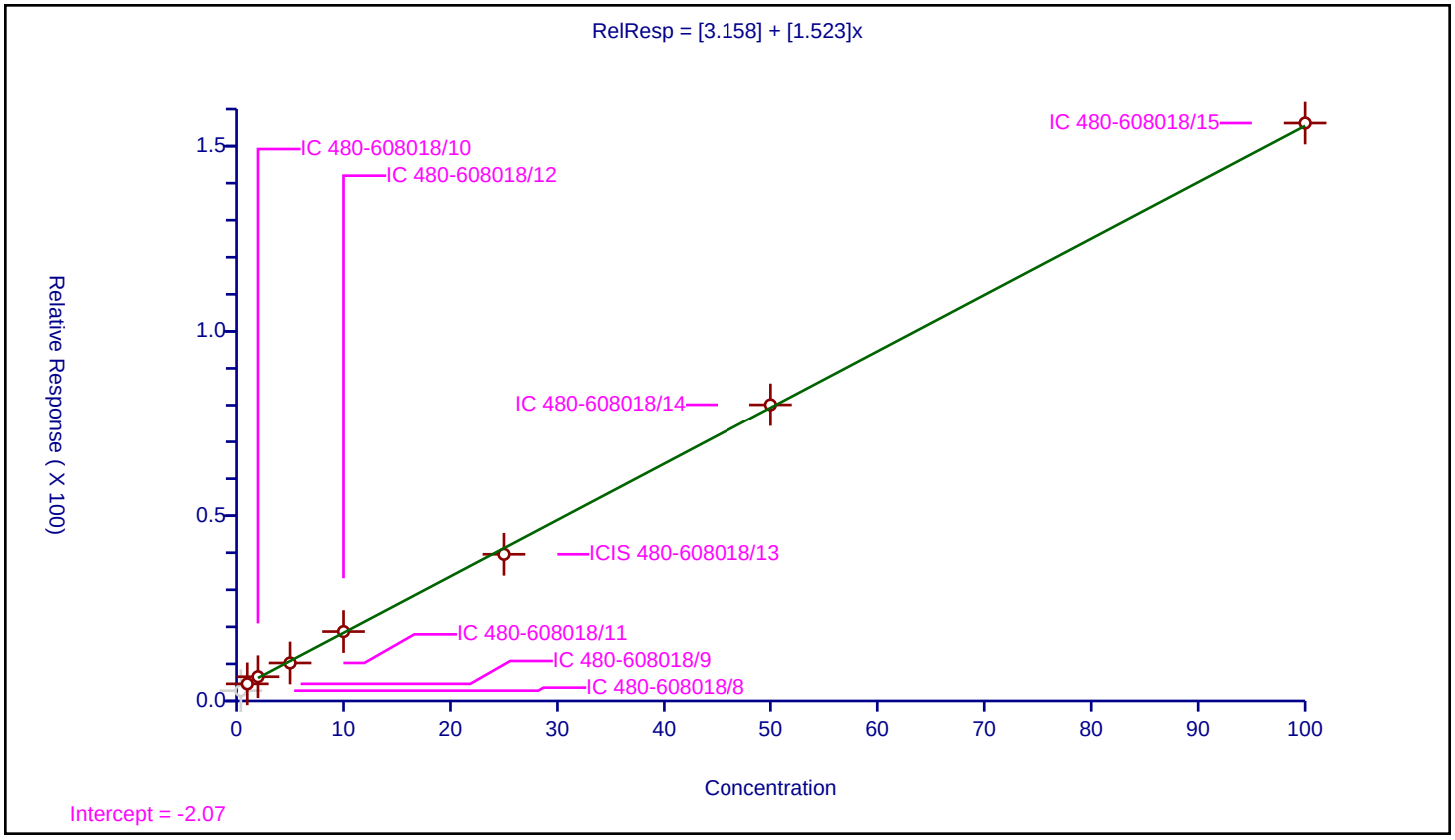
Curve Coefficients

Intercept:	3.158
Slope:	1.523

Error Coefficients

Standard Error:	426000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	2.779437	25.0	118864.0	6.948593	N
2	IC 480-608018/9	1.0	4.623055	25.0	120840.0	4.623055	Y
3	IC 480-608018/10	2.0	6.5433	25.0	121697.0	3.27165	Y
4	IC 480-608018/11	5.0	10.258562	25.0	124825.0	2.051712	Y
5	IC 480-608018/12	10.0	18.732385	25.0	122762.0	1.873238	Y
6	ICIS 480-608018/13	25.0	39.581817	25.0	126368.0	1.583273	Y
7	IC 480-608018/14	50.0	80.114131	25.0	129807.0	1.602283	Y
8	IC 480-608018/15	100.0	156.231237	25.0	132241.0	1.562312	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

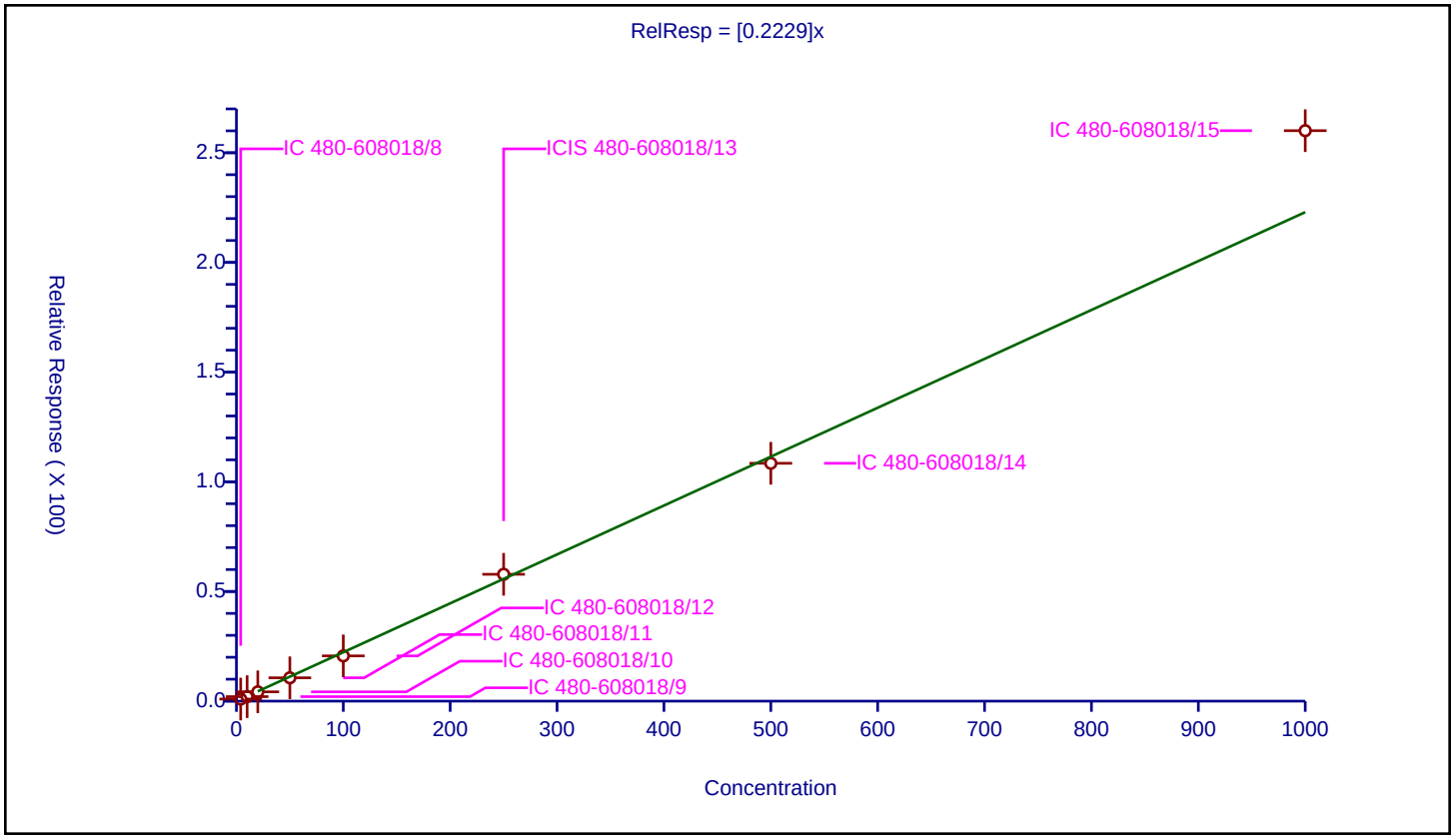
Curve Coefficients

Intercept:	0
Slope:	0.2229

Error Coefficients

Standard Error:	574000
Relative Standard Error:	8.6
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	4.0	0.955504	25.0	118864.0	0.238876	Y
2	IC 480-608018/9	10.0	2.048163	25.0	120840.0	0.204816	Y
3	IC 480-608018/10	20.0	4.244558	25.0	121697.0	0.212228	Y
4	IC 480-608018/11	50.0	10.6429	25.0	124825.0	0.212858	Y
5	IC 480-608018/12	100.0	20.622628	25.0	122762.0	0.206226	Y
6	ICIS 480-608018/13	250.0	57.833075	25.0	126368.0	0.231332	Y
7	IC 480-608018/14	500.0	108.434638	25.0	129807.0	0.216869	Y
8	IC 480-608018/15	1000.0	260.066848	25.0	132241.0	0.260067	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

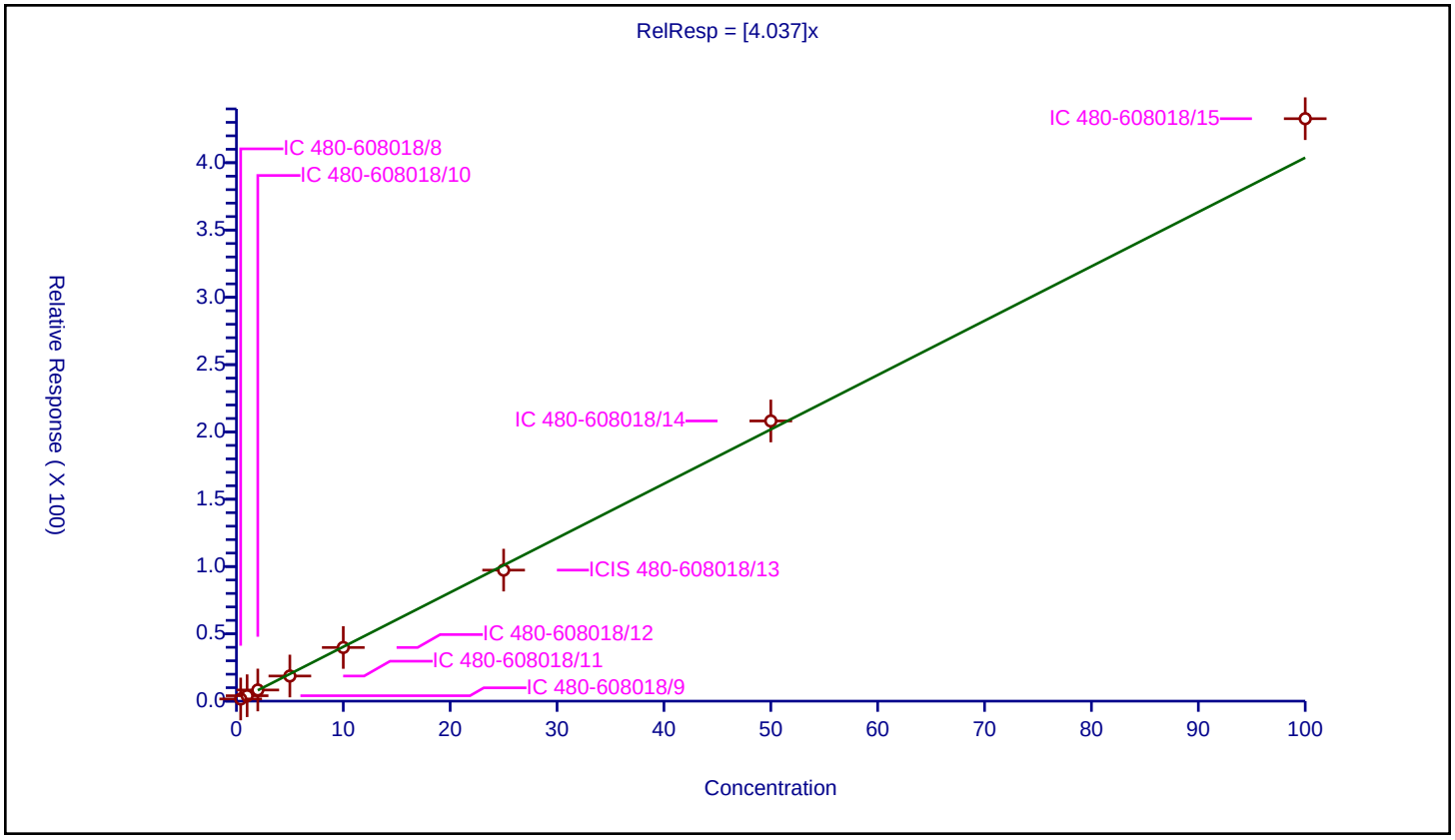
Curve Coefficients

Intercept:	0
Slope:	4.037

Error Coefficients

Standard Error:	978000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.615922	25.0	118864.0	4.039806	Y
2	IC 480-608018/9	1.0	4.018951	25.0	120840.0	4.018951	Y
3	IC 480-608018/10	2.0	8.273006	25.0	121697.0	4.136503	Y
4	IC 480-608018/11	5.0	18.67134	25.0	124825.0	3.734268	Y
5	IC 480-608018/12	10.0	39.855981	25.0	122762.0	3.985598	Y
6	ICIS 480-608018/13	25.0	97.348815	25.0	126368.0	3.893953	Y
7	IC 480-608018/14	50.0	208.14748	25.0	129807.0	4.16295	Y
8	IC 480-608018/15	100.0	432.718862	25.0	132241.0	4.327189	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

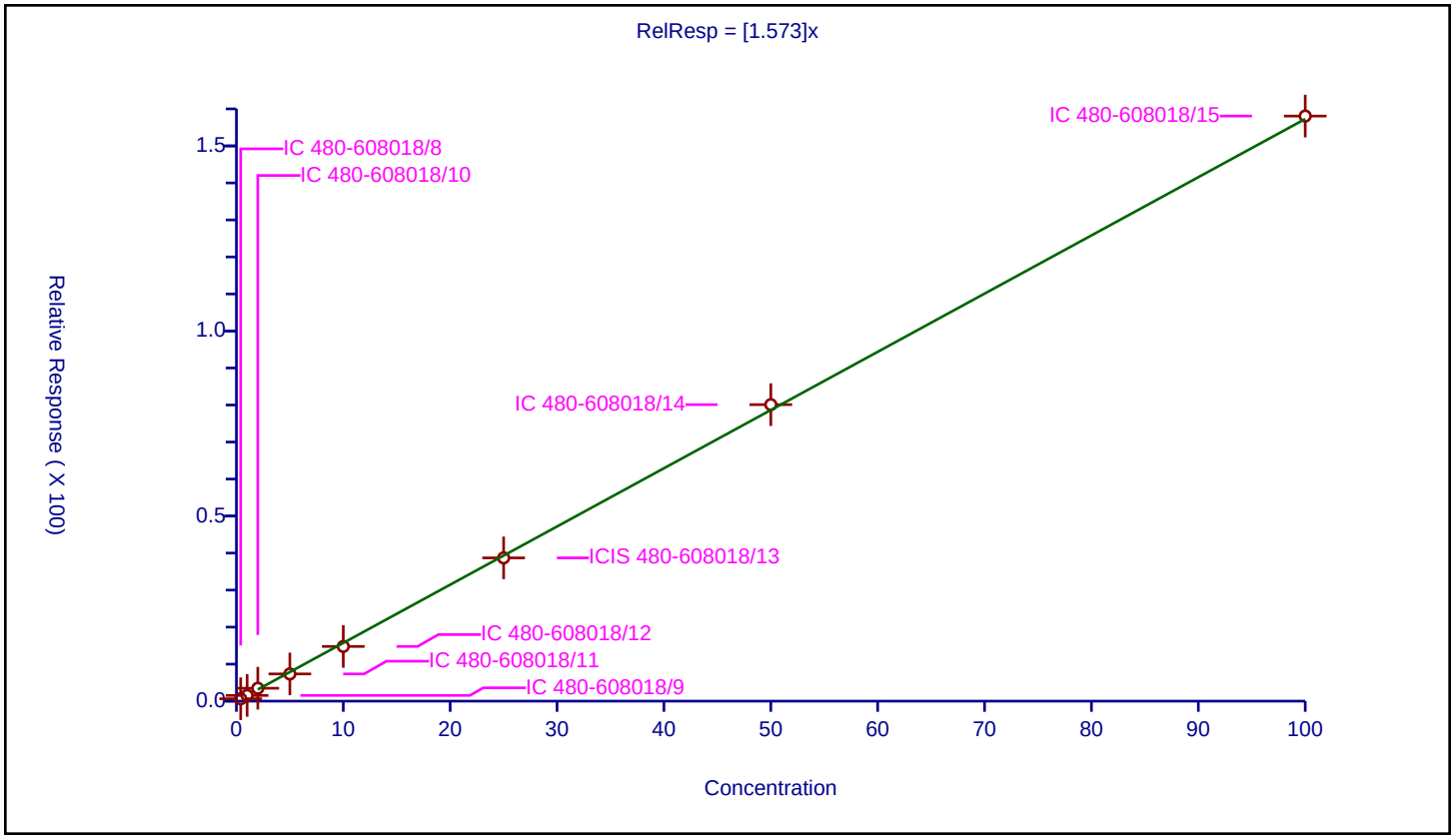
Curve Coefficients

Intercept:	0
Slope:	1.573

Error Coefficients

Standard Error:	362000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.646537	25.0	118864.0	1.616343	Y
2	IC 480-608018/9	1.0	1.544811	25.0	120840.0	1.544811	Y
3	IC 480-608018/10	2.0	3.483652	25.0	121697.0	1.741826	Y
4	IC 480-608018/11	5.0	7.353094	25.0	124825.0	1.470619	Y
5	IC 480-608018/12	10.0	14.778596	25.0	122762.0	1.47786	Y
6	ICIS 480-608018/13	25.0	38.699473	25.0	126368.0	1.547979	Y
7	IC 480-608018/14	50.0	80.102768	25.0	129807.0	1.602055	Y
8	IC 480-608018/15	100.0	158.064821	25.0	132241.0	1.580648	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

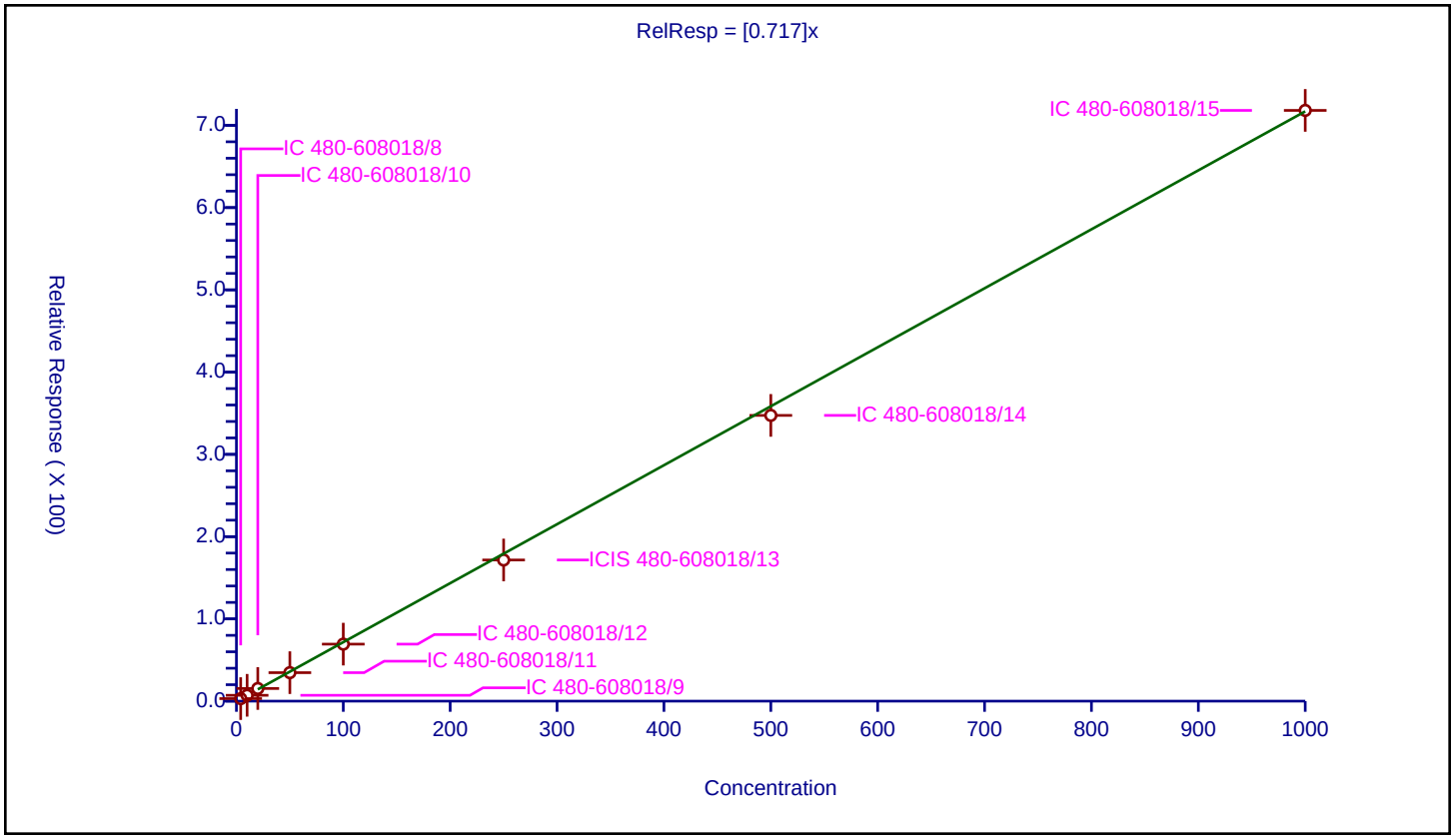
Curve Coefficients

Intercept:	0
Slope:	0.717

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	4.0	3.083987	25.0	118864.0	0.770997	Y
2	IC 480-608018/9	10.0	7.11209	25.0	120840.0	0.711209	Y
3	IC 480-608018/10	20.0	15.375893	25.0	121697.0	0.768795	Y
4	IC 480-608018/11	50.0	34.631885	25.0	124825.0	0.692638	Y
5	IC 480-608018/12	100.0	69.294855	25.0	122762.0	0.692949	Y
6	ICIS 480-608018/13	250.0	171.580028	25.0	126368.0	0.68632	Y
7	IC 480-608018/14	500.0	347.387082	25.0	129807.0	0.694774	Y
8	IC 480-608018/15	1000.0	718.154733	25.0	132241.0	0.718155	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

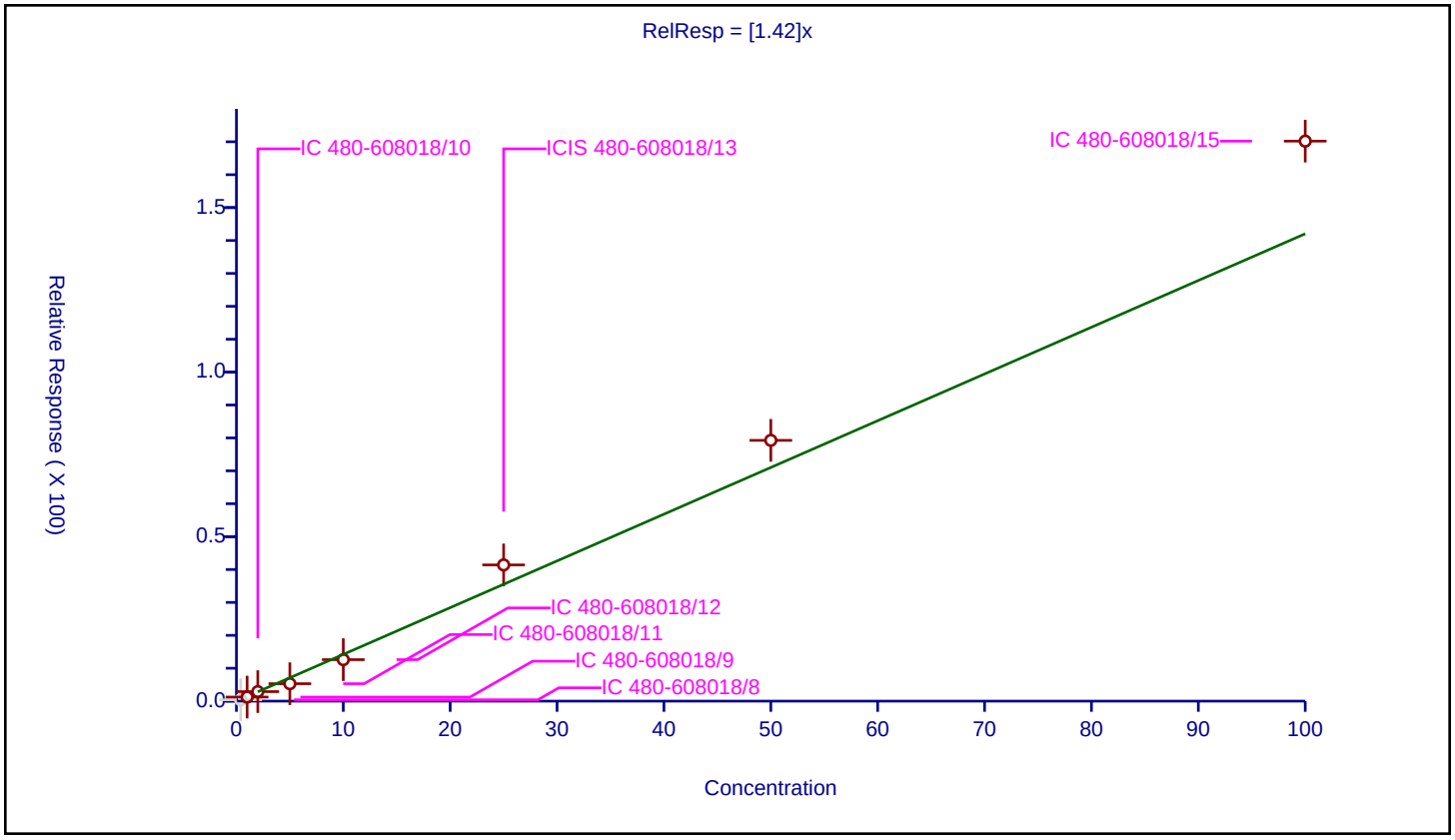
Curve Coefficients

Intercept:	0
Slope:	1.42

Error Coefficients

Standard Error:	414000
Relative Standard Error:	17.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.406978	25.0	118864.0	1.017444	N
2	IC 480-608018/9	1.0	1.232829	25.0	120840.0	1.232829	Y
3	IC 480-608018/10	2.0	2.894278	25.0	121697.0	1.447139	Y
4	IC 480-608018/11	5.0	5.297016	25.0	124825.0	1.059403	Y
5	IC 480-608018/12	10.0	12.605081	25.0	122762.0	1.260508	Y
6	ICIS 480-608018/13	25.0	41.401502	25.0	126368.0	1.65606	Y
7	IC 480-608018/14	50.0	79.261712	25.0	129807.0	1.585234	Y
8	IC 480-608018/15	100.0	170.206101	25.0	132241.0	1.702061	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

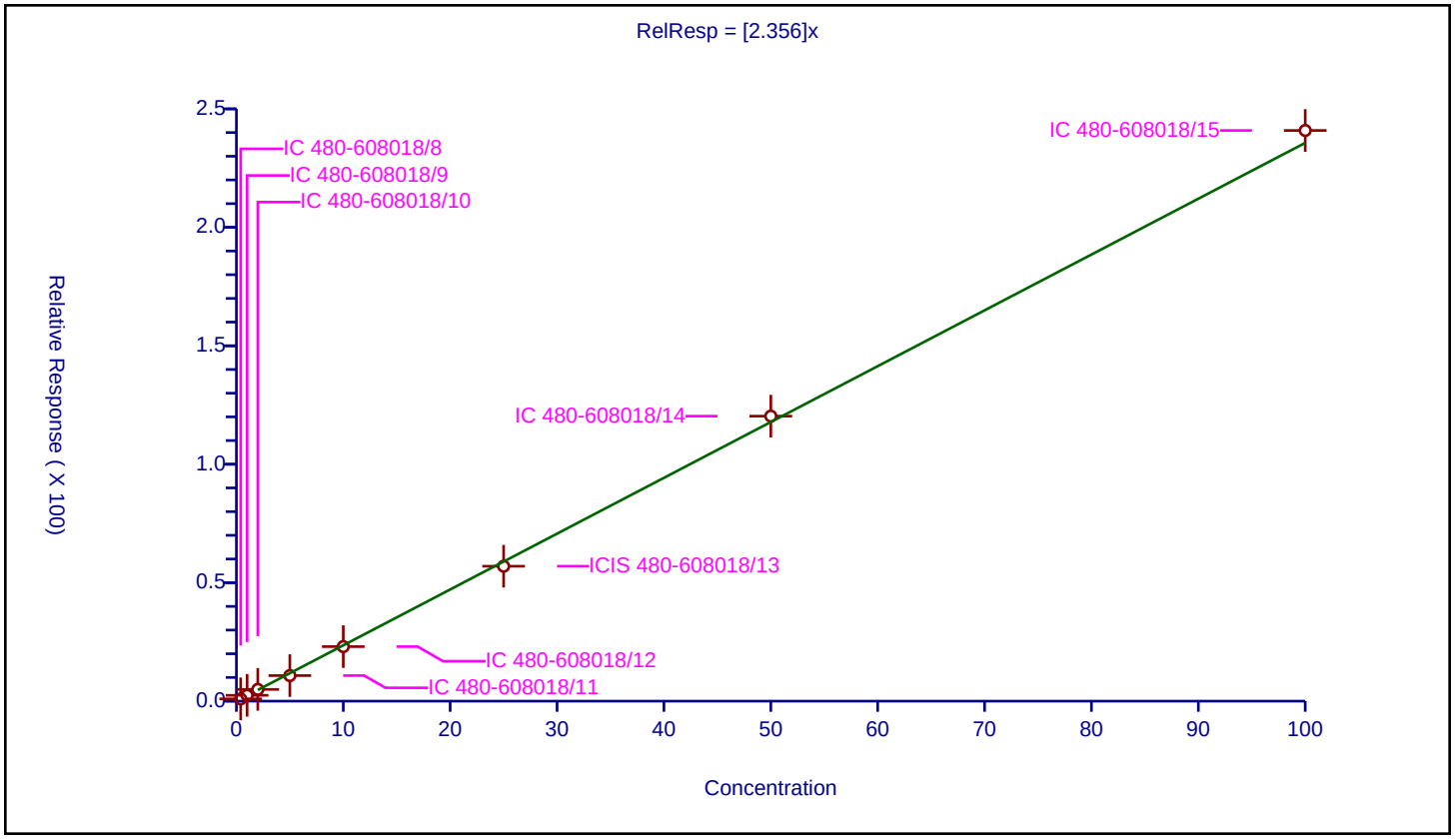
Curve Coefficients

Intercept:	0
Slope:	2.356

Error Coefficients

Standard Error:	549000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.944777	25.0	118864.0	2.361943	Y
2	IC 480-608018/9	1.0	2.459864	25.0	120840.0	2.459864	Y
3	IC 480-608018/10	2.0	4.95534	25.0	121697.0	2.47767	Y
4	IC 480-608018/11	5.0	10.789105	25.0	124825.0	2.157821	Y
5	IC 480-608018/12	10.0	23.016691	25.0	122762.0	2.301669	Y
6	ICIS 480-608018/13	25.0	56.944796	25.0	126368.0	2.277792	Y
7	IC 480-608018/14	50.0	120.304953	25.0	129807.0	2.406099	Y
8	IC 480-608018/15	100.0	240.877829	25.0	132241.0	2.408778	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

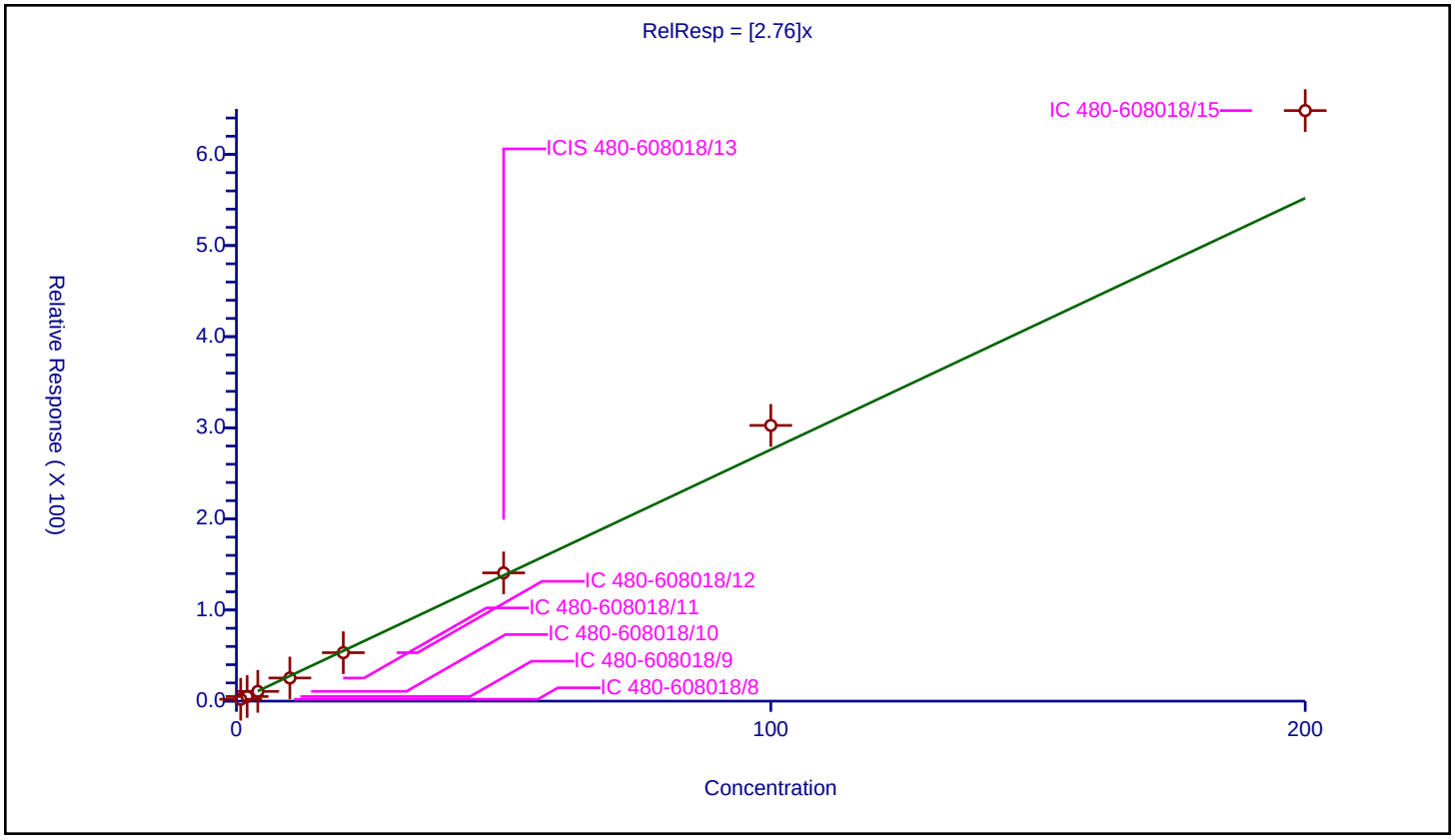
Curve Coefficients

Intercept:	0
Slope:	2.76

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	9.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.8	2.068751	25.0	118864.0	2.585939	Y
2	IC 480-608018/9	2.0	5.078203	25.0	120840.0	2.539101	Y
3	IC 480-608018/10	4.0	10.710206	25.0	121697.0	2.677552	Y
4	IC 480-608018/11	10.0	25.396155	25.0	124825.0	2.539615	Y
5	IC 480-608018/12	20.0	53.180748	25.0	122762.0	2.659037	Y
6	ICIS 480-608018/13	50.0	140.75201	25.0	126368.0	2.81504	Y
7	IC 480-608018/14	100.0	302.629096	25.0	129807.0	3.026291	Y
8	IC 480-608018/15	200.0	648.165093	25.0	132241.0	3.240825	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

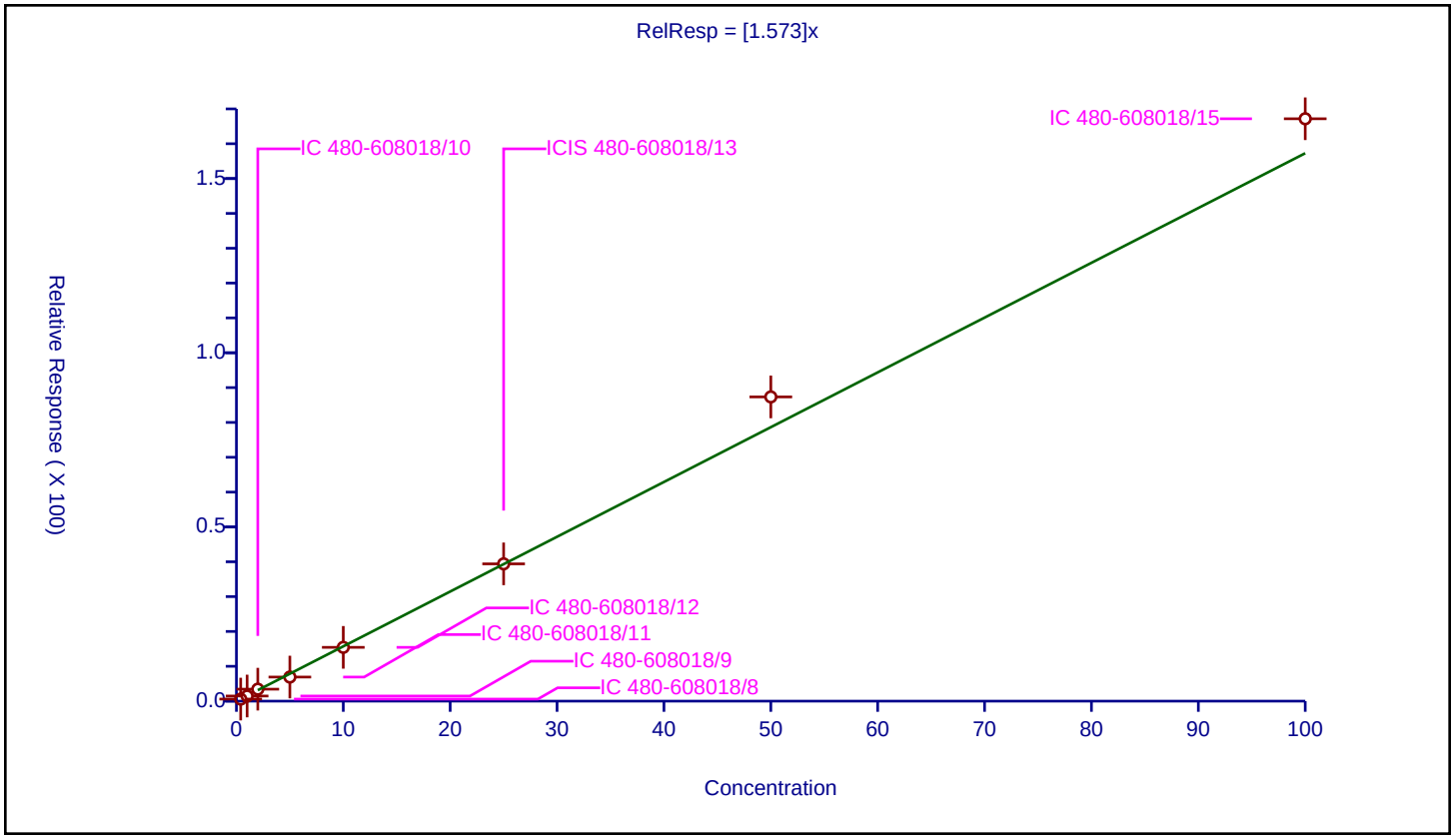
Curve Coefficients

Intercept:	0
Slope:	1.573

Error Coefficients

Standard Error:	384000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.588698	25.0	118864.0	1.471745	Y
2	IC 480-608018/9	1.0	1.470333	25.0	120840.0	1.470333	Y
3	IC 480-608018/10	2.0	3.435171	25.0	121697.0	1.717585	Y
4	IC 480-608018/11	5.0	6.916884	25.0	124825.0	1.383377	Y
5	IC 480-608018/12	10.0	15.440649	25.0	122762.0	1.544065	Y
6	ICIS 480-608018/13	25.0	39.406139	25.0	126368.0	1.576246	Y
7	IC 480-608018/14	50.0	87.328495	25.0	129807.0	1.74657	Y
8	IC 480-608018/15	100.0	167.165251	25.0	132241.0	1.671653	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

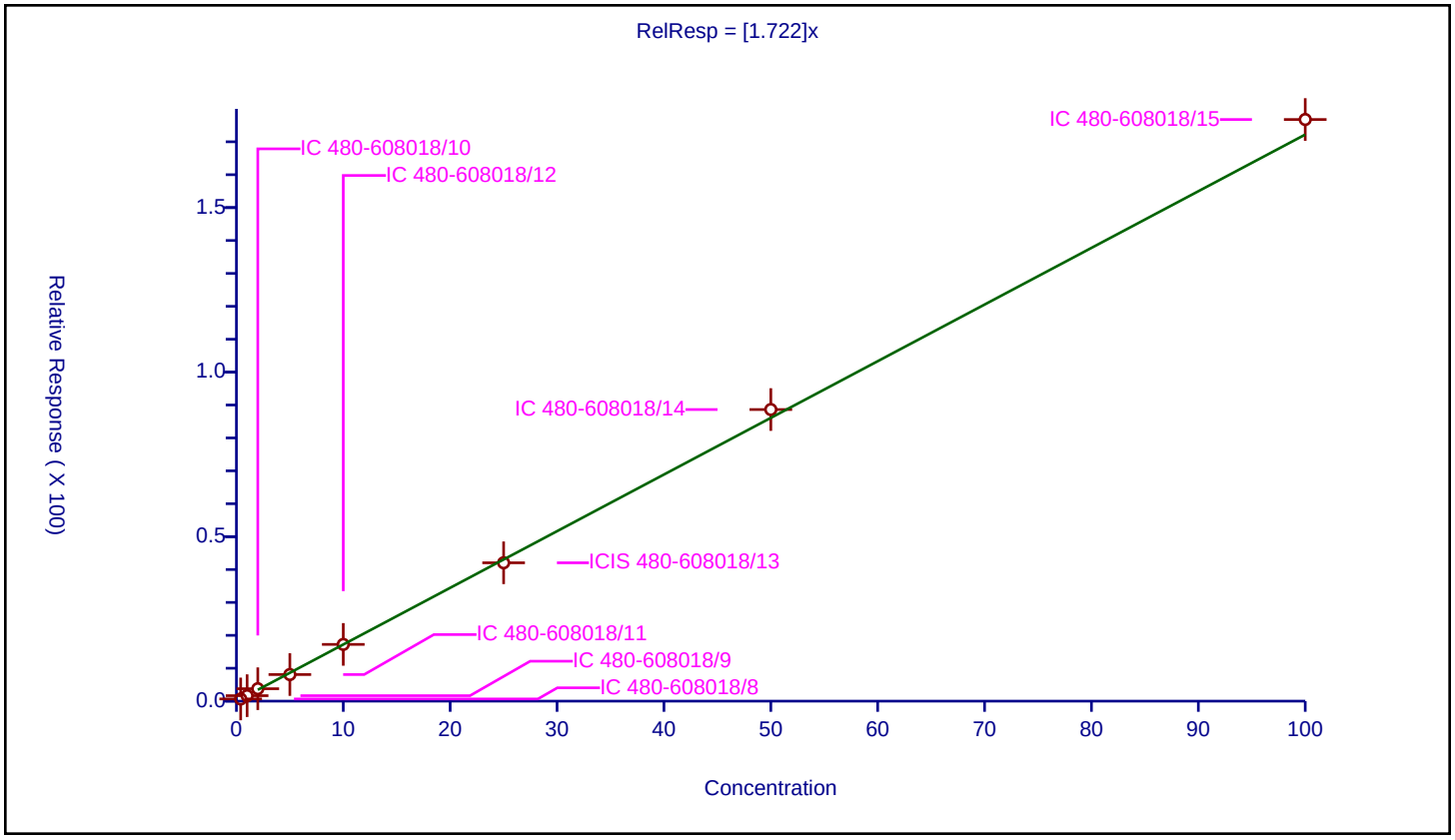
Curve Coefficients

Intercept:	0
Slope:	1.722

Error Coefficients

Standard Error:	404000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.665046	25.0	118864.0	1.662614	Y
2	IC 480-608018/9	1.0	1.660046	25.0	120840.0	1.660046	Y
3	IC 480-608018/10	2.0	3.776798	25.0	121697.0	1.888399	Y
4	IC 480-608018/11	5.0	8.086121	25.0	124825.0	1.617224	Y
5	IC 480-608018/12	10.0	17.243935	25.0	122762.0	1.724394	Y
6	ICIS 480-608018/13	25.0	42.050796	25.0	126368.0	1.682032	Y
7	IC 480-608018/14	50.0	88.62908	25.0	129807.0	1.772582	Y
8	IC 480-608018/15	100.0	176.772332	25.0	132241.0	1.767723	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

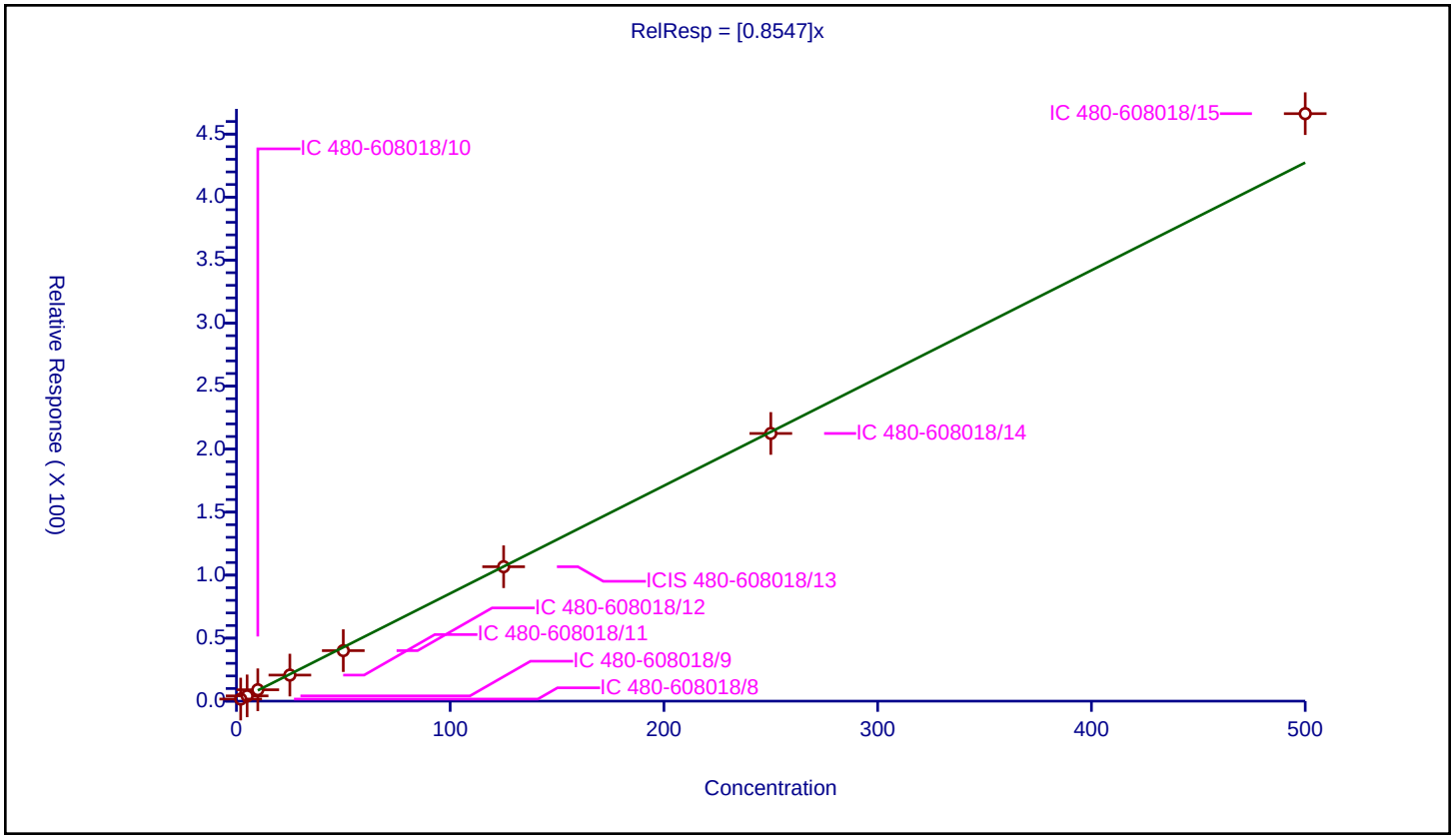
Curve Coefficients

Intercept:	0
Slope:	0.8547

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	5.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	2.0	1.668714	25.0	118864.0	0.834357	Y
2	IC 480-608018/9	5.0	4.179287	25.0	120840.0	0.835857	Y
3	IC 480-608018/10	10.0	9.030214	25.0	121697.0	0.903021	Y
4	IC 480-608018/11	25.0	20.687963	25.0	124825.0	0.827519	Y
5	IC 480-608018/12	50.0	40.076327	25.0	122762.0	0.801527	Y
6	ICIS 480-608018/13	125.0	106.661101	25.0	126368.0	0.853289	Y
7	IC 480-608018/14	250.0	212.441355	25.0	129807.0	0.849765	Y
8	IC 480-608018/15	500.0	466.218684	25.0	132241.0	0.932437	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

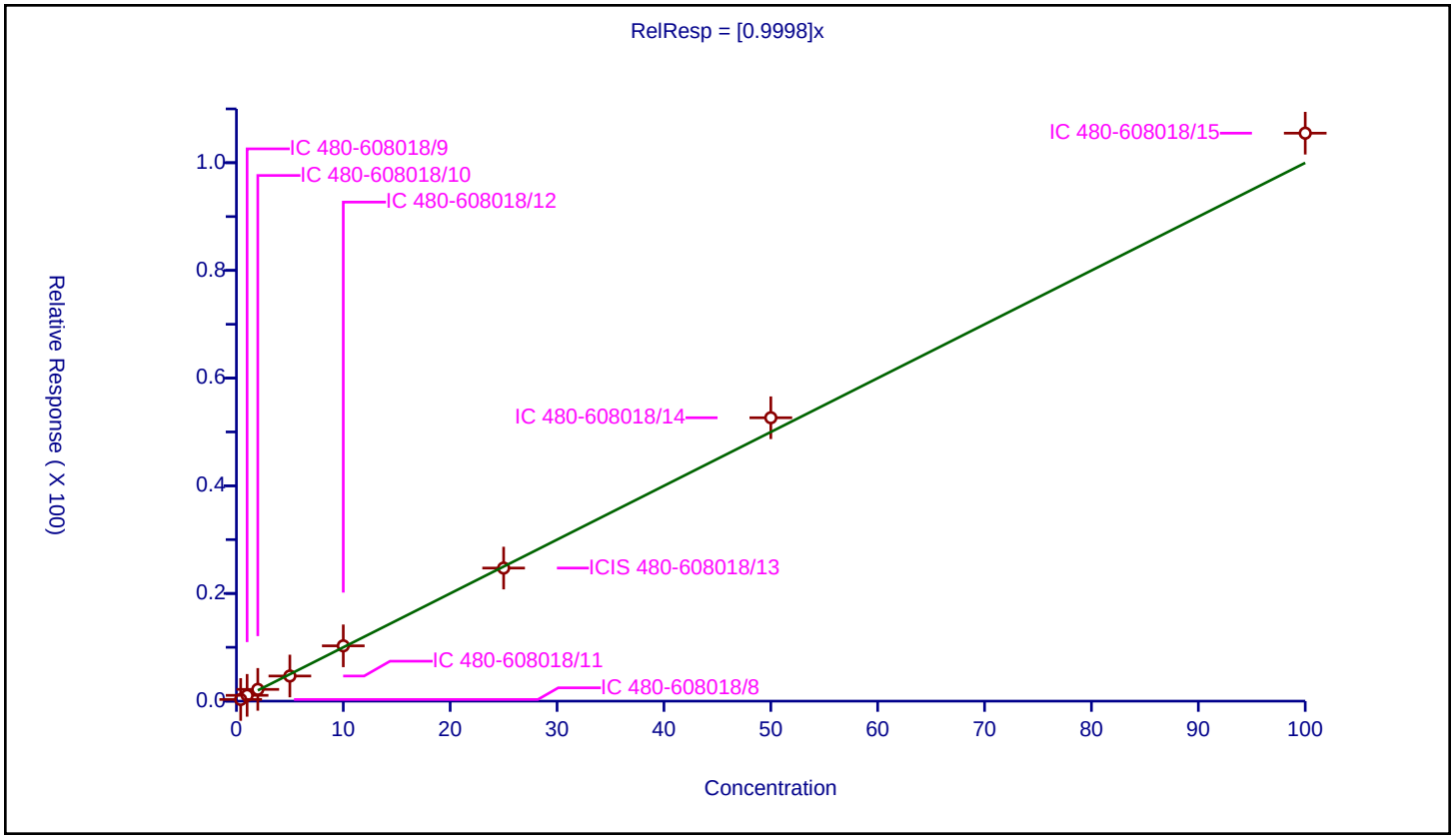
Curve Coefficients

Intercept:	0
Slope:	0.9998

Error Coefficients

Standard Error:	240000
Relative Standard Error:	10.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.308967	25.0	118864.0	0.772416	Y
2	IC 480-608018/9	1.0	1.075803	25.0	120840.0	1.075803	Y
3	IC 480-608018/10	2.0	2.185756	25.0	121697.0	1.092878	Y
4	IC 480-608018/11	5.0	4.668336	25.0	124825.0	0.933667	Y
5	IC 480-608018/12	10.0	10.271908	25.0	122762.0	1.027191	Y
6	ICIS 480-608018/13	25.0	24.716107	25.0	126368.0	0.988644	Y
7	IC 480-608018/14	50.0	52.634488	25.0	129807.0	1.05269	Y
8	IC 480-608018/15	100.0	105.488086	25.0	132241.0	1.054881	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

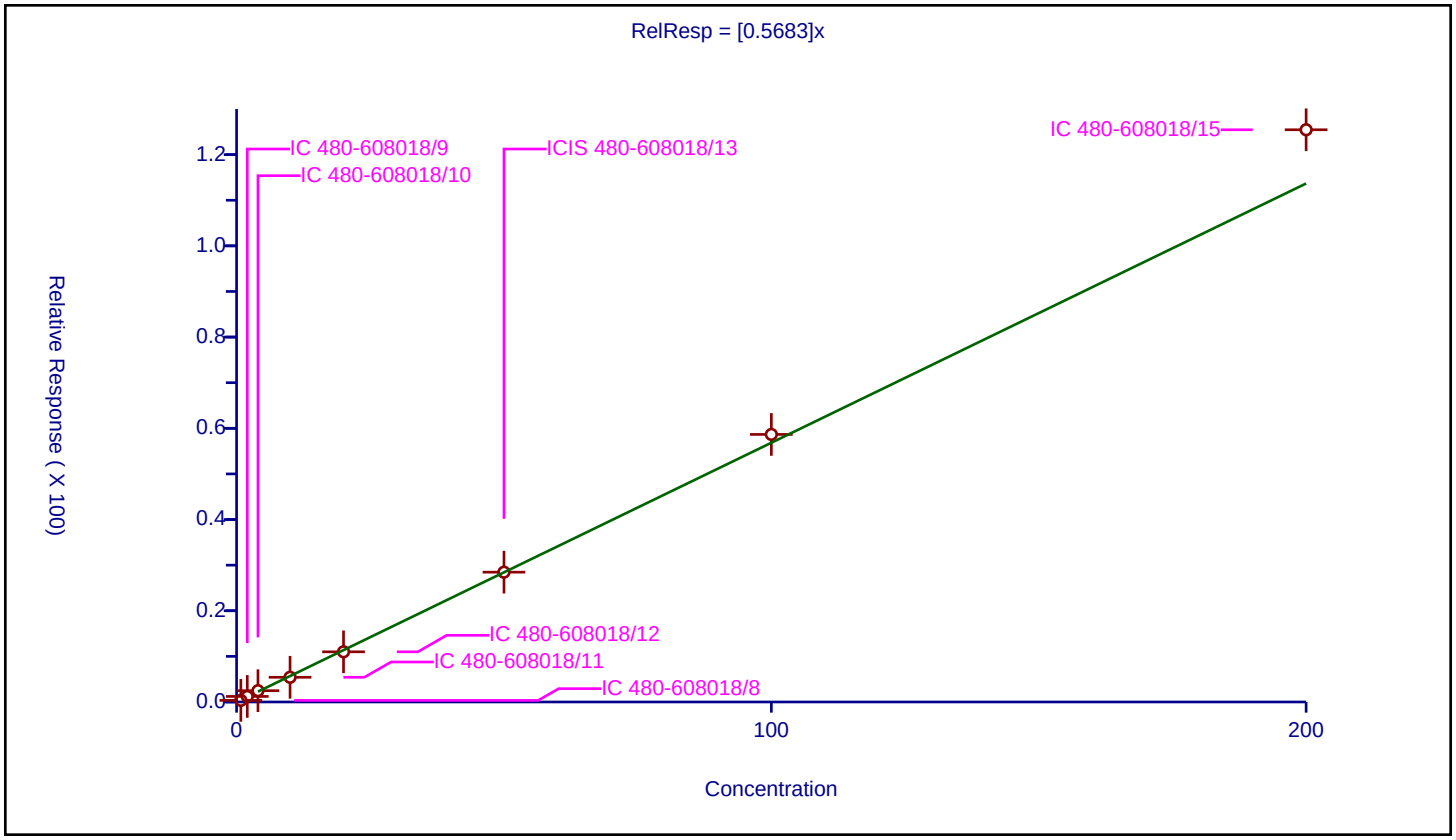
Curve Coefficients

Intercept:	0
Slope:	0.5683

Error Coefficients

Standard Error:	282000
Relative Standard Error:	10.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.8	0.355448	25.0	118864.0	0.44431	Y
2	IC 480-608018/9	2.0	1.216485	25.0	120840.0	0.608242	Y
3	IC 480-608018/10	4.0	2.477259	25.0	121697.0	0.619315	Y
4	IC 480-608018/11	10.0	5.417184	25.0	124825.0	0.541718	Y
5	IC 480-608018/12	20.0	11.001776	25.0	122762.0	0.550089	Y
6	ICIS 480-608018/13	50.0	28.463693	25.0	126368.0	0.569274	Y
7	IC 480-608018/14	100.0	58.656698	25.0	129807.0	0.586567	Y
8	IC 480-608018/15	200.0	125.449936	25.0	132241.0	0.62725	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

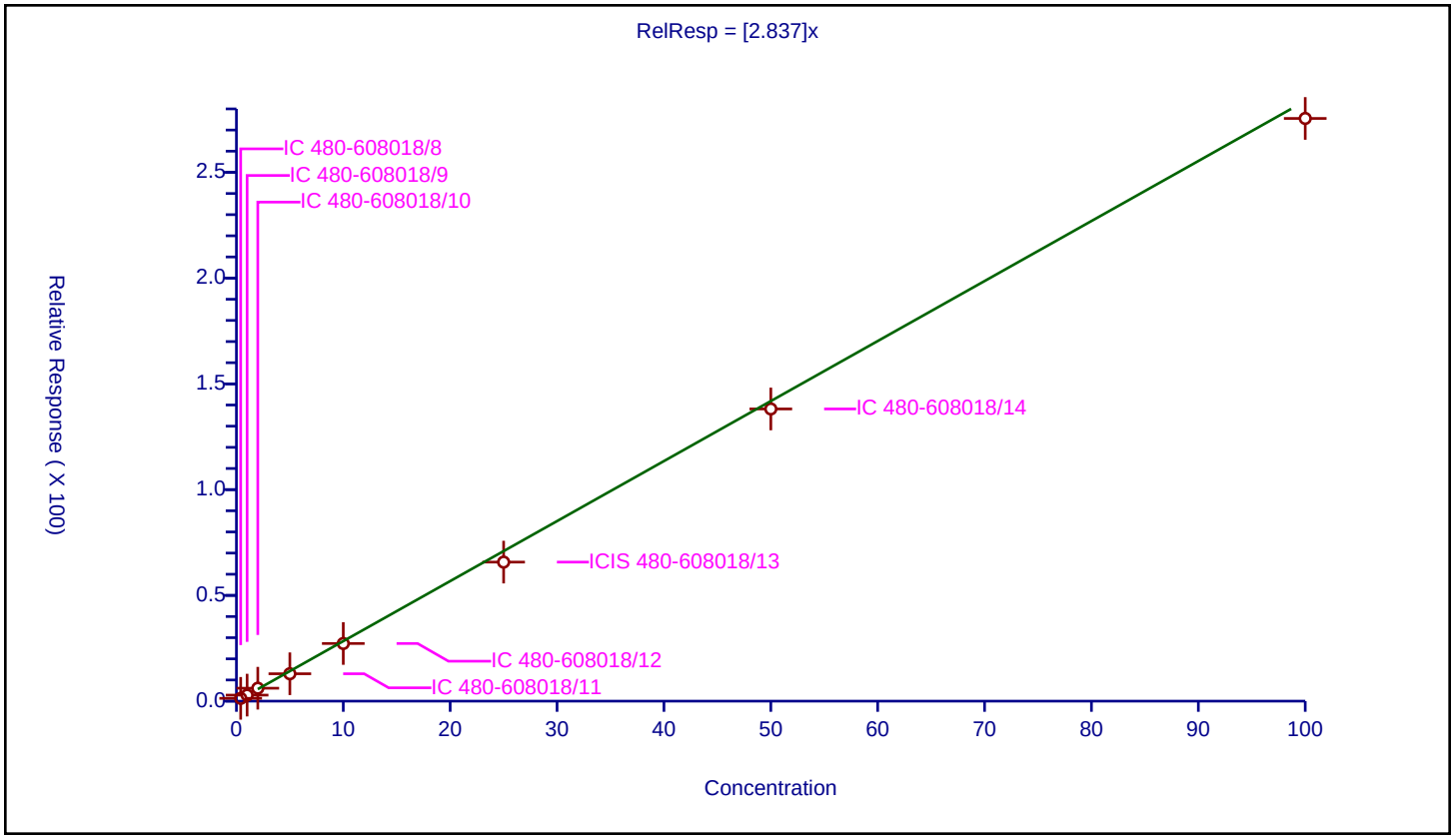
Curve Coefficients

Intercept:	0
Slope:	2.837

Error Coefficients

Standard Error:	629000
Relative Standard Error:	8.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.332826	25.0	118864.0	3.332064	Y
2	IC 480-608018/9	1.0	2.848808	25.0	120840.0	2.848808	Y
3	IC 480-608018/10	2.0	6.111079	25.0	121697.0	3.05554	Y
4	IC 480-608018/11	5.0	12.948127	25.0	124825.0	2.589625	Y
5	IC 480-608018/12	10.0	27.254158	25.0	122762.0	2.725416	Y
6	ICIS 480-608018/13	25.0	65.734403	25.0	126368.0	2.629376	Y
7	IC 480-608018/14	50.0	138.135655	25.0	129807.0	2.762713	Y
8	IC 480-608018/15	100.0	275.485288	25.0	132241.0	2.754853	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

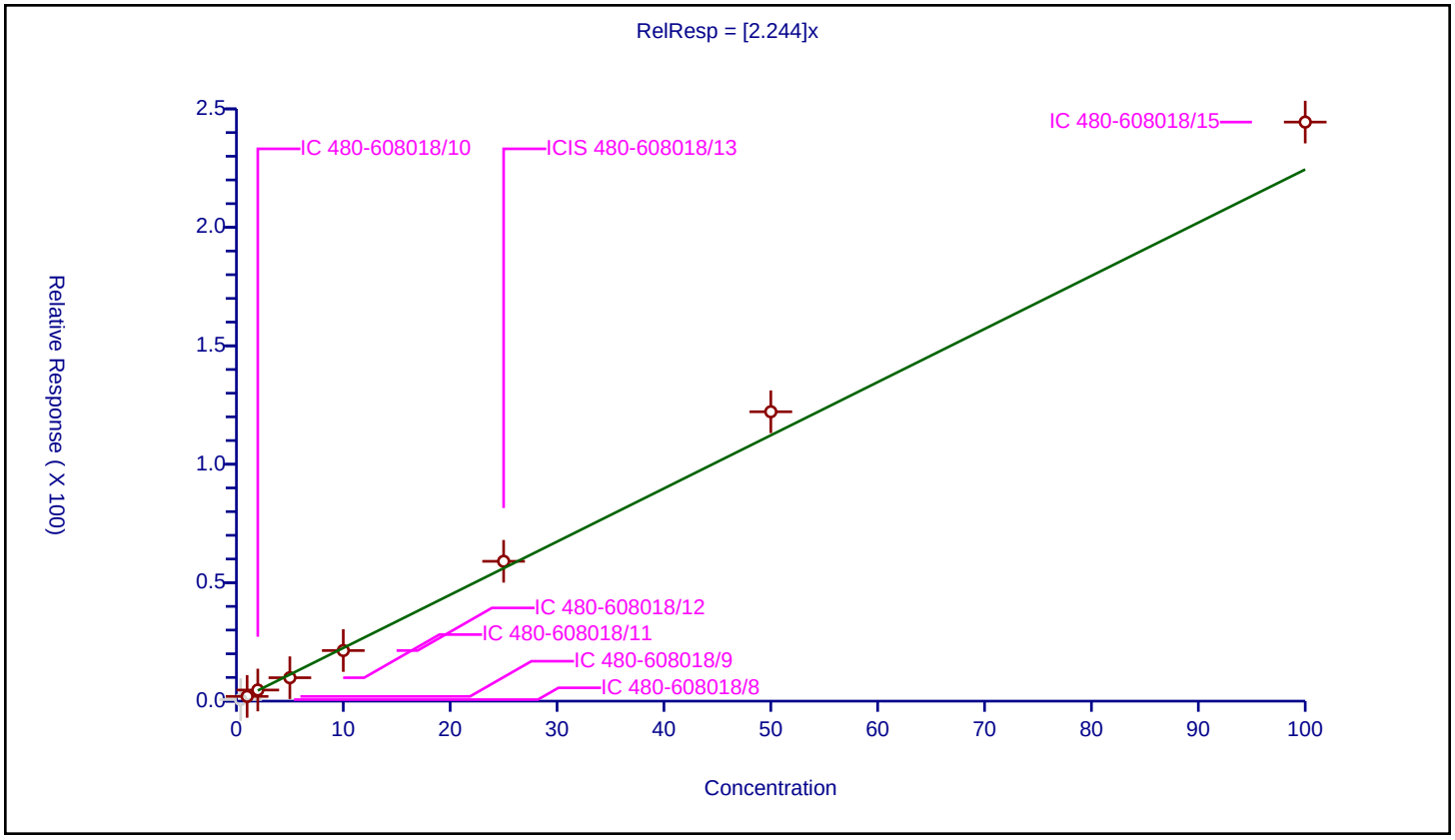
Curve Coefficients

Intercept:	0
Slope:	2.244

Error Coefficients

Standard Error:	602000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.652847	25.0	118864.0	1.632117	N
2	IC 480-608018/9	1.0	1.999545	25.0	120840.0	1.999545	Y
3	IC 480-608018/10	2.0	4.697733	25.0	121697.0	2.348866	Y
4	IC 480-608018/11	5.0	9.885039	25.0	124825.0	1.977008	Y
5	IC 480-608018/12	10.0	21.360641	25.0	122762.0	2.136064	Y
6	ICIS 480-608018/13	25.0	59.025821	25.0	126368.0	2.361033	Y
7	IC 480-608018/14	50.0	122.163289	25.0	129807.0	2.443266	Y
8	IC 480-608018/15	100.0	244.431379	25.0	132241.0	2.444314	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

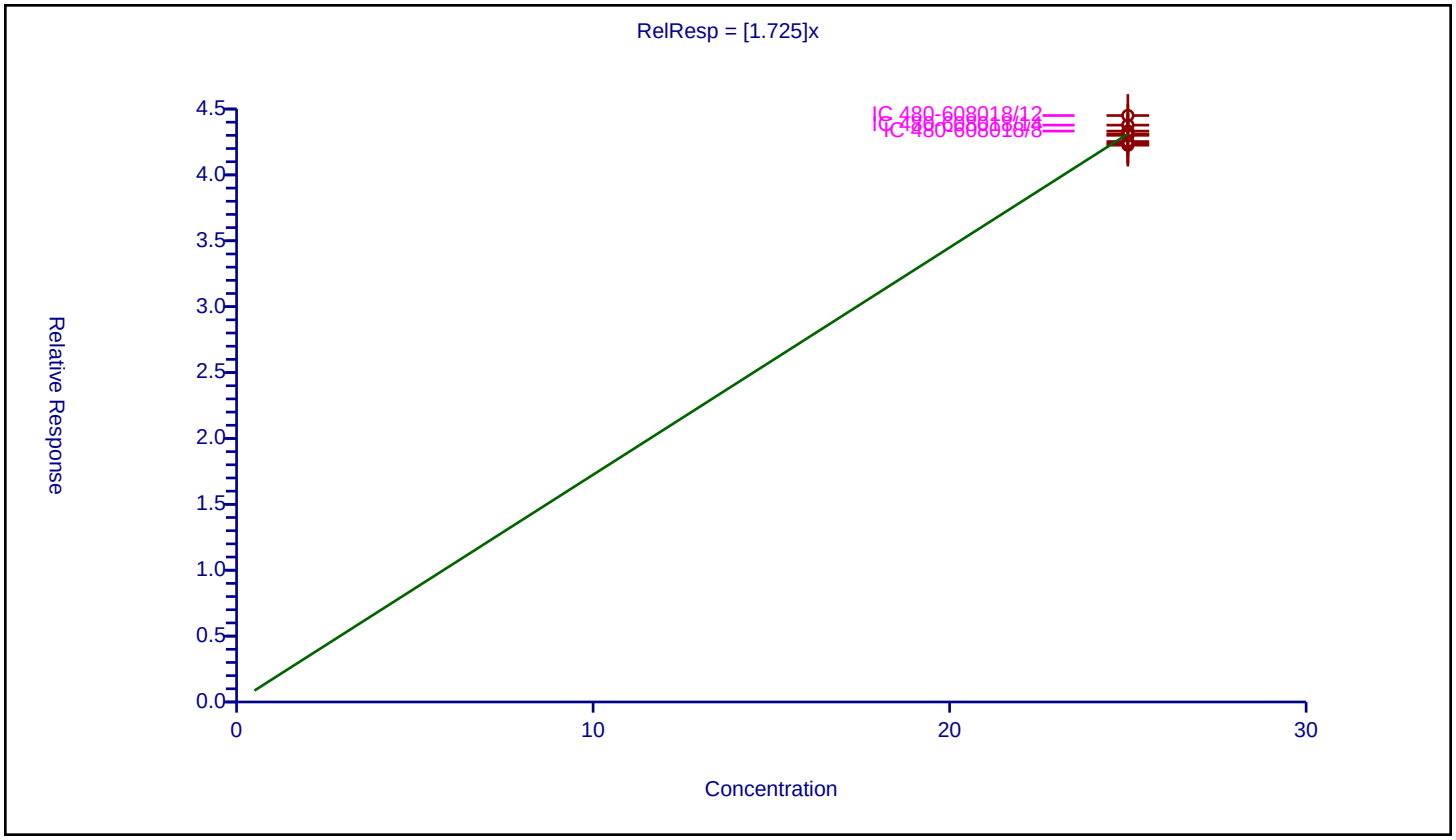
Curve Coefficients

Intercept:	0
Slope:	1.725

Error Coefficients

Standard Error:	230000
Relative Standard Error:	1.8
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	25.0	43.324934	25.0	118864.0	1.732997	Y
2	IC 480-608018/9	25.0	42.40173	25.0	120840.0	1.696069	Y
3	IC 480-608018/10	25.0	42.532889	25.0	121697.0	1.701316	Y
4	IC 480-608018/11	25.0	43.003405	25.0	124825.0	1.720136	Y
5	IC 480-608018/12	25.0	44.505629	25.0	122762.0	1.780225	Y
6	ICIS 480-608018/13	25.0	42.253379	25.0	126368.0	1.690135	Y
7	IC 480-608018/14	25.0	43.7773	25.0	129807.0	1.751092	Y
8	IC 480-608018/15	25.0	43.100854	25.0	132241.0	1.724034	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

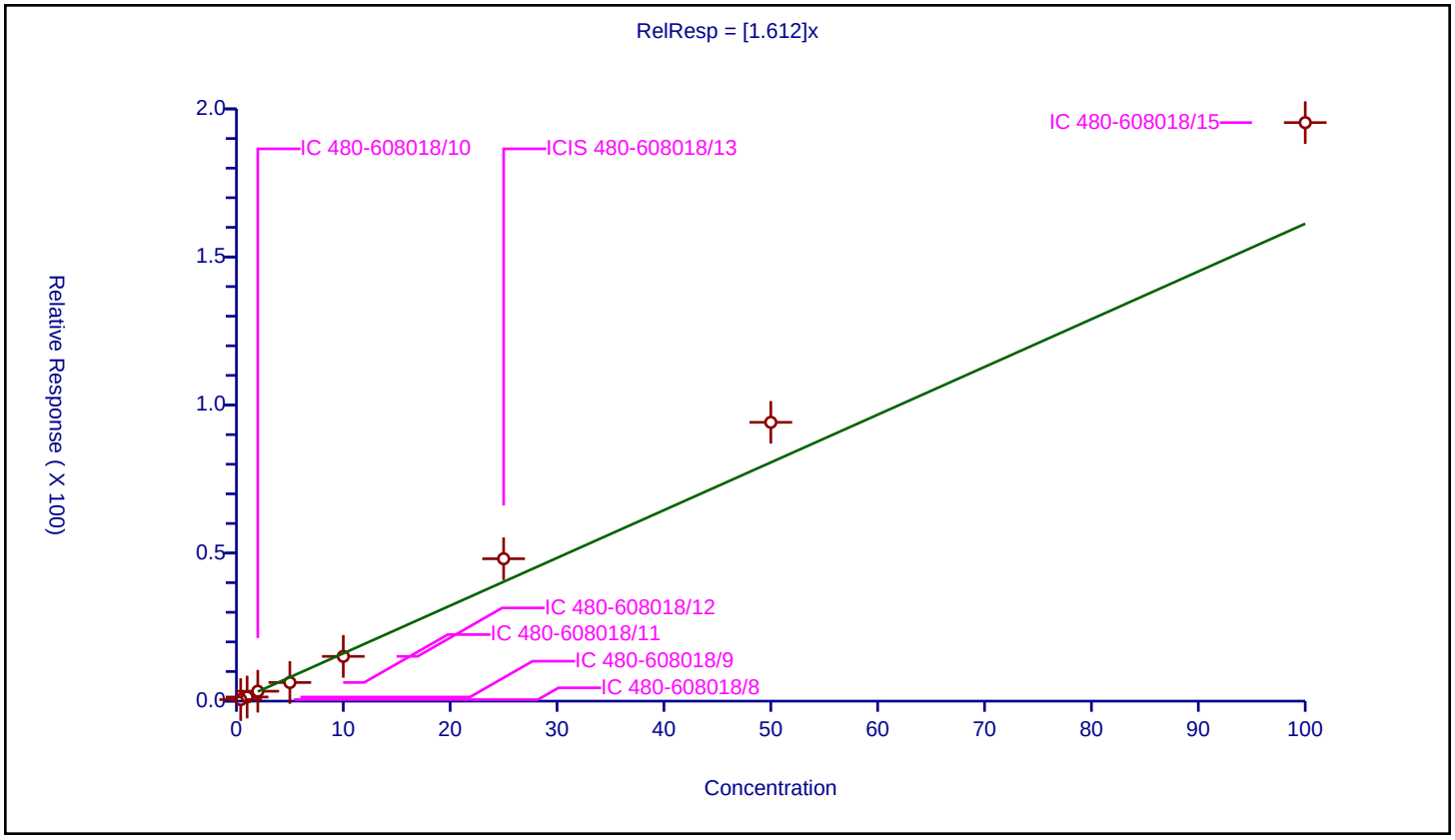
Curve Coefficients

Intercept:	0
Slope:	1.612

Error Coefficients

Standard Error:	443000
Relative Standard Error:	17.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.520763	25.0	118864.0	1.301908	Y
2	IC 480-608018/9	1.0	1.391509	25.0	120840.0	1.391509	Y
3	IC 480-608018/10	2.0	3.349302	25.0	121697.0	1.674651	Y
4	IC 480-608018/11	5.0	6.292209	25.0	124825.0	1.258442	Y
5	IC 480-608018/12	10.0	15.113594	25.0	122762.0	1.511359	Y
6	ICIS 480-608018/13	25.0	48.084365	25.0	126368.0	1.923375	Y
7	IC 480-608018/14	50.0	94.154398	25.0	129807.0	1.883088	Y
8	IC 480-608018/15	100.0	195.365658	25.0	132241.0	1.953657	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

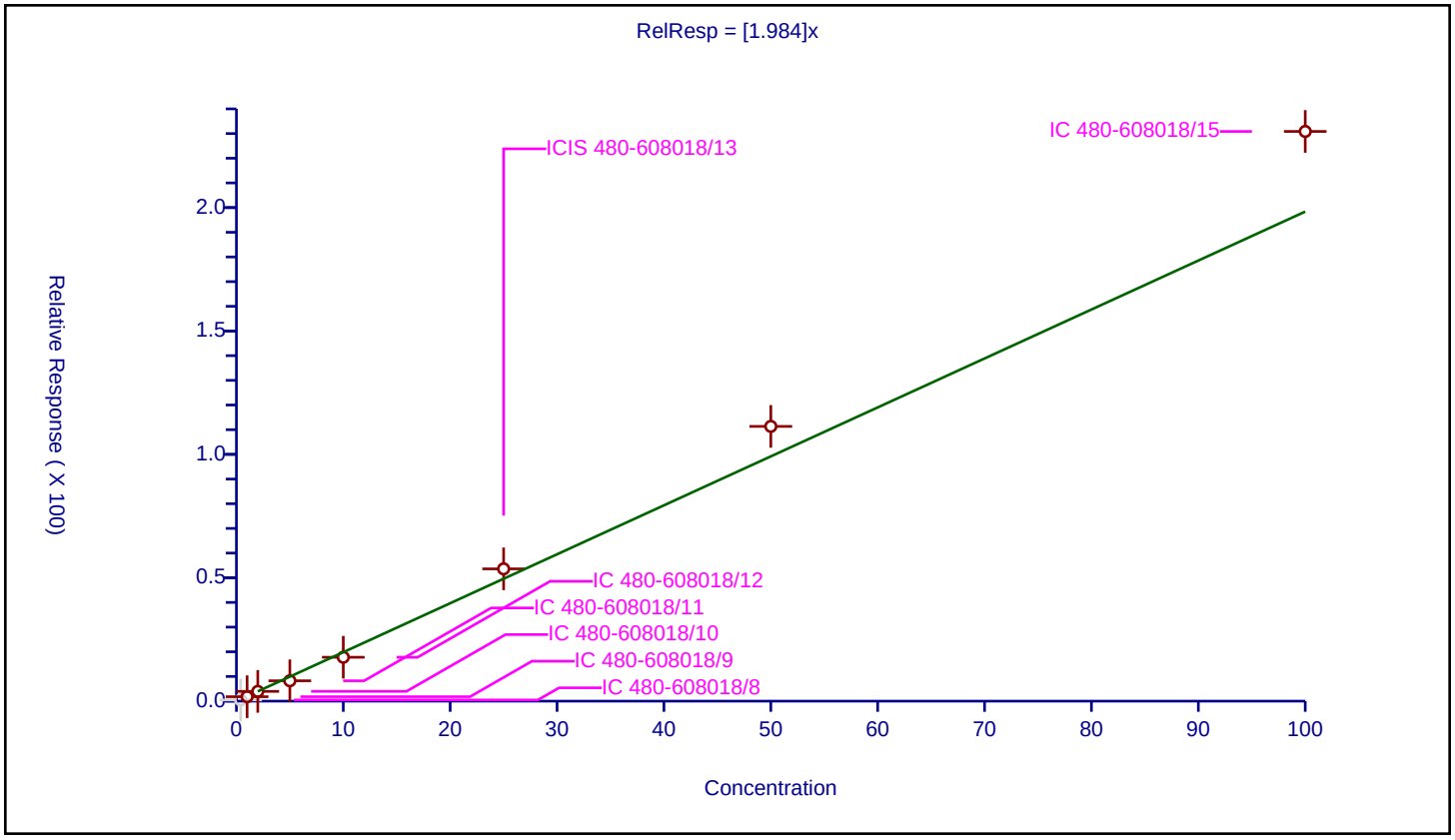
Curve Coefficients

Intercept:	0
Slope:	1.984

Error Coefficients

Standard Error:	564000
Relative Standard Error:	12.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.481012	25.0	118864.0	1.20253	N
2	IC 480-608018/9	1.0	1.801556	25.0	120840.0	1.801556	Y
3	IC 480-608018/10	2.0	3.952645	25.0	121697.0	1.976322	Y
4	IC 480-608018/11	5.0	8.252954	25.0	124825.0	1.650591	Y
5	IC 480-608018/12	10.0	17.780339	25.0	122762.0	1.778034	Y
6	ICIS 480-608018/13	25.0	53.604947	25.0	126368.0	2.144198	Y
7	IC 480-608018/14	50.0	111.339142	25.0	129807.0	2.226783	Y
8	IC 480-608018/15	100.0	230.855408	25.0	132241.0	2.308554	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

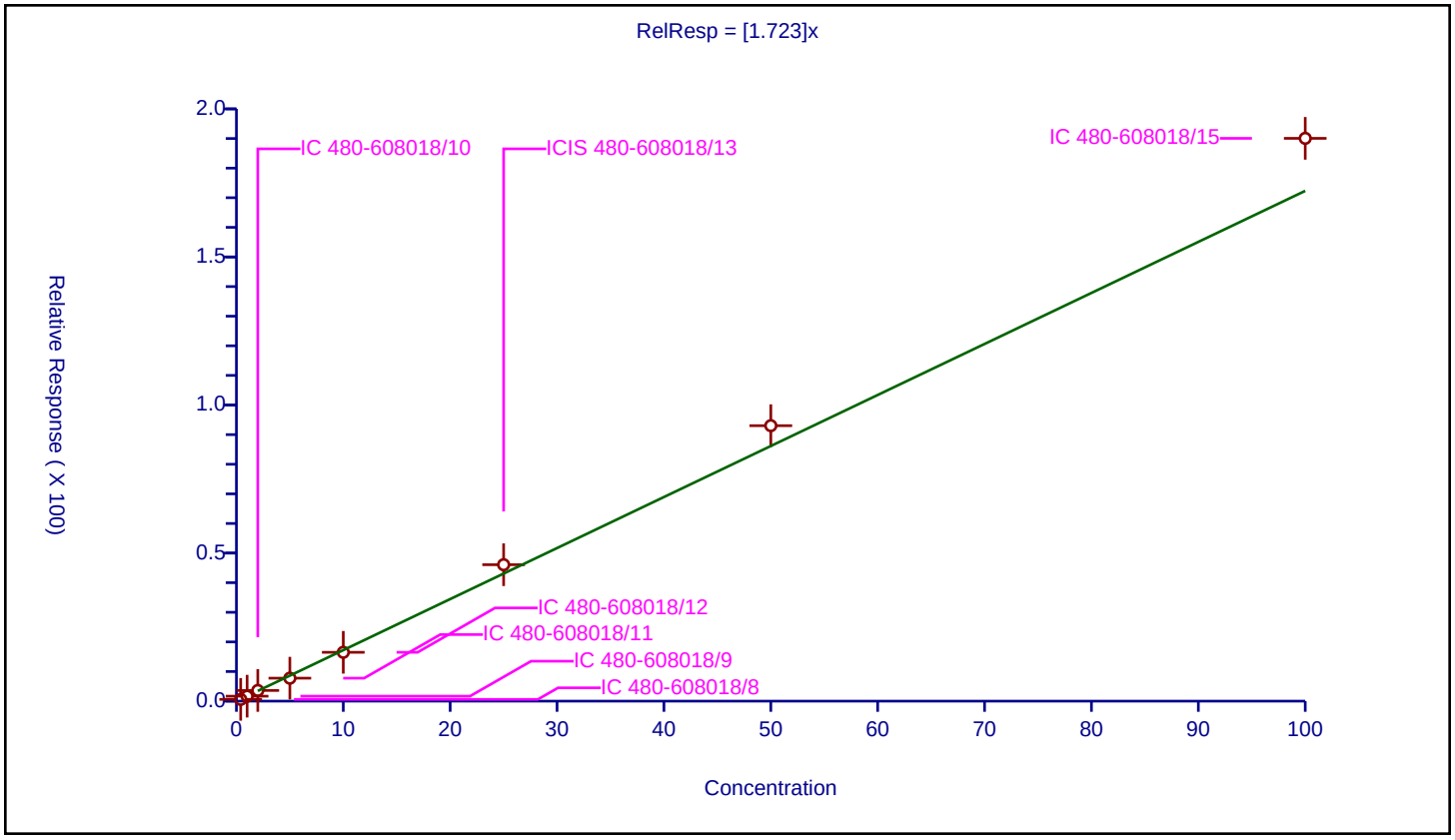
Curve Coefficients

Intercept:	0
Slope:	1.723

Error Coefficients

Standard Error:	432000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.600897	25.0	118864.0	1.502242	Y
2	IC 480-608018/9	1.0	1.67639	25.0	120840.0	1.67639	Y
3	IC 480-608018/10	2.0	3.605266	25.0	121697.0	1.802633	Y
4	IC 480-608018/11	5.0	7.755458	25.0	124825.0	1.551092	Y
5	IC 480-608018/12	10.0	16.488205	25.0	122762.0	1.64882	Y
6	ICIS 480-608018/13	25.0	46.070999	25.0	126368.0	1.84284	Y
7	IC 480-608018/14	50.0	93.021948	25.0	129807.0	1.860439	Y
8	IC 480-608018/15	100.0	190.055656	25.0	132241.0	1.900557	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

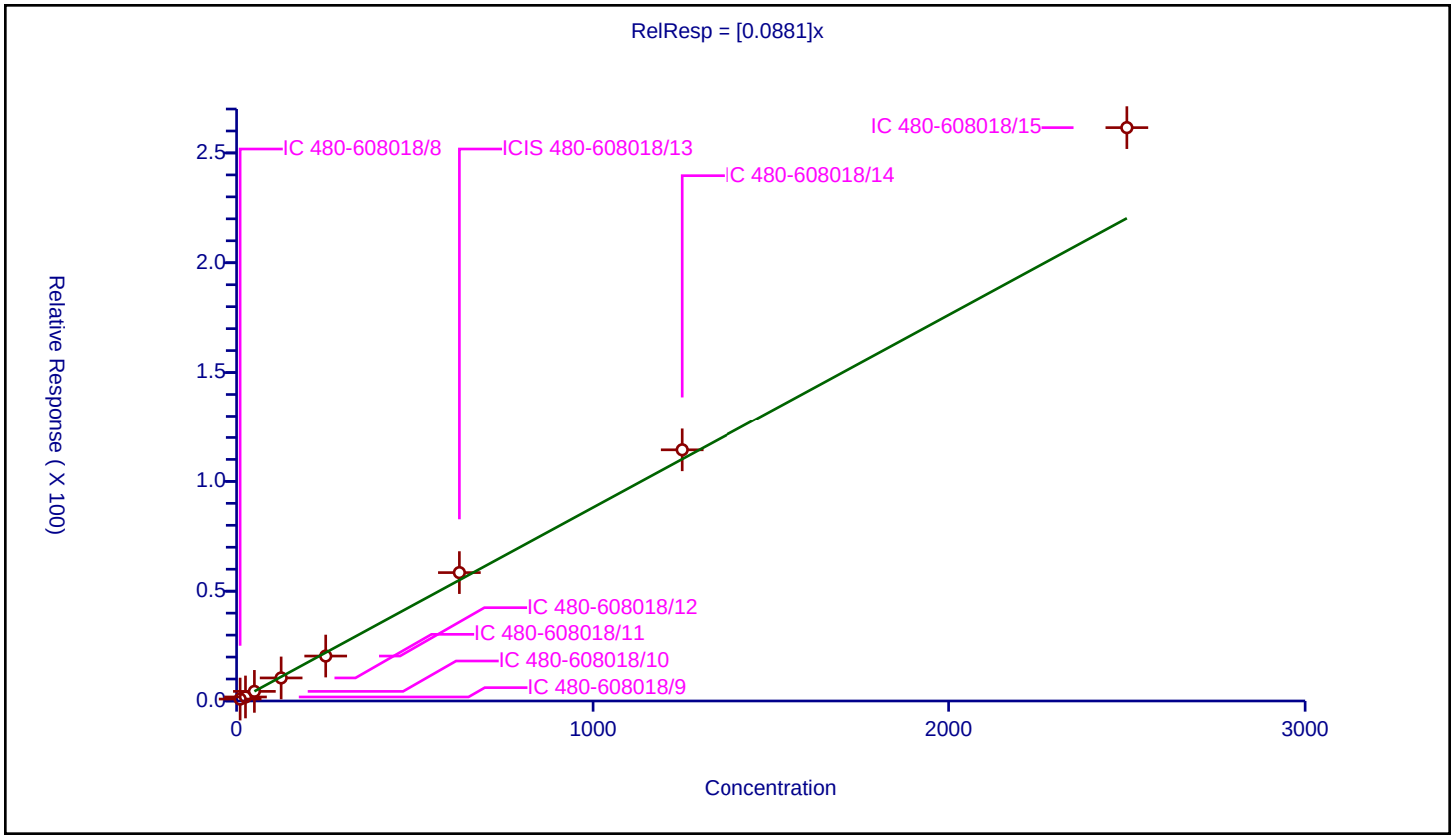
Curve Coefficients

Intercept:	0
Slope:	0.0881

Error Coefficients

Standard Error:	581000
Relative Standard Error:	10.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	10.0	0.884204	25.0	118864.0	0.08842	Y
2	IC 480-608018/9	25.0	1.832175	25.0	120840.0	0.073287	Y
3	IC 480-608018/10	50.0	4.381784	25.0	121697.0	0.087636	Y
4	IC 480-608018/11	125.0	10.501102	25.0	124825.0	0.084009	Y
5	IC 480-608018/12	250.0	20.460525	25.0	122762.0	0.081842	Y
6	ICIS 480-608018/13	625.0	58.457837	25.0	126368.0	0.093533	Y
7	IC 480-608018/14	1250.0	114.37461	25.0	129807.0	0.0915	Y
8	IC 480-608018/15	2500.0	261.521767	25.0	132241.0	0.104609	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

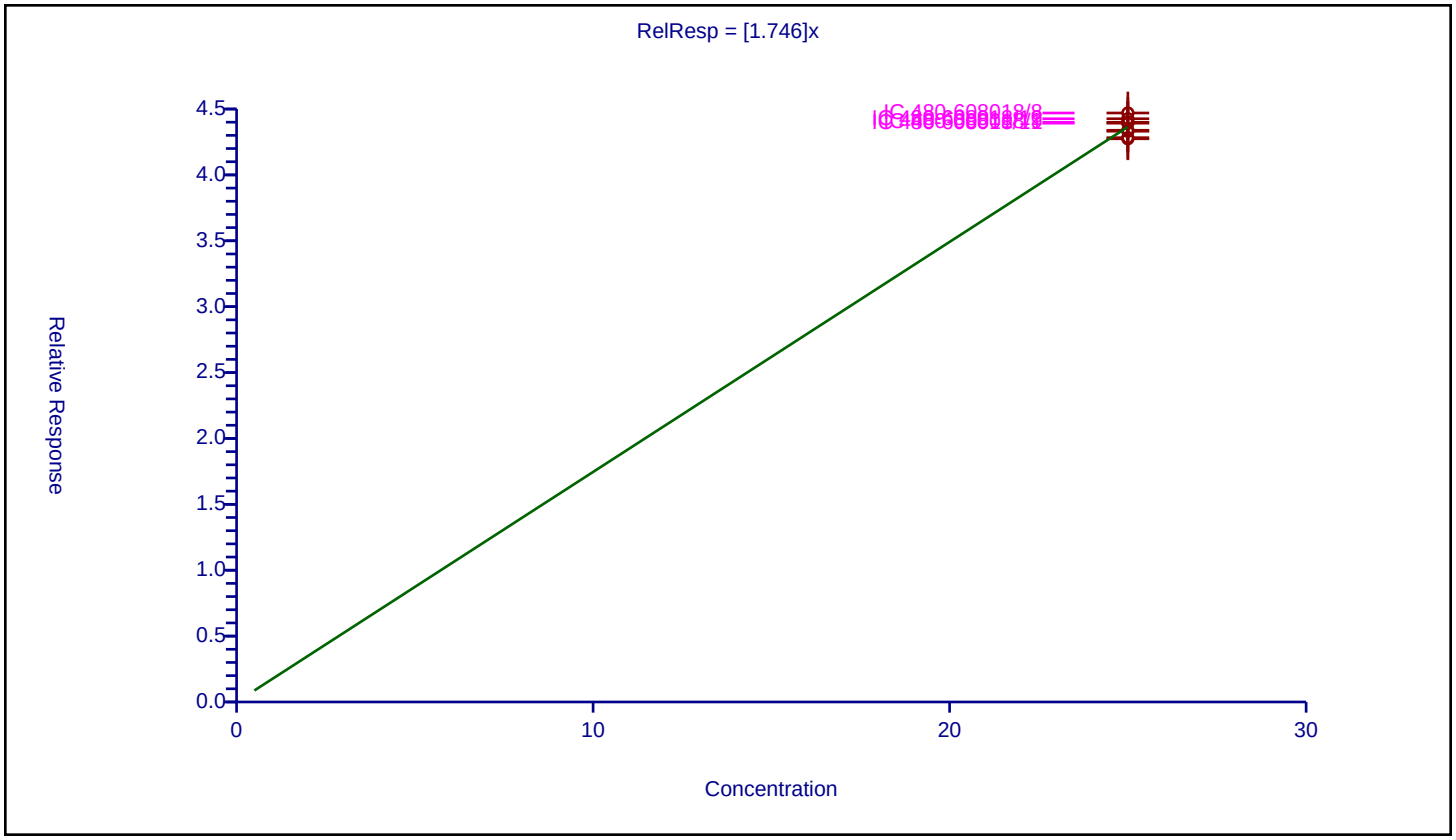
Curve Coefficients

Intercept:	0
Slope:	1.746

Error Coefficients

Standard Error:	233000
Relative Standard Error:	1.6
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	25.0	44.697932	25.0	118864.0	1.787917	Y
2	IC 480-608018/9	25.0	43.989366	25.0	120840.0	1.759575	Y
3	IC 480-608018/10	25.0	43.313927	25.0	121697.0	1.732557	Y
4	IC 480-608018/11	25.0	43.925095	25.0	124825.0	1.757004	Y
5	IC 480-608018/12	25.0	44.260643	25.0	122762.0	1.770426	Y
6	ICIS 480-608018/13	25.0	42.740844	25.0	126368.0	1.709634	Y
7	IC 480-608018/14	25.0	42.82454	25.0	129807.0	1.712982	Y
8	IC 480-608018/15	25.0	43.387263	25.0	132241.0	1.735491	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

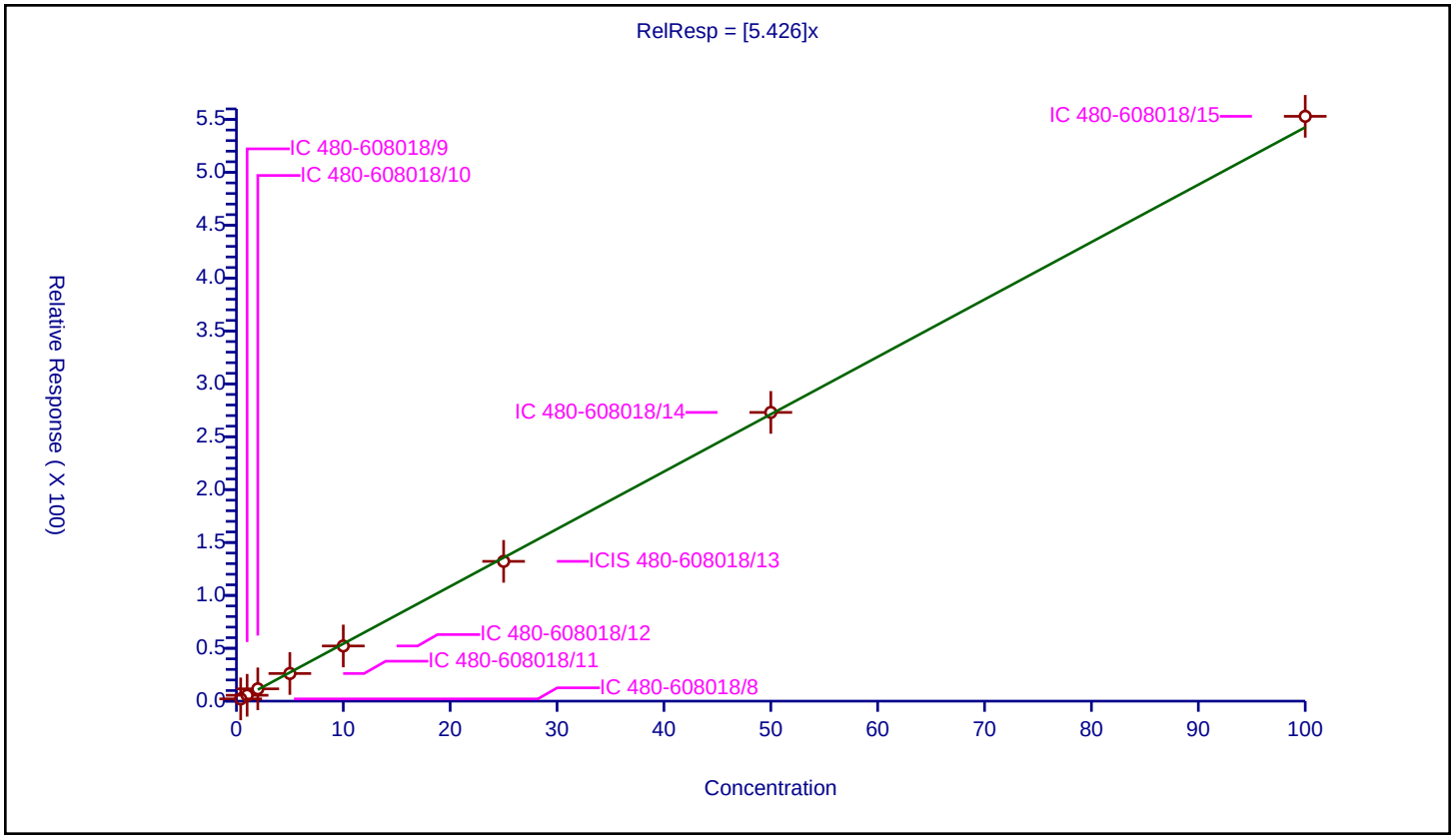
Curve Coefficients

Intercept:	0
Slope:	5.426

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	2.124697	25.0	118864.0	5.311743	Y
2	IC 480-608018/9	1.0	5.560038	25.0	120840.0	5.560038	Y
3	IC 480-608018/10	2.0	11.629498	25.0	121697.0	5.814749	Y
4	IC 480-608018/11	5.0	26.124374	25.0	124825.0	5.224875	Y
5	IC 480-608018/12	10.0	52.167609	25.0	122762.0	5.216761	Y
6	ICIS 480-608018/13	25.0	132.184374	25.0	126368.0	5.287375	Y
7	IC 480-608018/14	50.0	273.009352	25.0	129807.0	5.460187	Y
8	IC 480-608018/15	100.0	552.983946	25.0	132241.0	5.529839	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

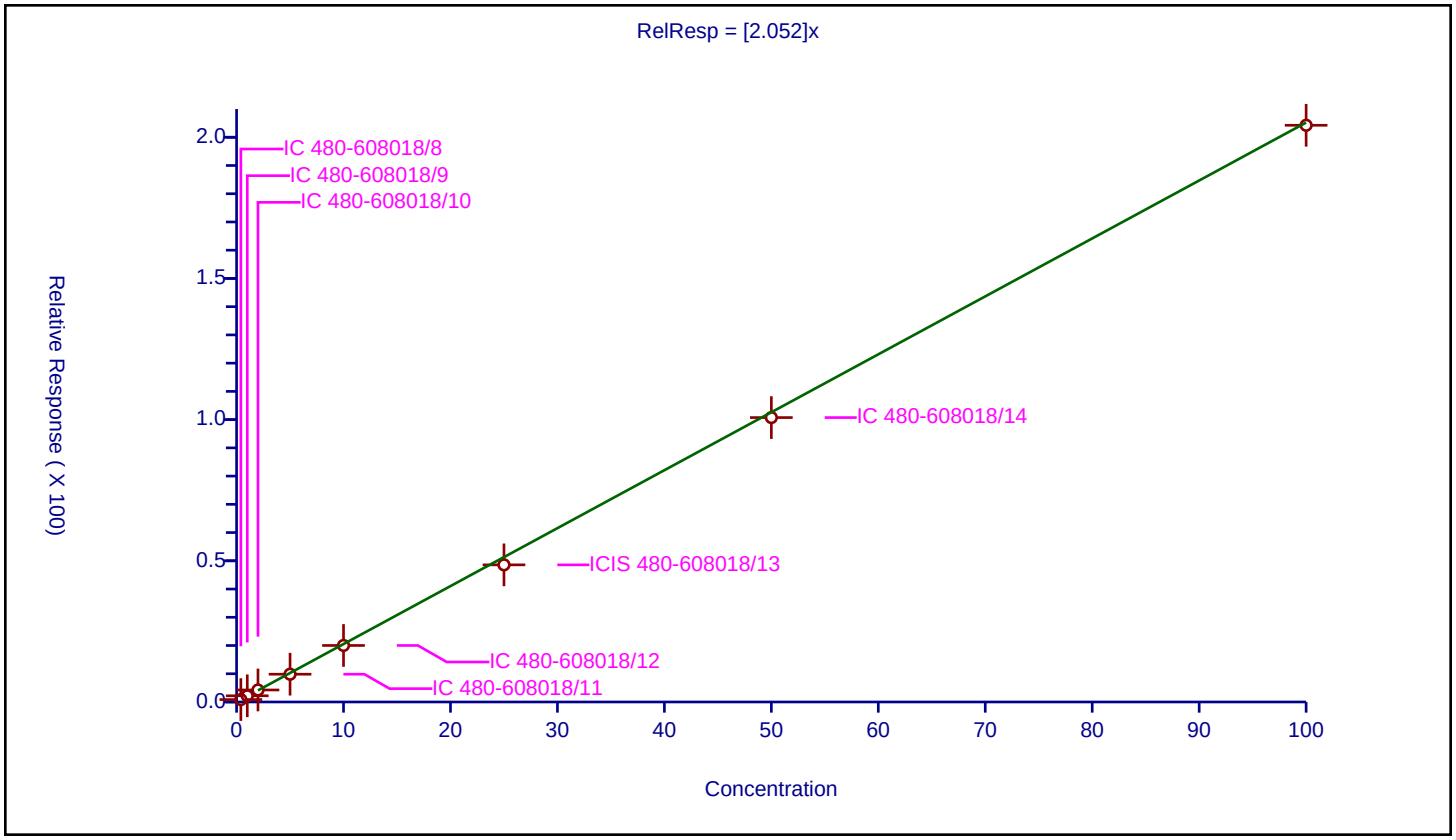
Curve Coefficients

Intercept:	0
Slope:	2.052

Error Coefficients

Standard Error:	465000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.850342	25.0	118864.0	2.125854	Y
2	IC 480-608018/9	1.0	2.195051	25.0	120840.0	2.195051	Y
3	IC 480-608018/10	2.0	4.252364	25.0	121697.0	2.126182	Y
4	IC 480-608018/11	5.0	9.836771	25.0	124825.0	1.967354	Y
5	IC 480-608018/12	10.0	20.017391	25.0	122762.0	2.001739	Y
6	ICIS 480-608018/13	25.0	48.569258	25.0	126368.0	1.94277	Y
7	IC 480-608018/14	50.0	100.727234	25.0	129807.0	2.014545	Y
8	IC 480-608018/15	100.0	204.241688	25.0	132241.0	2.042417	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

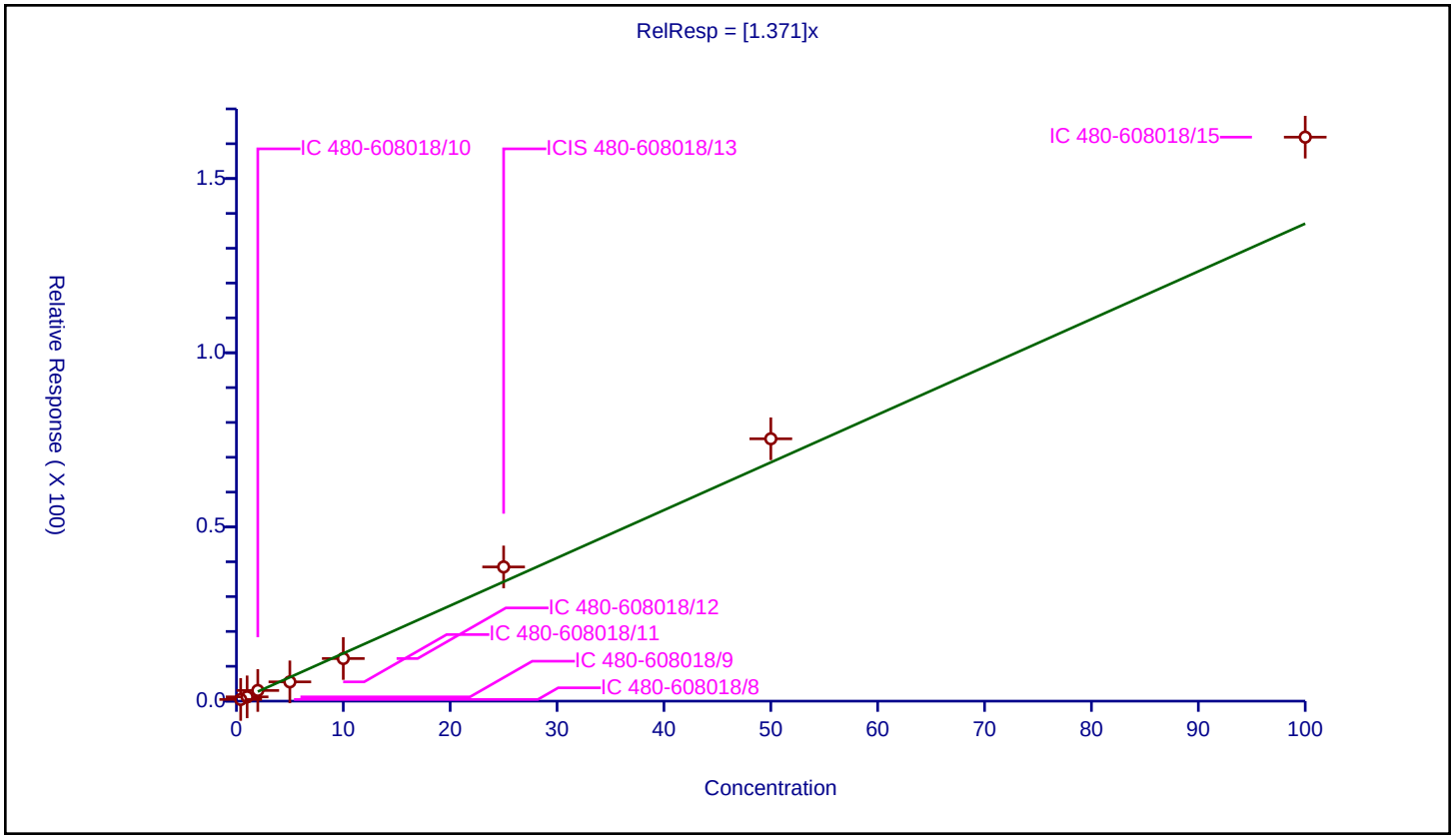
Curve Coefficients

Intercept:	0
Slope:	1.371

Error Coefficients

Standard Error:	364000
Relative Standard Error:	14.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.485218	25.0	118864.0	1.213046	Y
2	IC 480-608018/9	1.0	1.225381	25.0	120840.0	1.225381	Y
3	IC 480-608018/10	2.0	3.062935	25.0	121697.0	1.531467	Y
4	IC 480-608018/11	5.0	5.531344	25.0	124825.0	1.106269	Y
5	IC 480-608018/12	10.0	12.229965	25.0	122762.0	1.222997	Y
6	ICIS 480-608018/13	25.0	38.522806	25.0	126368.0	1.540912	Y
7	IC 480-608018/14	50.0	75.306224	25.0	129807.0	1.506124	Y
8	IC 480-608018/15	100.0	161.890979	25.0	132241.0	1.61891	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

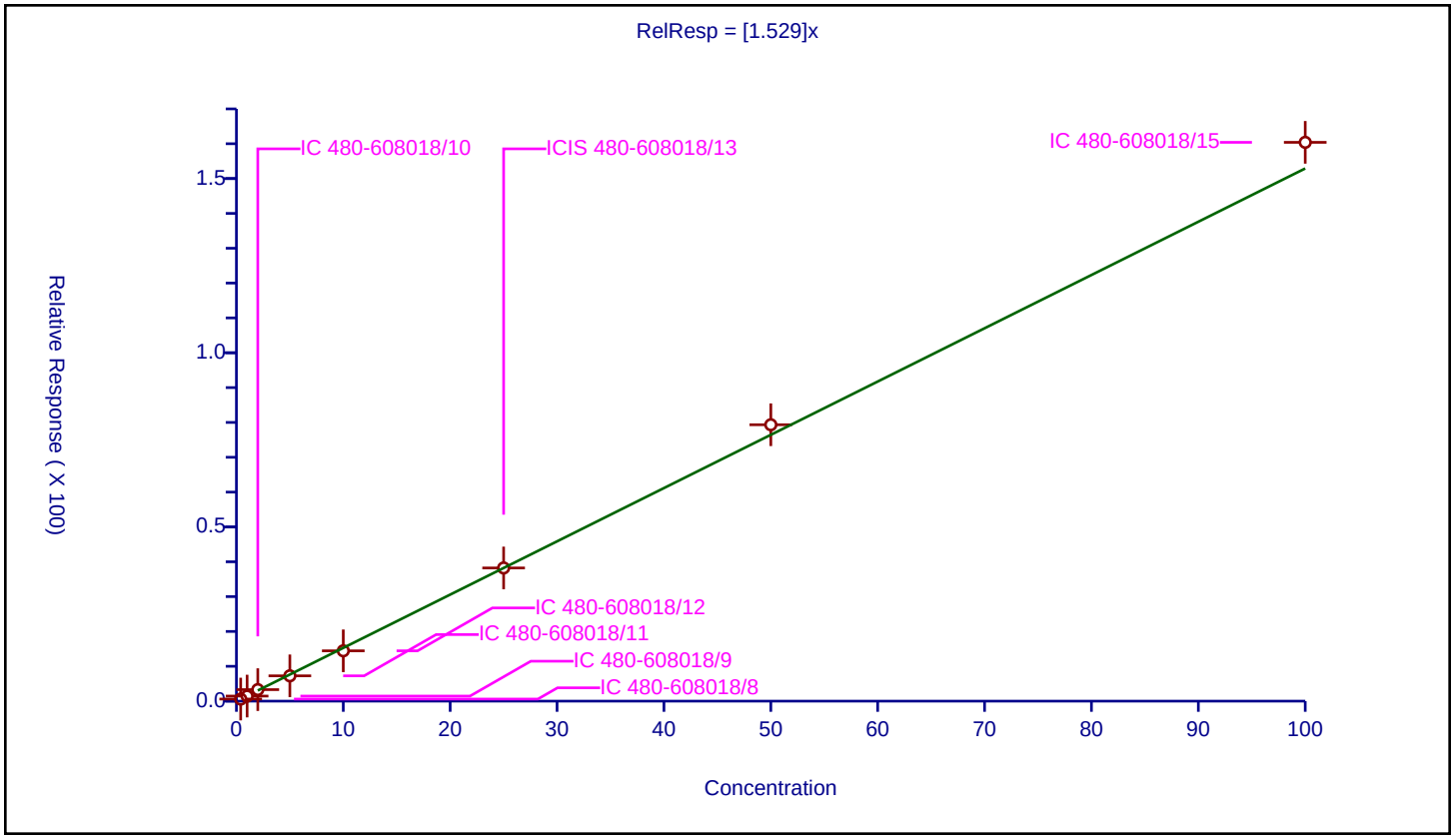
Curve Coefficients

Intercept:	0
Slope:	1.529

Error Coefficients

Standard Error:	365000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.599635	25.0	118864.0	1.499087	Y
2	IC 480-608018/9	1.0	1.458954	25.0	120840.0	1.458954	Y
3	IC 480-608018/10	2.0	3.30986	25.0	121697.0	1.65493	Y
4	IC 480-608018/11	5.0	7.270379	25.0	124825.0	1.454076	Y
5	IC 480-608018/12	10.0	14.447875	25.0	122762.0	1.444787	Y
6	ICIS 480-608018/13	25.0	38.230209	25.0	126368.0	1.529208	Y
7	IC 480-608018/14	50.0	79.334319	25.0	129807.0	1.586686	Y
8	IC 480-608018/15	100.0	160.398061	25.0	132241.0	1.603981	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

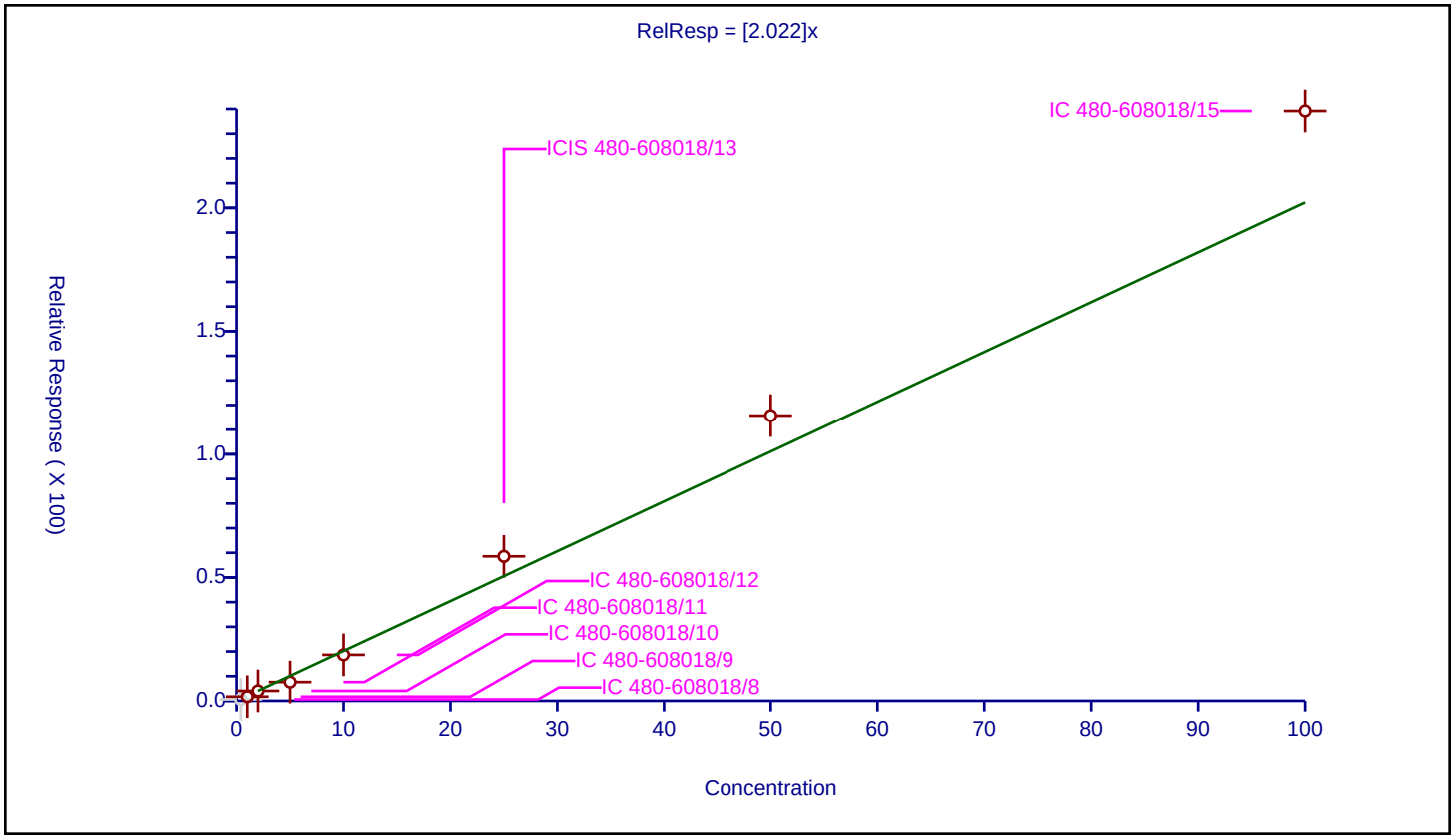
Curve Coefficients

Intercept:	0
Slope:	2.022

Error Coefficients

Standard Error:	586000
Relative Standard Error:	17.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.591432	25.0	118864.0	1.478581	N
2	IC 480-608018/9	1.0	1.696458	25.0	120840.0	1.696458	Y
3	IC 480-608018/10	2.0	4.043033	25.0	121697.0	2.021517	Y
4	IC 480-608018/11	5.0	7.609854	25.0	124825.0	1.521971	Y
5	IC 480-608018/12	10.0	18.648279	25.0	122762.0	1.864828	Y
6	ICIS 480-608018/13	25.0	58.573175	25.0	126368.0	2.342927	Y
7	IC 480-608018/14	50.0	115.729314	25.0	129807.0	2.314586	Y
8	IC 480-608018/15	100.0	239.178092	25.0	132241.0	2.391781	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

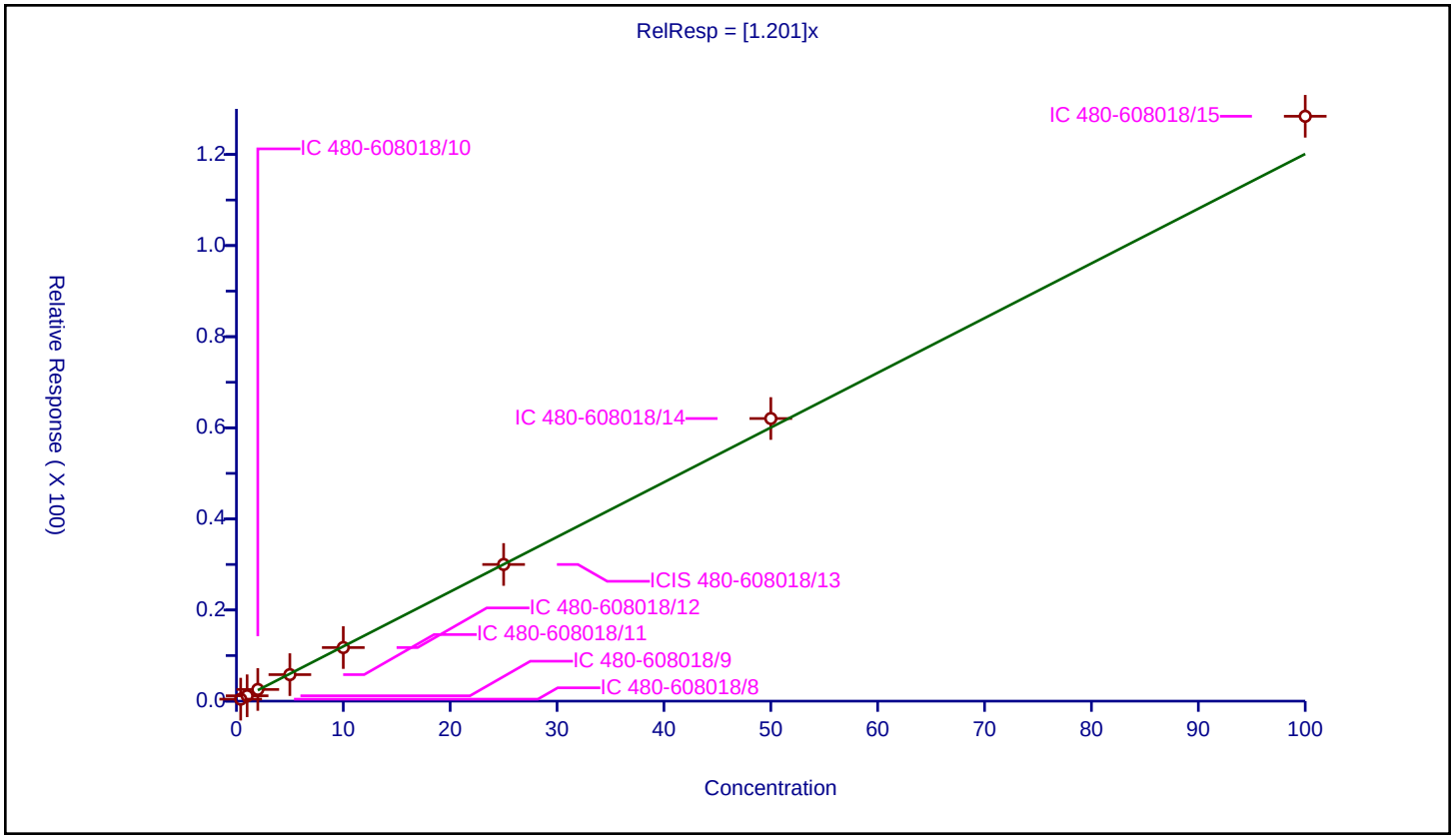
Curve Coefficients

Intercept:	0
Slope:	1.201

Error Coefficients

Standard Error:	291000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.433899	25.0	118864.0	1.084748	Y
2	IC 480-608018/9	1.0	1.179038	25.0	120840.0	1.179038	Y
3	IC 480-608018/10	2.0	2.56169	25.0	121697.0	1.280845	Y
4	IC 480-608018/11	5.0	5.818145	25.0	124825.0	1.163629	Y
5	IC 480-608018/12	10.0	11.757303	25.0	122762.0	1.17573	Y
6	ICIS 480-608018/13	25.0	29.998299	25.0	126368.0	1.199932	Y
7	IC 480-608018/14	50.0	62.036523	25.0	129807.0	1.24073	Y
8	IC 480-608018/15	100.0	128.37868	25.0	132241.0	1.283787	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

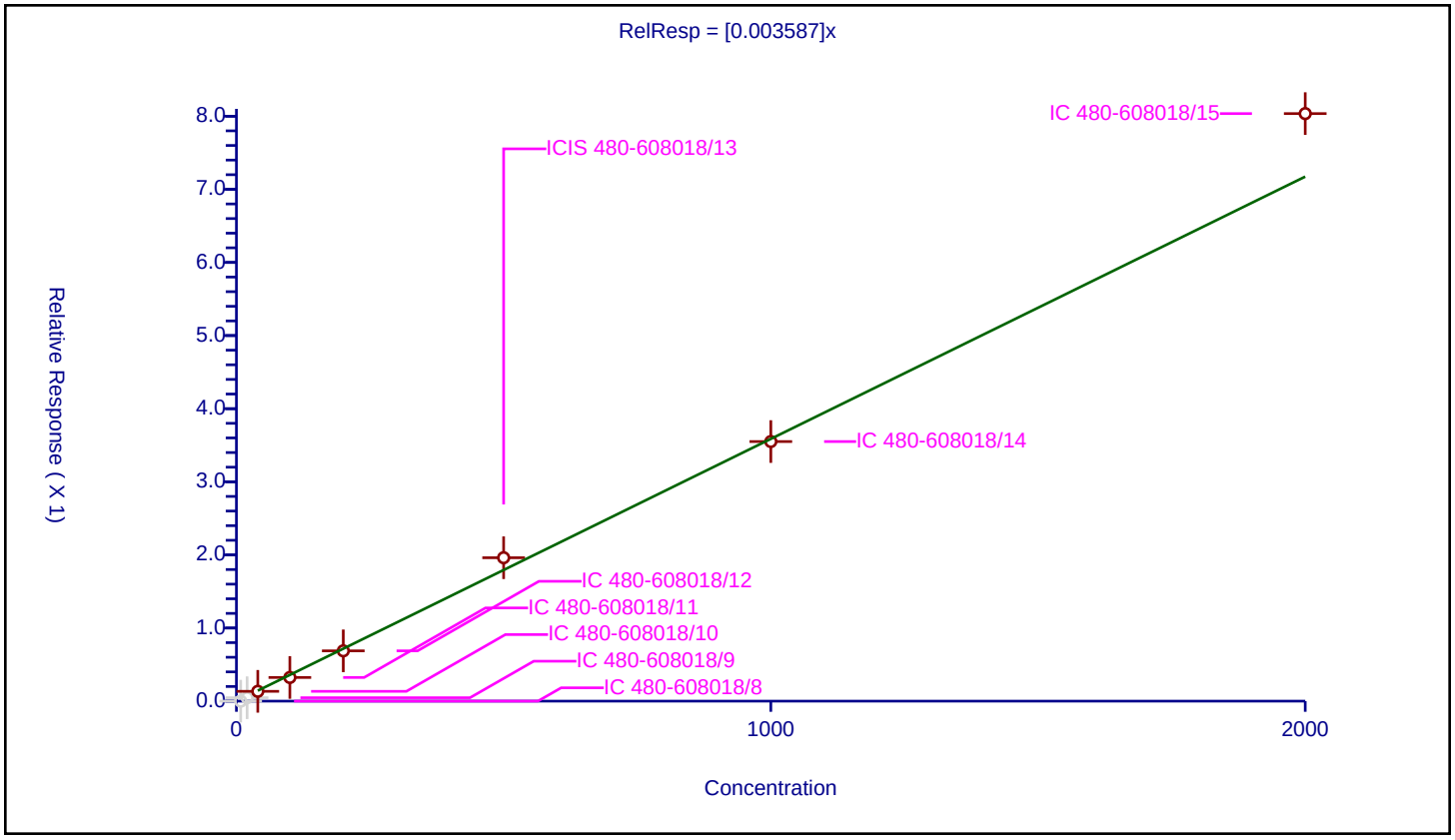
Curve Coefficients

Intercept:	0
Slope:	0.003587

Error Coefficients

Standard Error:	100000
Relative Standard Error:	8.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	8.0	0.0	25.0	536616.0	0.0	N
2	IC 480-608018/9	20.0	0.046776	25.0	560645.0	0.002339	N
3	IC 480-608018/10	40.0	0.134203	25.0	570962.0	0.003355	Y
4	IC 480-608018/11	100.0	0.323529	25.0	567878.0	0.003235	Y
5	IC 480-608018/12	200.0	0.687823	25.0	564208.0	0.003439	Y
6	ICIS 480-608018/13	500.0	1.961407	25.0	590112.0	0.003923	Y
7	IC 480-608018/14	1000.0	3.55038	25.0	614723.0	0.00355	Y
8	IC 480-608018/15	2000.0	8.03542	25.0	624818.0	0.004018	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

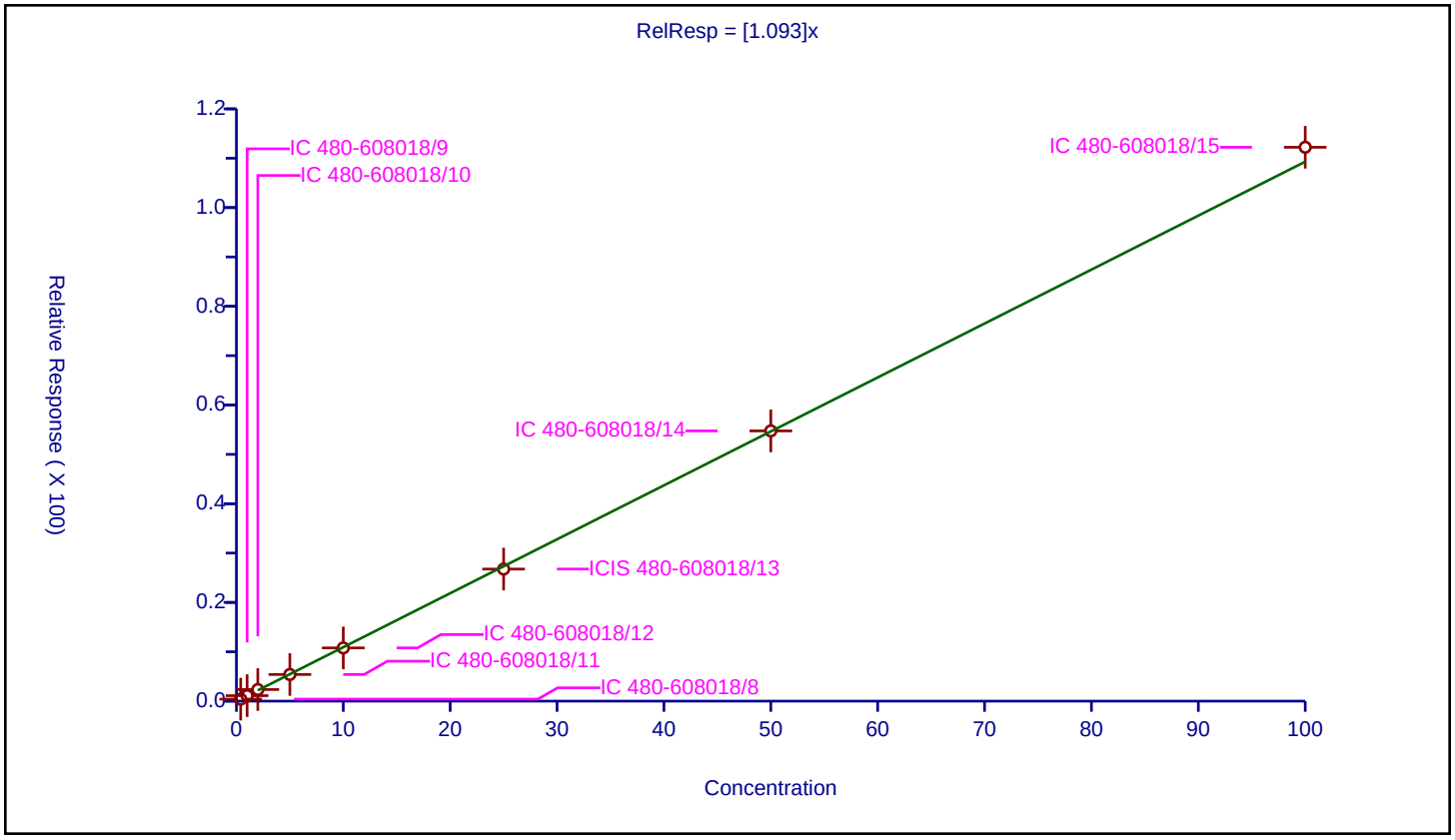
Curve Coefficients

Intercept:	0
Slope:	1.093

Error Coefficients

Standard Error:	255000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.405926	25.0	118864.0	1.014815	Y
2	IC 480-608018/9	1.0	1.109525	25.0	120840.0	1.109525	Y
3	IC 480-608018/10	2.0	2.348045	25.0	121697.0	1.174022	Y
4	IC 480-608018/11	5.0	5.397156	25.0	124825.0	1.079431	Y
5	IC 480-608018/12	10.0	10.784485	25.0	122762.0	1.078449	Y
6	ICIS 480-608018/13	25.0	26.757961	25.0	126368.0	1.070318	Y
7	IC 480-608018/14	50.0	54.758411	25.0	129807.0	1.095168	Y
8	IC 480-608018/15	100.0	112.22276	25.0	132241.0	1.122228	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

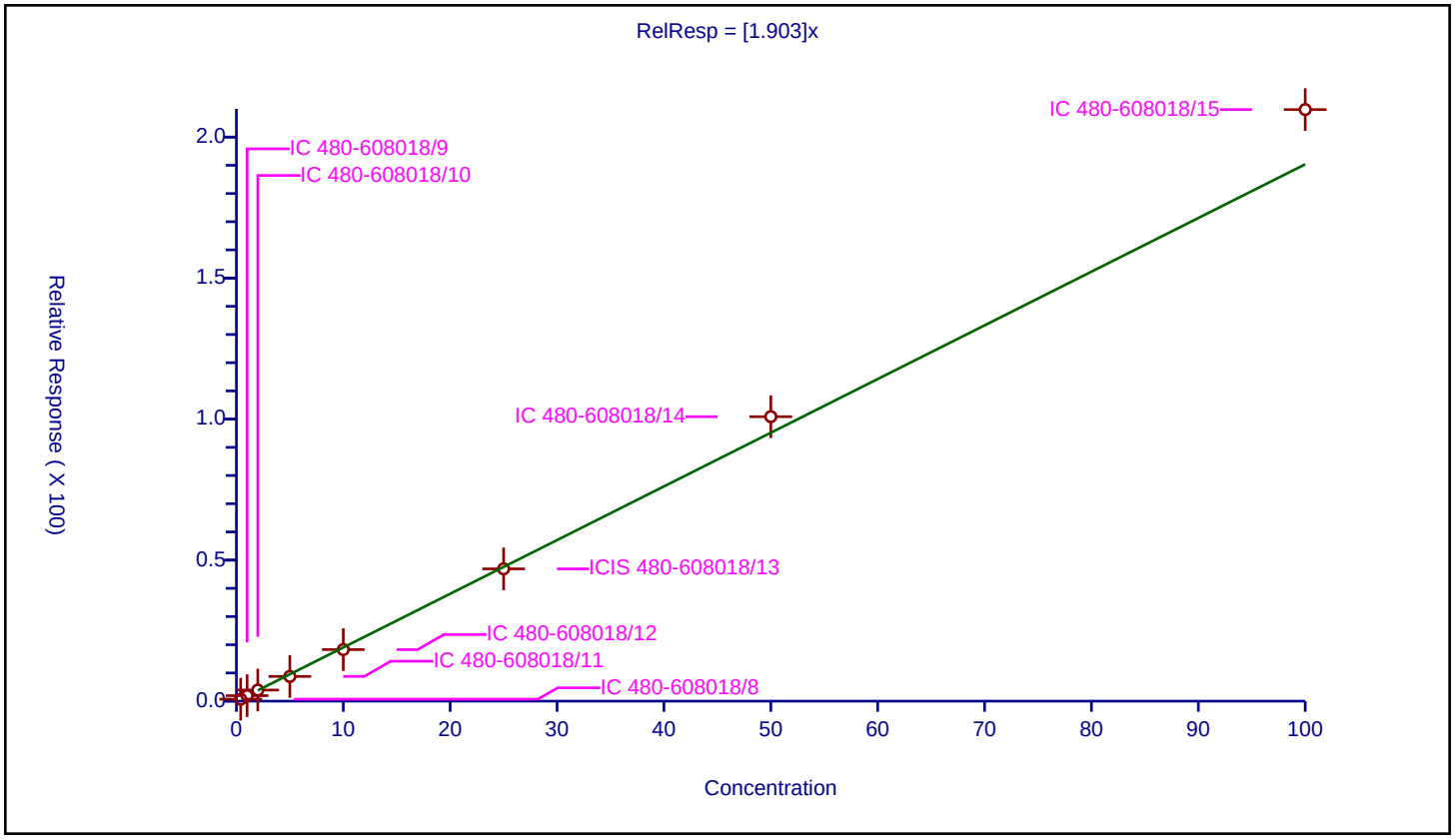
Curve Coefficients

Intercept:	0
Slope:	1.903

Error Coefficients

Standard Error:	474000
Relative Standard Error:	6.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.70017	25.0	118864.0	1.750425	Y
2	IC 480-608018/9	1.0	1.942445	25.0	120840.0	1.942445	Y
3	IC 480-608018/10	2.0	3.929226	25.0	121697.0	1.964613	Y
4	IC 480-608018/11	5.0	8.75686	25.0	124825.0	1.751372	Y
5	IC 480-608018/12	10.0	18.278865	25.0	122762.0	1.827886	Y
6	ICIS 480-608018/13	25.0	46.90329	25.0	126368.0	1.876132	Y
7	IC 480-608018/14	50.0	100.870331	25.0	129807.0	2.017407	Y
8	IC 480-608018/15	100.0	209.750002	25.0	132241.0	2.0975	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

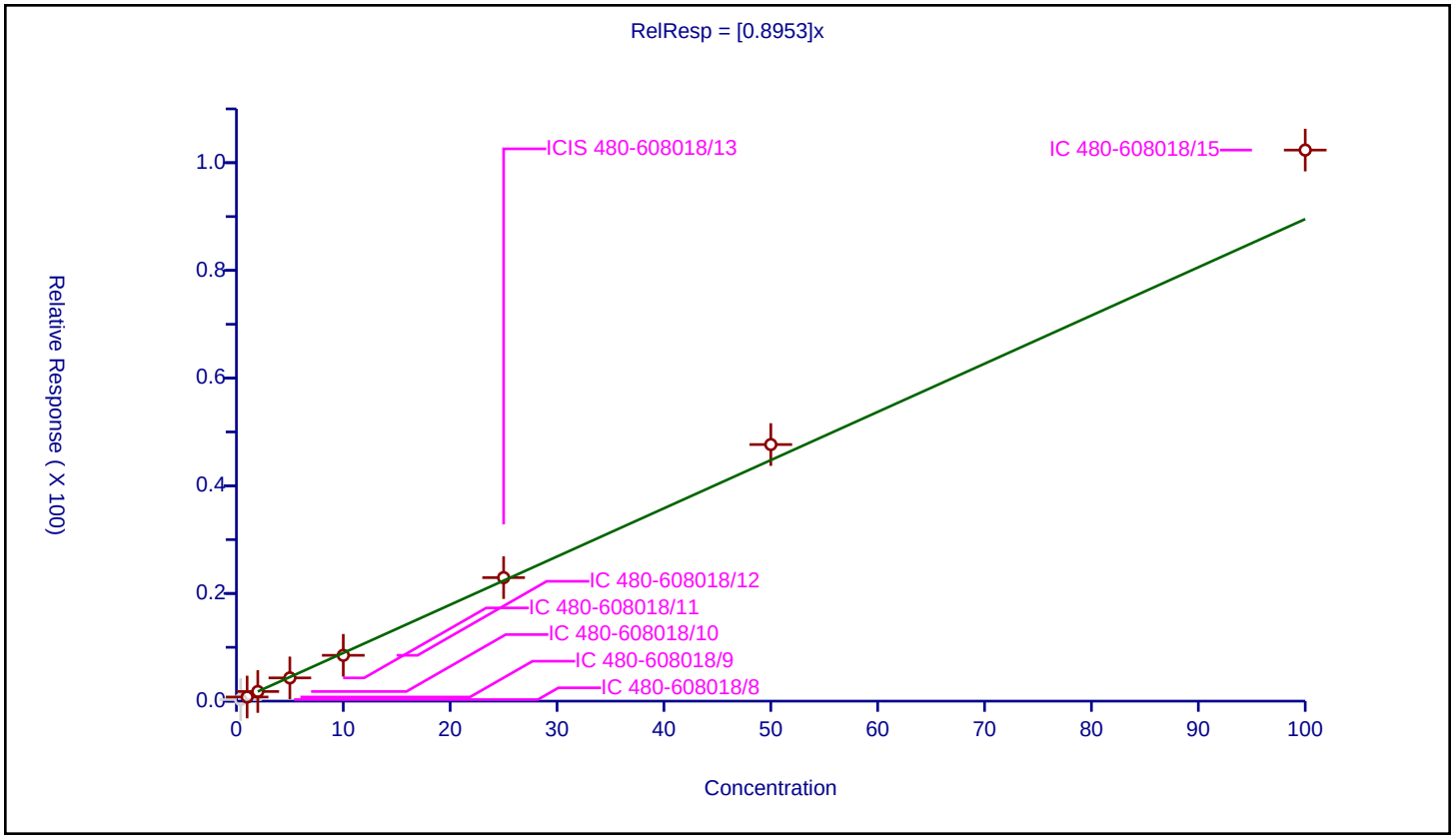
Curve Coefficients

Intercept:	0
Slope:	0.8953

Error Coefficients

Standard Error:	248000
Relative Standard Error:	9.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.29151	25.0	118864.0	0.728774	N
2	IC 480-608018/9	1.0	0.76382	25.0	120840.0	0.76382	Y
3	IC 480-608018/10	2.0	1.789691	25.0	121697.0	0.894845	Y
4	IC 480-608018/11	5.0	4.315642	25.0	124825.0	0.863128	Y
5	IC 480-608018/12	10.0	8.513221	25.0	122762.0	0.851322	Y
6	ICIS 480-608018/13	25.0	22.939747	25.0	126368.0	0.91759	Y
7	IC 480-608018/14	50.0	47.657676	25.0	129807.0	0.953154	Y
8	IC 480-608018/15	100.0	102.351767	25.0	132241.0	1.023518	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

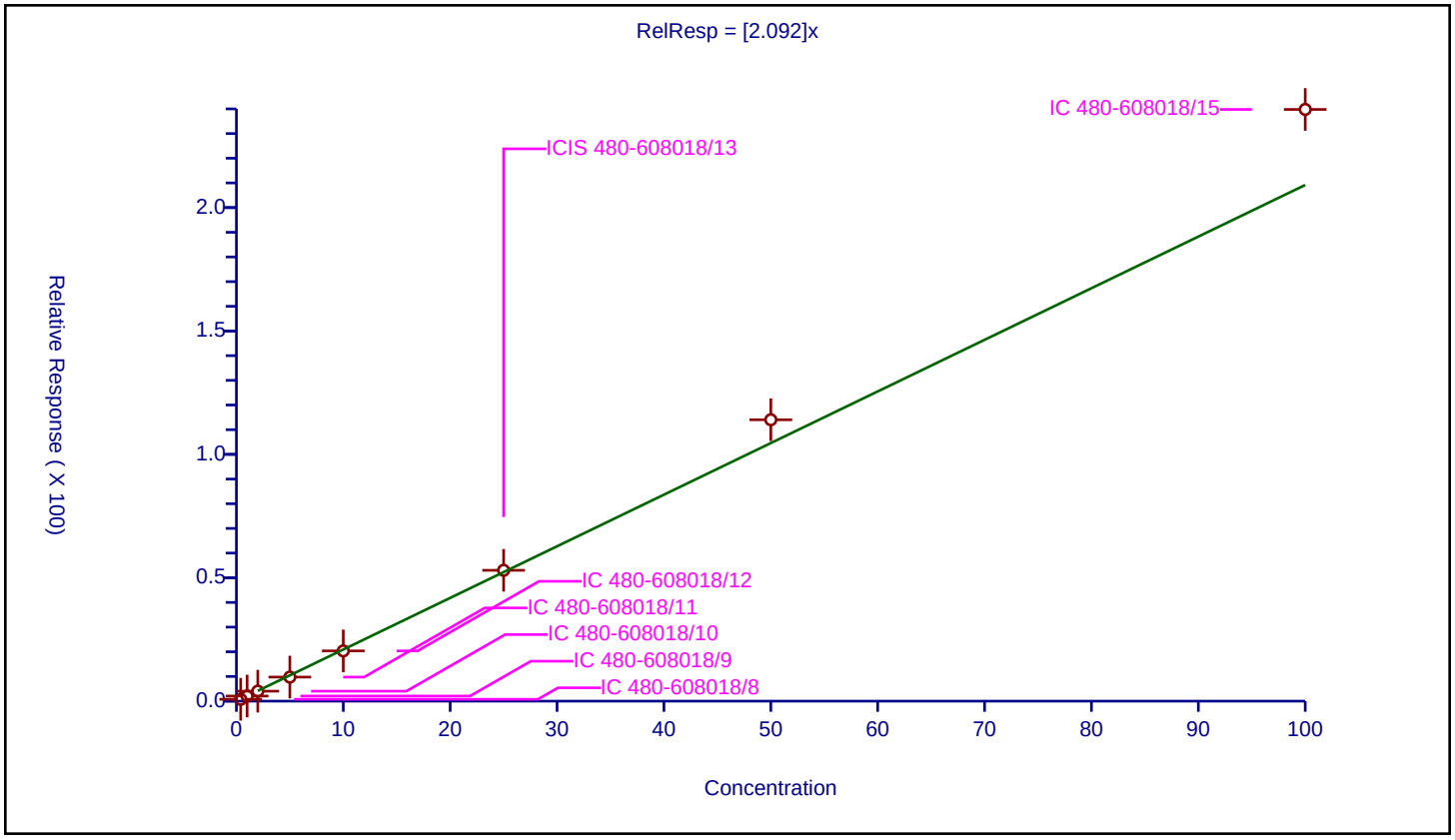
Curve Coefficients

Intercept:	0
Slope:	2.092

Error Coefficients

Standard Error:	540000
Relative Standard Error:	8.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.744969	25.0	118864.0	1.862423	Y
2	IC 480-608018/9	1.0	2.063265	25.0	120840.0	2.063265	Y
3	IC 480-608018/10	2.0	4.043855	25.0	121697.0	2.021927	Y
4	IC 480-608018/11	5.0	9.752053	25.0	124825.0	1.950411	Y
5	IC 480-608018/12	10.0	20.357888	25.0	122762.0	2.035789	Y
6	ICIS 480-608018/13	25.0	53.017576	25.0	126368.0	2.120703	Y
7	IC 480-608018/14	50.0	114.021393	25.0	129807.0	2.280428	Y
8	IC 480-608018/15	100.0	239.770192	25.0	132241.0	2.397702	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

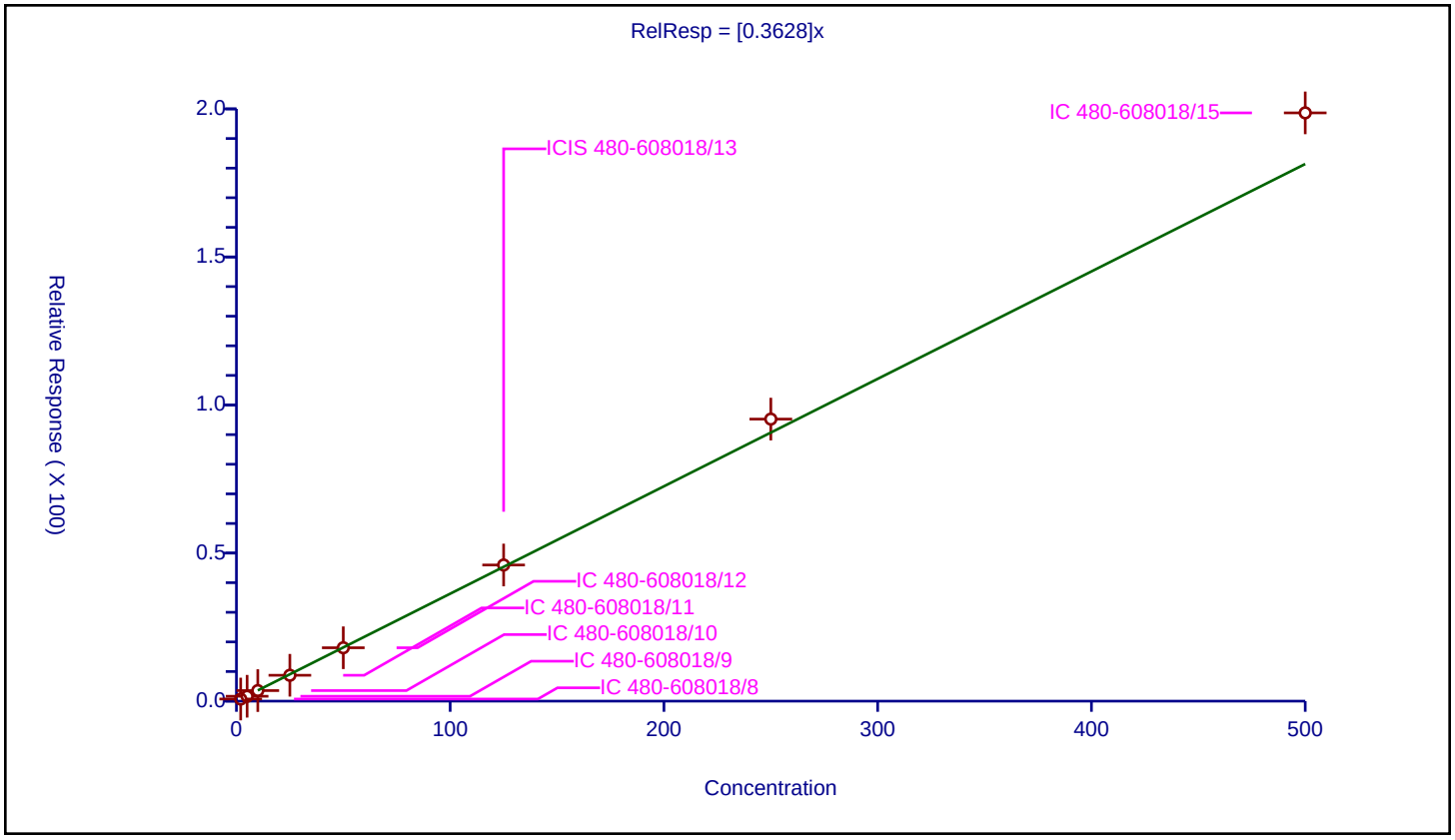
Curve Coefficients

Intercept:	0
Slope:	0.3628

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	2.0	0.718717	25.0	536616.0	0.359358	Y
2	IC 480-608018/9	5.0	1.651268	25.0	560645.0	0.330254	Y
3	IC 480-608018/10	10.0	3.566043	25.0	570962.0	0.356604	Y
4	IC 480-608018/11	25.0	8.735591	25.0	567878.0	0.349424	Y
5	IC 480-608018/12	50.0	18.02509	25.0	564208.0	0.360502	Y
6	ICIS 480-608018/13	125.0	45.973942	25.0	590112.0	0.367792	Y
7	IC 480-608018/14	250.0	95.244931	25.0	614723.0	0.38098	Y
8	IC 480-608018/15	500.0	198.655208	25.0	624818.0	0.39731	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

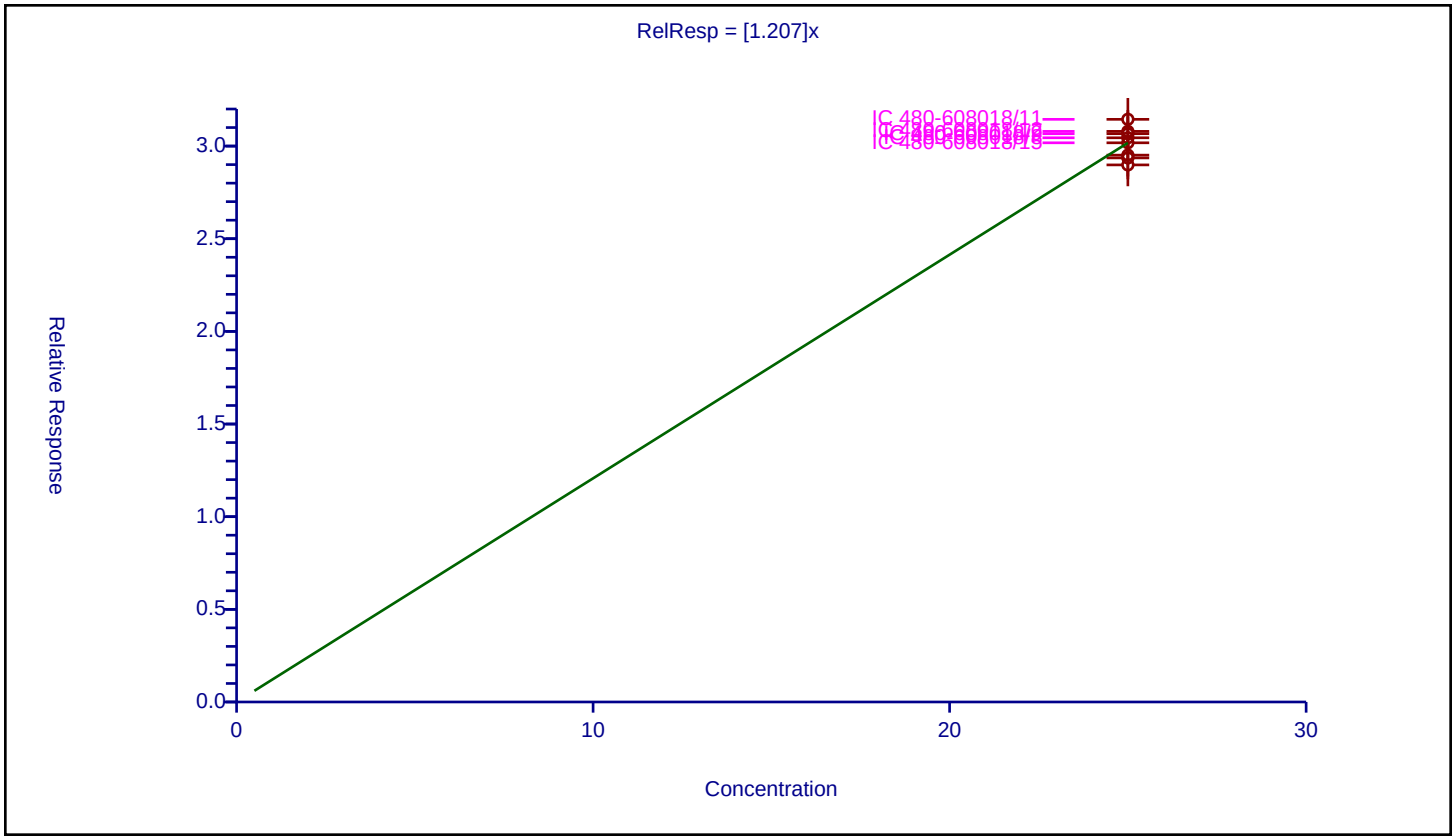
Curve Coefficients

Intercept:	0
Slope:	1.207

Error Coefficients

Standard Error:	747000
Relative Standard Error:	2.8
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	25.0	30.446819	25.0	536616.0	1.217873	Y
2	IC 480-608018/9	25.0	30.668025	25.0	560645.0	1.226721	Y
3	IC 480-608018/10	25.0	29.361148	25.0	570962.0	1.174446	Y
4	IC 480-608018/11	25.0	31.443329	25.0	567878.0	1.257733	Y
5	IC 480-608018/12	25.0	30.794671	25.0	564208.0	1.231787	Y
6	ICIS 480-608018/13	25.0	29.511389	25.0	590112.0	1.180456	Y
7	IC 480-608018/14	25.0	28.983786	25.0	614723.0	1.159351	Y
8	IC 480-608018/15	25.0	30.176948	25.0	624818.0	1.207078	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

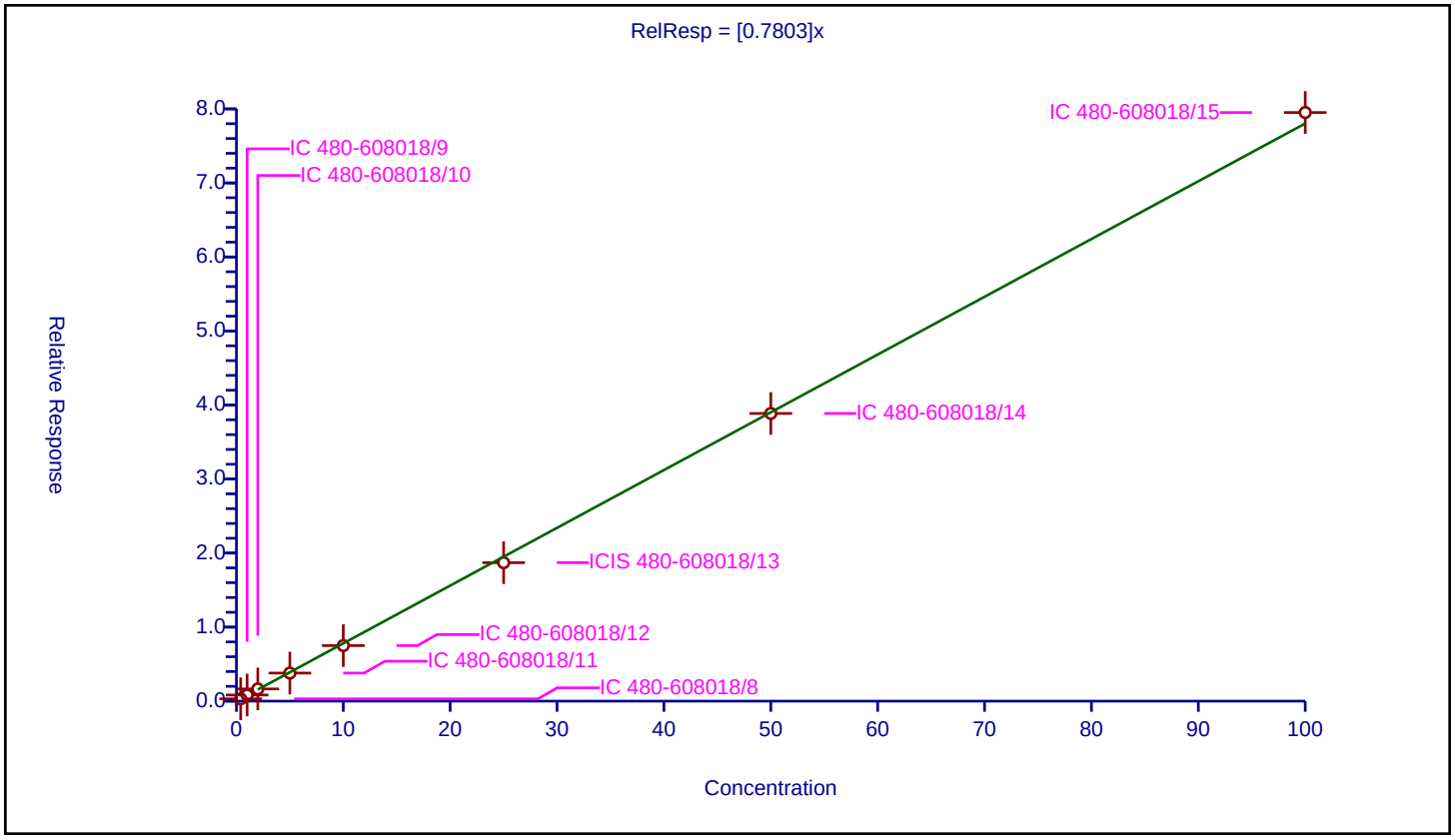
Curve Coefficients

Intercept:	0
Slope:	0.7803

Error Coefficients

Standard Error:	853000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.306085	25.0	536616.0	0.765212	Y
2	IC 480-608018/9	1.0	0.824229	25.0	560645.0	0.824229	Y
3	IC 480-608018/10	2.0	1.648928	25.0	570962.0	0.824464	Y
4	IC 480-608018/11	5.0	3.788446	25.0	567878.0	0.757689	Y
5	IC 480-608018/12	10.0	7.50366	25.0	564208.0	0.750366	Y
6	ICIS 480-608018/13	25.0	18.701662	25.0	590112.0	0.748066	Y
7	IC 480-608018/14	50.0	38.859698	25.0	614723.0	0.777194	Y
8	IC 480-608018/15	100.0	79.509513	25.0	624818.0	0.795095	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

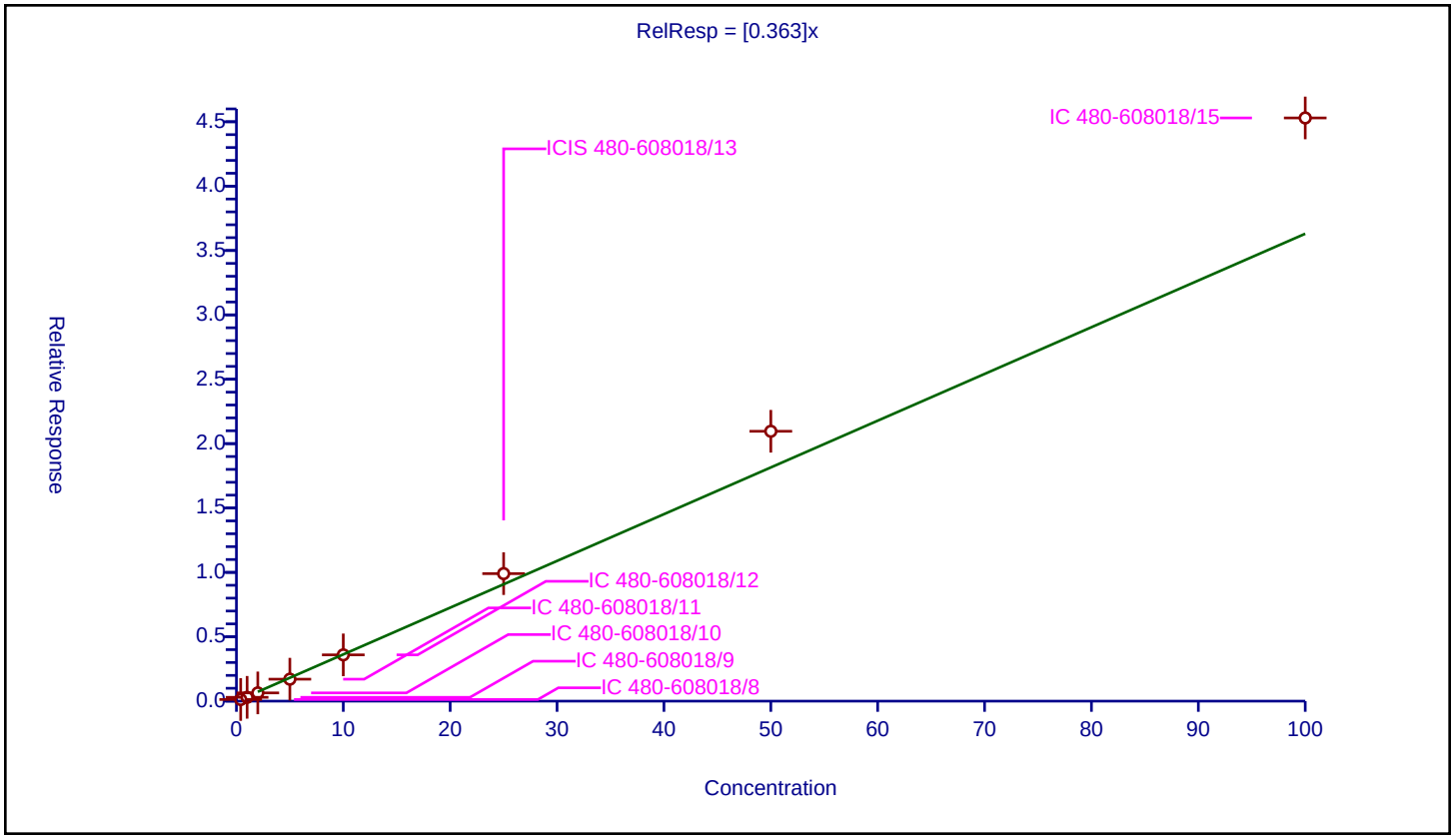
Curve Coefficients

Intercept:	0
Slope:	0.363

Error Coefficients

Standard Error:	480000
Relative Standard Error:	15.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.127419	25.0	536616.0	0.318547	Y
2	IC 480-608018/9	1.0	0.296801	25.0	560645.0	0.296801	Y
3	IC 480-608018/10	2.0	0.639535	25.0	570962.0	0.319767	Y
4	IC 480-608018/11	5.0	1.706264	25.0	567878.0	0.341253	Y
5	IC 480-608018/12	10.0	3.595172	25.0	564208.0	0.359517	Y
6	ICIS 480-608018/13	25.0	9.904052	25.0	590112.0	0.396162	Y
7	IC 480-608018/14	50.0	20.96005	25.0	614723.0	0.419201	Y
8	IC 480-608018/15	100.0	45.29667	25.0	624818.0	0.452967	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

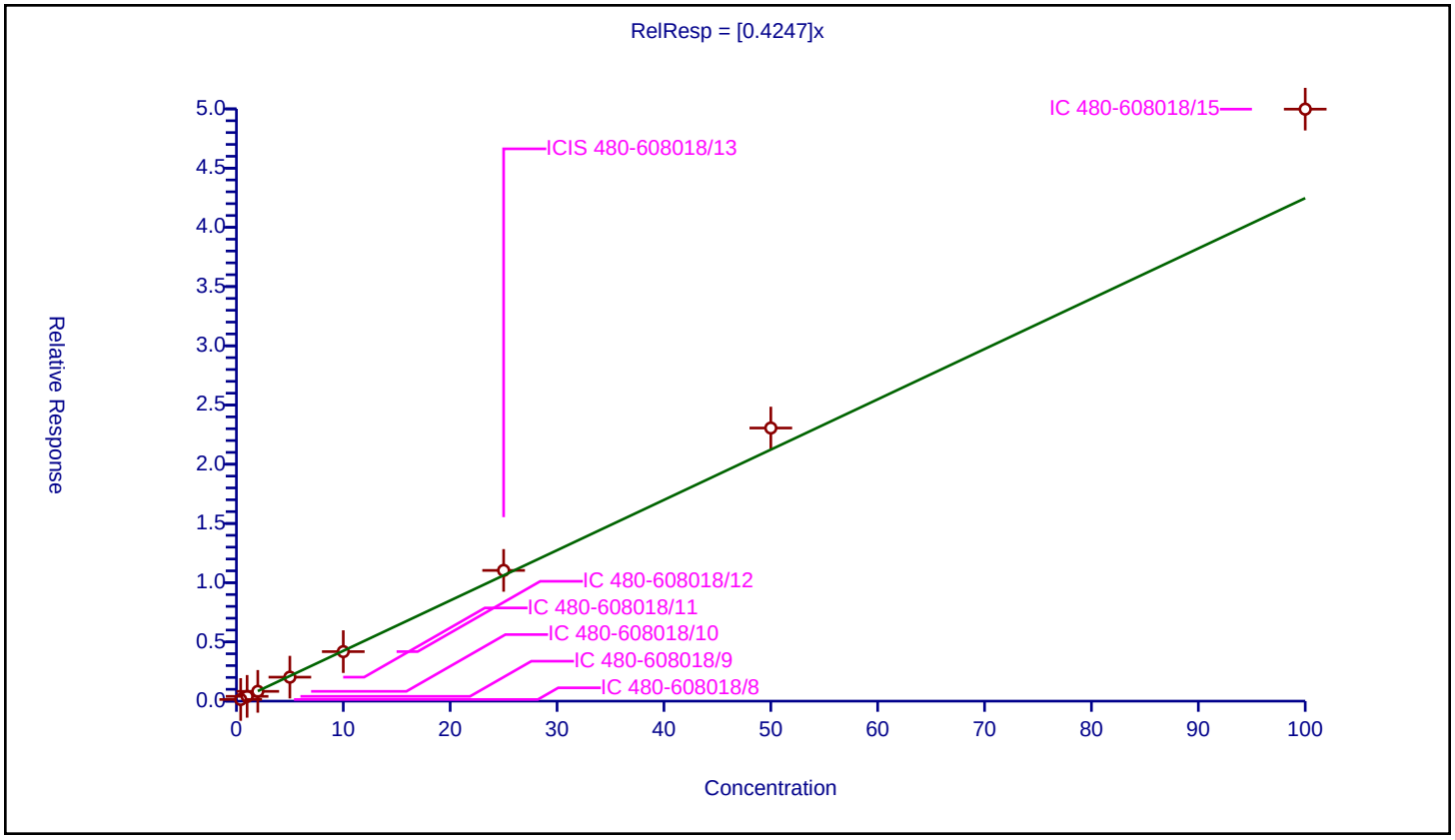
Curve Coefficients

Intercept:	0
Slope:	0.4247

Error Coefficients

Standard Error:	529000
Relative Standard Error:	10.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.141628	25.0	536616.0	0.354071	Y
2	IC 480-608018/9	1.0	0.404088	25.0	560645.0	0.404088	Y
3	IC 480-608018/10	2.0	0.827069	25.0	570962.0	0.413535	Y
4	IC 480-608018/11	5.0	2.025391	25.0	567878.0	0.405078	Y
5	IC 480-608018/12	10.0	4.181259	25.0	564208.0	0.418126	Y
6	ICIS 480-608018/13	25.0	11.036549	25.0	590112.0	0.441462	Y
7	IC 480-608018/14	50.0	23.05758	25.0	614723.0	0.461152	Y
8	IC 480-608018/15	100.0	49.978354	25.0	624818.0	0.499784	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

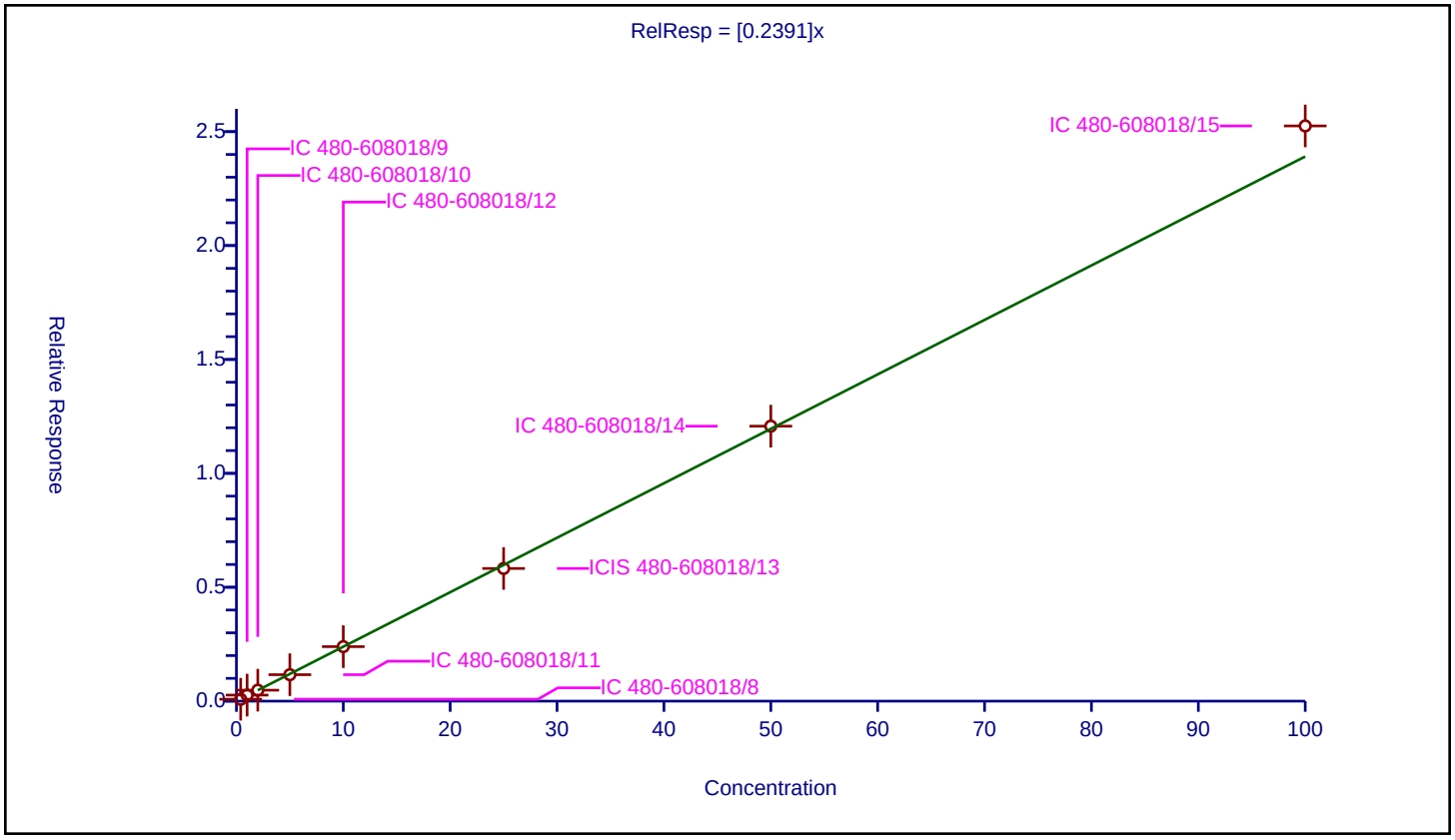
Curve Coefficients

Intercept:	0
Slope:	0.2391

Error Coefficients

Standard Error:	270000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.083253	25.0	536616.0	0.208133	Y
2	IC 480-608018/9	1.0	0.26581	25.0	560645.0	0.26581	Y
3	IC 480-608018/10	2.0	0.480592	25.0	570962.0	0.240296	Y
4	IC 480-608018/11	5.0	1.161429	25.0	567878.0	0.232286	Y
5	IC 480-608018/12	10.0	2.392646	25.0	564208.0	0.239265	Y
6	ICIS 480-608018/13	25.0	5.824233	25.0	590112.0	0.232969	Y
7	IC 480-608018/14	50.0	12.072307	25.0	614723.0	0.241446	Y
8	IC 480-608018/15	100.0	25.251353	25.0	624818.0	0.252514	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

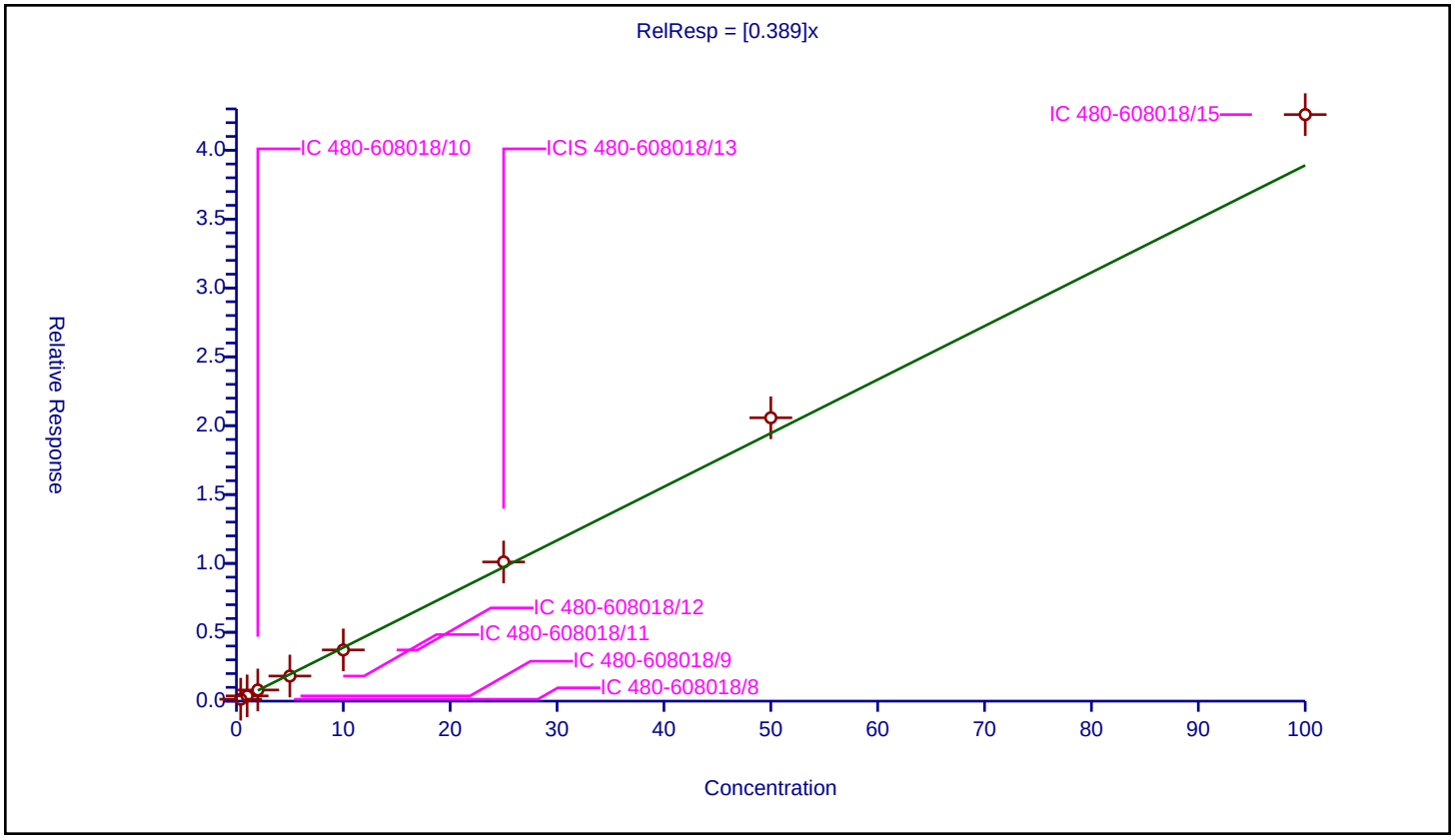
Curve Coefficients

Intercept:	0
Slope:	0.389

Error Coefficients

Standard Error:	456000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.139532	25.0	536616.0	0.34883	Y
2	IC 480-608018/9	1.0	0.380633	25.0	560645.0	0.380633	Y
3	IC 480-608018/10	2.0	0.810212	25.0	570962.0	0.405106	Y
4	IC 480-608018/11	5.0	1.822751	25.0	567878.0	0.36455	Y
5	IC 480-608018/12	10.0	3.71698	25.0	564208.0	0.371698	Y
6	ICIS 480-608018/13	25.0	10.103548	25.0	590112.0	0.404142	Y
7	IC 480-608018/14	50.0	20.573738	25.0	614723.0	0.411475	Y
8	IC 480-608018/15	100.0	42.586361	25.0	624818.0	0.425864	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

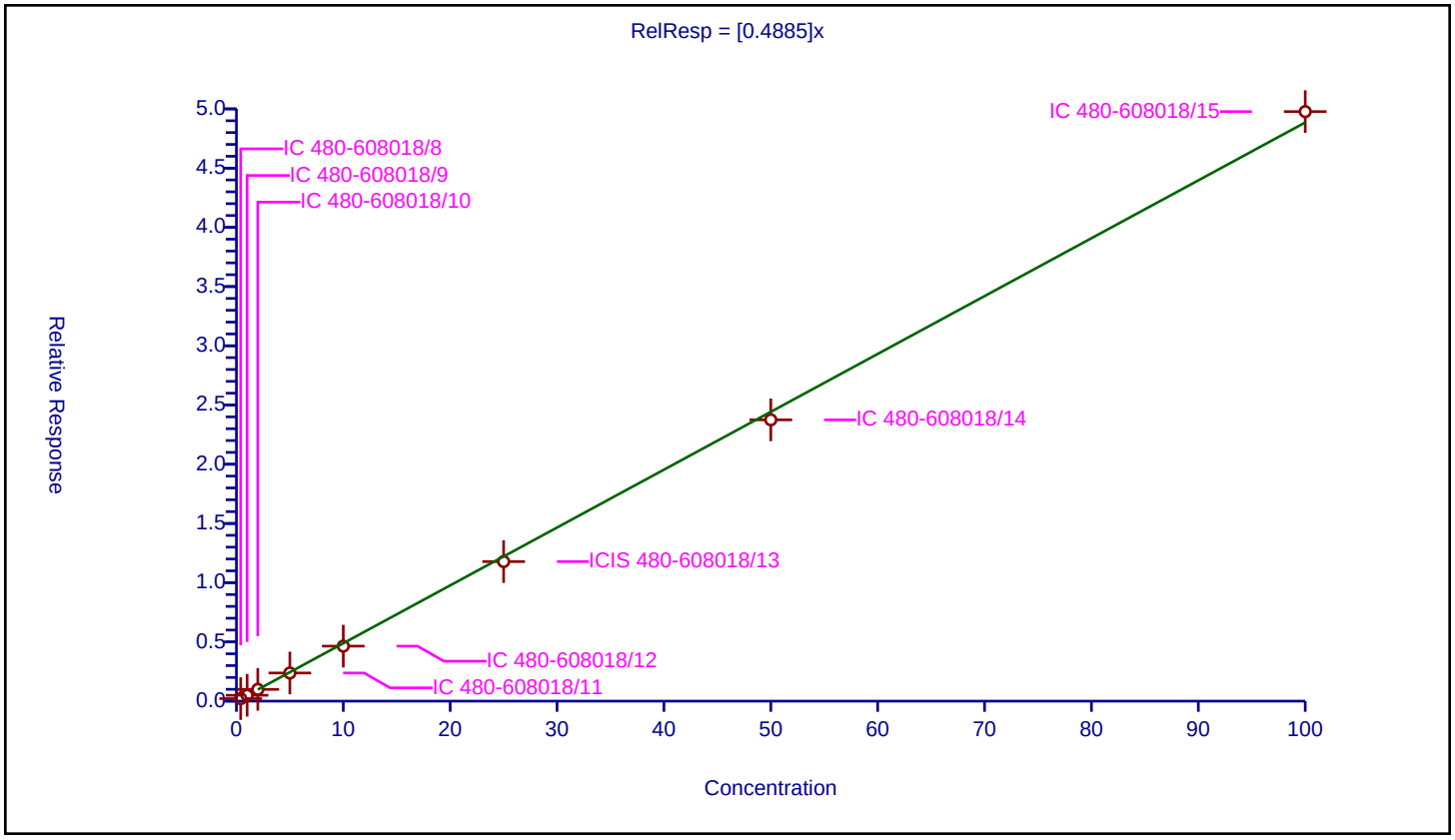
Curve Coefficients

Intercept:	0
Slope:	0.4885

Error Coefficients

Standard Error:	532000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.213141	25.0	536616.0	0.532853	Y
2	IC 480-608018/9	1.0	0.494832	25.0	560645.0	0.494832	Y
3	IC 480-608018/10	2.0	0.993718	25.0	570962.0	0.496859	Y
4	IC 480-608018/11	5.0	2.375026	25.0	567878.0	0.475005	Y
5	IC 480-608018/12	10.0	4.644918	25.0	564208.0	0.464492	Y
6	ICIS 480-608018/13	25.0	11.781662	25.0	590112.0	0.471266	Y
7	IC 480-608018/14	50.0	23.748583	25.0	614723.0	0.474972	Y
8	IC 480-608018/15	100.0	49.771373	25.0	624818.0	0.497714	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

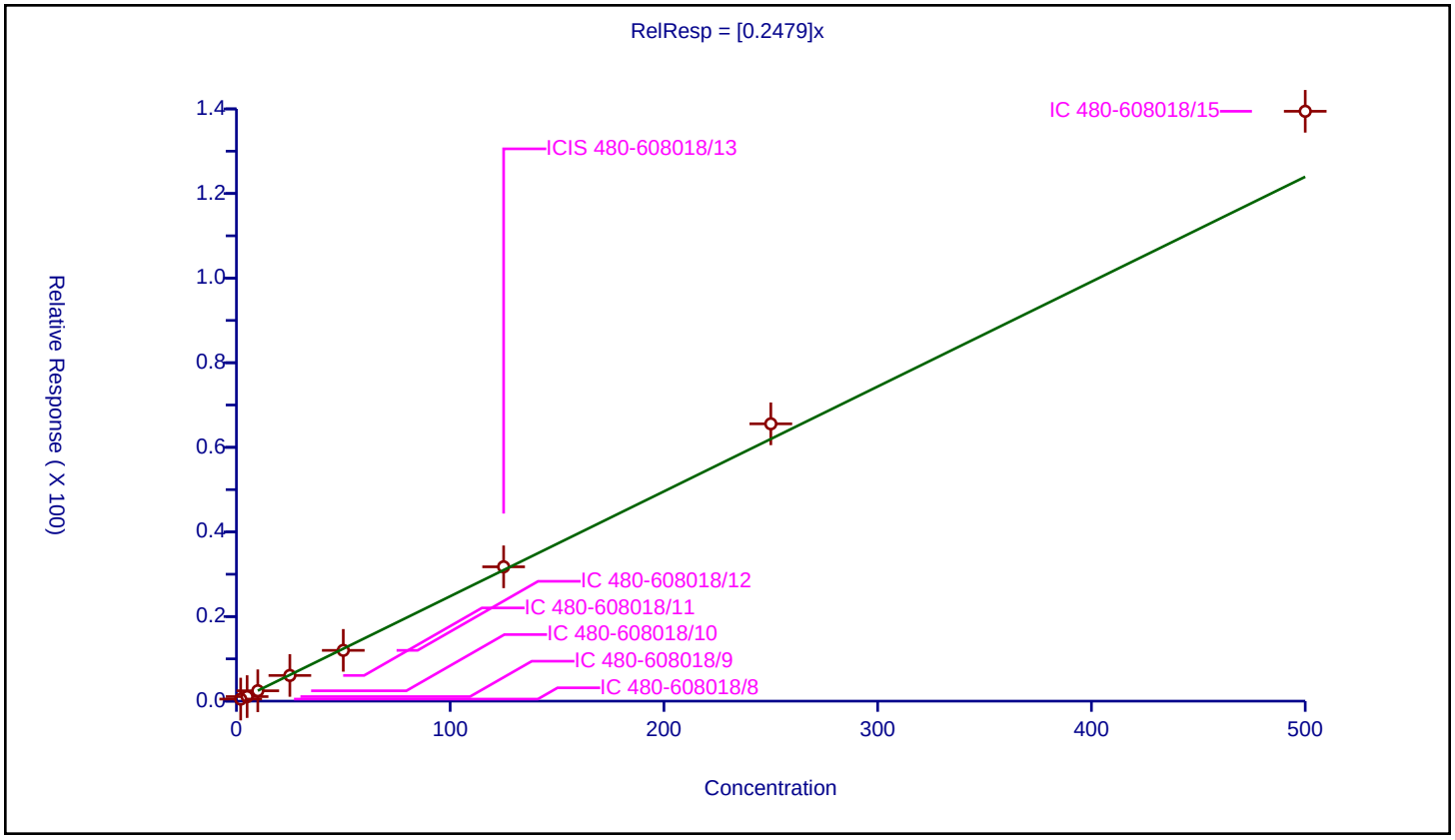
Curve Coefficients

Intercept:	0
Slope:	0.2479

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	7.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	2.0	0.490667	25.0	536616.0	0.245334	Y
2	IC 480-608018/9	5.0	1.071846	25.0	560645.0	0.214369	Y
3	IC 480-608018/10	10.0	2.453753	25.0	570962.0	0.245375	Y
4	IC 480-608018/11	25.0	6.073488	25.0	567878.0	0.24294	Y
5	IC 480-608018/12	50.0	12.002178	25.0	564208.0	0.240044	Y
6	ICIS 480-608018/13	125.0	31.754226	25.0	590112.0	0.254034	Y
7	IC 480-608018/14	250.0	65.556722	25.0	614723.0	0.262227	Y
8	IC 480-608018/15	500.0	139.430562	25.0	624818.0	0.278861	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

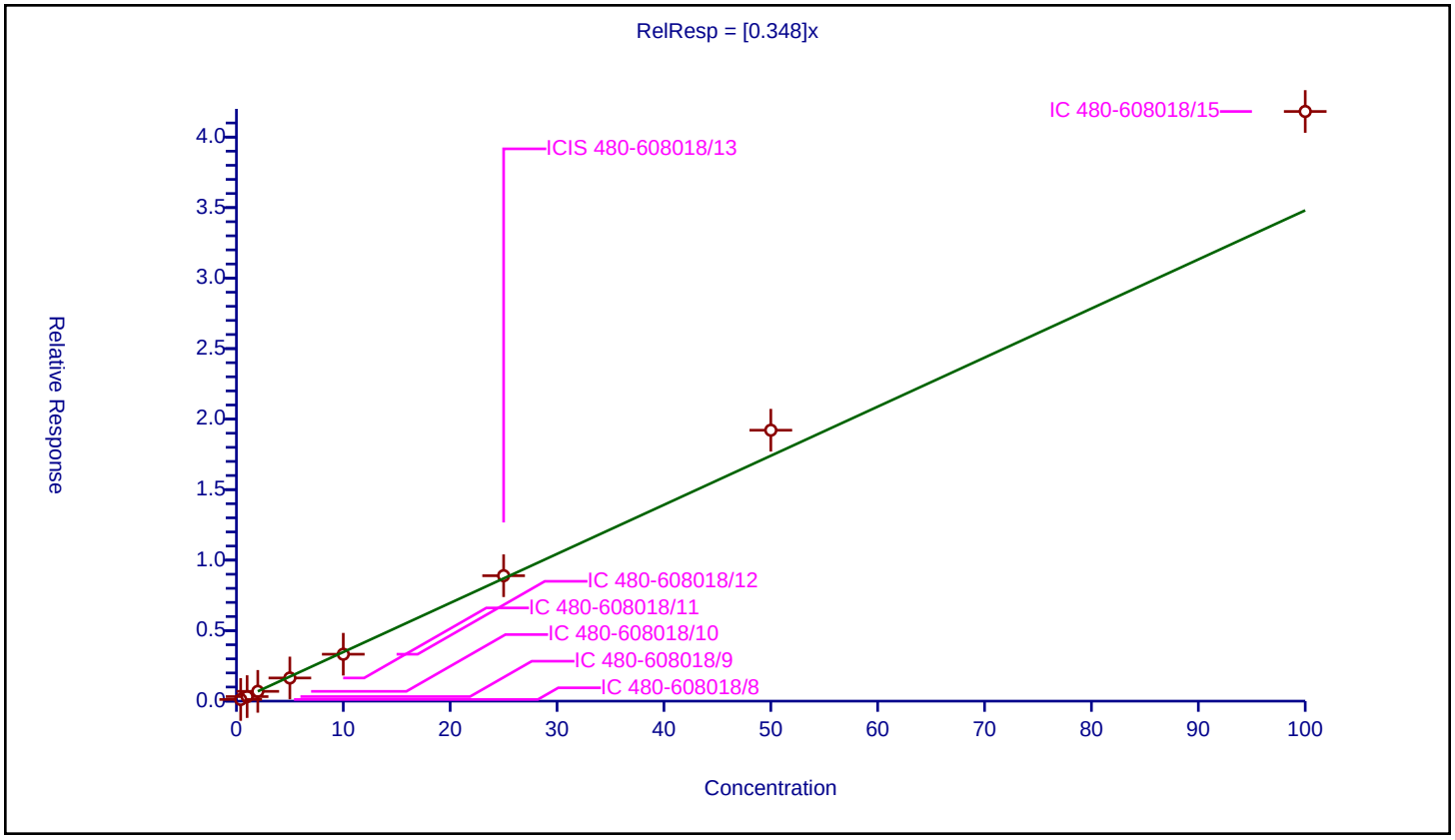
Curve Coefficients

Intercept:	0
Slope:	0.348

Error Coefficients

Standard Error:	442000
Relative Standard Error:	11.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.118194	25.0	536616.0	0.295486	Y
2	IC 480-608018/9	1.0	0.322084	25.0	560645.0	0.322084	Y
3	IC 480-608018/10	2.0	0.694354	25.0	570962.0	0.347177	Y
4	IC 480-608018/11	5.0	1.643091	25.0	567878.0	0.328618	Y
5	IC 480-608018/12	10.0	3.327186	25.0	564208.0	0.332719	Y
6	ICIS 480-608018/13	25.0	8.895811	25.0	590112.0	0.355832	Y
7	IC 480-608018/14	50.0	19.213085	25.0	614723.0	0.384262	Y
8	IC 480-608018/15	100.0	41.817697	25.0	624818.0	0.418177	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

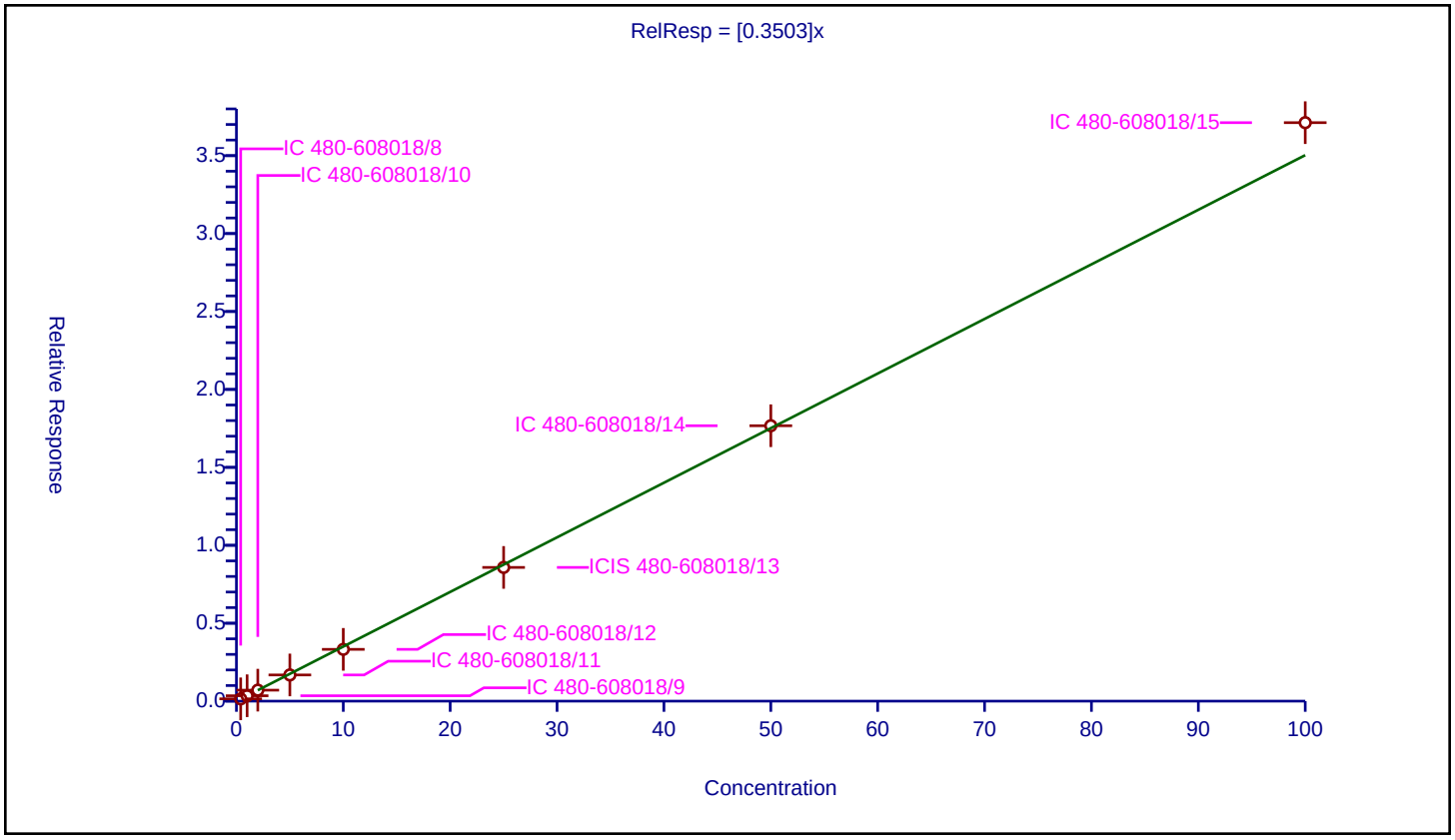
Curve Coefficients

Intercept:	0
Slope:	0.3503

Error Coefficients

Standard Error:	396000
Relative Standard Error:	4.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.147172	25.0	536616.0	0.367931	Y
2	IC 480-608018/9	1.0	0.345762	25.0	560645.0	0.345762	Y
3	IC 480-608018/10	2.0	0.704775	25.0	570962.0	0.352388	Y
4	IC 480-608018/11	5.0	1.681215	25.0	567878.0	0.336243	Y
5	IC 480-608018/12	10.0	3.323774	25.0	564208.0	0.332377	Y
6	ICIS 480-608018/13	25.0	8.579388	25.0	590112.0	0.343176	Y
7	IC 480-608018/14	50.0	17.670317	25.0	614723.0	0.353406	Y
8	IC 480-608018/15	100.0	37.115808	25.0	624818.0	0.371158	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

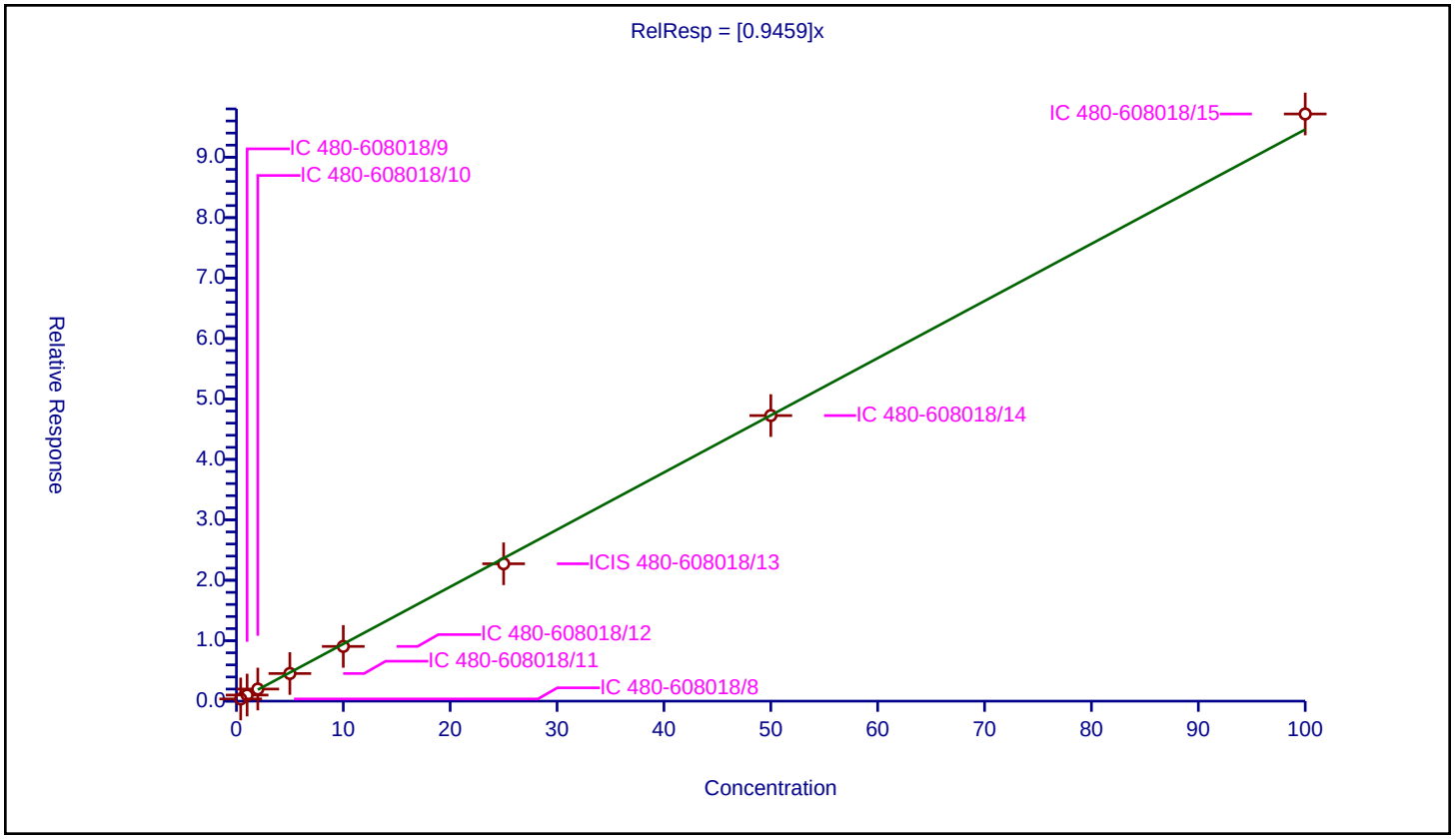
Curve Coefficients

Intercept:	0
Slope:	0.9459

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.365345	25.0	536616.0	0.913363	Y
2	IC 480-608018/9	1.0	1.005271	25.0	560645.0	1.005271	Y
3	IC 480-608018/10	2.0	2.005168	25.0	570962.0	1.002584	Y
4	IC 480-608018/11	5.0	4.57409	25.0	567878.0	0.914818	Y
5	IC 480-608018/12	10.0	9.055526	25.0	564208.0	0.905553	Y
6	ICIS 480-608018/13	25.0	22.727804	25.0	590112.0	0.909112	Y
7	IC 480-608018/14	50.0	47.253682	25.0	614723.0	0.945074	Y
8	IC 480-608018/15	100.0	97.159373	25.0	624818.0	0.971594	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

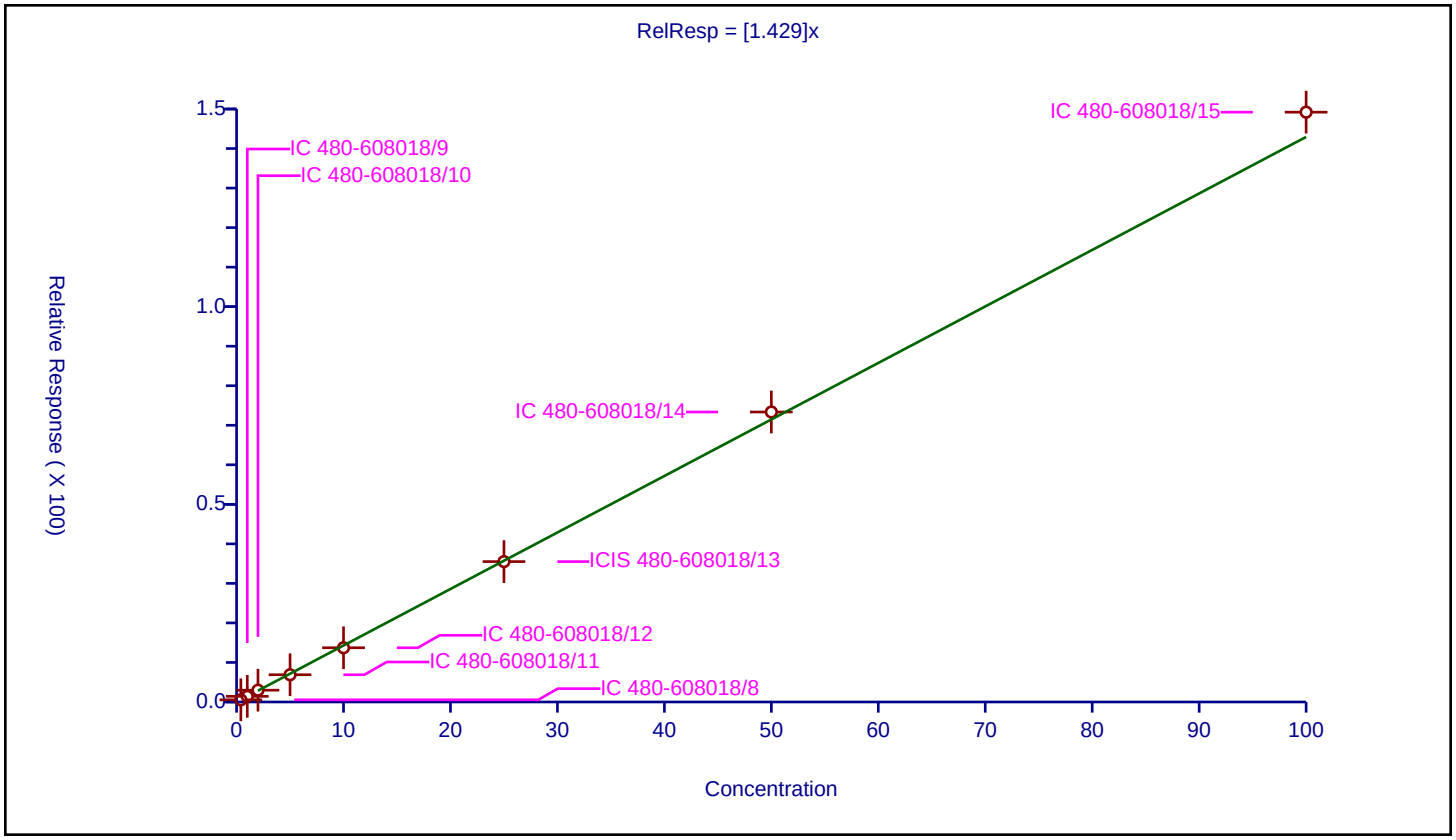
Curve Coefficients

Intercept:	0
Slope:	1.429

Error Coefficients

Standard Error:	1600000
Relative Standard Error:	3.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.551232	25.0	536616.0	1.37808	Y
2	IC 480-608018/9	1.0	1.434464	25.0	560645.0	1.434464	Y
3	IC 480-608018/10	2.0	2.986013	25.0	570962.0	1.493007	Y
4	IC 480-608018/11	5.0	6.889288	25.0	567878.0	1.377858	Y
5	IC 480-608018/12	10.0	13.715642	25.0	564208.0	1.371564	Y
6	ICIS 480-608018/13	25.0	35.51203	25.0	590112.0	1.420481	Y
7	IC 480-608018/14	50.0	73.354625	25.0	614723.0	1.467092	Y
8	IC 480-608018/15	100.0	149.205329	25.0	624818.0	1.492053	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

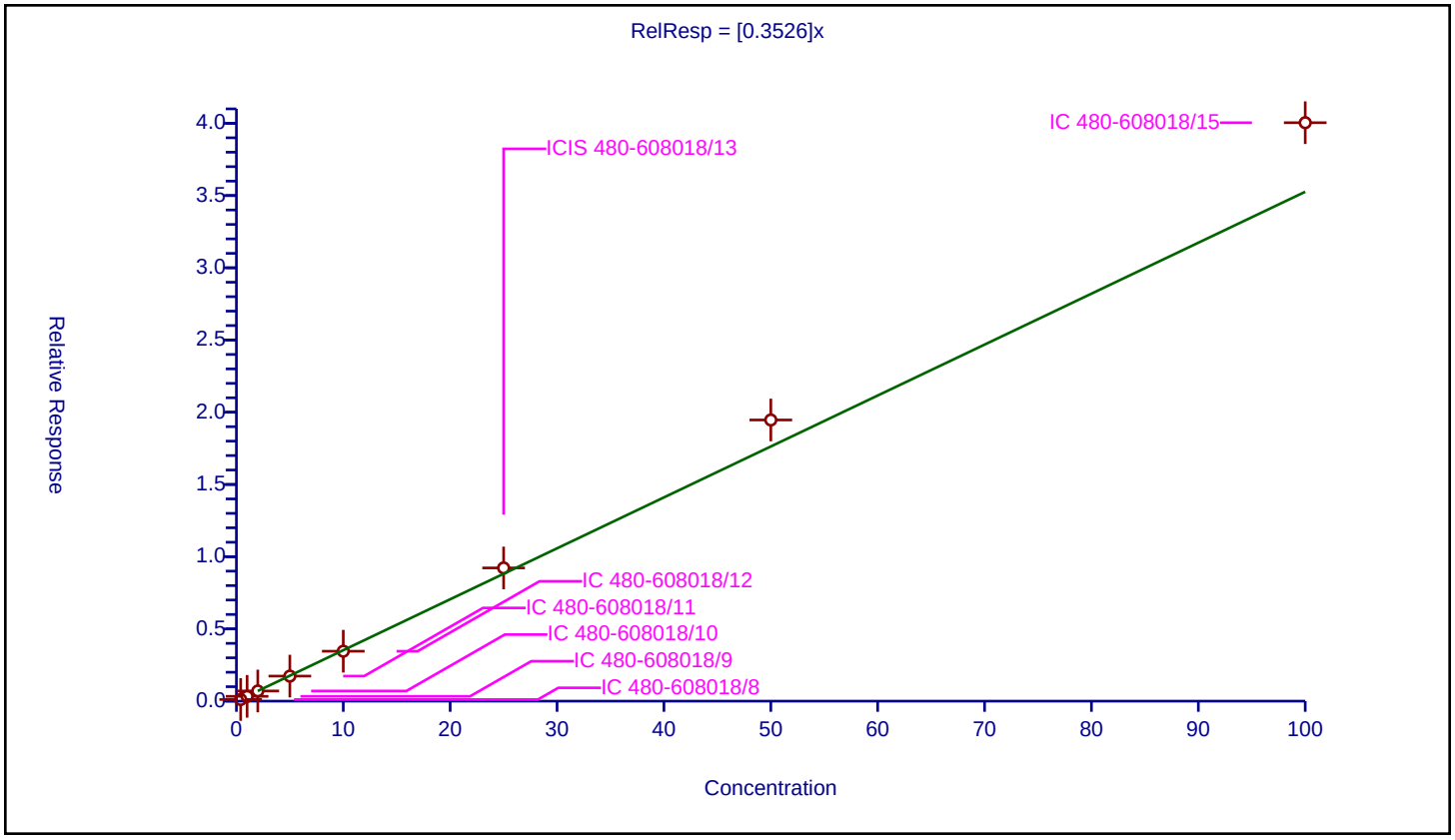
Curve Coefficients

Intercept:	0
Slope:	0.3526

Error Coefficients

Standard Error:	429000
Relative Standard Error:	10.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.113722	25.0	536616.0	0.284305	Y
2	IC 480-608018/9	1.0	0.333366	25.0	560645.0	0.333366	Y
3	IC 480-608018/10	2.0	0.703987	25.0	570962.0	0.351994	Y
4	IC 480-608018/11	5.0	1.733999	25.0	567878.0	0.3468	Y
5	IC 480-608018/12	10.0	3.457147	25.0	564208.0	0.345715	Y
6	ICIS 480-608018/13	25.0	9.222741	25.0	590112.0	0.36891	Y
7	IC 480-608018/14	50.0	19.464743	25.0	614723.0	0.389295	Y
8	IC 480-608018/15	100.0	40.043221	25.0	624818.0	0.400432	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

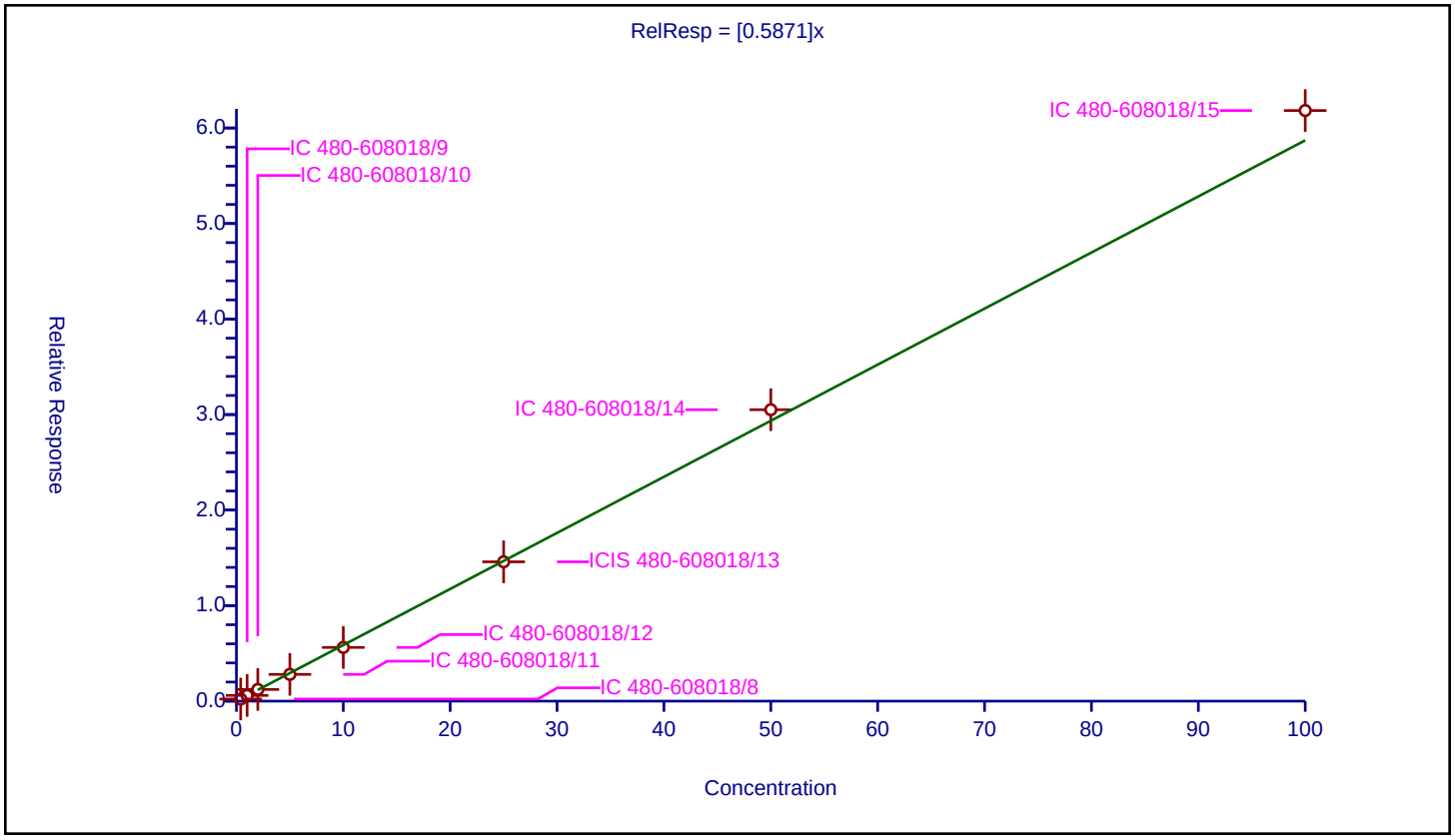
Curve Coefficients

Intercept:	0
Slope:	0.5871

Error Coefficients

Standard Error:	664000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.220735	25.0	536616.0	0.551838	Y
2	IC 480-608018/9	1.0	0.598507	25.0	560645.0	0.598507	Y
3	IC 480-608018/10	2.0	1.223856	25.0	570962.0	0.611928	Y
4	IC 480-608018/11	5.0	2.802054	25.0	567878.0	0.560411	Y
5	IC 480-608018/12	10.0	5.621331	25.0	564208.0	0.562133	Y
6	ICIS 480-608018/13	25.0	14.582359	25.0	590112.0	0.583294	Y
7	IC 480-608018/14	50.0	30.510449	25.0	614723.0	0.610209	Y
8	IC 480-608018/15	100.0	61.825924	25.0	624818.0	0.618259	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

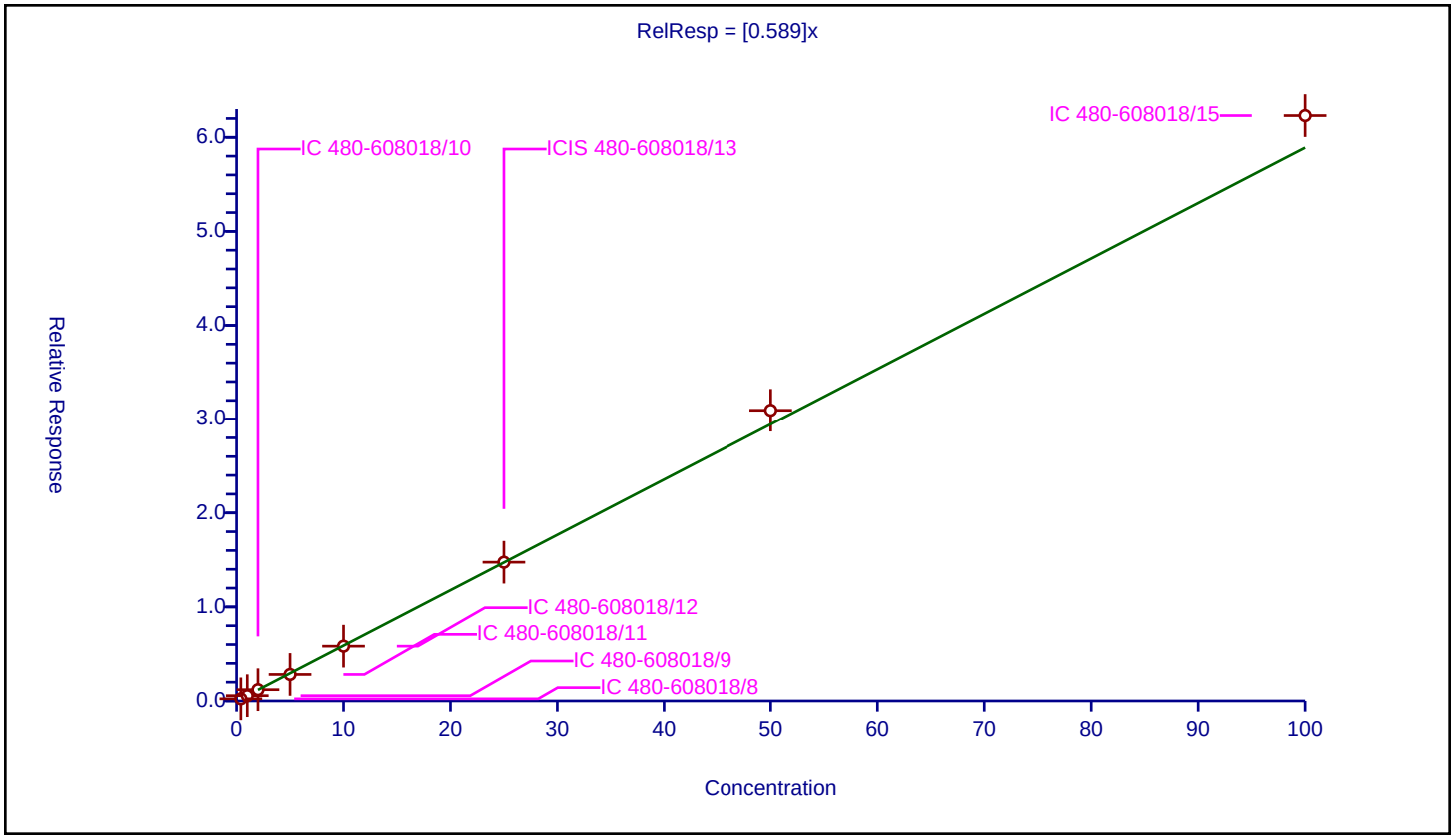
Curve Coefficients

Intercept:	0
Slope:	0.589

Error Coefficients

Standard Error:	671000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.228935	25.0	536616.0	0.572337	Y
2	IC 480-608018/9	1.0	0.56105	25.0	560645.0	0.56105	Y
3	IC 480-608018/10	2.0	1.199204	25.0	570962.0	0.599602	Y
4	IC 480-608018/11	5.0	2.821072	25.0	567878.0	0.564214	Y
5	IC 480-608018/12	10.0	5.827239	25.0	564208.0	0.582724	Y
6	ICIS 480-608018/13	25.0	14.754614	25.0	590112.0	0.590185	Y
7	IC 480-608018/14	50.0	30.945117	25.0	614723.0	0.618902	Y
8	IC 480-608018/15	100.0	62.309825	25.0	624818.0	0.623098	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

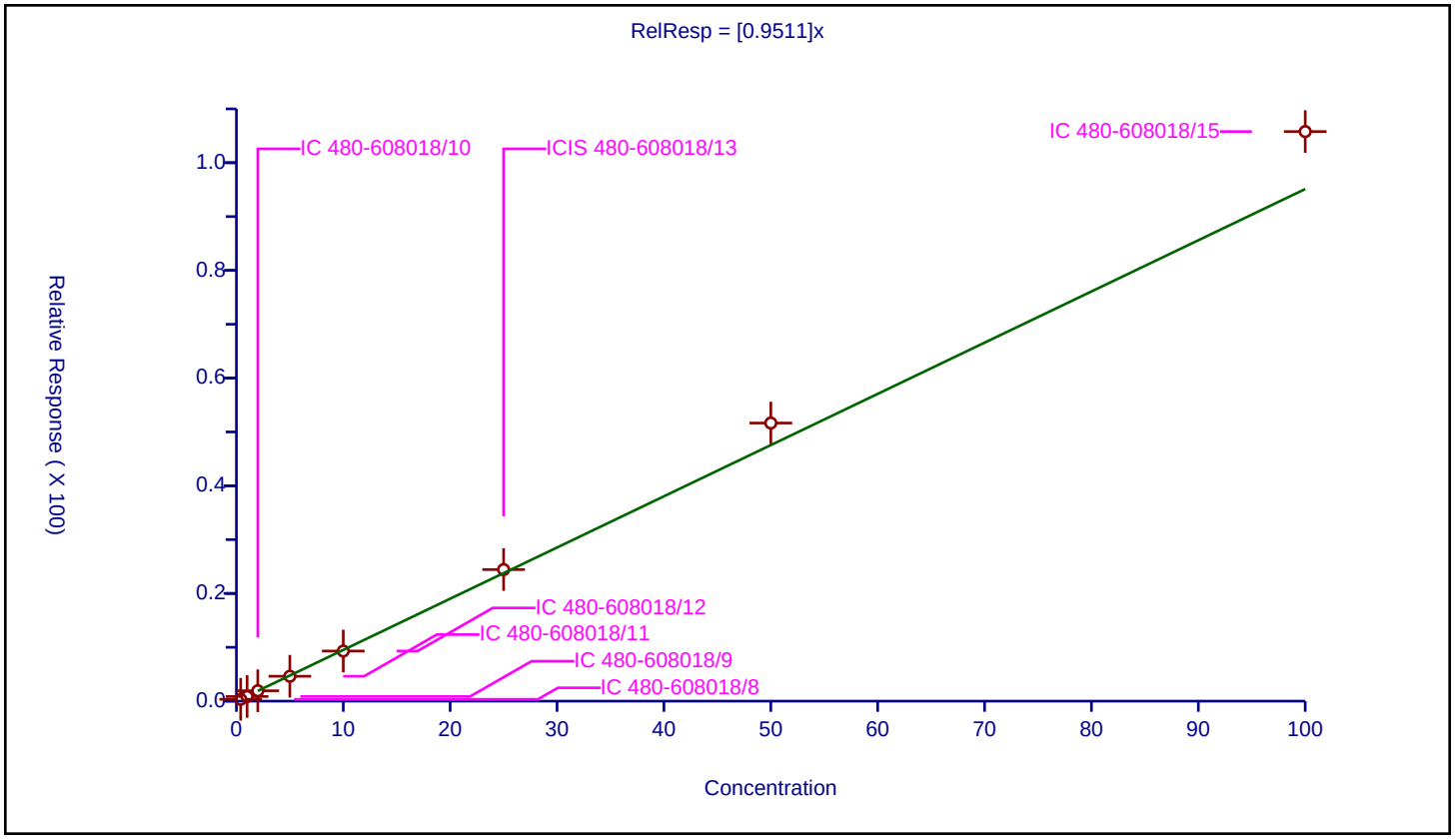
Curve Coefficients

Intercept:	0
Slope:	0.9511

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.343122	25.0	536616.0	0.857806	Y
2	IC 480-608018/9	1.0	0.863604	25.0	560645.0	0.863604	Y
3	IC 480-608018/10	2.0	1.927536	25.0	570962.0	0.963768	Y
4	IC 480-608018/11	5.0	4.623748	25.0	567878.0	0.92475	Y
5	IC 480-608018/12	10.0	9.305655	25.0	564208.0	0.930566	Y
6	ICIS 480-608018/13	25.0	24.434599	25.0	590112.0	0.977384	Y
7	IC 480-608018/14	50.0	51.653468	25.0	614723.0	1.033069	Y
8	IC 480-608018/15	100.0	105.784845	25.0	624818.0	1.057848	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

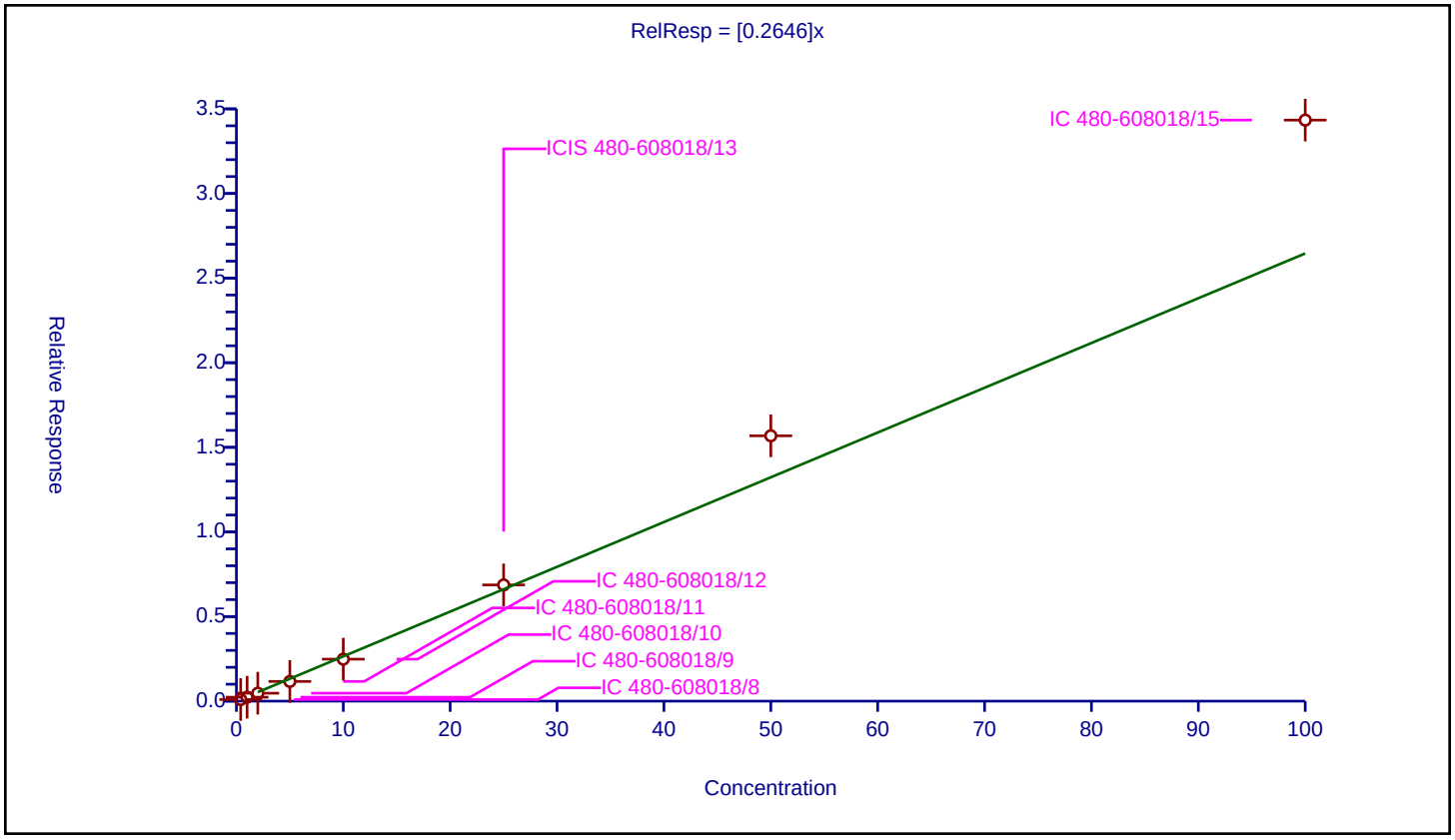
Curve Coefficients

Intercept:	0
Slope:	0.2646

Error Coefficients

Standard Error:	362000
Relative Standard Error:	16.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.09476	25.0	536616.0	0.236901	Y
2	IC 480-608018/9	1.0	0.231653	25.0	560645.0	0.231653	Y
3	IC 480-608018/10	2.0	0.470347	25.0	570962.0	0.235173	Y
4	IC 480-608018/11	5.0	1.164731	25.0	567878.0	0.232946	Y
5	IC 480-608018/12	10.0	2.481	25.0	564208.0	0.2481	Y
6	ICIS 480-608018/13	25.0	6.868145	25.0	590112.0	0.274726	Y
7	IC 480-608018/14	50.0	15.680437	25.0	614723.0	0.313609	Y
8	IC 480-608018/15	100.0	34.337079	25.0	624818.0	0.343371	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

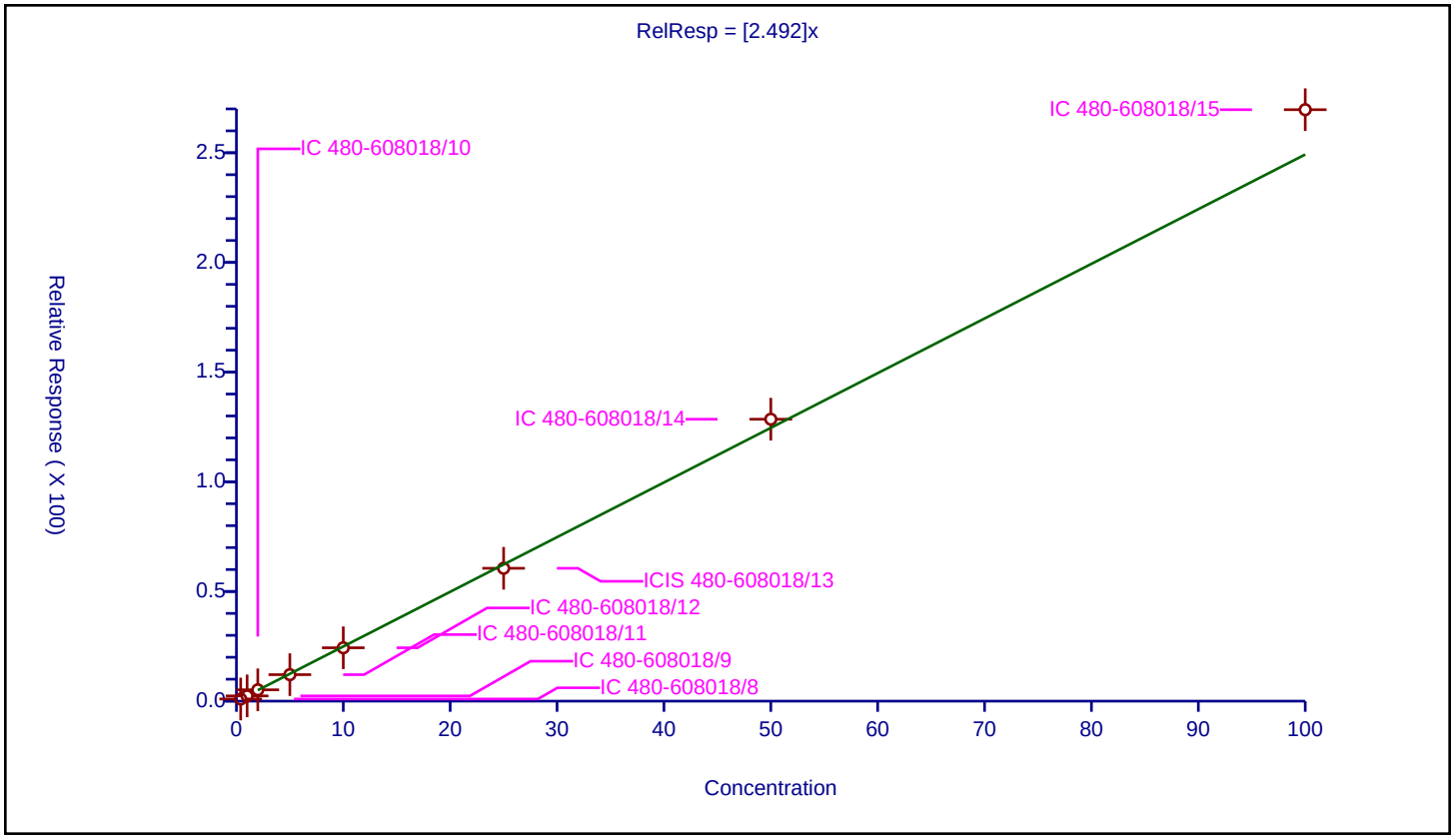
Curve Coefficients

Intercept:	0
Slope:	2.492

Error Coefficients

Standard Error:	1750000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.974127	25.0	321724.0	2.435317	Y
2	IC 480-608018/9	1.0	2.380235	25.0	336784.0	2.380235	Y
3	IC 480-608018/10	2.0	5.16818	25.0	350844.0	2.58409	Y
4	IC 480-608018/11	5.0	12.072113	25.0	332769.0	2.414423	Y
5	IC 480-608018/12	10.0	24.322688	25.0	340648.0	2.432269	Y
6	ICIS 480-608018/13	25.0	60.575307	25.0	375982.0	2.423012	Y
7	IC 480-608018/14	50.0	128.52558	25.0	389092.0	2.570512	Y
8	IC 480-608018/15	100.0	269.634724	25.0	376113.0	2.696347	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

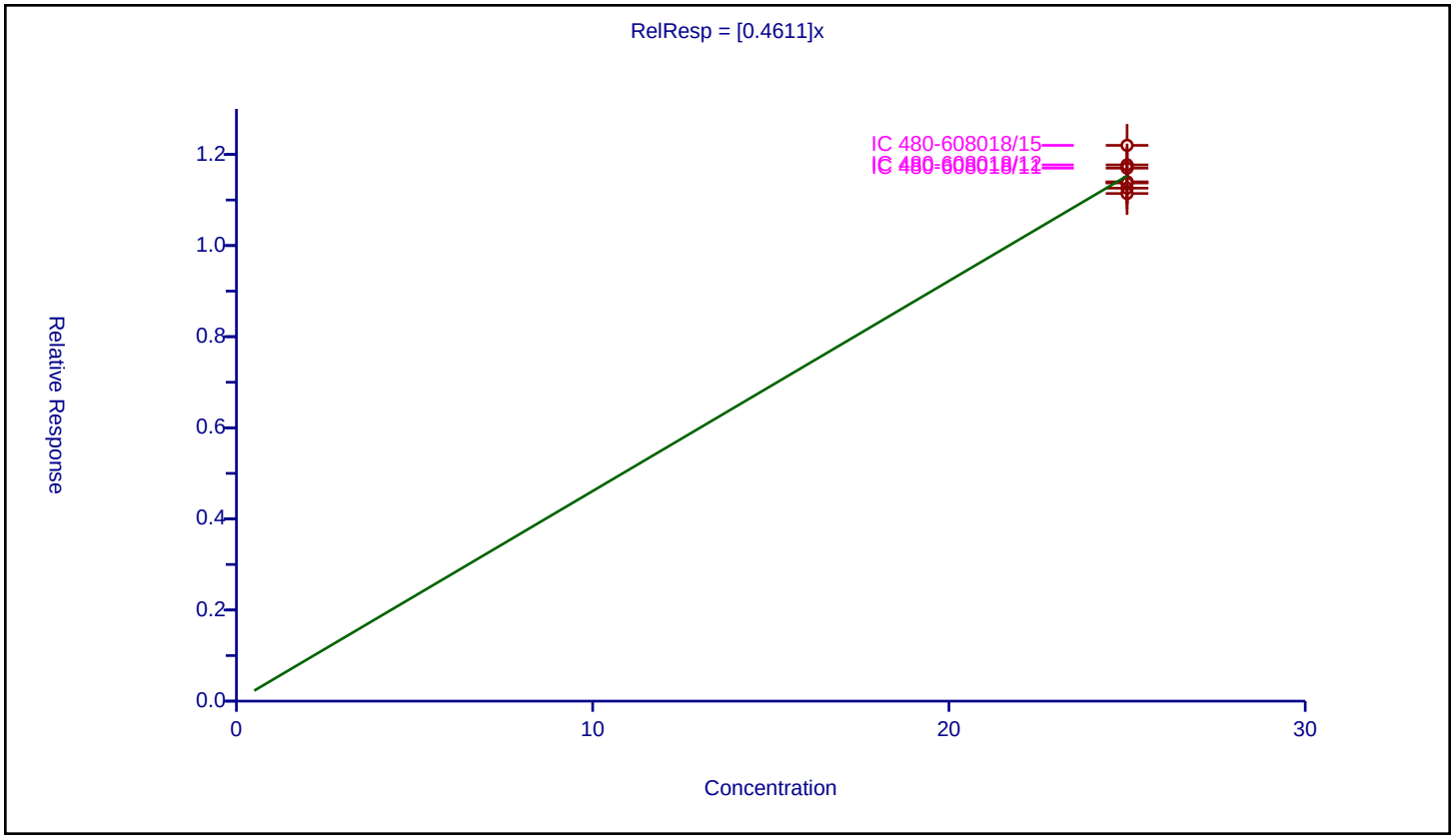
Curve Coefficients

Intercept:	0
Slope:	0.4611

Error Coefficients

Standard Error:	286000
Relative Standard Error:	3.0
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	25.0	11.259961	25.0	536616.0	0.450398	Y
2	IC 480-608018/9	25.0	11.380464	25.0	560645.0	0.455219	Y
3	IC 480-608018/10	25.0	11.142379	25.0	570962.0	0.445695	Y
4	IC 480-608018/11	25.0	11.69974	25.0	567878.0	0.46799	Y
5	IC 480-608018/12	25.0	11.77026	25.0	564208.0	0.47081	Y
6	ICIS 480-608018/13	25.0	11.37695	25.0	590112.0	0.455078	Y
7	IC 480-608018/14	25.0	11.399321	25.0	614723.0	0.455973	Y
8	IC 480-608018/15	25.0	12.199593	25.0	624818.0	0.487984	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

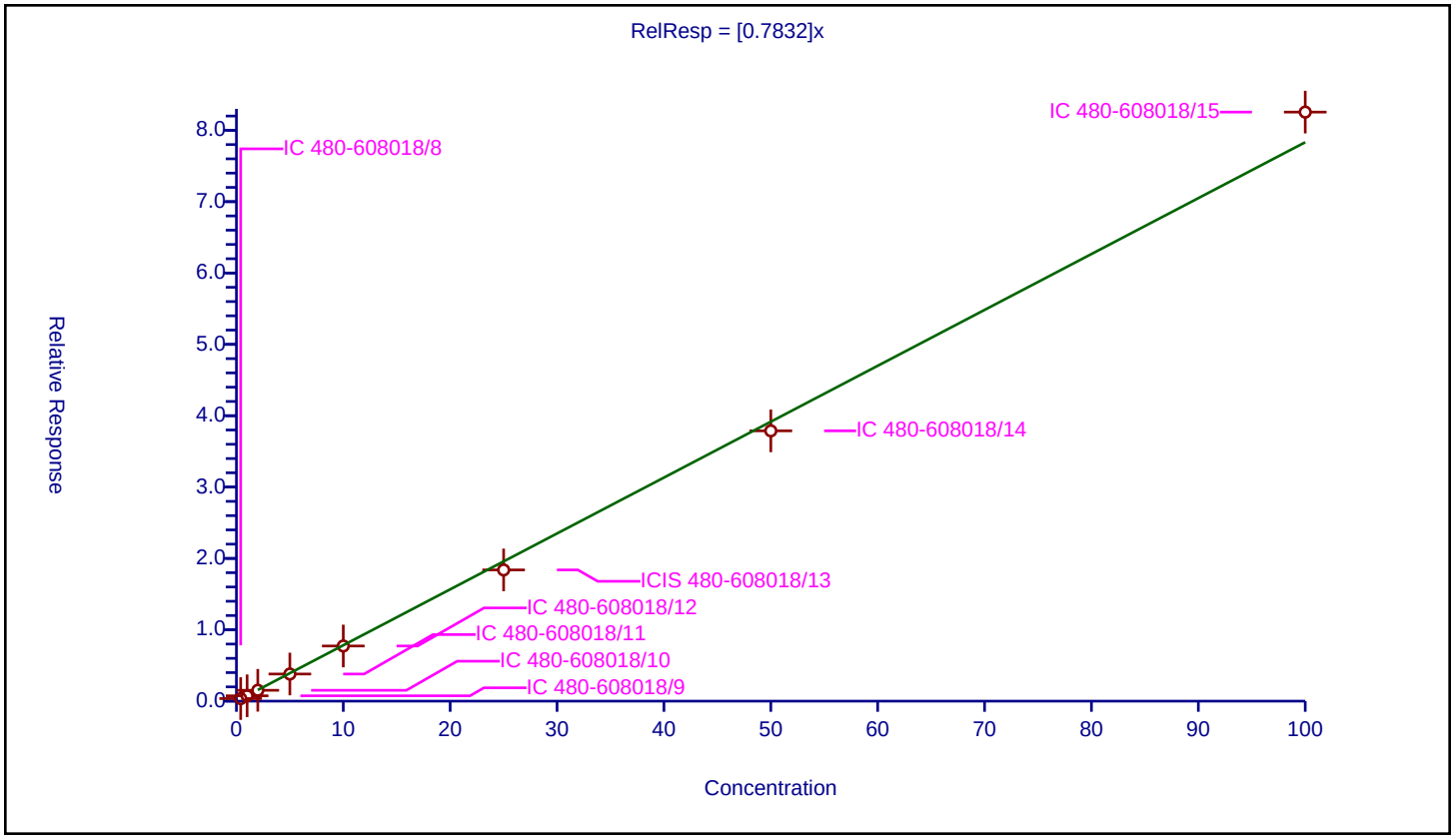
Curve Coefficients

Intercept:	0
Slope:	0.7832

Error Coefficients

Standard Error:	532000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.361645	25.0	321724.0	0.904113	Y
2	IC 480-608018/9	1.0	0.749442	25.0	336784.0	0.749442	Y
3	IC 480-608018/10	2.0	1.520833	25.0	350844.0	0.760416	Y
4	IC 480-608018/11	5.0	3.802938	25.0	332769.0	0.760588	Y
5	IC 480-608018/12	10.0	7.727185	25.0	340648.0	0.772718	Y
6	ICIS 480-608018/13	25.0	18.388114	25.0	375982.0	0.735525	Y
7	IC 480-608018/14	50.0	37.879088	25.0	389092.0	0.757582	Y
8	IC 480-608018/15	100.0	82.553249	25.0	376113.0	0.825532	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

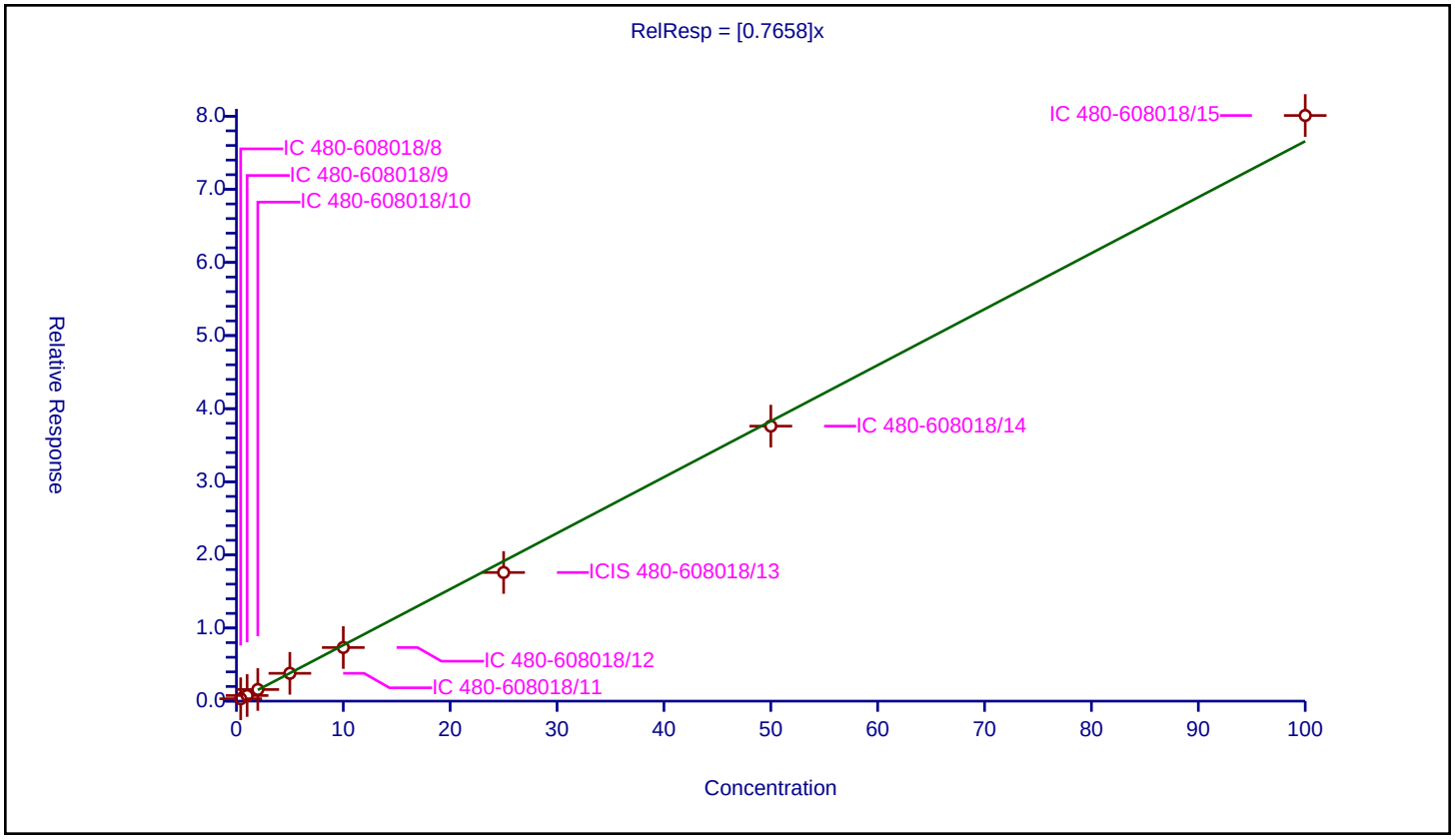
Curve Coefficients

Intercept:	0
Slope:	0.7658

Error Coefficients

Standard Error:	518000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.325201	25.0	321724.0	0.813003	Y
2	IC 480-608018/9	1.0	0.766218	25.0	336784.0	0.766218	Y
3	IC 480-608018/10	2.0	1.591519	25.0	350844.0	0.79576	Y
4	IC 480-608018/11	5.0	3.805568	25.0	332769.0	0.761114	Y
5	IC 480-608018/12	10.0	7.331542	25.0	340648.0	0.733154	Y
6	ICIS 480-608018/13	25.0	17.594193	25.0	375982.0	0.703768	Y
7	IC 480-608018/14	50.0	37.613084	25.0	389092.0	0.752262	Y
8	IC 480-608018/15	100.0	80.096208	25.0	376113.0	0.800962	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

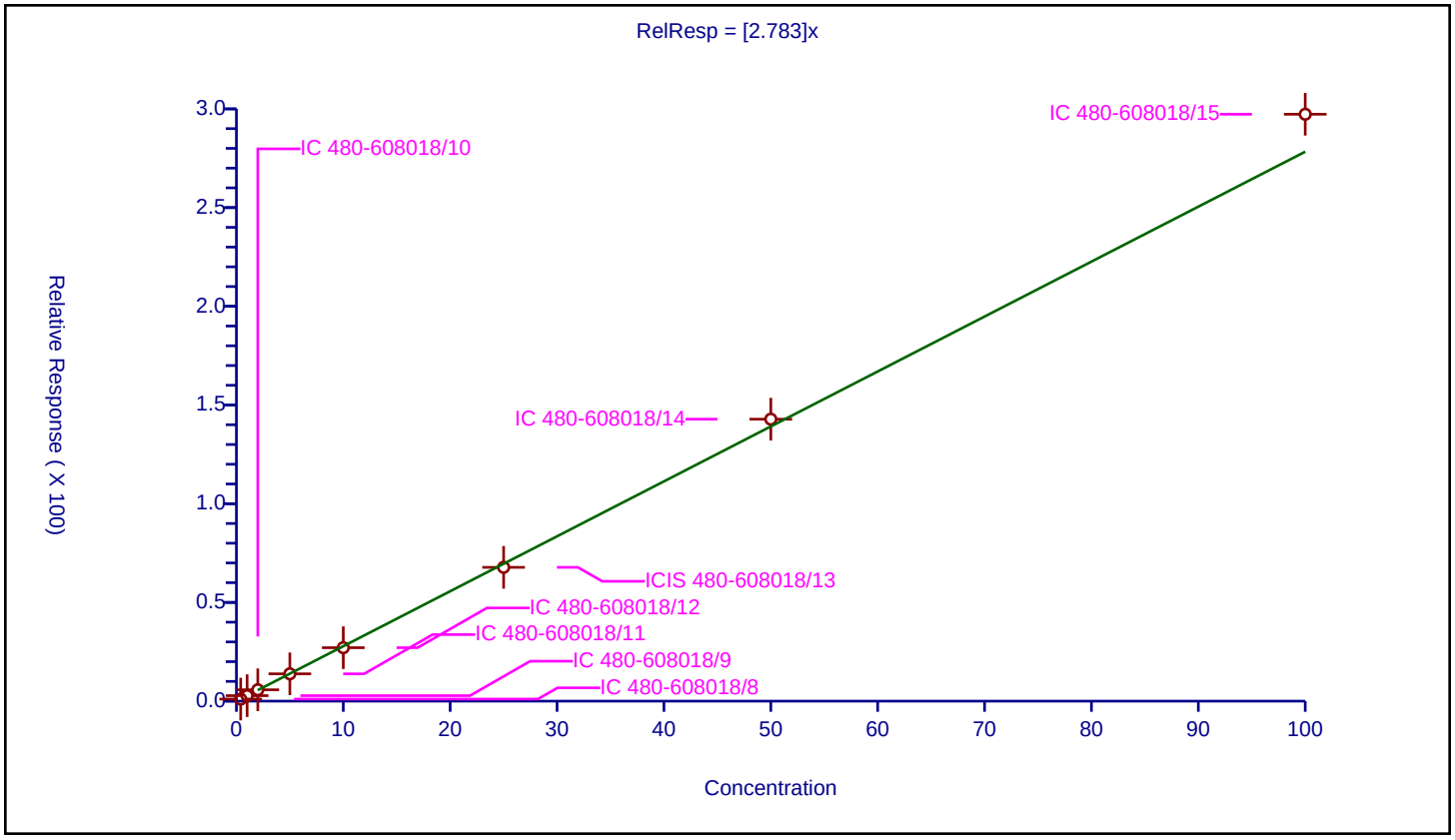
Curve Coefficients

Intercept:	0
Slope:	2.783

Error Coefficients

Standard Error:	1930000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.040488	25.0	321724.0	2.60122	Y
2	IC 480-608018/9	1.0	2.771361	25.0	336784.0	2.771361	Y
3	IC 480-608018/10	2.0	5.753839	25.0	350844.0	2.87692	Y
4	IC 480-608018/11	5.0	13.833846	25.0	332769.0	2.766769	Y
5	IC 480-608018/12	10.0	27.072814	25.0	340648.0	2.707281	Y
6	ICIS 480-608018/13	25.0	67.775651	25.0	375982.0	2.711026	Y
7	IC 480-608018/14	50.0	142.827596	25.0	389092.0	2.856552	Y
8	IC 480-608018/15	100.0	297.2935	25.0	376113.0	2.972935	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

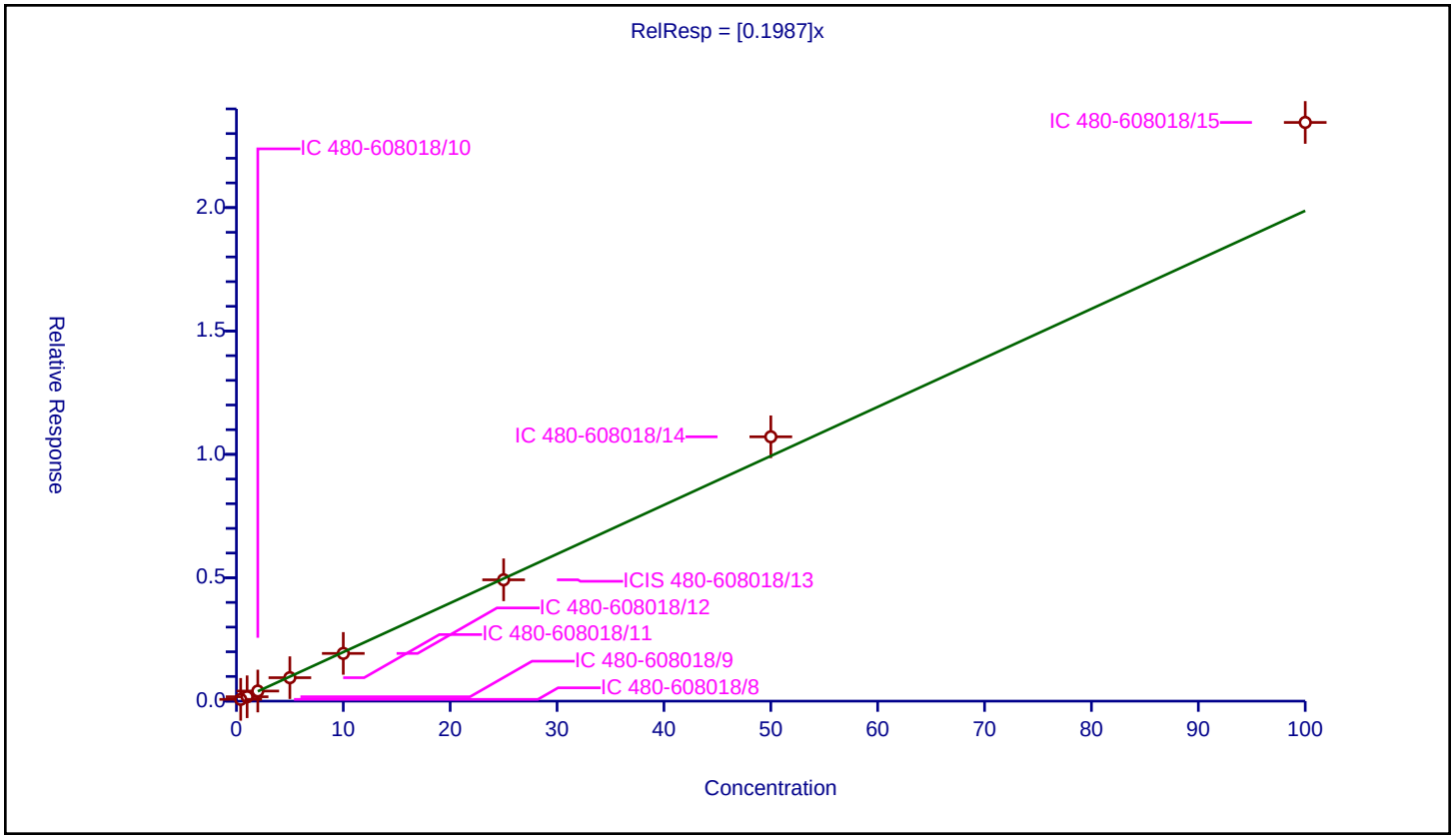
Curve Coefficients

Intercept:	0
Slope:	0.1987

Error Coefficients

Standard Error:	151000
Relative Standard Error:	9.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.071334	25.0	321724.0	0.178336	Y
2	IC 480-608018/9	1.0	0.178007	25.0	336784.0	0.178007	Y
3	IC 480-608018/10	2.0	0.409227	25.0	350844.0	0.204614	Y
4	IC 480-608018/11	5.0	0.950209	25.0	332769.0	0.190042	Y
5	IC 480-608018/12	10.0	1.933227	25.0	340648.0	0.193323	Y
6	ICIS 480-608018/13	25.0	4.916326	25.0	375982.0	0.196653	Y
7	IC 480-608018/14	50.0	10.712119	25.0	389092.0	0.214242	Y
8	IC 480-608018/15	100.0	23.450865	25.0	376113.0	0.234509	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

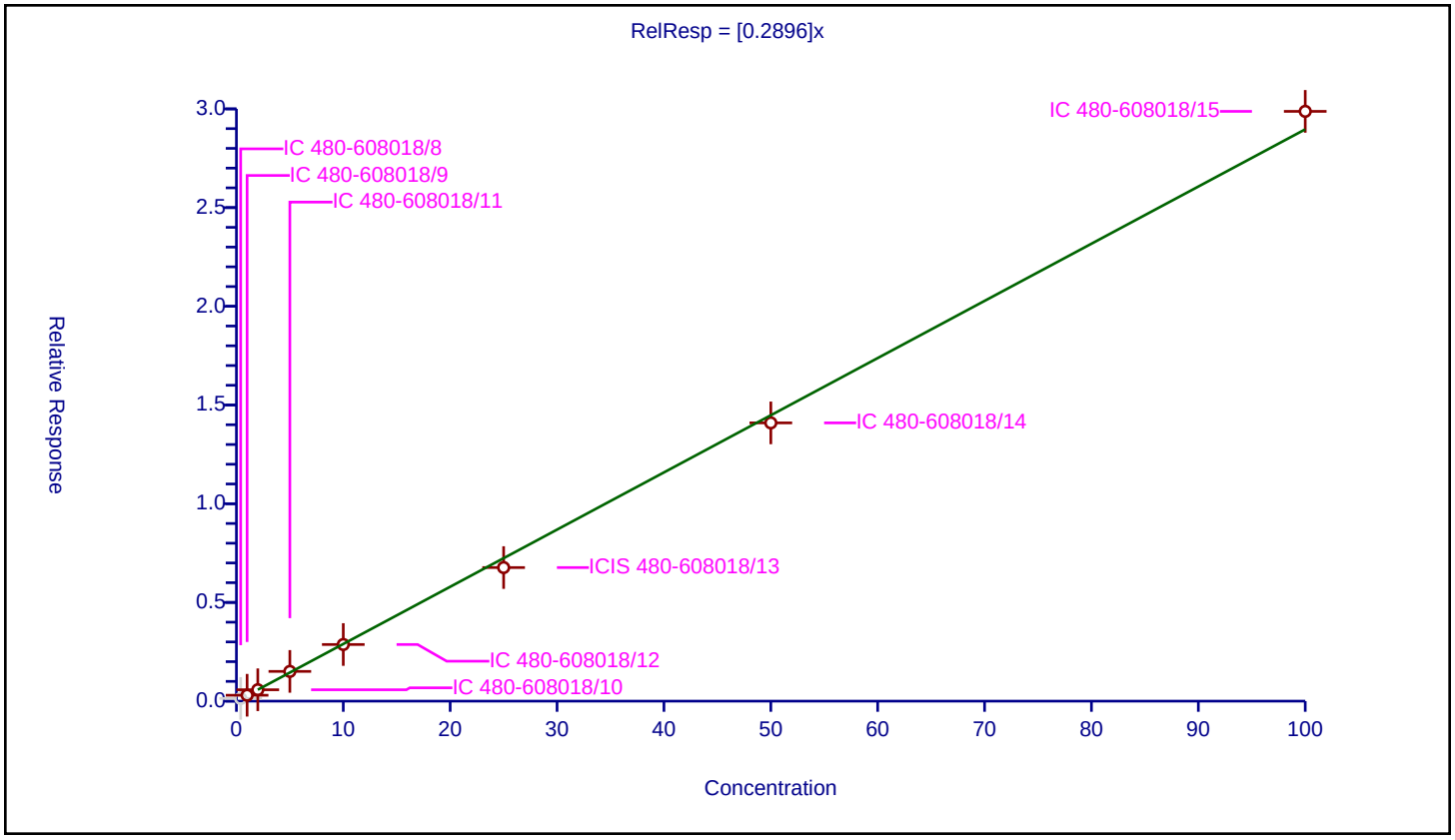
Curve Coefficients

Intercept:	0
Slope:	0.2896

Error Coefficients

Standard Error:	209000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.137463	25.0	321724.0	0.343656	N
2	IC 480-608018/9	1.0	0.299376	25.0	336784.0	0.299376	Y
3	IC 480-608018/10	2.0	0.57718	25.0	350844.0	0.28859	Y
4	IC 480-608018/11	5.0	1.506	25.0	332769.0	0.3012	Y
5	IC 480-608018/12	10.0	2.869311	25.0	340648.0	0.286931	Y
6	ICIS 480-608018/13	25.0	6.766148	25.0	375982.0	0.270646	Y
7	IC 480-608018/14	50.0	14.09506	25.0	389092.0	0.281901	Y
8	IC 480-608018/15	100.0	29.874865	25.0	376113.0	0.298749	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

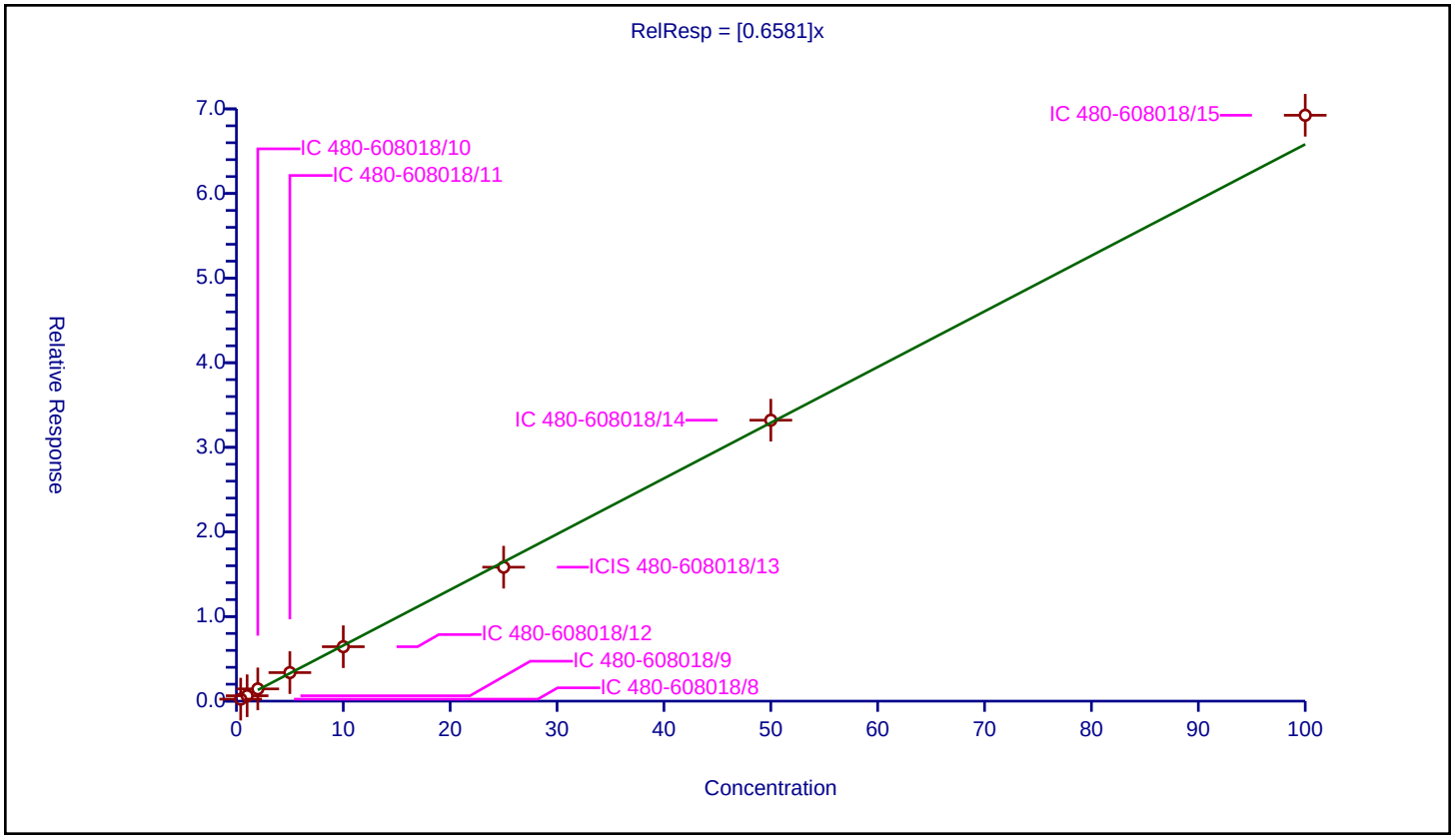
Curve Coefficients

Intercept:	0
Slope:	0.6581

Error Coefficients

Standard Error:	450000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.238792	25.0	321724.0	0.596979	Y
2	IC 480-608018/9	1.0	0.636239	25.0	336784.0	0.636239	Y
3	IC 480-608018/10	2.0	1.447296	25.0	350844.0	0.723648	Y
4	IC 480-608018/11	5.0	3.373812	25.0	332769.0	0.674762	Y
5	IC 480-608018/12	10.0	6.434281	25.0	340648.0	0.643428	Y
6	ICIS 480-608018/13	25.0	15.83387	25.0	375982.0	0.633355	Y
7	IC 480-608018/14	50.0	33.207635	25.0	389092.0	0.664153	Y
8	IC 480-608018/15	100.0	69.247075	25.0	376113.0	0.692471	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

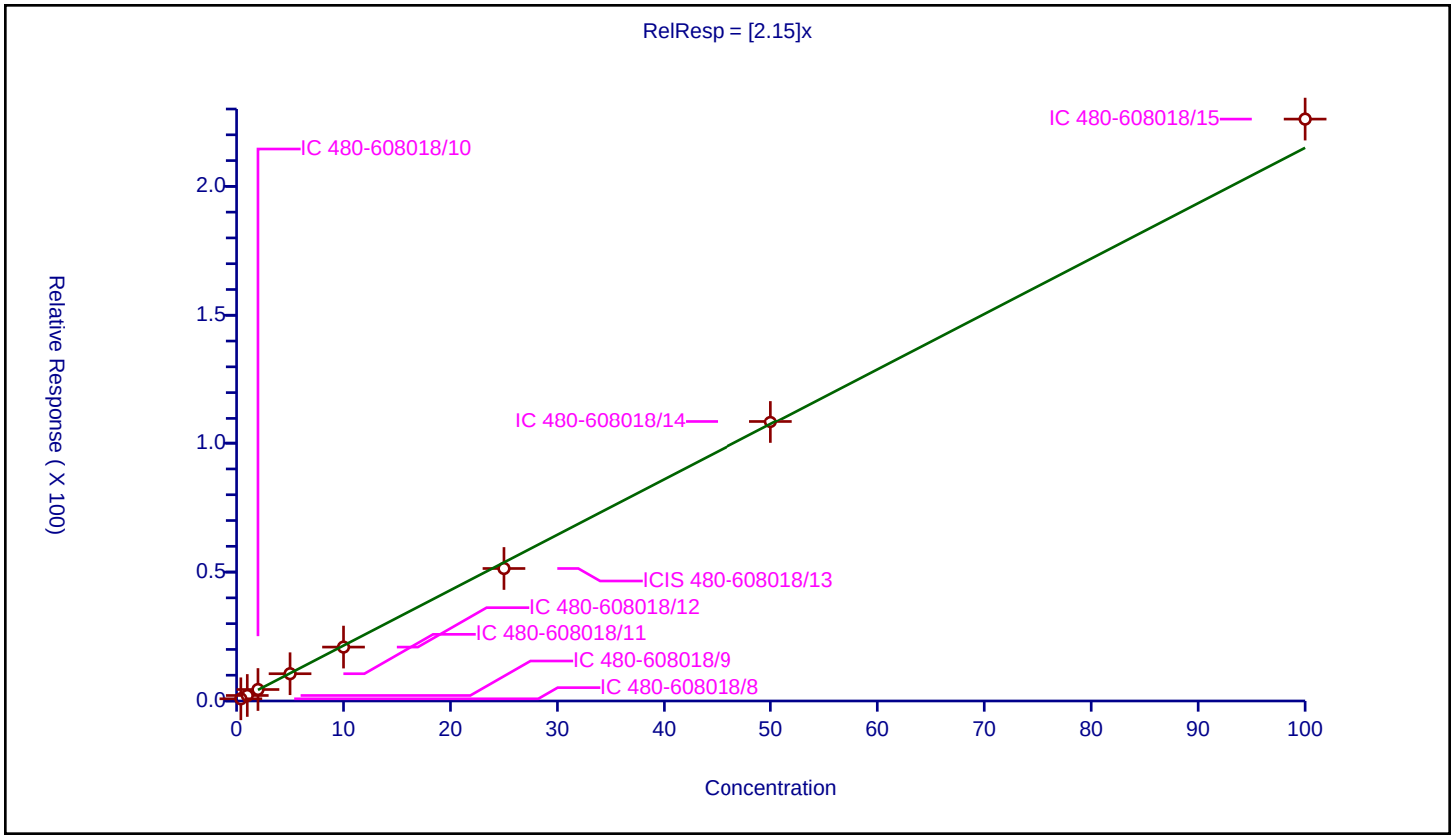
Curve Coefficients

Intercept:	0
Slope:	2.15

Error Coefficients

Standard Error:	1470000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.858111	25.0	321724.0	2.145278	Y
2	IC 480-608018/9	1.0	2.132524	25.0	336784.0	2.132524	Y
3	IC 480-608018/10	2.0	4.457537	25.0	350844.0	2.228768	Y
4	IC 480-608018/11	5.0	10.573251	25.0	332769.0	2.11465	Y
5	IC 480-608018/12	10.0	20.908753	25.0	340648.0	2.090875	Y
6	ICIS 480-608018/13	25.0	51.392021	25.0	375982.0	2.055681	Y
7	IC 480-608018/14	50.0	108.411828	25.0	389092.0	2.168237	Y
8	IC 480-608018/15	100.0	226.088237	25.0	376113.0	2.260882	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

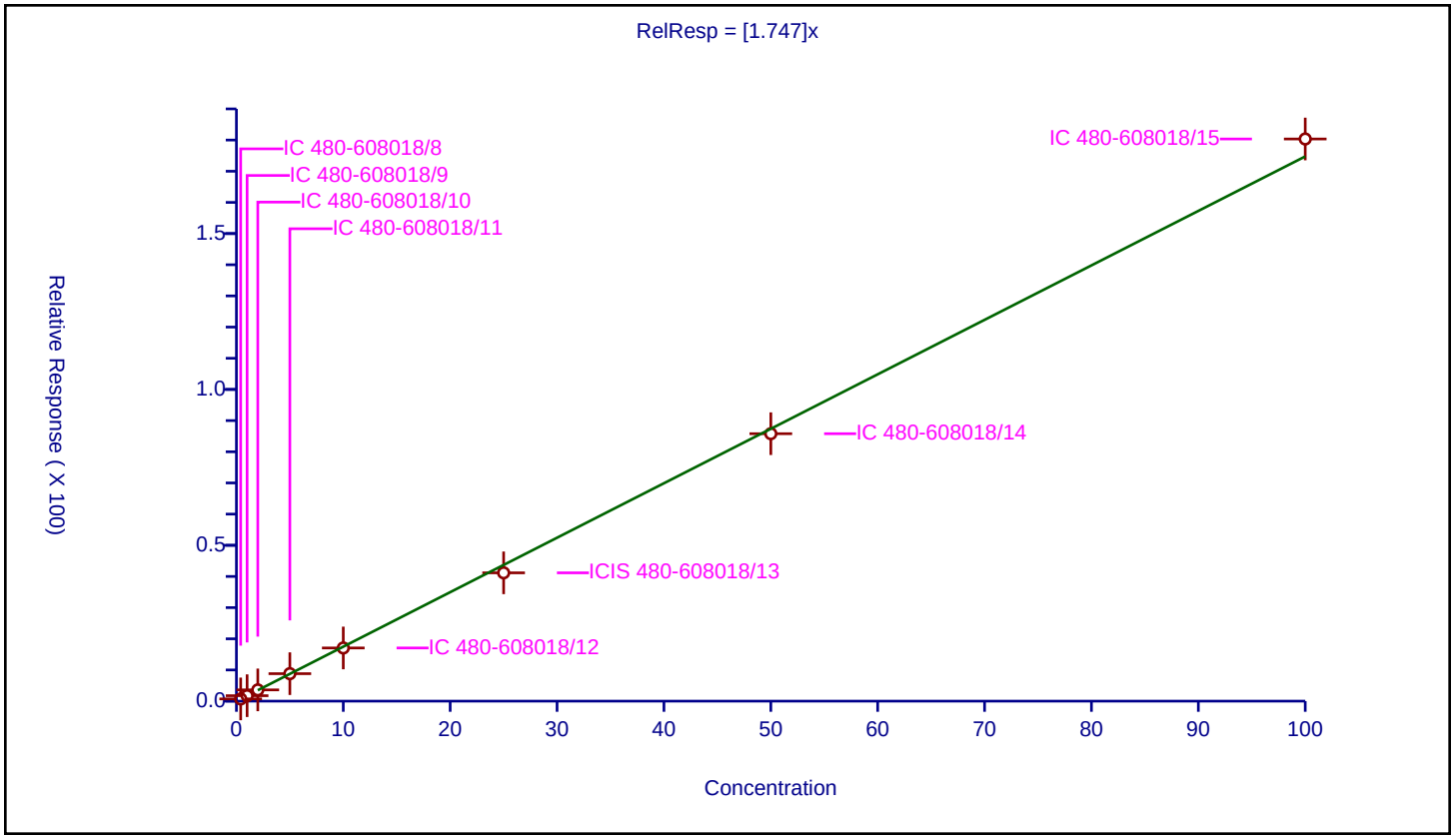
Curve Coefficients

Intercept:	0
Slope:	1.747

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.715909	25.0	321724.0	1.789772	Y
2	IC 480-608018/9	1.0	1.750677	25.0	336784.0	1.750677	Y
3	IC 480-608018/10	2.0	3.607871	25.0	350844.0	1.803936	Y
4	IC 480-608018/11	5.0	8.814673	25.0	332769.0	1.762935	Y
5	IC 480-608018/12	10.0	17.057564	25.0	340648.0	1.705756	Y
6	ICIS 480-608018/13	25.0	41.16733	25.0	375982.0	1.646693	Y
7	IC 480-608018/14	50.0	85.800081	25.0	389092.0	1.716002	Y
8	IC 480-608018/15	100.0	180.340416	25.0	376113.0	1.803404	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

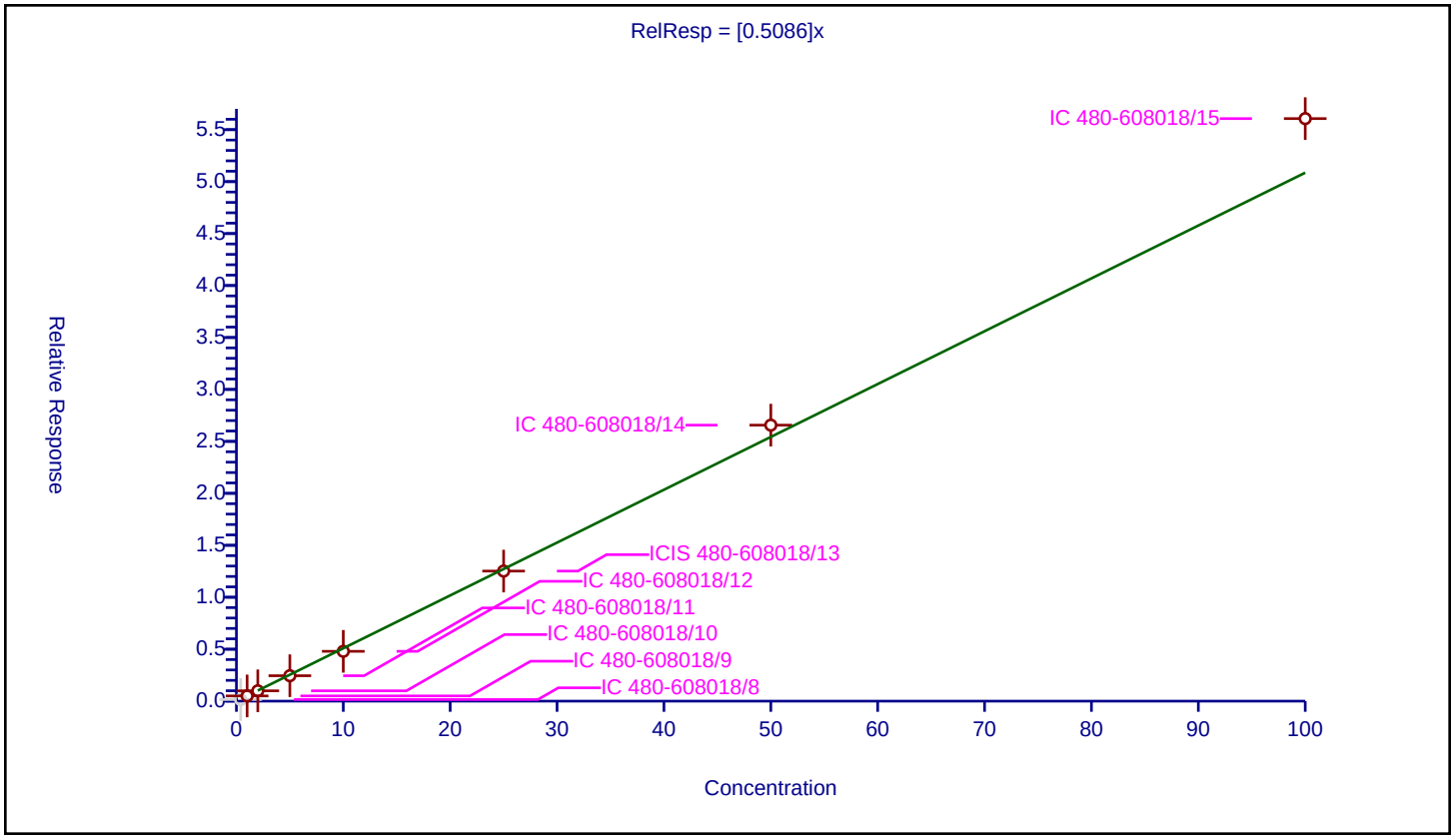
Curve Coefficients

Intercept:	0
Slope:	0.5086

Error Coefficients

Standard Error:	392000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.155257	25.0	321724.0	0.388143	N
2	IC 480-608018/9	1.0	0.501211	25.0	336784.0	0.501211	Y
3	IC 480-608018/10	2.0	0.99453	25.0	350844.0	0.497265	Y
4	IC 480-608018/11	5.0	2.447719	25.0	332769.0	0.489544	Y
5	IC 480-608018/12	10.0	4.793805	25.0	340648.0	0.47938	Y
6	ICIS 480-608018/13	25.0	12.519349	25.0	375982.0	0.500774	Y
7	IC 480-608018/14	50.0	26.563383	25.0	389092.0	0.531268	Y
8	IC 480-608018/15	100.0	56.064933	25.0	376113.0	0.560649	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

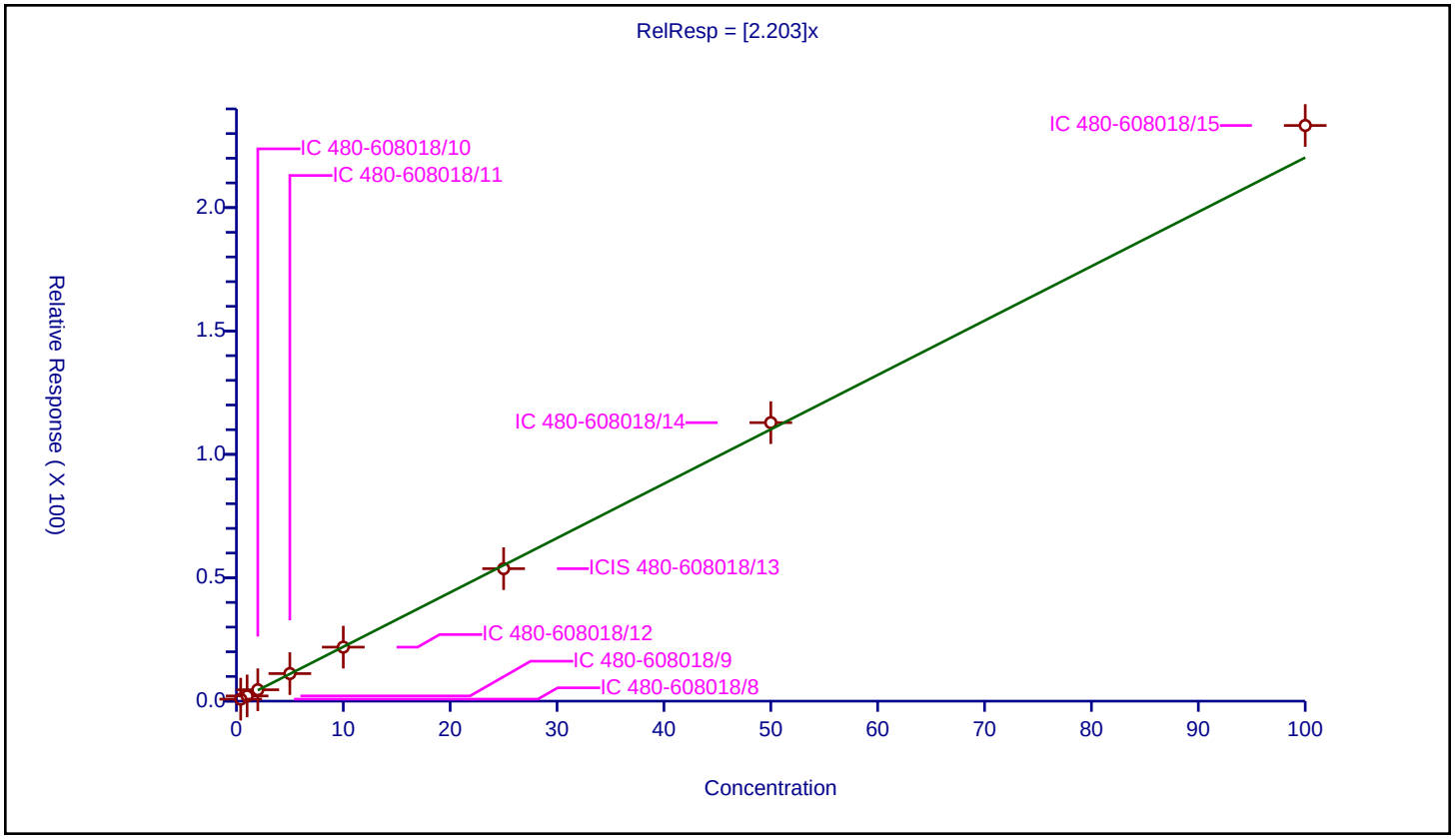
Curve Coefficients

Intercept:	0
Slope:	2.203

Error Coefficients

Standard Error:	1520000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.817549	25.0	321724.0	2.043871	Y
2	IC 480-608018/9	1.0	2.112853	25.0	336784.0	2.112853	Y
3	IC 480-608018/10	2.0	4.61024	25.0	350844.0	2.30512	Y
4	IC 480-608018/11	5.0	11.170662	25.0	332769.0	2.234132	Y
5	IC 480-608018/12	10.0	21.885788	25.0	340648.0	2.188579	Y
6	ICIS 480-608018/13	25.0	53.682623	25.0	375982.0	2.147305	Y
7	IC 480-608018/14	50.0	112.86296	25.0	389092.0	2.257259	Y
8	IC 480-608018/15	100.0	233.272381	25.0	376113.0	2.332724	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

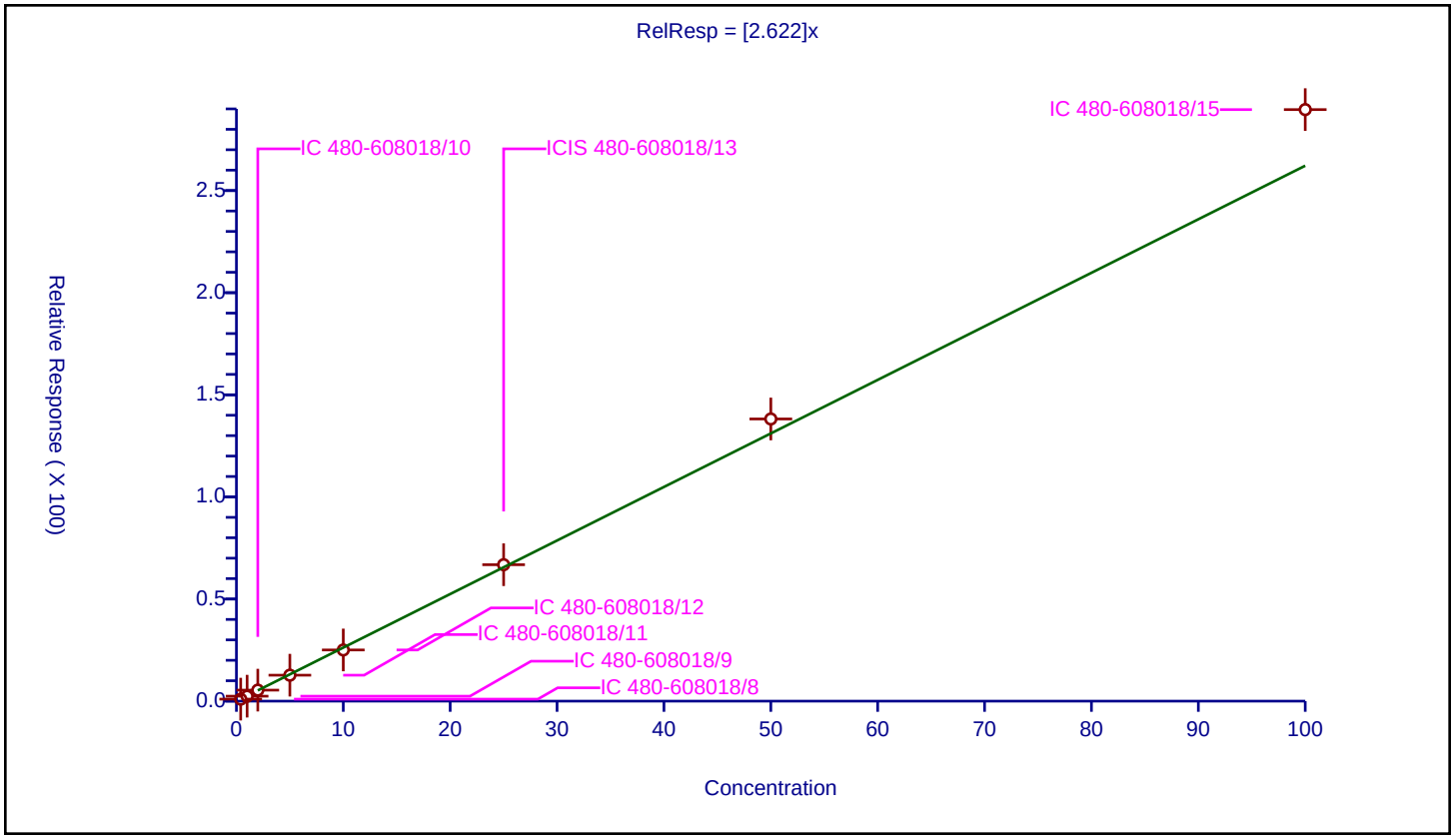
Curve Coefficients

Intercept:	0
Slope:	2.622

Error Coefficients

Standard Error:	1880000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.986871	25.0	321724.0	2.467177	Y
2	IC 480-608018/9	1.0	2.428188	25.0	336784.0	2.428188	Y
3	IC 480-608018/10	2.0	5.398553	25.0	350844.0	2.699277	Y
4	IC 480-608018/11	5.0	12.709041	25.0	332769.0	2.541808	Y
5	IC 480-608018/12	10.0	25.052987	25.0	340648.0	2.505299	Y
6	ICIS 480-608018/13	25.0	66.803996	25.0	375982.0	2.67216	Y
7	IC 480-608018/14	50.0	138.163853	25.0	389092.0	2.763277	Y
8	IC 480-608018/15	100.0	289.652844	25.0	376113.0	2.896528	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

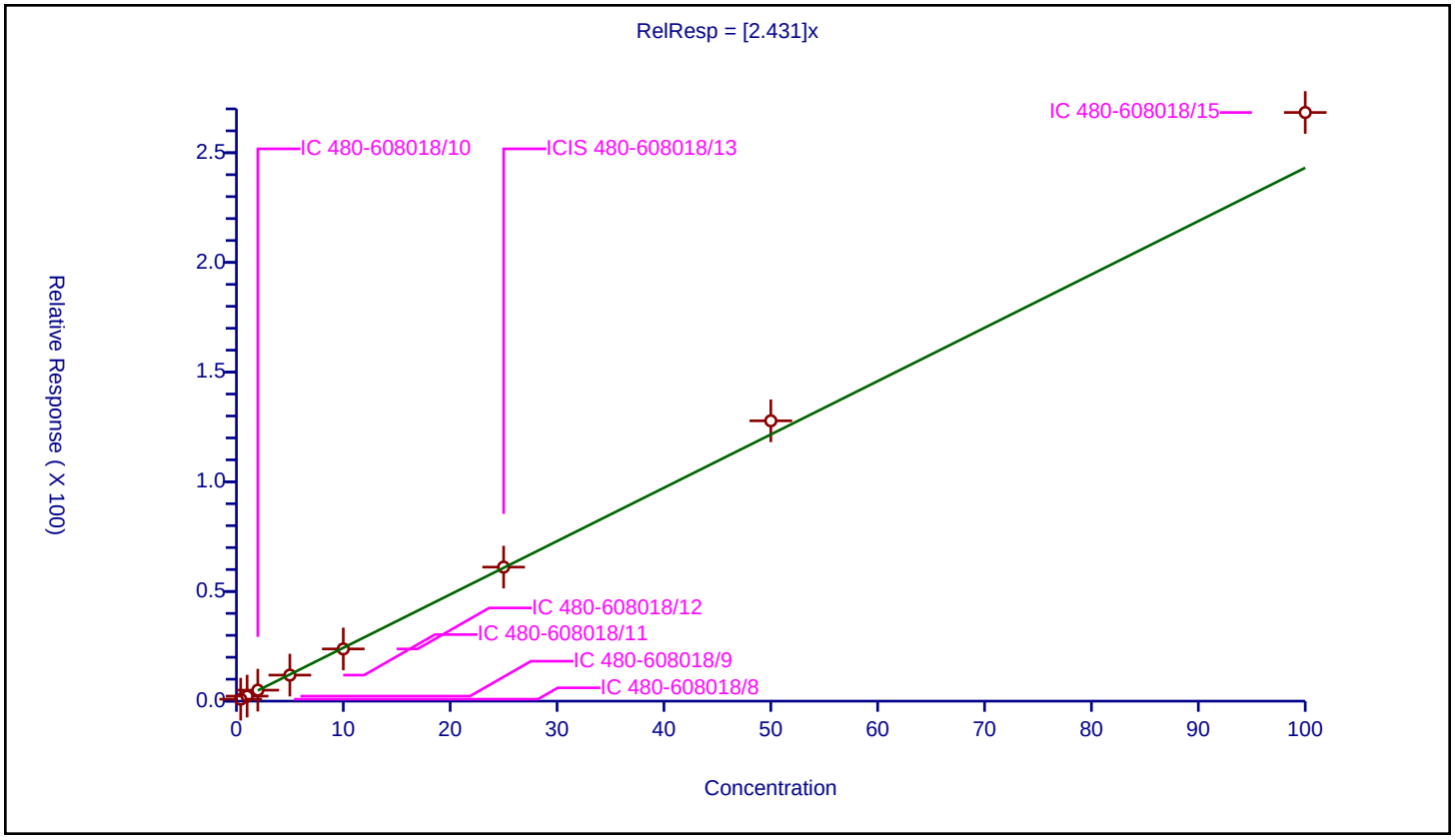
Curve Coefficients

Intercept:	0
Slope:	2.431

Error Coefficients

Standard Error:	1740000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.890049	25.0	321724.0	2.225122	Y
2	IC 480-608018/9	1.0	2.288485	25.0	336784.0	2.288485	Y
3	IC 480-608018/10	2.0	5.004076	25.0	350844.0	2.502038	Y
4	IC 480-608018/11	5.0	11.86356	25.0	332769.0	2.372712	Y
5	IC 480-608018/12	10.0	23.793036	25.0	340648.0	2.379304	Y
6	ICIS 480-608018/13	25.0	61.105186	25.0	375982.0	2.444207	Y
7	IC 480-608018/14	50.0	127.807434	25.0	389092.0	2.556149	Y
8	IC 480-608018/15	100.0	268.359575	25.0	376113.0	2.683596	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

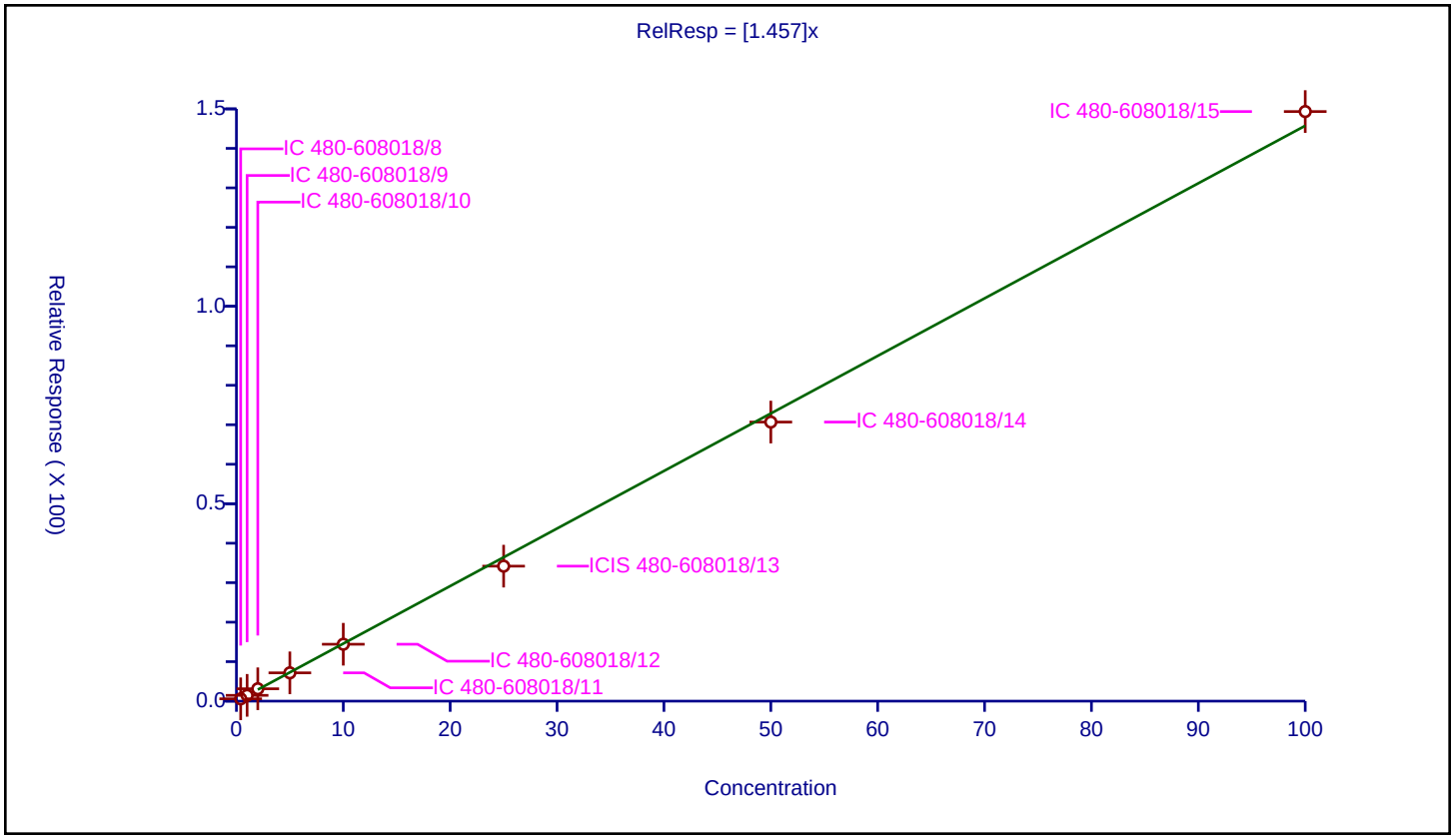
Curve Coefficients

Intercept:	0
Slope:	1.457

Error Coefficients

Standard Error:	969000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.590413	25.0	321724.0	1.476032	Y
2	IC 480-608018/9	1.0	1.466816	25.0	336784.0	1.466816	Y
3	IC 480-608018/10	2.0	3.131306	25.0	350844.0	1.565653	Y
4	IC 480-608018/11	5.0	7.169914	25.0	332769.0	1.433983	Y
5	IC 480-608018/12	10.0	14.412018	25.0	340648.0	1.441202	Y
6	ICIS 480-608018/13	25.0	34.192594	25.0	375982.0	1.367704	Y
7	IC 480-608018/14	50.0	70.685532	25.0	389092.0	1.413711	Y
8	IC 480-608018/15	100.0	149.326466	25.0	376113.0	1.493265	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

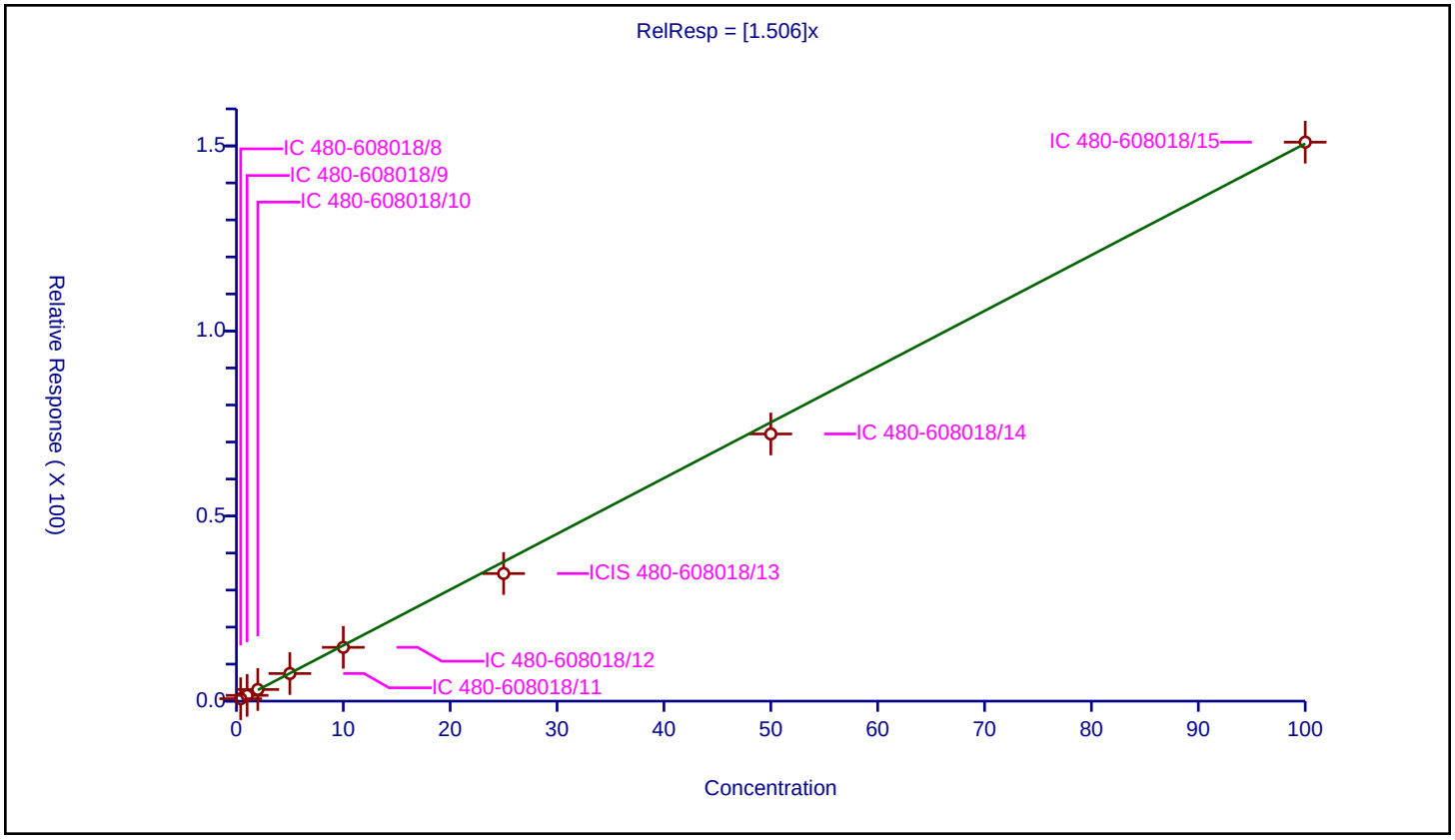
Curve Coefficients

Intercept:	0
Slope:	1.506

Error Coefficients

Standard Error:	981000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.655919	25.0	321724.0	1.639798	Y
2	IC 480-608018/9	1.0	1.559382	25.0	336784.0	1.559382	Y
3	IC 480-608018/10	2.0	3.14627	25.0	350844.0	1.573135	Y
4	IC 480-608018/11	5.0	7.458102	25.0	332769.0	1.49162	Y
5	IC 480-608018/12	10.0	14.528634	25.0	340648.0	1.452863	Y
6	ICIS 480-608018/13	25.0	34.46661	25.0	375982.0	1.378664	Y
7	IC 480-608018/14	50.0	72.182286	25.0	389092.0	1.443646	Y
8	IC 480-608018/15	100.0	151.007676	25.0	376113.0	1.510077	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

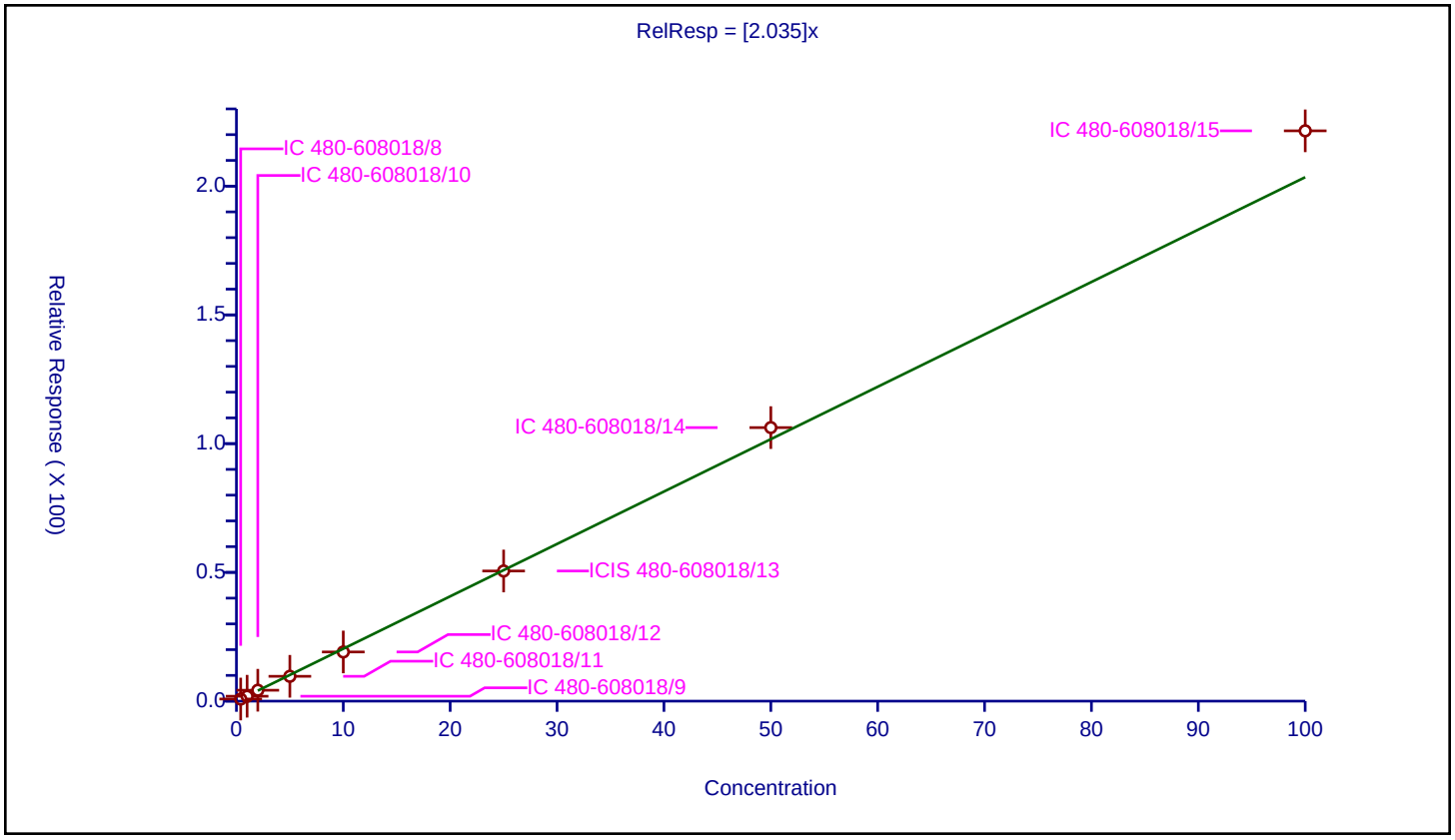
Curve Coefficients

Intercept:	0
Slope:	2.035

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.819957	25.0	321724.0	2.049894	Y
2	IC 480-608018/9	1.0	1.911388	25.0	336784.0	1.911388	Y
3	IC 480-608018/10	2.0	4.234076	25.0	350844.0	2.117038	Y
4	IC 480-608018/11	5.0	9.644153	25.0	332769.0	1.928831	Y
5	IC 480-608018/12	10.0	19.093903	25.0	340648.0	1.90939	Y
6	ICIS 480-608018/13	25.0	50.538124	25.0	375982.0	2.021525	Y
7	IC 480-608018/14	50.0	106.229118	25.0	389092.0	2.124582	Y
8	IC 480-608018/15	100.0	221.481576	25.0	376113.0	2.214816	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

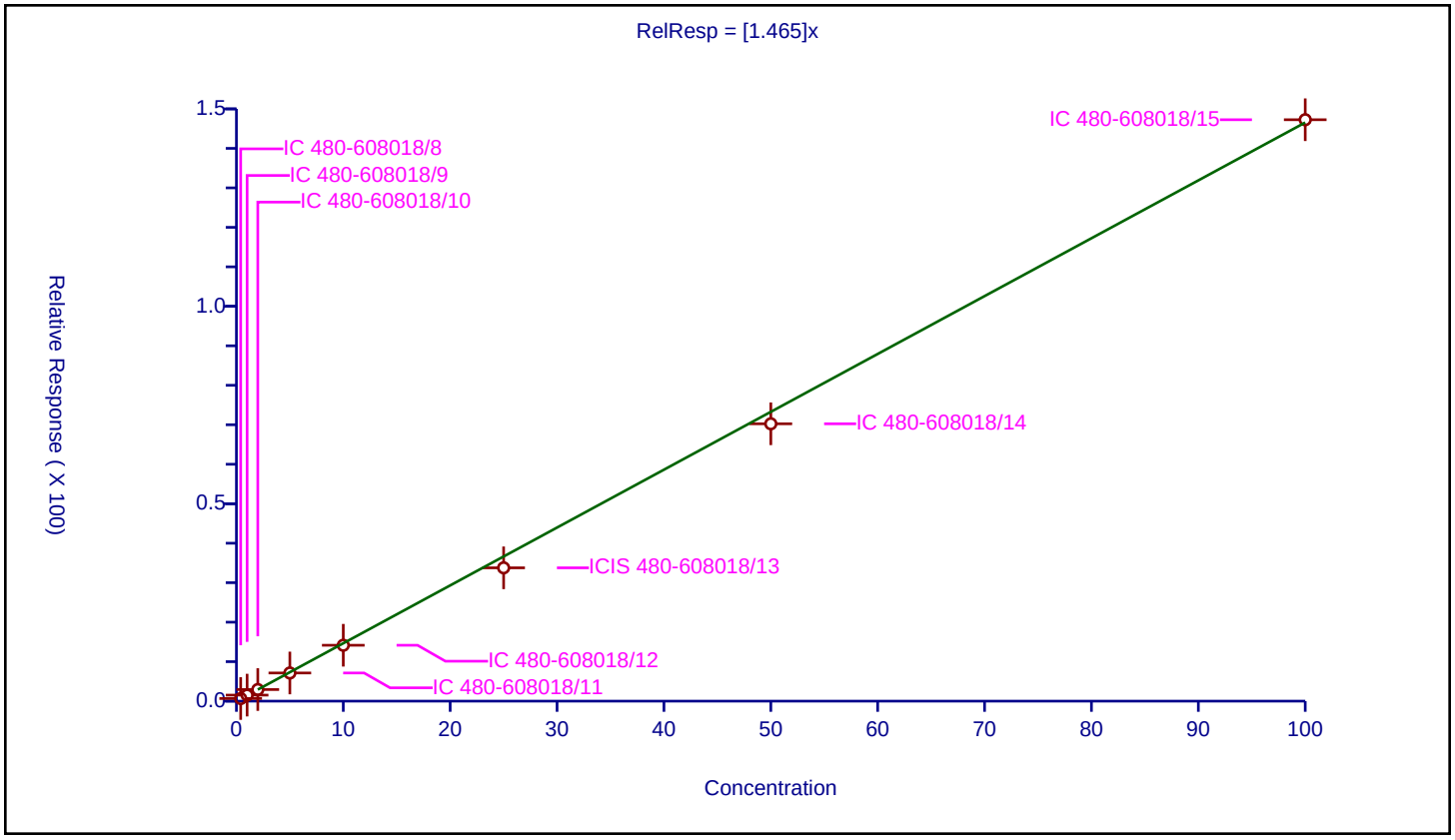
Curve Coefficients

Intercept:	0
Slope:	1.465

Error Coefficients

Standard Error:	957000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.663146	25.0	321724.0	1.657865	Y
2	IC 480-608018/9	1.0	1.527611	25.0	336784.0	1.527611	Y
3	IC 480-608018/10	2.0	2.935706	25.0	350844.0	1.467853	Y
4	IC 480-608018/11	5.0	7.132651	25.0	332769.0	1.42653	Y
5	IC 480-608018/12	10.0	14.155154	25.0	340648.0	1.415515	Y
6	ICIS 480-608018/13	25.0	33.767375	25.0	375982.0	1.350695	Y
7	IC 480-608018/14	50.0	70.247525	25.0	389092.0	1.404951	Y
8	IC 480-608018/15	100.0	147.25734	25.0	376113.0	1.472573	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

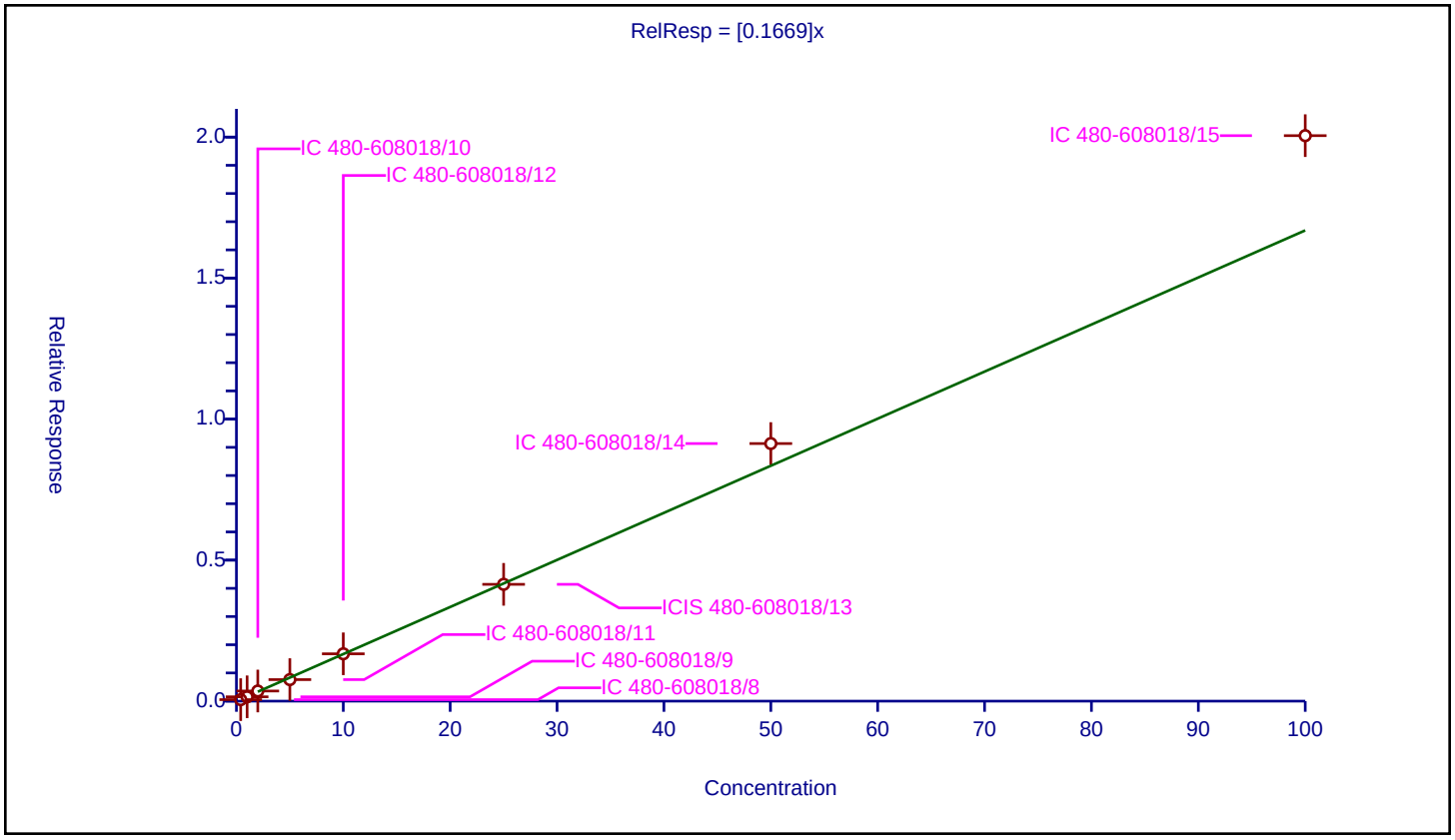
Curve Coefficients

Intercept:	0
Slope:	0.1669

Error Coefficients

Standard Error:	129000
Relative Standard Error:	12.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.053151	25.0	321724.0	0.132878	Y
2	IC 480-608018/9	1.0	0.153437	25.0	336784.0	0.153437	Y
3	IC 480-608018/10	2.0	0.358991	25.0	350844.0	0.179496	Y
4	IC 480-608018/11	5.0	0.763893	25.0	332769.0	0.152779	Y
5	IC 480-608018/12	10.0	1.678933	25.0	340648.0	0.167893	Y
6	ICIS 480-608018/13	25.0	4.141488	25.0	375982.0	0.16566	Y
7	IC 480-608018/14	50.0	9.133444	25.0	389092.0	0.182669	Y
8	IC 480-608018/15	100.0	20.050756	25.0	376113.0	0.200508	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

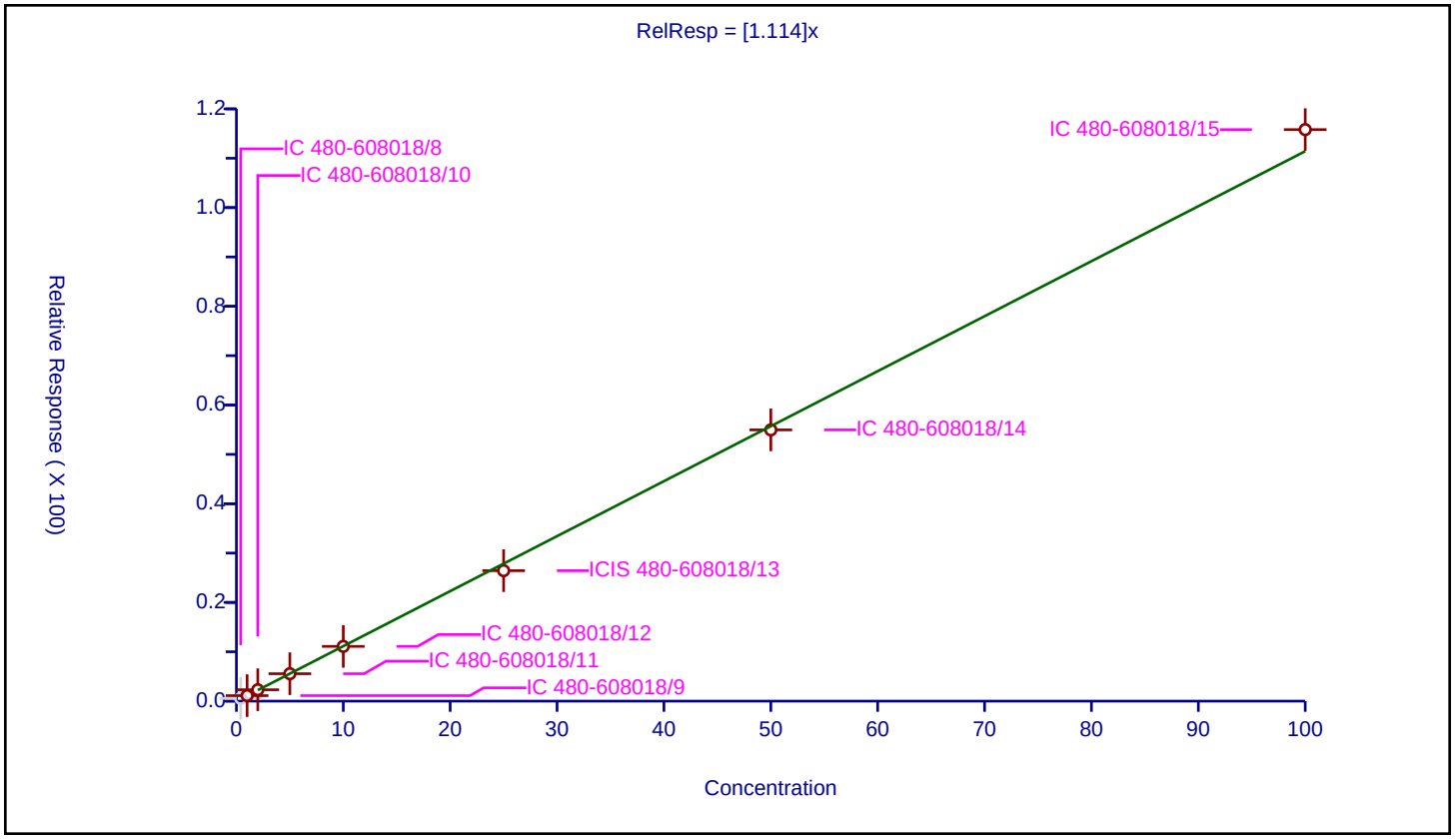
Curve Coefficients

Intercept:	0
Slope:	1.114

Error Coefficients

Standard Error:	812000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.556688	25.0	321724.0	1.391721	N
2	IC 480-608018/9	1.0	1.112211	25.0	336784.0	1.112211	Y
3	IC 480-608018/10	2.0	2.305013	25.0	350844.0	1.152507	Y
4	IC 480-608018/11	5.0	5.556031	25.0	332769.0	1.111206	Y
5	IC 480-608018/12	10.0	11.09026	25.0	340648.0	1.109026	Y
6	ICIS 480-608018/13	25.0	26.433446	25.0	375982.0	1.057338	Y
7	IC 480-608018/14	50.0	54.960459	25.0	389092.0	1.099209	Y
8	IC 480-608018/15	100.0	115.799706	25.0	376113.0	1.157997	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

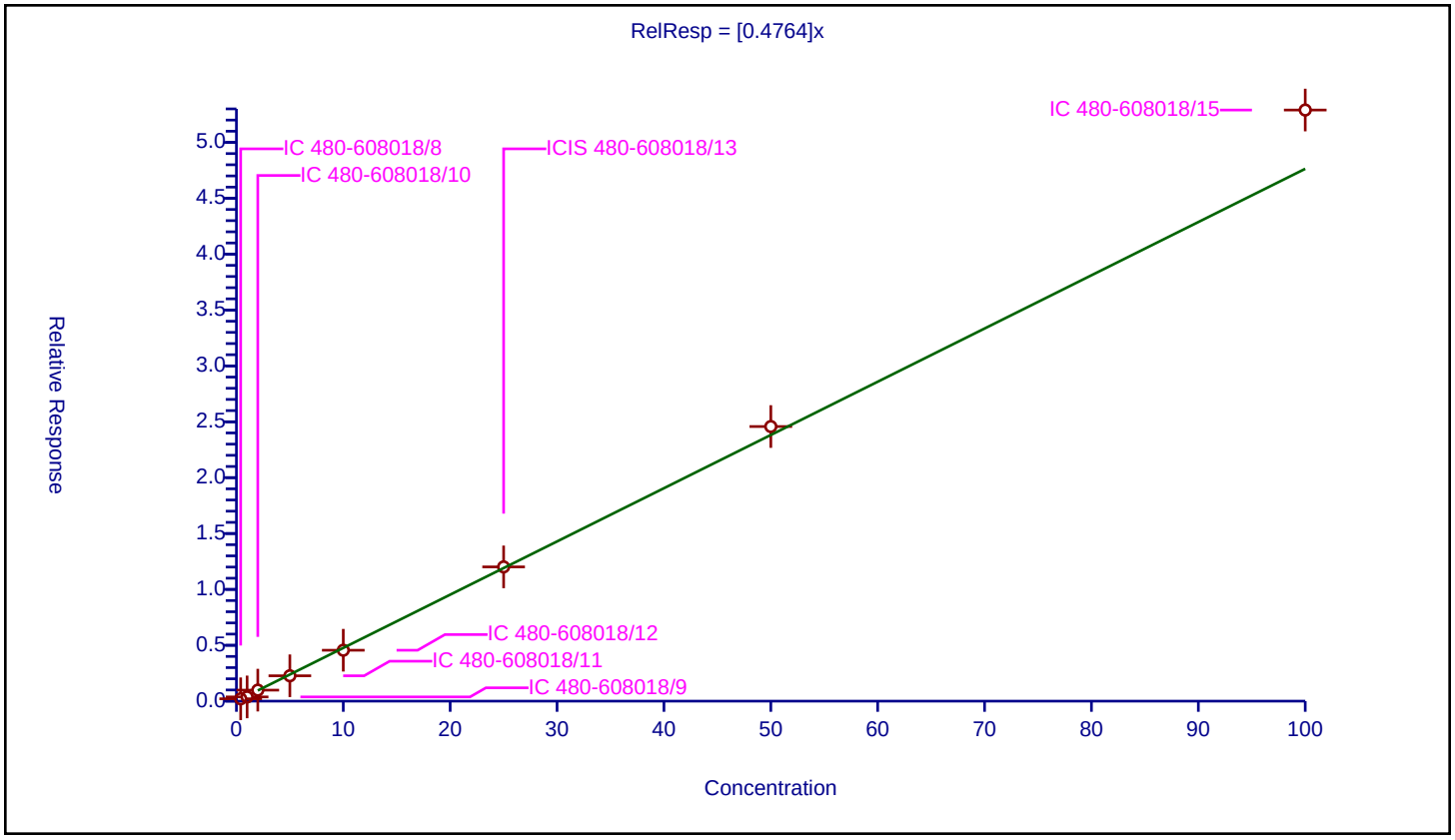
Curve Coefficients

Intercept:	0
Slope:	0.4764

Error Coefficients

Standard Error:	342000
Relative Standard Error:	10.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.211594	25.0	321724.0	0.528986	Y
2	IC 480-608018/9	1.0	0.378136	25.0	336784.0	0.378136	Y
3	IC 480-608018/10	2.0	0.98655	25.0	350844.0	0.493275	Y
4	IC 480-608018/11	5.0	2.269217	25.0	332769.0	0.453843	Y
5	IC 480-608018/12	10.0	4.556977	25.0	340648.0	0.455698	Y
6	ICIS 480-608018/13	25.0	12.013939	25.0	375982.0	0.480558	Y
7	IC 480-608018/14	50.0	24.574201	25.0	389092.0	0.491484	Y
8	IC 480-608018/15	100.0	52.898398	25.0	376113.0	0.528984	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

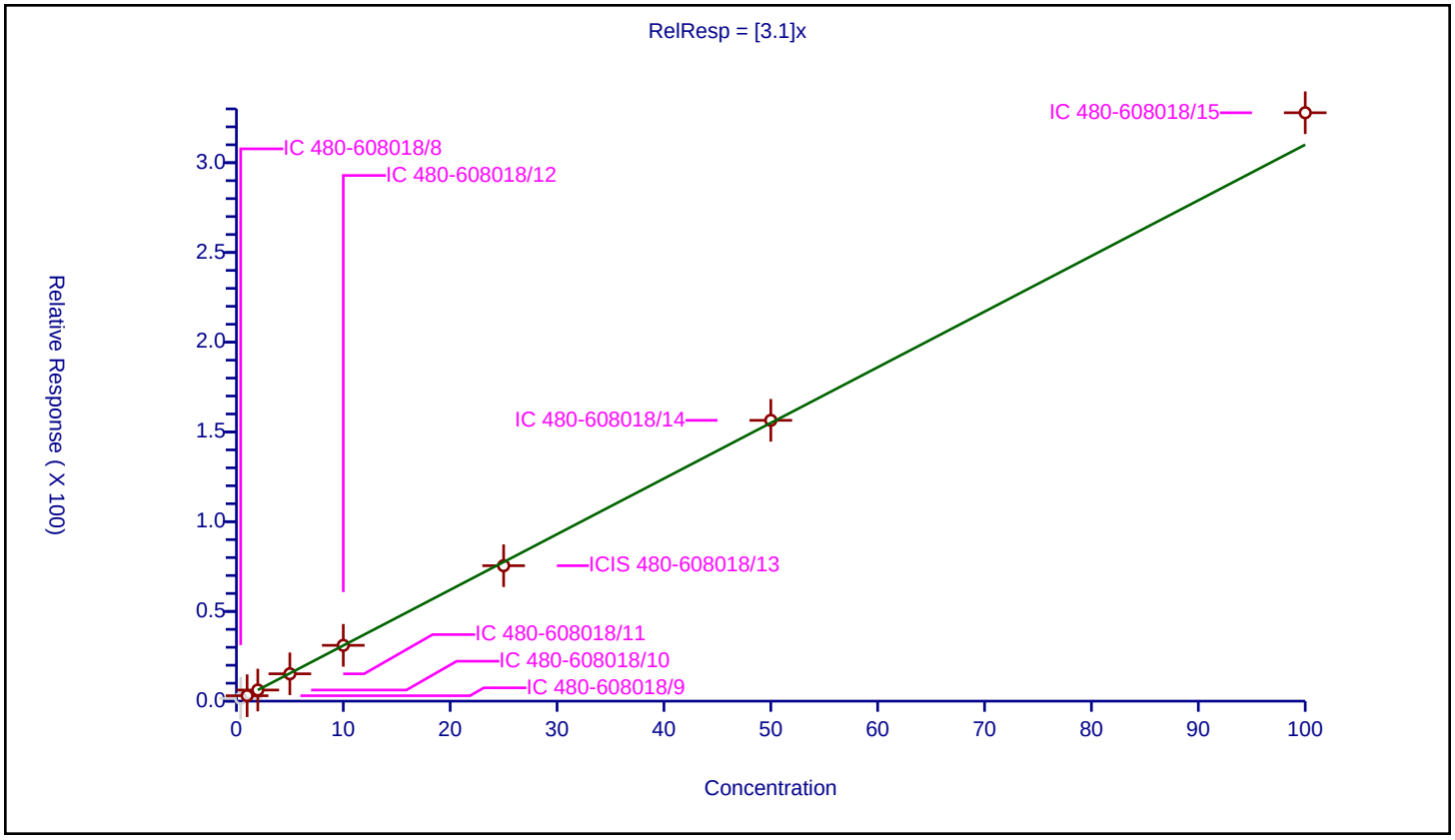
Curve Coefficients

Intercept:	0
Slope:	3.1

Error Coefficients

Standard Error:	2300000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.572155	25.0	321724.0	3.930388	N
2	IC 480-608018/9	1.0	3.019517	25.0	336784.0	3.019517	Y
3	IC 480-608018/10	2.0	6.200833	25.0	350844.0	3.100416	Y
4	IC 480-608018/11	5.0	15.233465	25.0	332769.0	3.046693	Y
5	IC 480-608018/12	10.0	31.100359	25.0	340648.0	3.110036	Y
6	ICIS 480-608018/13	25.0	75.470235	25.0	375982.0	3.018809	Y
7	IC 480-608018/14	50.0	156.469999	25.0	389092.0	3.1294	Y
8	IC 480-608018/15	100.0	327.84263	25.0	376113.0	3.278426	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

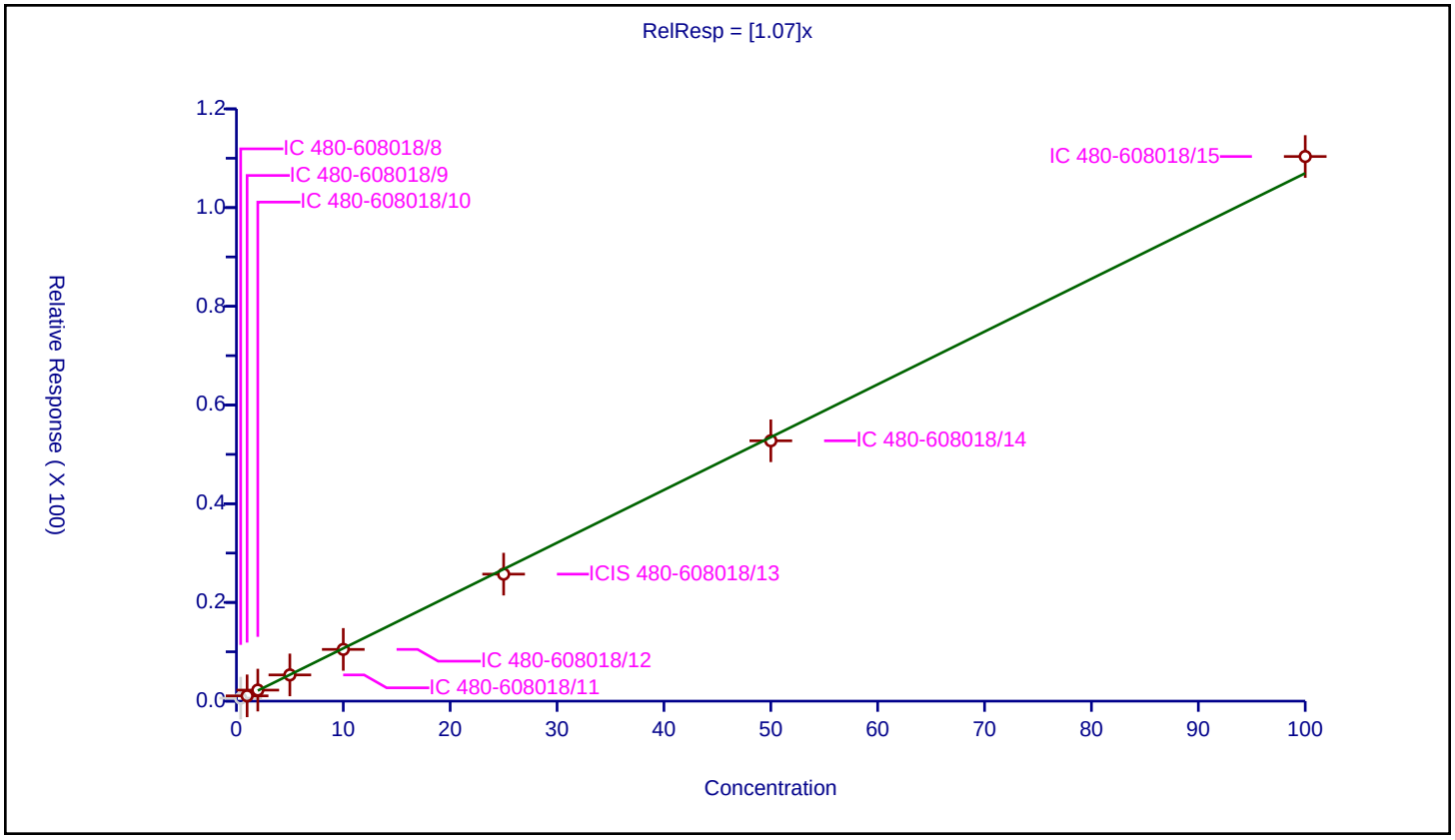
Curve Coefficients

Intercept:	0
Slope:	1.07

Error Coefficients

Standard Error:	775000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.605876	25.0	321724.0	1.514691	N
2	IC 480-608018/9	1.0	1.071236	25.0	336784.0	1.071236	Y
3	IC 480-608018/10	2.0	2.235253	25.0	350844.0	1.117626	Y
4	IC 480-608018/11	5.0	5.311192	25.0	332769.0	1.062238	Y
5	IC 480-608018/12	10.0	10.482155	25.0	340648.0	1.048215	Y
6	ICIS 480-608018/13	25.0	25.733479	25.0	375982.0	1.029339	Y
7	IC 480-608018/14	50.0	52.754233	25.0	389092.0	1.055085	Y
8	IC 480-608018/15	100.0	110.349017	25.0	376113.0	1.10349	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab Sample ID: ICV 480-608018/29 Calibration Date: 12/08/2021 23:57

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16105.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		1.457	0.1000	25.4	25.0	1.6	50.0
Chloromethane	Ave	1.416	1.509	0.1000	26.6	25.0	6.6	30.0
Vinyl chloride	Ave	1.528	1.577	0.1000	25.8	25.0	3.2	30.0
Butadiene	Ave	1.359	1.291		23.8	25.0	-5.0	30.0
Bromomethane	Ave	1.559	1.659	0.1000	26.6	25.0	6.4	50.0
Chloroethane	Ave	1.224	1.223	0.1000	25.0	25.0	-0.0	50.0
Dichlorofluoromethane	Ave	2.500	2.421		24.2	25.0	-3.2	30.0
Trichlorofluoromethane	Lin1		2.309	0.1000	22.5	25.0	-10.2	30.0
Ethyl ether	Ave	1.213	1.158		23.9	25.0	-4.5	30.0
Acrolein	Ave	0.2348	0.2293		122	125	-2.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.144	1.269	0.1000	27.7	25.0	10.9	30.0
1,1-Dichloroethene	Ave	1.203	1.242	0.1000	25.8	25.0	3.2	30.0
Acetone	Ave	0.5449	0.5559	0.1000	128	125	2.0	50.0
Iodomethane	Ave	2.850	2.800		24.6	25.0	-1.8	30.0
Carbon disulfide	Ave	3.966	3.991	0.1000	25.2	25.0	0.6	30.0
Allyl chloride	Ave	1.767	1.658		23.5	25.0	-6.2	30.0
Methyl acetate	Ave	1.366	1.358	0.1000	49.7	50.0	-0.5	50.0
Methylene Chloride	Lin1		1.571	0.1000	23.7	25.0	-5.1	30.0
2-Methyl-2-propanol	Ave	0.2229	0.2300		258	250	3.2	50.0
Methyl tert-butyl ether	Ave	4.037	4.216	0.1000	26.1	25.0	4.4	30.0
trans-1,2-Dichloroethene	Ave	1.573	1.571	0.1000	25.0	25.0	-0.1	30.0
Acrylonitrile	Ave	0.7170	0.7194		251	250	0.3	30.0
Hexane	Ave	1.420	1.482		26.1	25.0	4.3	30.0
1,1-Dichloroethane	Ave	2.356	2.336	0.2000	24.8	25.0	-0.9	30.0
Vinyl acetate	Ave	2.760	2.859		51.8	50.0	3.6	30.0
2,2-Dichloropropane	Ave	1.573	1.460		23.2	25.0	-7.2	30.0
cis-1,2-Dichloroethene	Ave	1.722	1.730	0.1000	25.1	25.0	0.5	30.0
2-Butanone (MEK)	Ave	0.8547	0.9093	0.1000	133	125	6.4	30.0
Chlorobromomethane	Ave	1.000	1.040		26.0	25.0	4.0	30.0
Tetrahydrofuran	Ave	0.5683	0.6044		53.2	50.0	6.3	30.0
Chloroform	Ave	2.837	2.748	0.2000	24.2	25.0	-3.1	30.0
1,1,1-Trichloroethane	Ave	2.244	2.363	0.1000	26.3	25.0	5.3	30.0
Cyclohexane	Ave	1.612	1.802	0.1000	27.9	25.0	11.8	30.0
1,1-Dichloropropene	Ave	1.723	1.827		26.5	25.0	6.0	30.0
Carbon tetrachloride	Ave	1.984	2.118	0.1000	26.7	25.0	6.8	30.0
Isobutyl alcohol	Ave	0.0881	0.0938		665	625	6.4	50.0
Benzene	Ave	5.426	5.432	0.5000	25.0	25.0	0.1	30.0
1,2-Dichloroethane	Ave	2.052	2.053	0.1000	25.0	25.0	0.0	30.0
n-Heptane	Ave	1.371	1.360		24.8	25.0	-0.8	30.0
Trichloroethene	Ave	1.529	1.564	0.2000	25.6	25.0	2.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab Sample ID: ICV 480-608018/29 Calibration Date: 12/08/2021 23:57

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16105.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.022	2.217	0.1000	27.4	25.0	9.6	30.0
1,2-Dichloropropane	Ave	1.201	1.275	0.1000	26.5	25.0	6.1	30.0
1,4-Dioxane	Ave	0.0036	0.0033		461	500	-7.8	50.0
Dibromomethane	Ave	1.093	1.130	0.1000	25.9	25.0	3.4	30.0
Bromodichloromethane	Ave	1.903	1.996	0.2000	26.2	25.0	4.8	30.0
2-Chloroethyl vinyl ether	Ave	0.8953	0.9949		27.8	25.0	11.1	30.0
cis-1,3-Dichloropropene	Ave	2.092	2.221	0.2000	26.5	25.0	6.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3628	0.3795	0.1000	131	125	4.6	30.0
Toluene	Ave	0.7803	0.7562	0.4000	24.2	25.0	-3.1	30.0
Ethyl methacrylate	Ave	0.3630	0.4082		28.1	25.0	12.4	30.0
trans-1,3-Dichloropropene	Ave	0.4247	0.4494	0.1000	26.5	25.0	5.8	30.0
1,1,2-Trichloroethane	Ave	0.2391	0.2410	0.1000	25.2	25.0	0.8	30.0
Tetrachloroethene	Ave	0.3890	0.3969	0.2000	25.5	25.0	2.0	30.0
1,3-Dichloropropane	Ave	0.4885	0.4807		24.6	25.0	-1.6	30.0
2-Hexanone	Ave	0.2479	0.2653	0.1000	134	125	7.0	30.0
Dibromochloromethane	Ave	0.3480	0.3741	0.1000	26.9	25.0	7.5	30.0
1,2-Dibromoethane	Ave	0.3503	0.3572		25.5	25.0	2.0	30.0
Chlorobenzene	Ave	0.9459	0.9310	0.5000	24.6	25.0	-1.6	30.0
Ethylbenzene	Ave	1.429	1.411	0.1000	24.7	25.0	-1.3	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3526	0.3732		26.5	25.0	5.8	30.0
m,p-Xylene	Ave	0.5871	0.5799	0.1000	24.7	25.0	-1.2	30.0
o-Xylene	Ave	0.5890	0.5961	0.3000	25.3	25.0	1.2	30.0
Styrene	Ave	0.9511	0.9906	0.3000	26.0	25.0	4.2	30.0
Bromoform	Ave	0.2646	0.2928	0.1000	27.7	25.0	10.7	50.0
Isopropylbenzene	Ave	2.492	2.480	0.1000	24.9	25.0	-0.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7832	0.7670	0.3000	24.5	25.0	-2.1	30.0
Bromobenzene	Ave	0.7658	0.7523		24.6	25.0	-1.8	30.0
N-Propylbenzene	Ave	2.783	2.742		24.6	25.0	-1.5	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1987	0.2005		25.2	25.0	0.9	50.0
1,2,3-Trichloropropane	Ave	0.2896	0.2917		25.2	25.0	0.7	30.0
2-Chlorotoluene	Ave	0.6581	0.6535		24.8	25.0	-0.7	30.0
1,3,5-Trimethylbenzene	Ave	2.150	2.127		24.7	25.0	-1.1	30.0
4-Chlorotoluene	Ave	1.747	1.688		24.1	25.0	-3.4	30.0
tert-Butylbenzene	Ave	0.5086	0.5210		25.6	25.0	2.5	30.0
1,2,4-Trimethylbenzene	Ave	2.203	2.187		24.8	25.0	-0.7	30.0
sec-Butylbenzene	Ave	2.622	2.665		25.4	25.0	1.7	30.0
4-Isopropyltoluene	Ave	2.431	2.453		25.2	25.0	0.9	30.0
1,3-Dichlorobenzene	Ave	1.457	1.412	0.6000	24.2	25.0	-3.1	30.0
1,4-Dichlorobenzene	Ave	1.506	1.428	0.5000	23.7	25.0	-5.2	30.0
n-Butylbenzene	Ave	2.035	1.991		24.5	25.0	-2.2	30.0
1,2-Dichlorobenzene	Ave	1.465	1.406	0.4000	24.0	25.0	-4.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab Sample ID: ICV 480-608018/29 Calibration Date: 12/08/2021 23:57

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16105.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1669	0.1791	0.0500	26.8	25.0	7.3	50.0
1,2,4-Trichlorobenzene	Ave	1.114	1.085	0.2000	24.4	25.0	-2.6	30.0
Hexachlorobutadiene	Ave	0.4764	0.4607		24.2	25.0	-3.3	30.0
Naphthalene	Ave	3.100	3.148		25.4	25.0	1.5	30.0
1,2,3-Trichlorobenzene	Ave	1.070	1.049		24.5	25.0	-1.9	30.0
Dibromofluoromethane (Surr)	Ave	1.725	1.773		25.7	25.0	2.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.746	1.745		25.0	25.0	-0.0	30.0
Toluene-d8 (Surr)	Ave	1.207	1.204		24.9	25.0	-0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4611	0.4699		25.5	25.0	1.9	30.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16105.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Dec-2021 23:57:03 ALS Bottle#: 0 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 480-0102927-029
Operator ID: wd Instrument ID: HP5977L
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 16:00:18 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: HillL Date: 09-Dec-2021 15:52:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.351	6.350	0.001	99	125904	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	606530	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	92	372576	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	94	223284	25.0	25.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.097	6.096	0.001	97	219754	25.0	25.0	
$ 6 Toluene-d8 (Surr)	98	7.807	7.810	-0.003	92	730189	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	92	284980	25.0	25.5	
10 Dichlorodifluoromethane	85	2.084	2.090	-0.006	99	183420	25.0	25.4	
13 Chloromethane	50	2.344	2.347	-0.003	99	189973	25.0	26.6	
14 Vinyl chloride	62	2.473	2.476	-0.003	98	198499	25.0	25.8	
15 Butadiene	54	2.492	2.492	0.000	92	162575	25.0	23.8	
18 Bromomethane	94	2.875	2.878	-0.003	93	208842	25.0	26.6	
19 Chloroethane	64	2.955	2.955	0.000	100	154016	25.0	25.0	
21 Trichlorofluoromethane	101	3.187	3.183	0.004	71	290720	25.0	22.5	
20 Dichlorofluoromethane	67	3.187	3.187	0.000	96	304807	25.0	24.2	
26 Ethyl ether	59	3.476	3.479	-0.003	88	145835	25.0	23.9	
28 Acrolein	56	3.679	3.678	0.001	99	144364	125.0	122.1	
29 112TCTFE	101	3.695	3.704	-0.009	89	159809	25.0	27.7	
30 1,1-Dichloroethene	96	3.727	3.730	-0.003	96	156343	25.0	25.8	
31 Acetone	43	3.823	3.826	-0.003	100	349953	125.0	127.5	
33 Iodomethane	142	3.913	3.913	0.000	100	352579	25.0	24.6	
35 Carbon disulfide	76	3.965	3.965	0.000	99	502481	25.0	25.2	
37 3-Chloro-1-propene	41	4.084	4.080	0.004	87	208749	25.0	23.5	
38 Methyl acetate	43	4.097	4.100	-0.003	96	342028	50.0	49.7	
39 Methylene Chloride	84	4.219	4.222	-0.003	86	197825	25.0	23.7	
40 2-Methyl-2-propanol	59	4.315	4.318	-0.003	97	289585	250.0	258.0	M
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	94	530788	25.0	26.1	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	93	197828	25.0	25.0	
44 Acrylonitrile	53	4.476	4.479	-0.003	98	905788	250.0	250.9	
47 Hexane	57	4.598	4.598	0.000	91	186574	25.0	26.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	96	294146	25.0	24.8	
49 Vinyl acetate	43	4.836	4.836	0.000	97	719853	50.0	51.8	
56 2,2-Dichloropropane	77	5.328	5.331	-0.003	90	183836	25.0	23.2	
57 2-Butanone (MEK)	43	5.357	5.357	0.000	99	572443	125.0	133.0	
58 cis-1,2-Dichloroethene	96	5.354	5.357	-0.003	81	217788	25.0	25.1	
60 Chlorobromomethane	128	5.585	5.585	0.000	82	130923	25.0	26.0	
61 Tetrahydrofuran	42	5.598	5.601	-0.003	83	152193	50.0	53.2	
62 Chloroform	83	5.630	5.630	0.000	94	346000	25.0	24.2	
64 1,1,1-Trichloroethane	97	5.769	5.772	-0.003	97	297518	25.0	26.3	
65 Cyclohexane	56	5.788	5.791	-0.003	84	226934	25.0	27.9	
66 Carbon tetrachloride	117	5.907	5.907	0.000	95	266631	25.0	26.7	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	95	229985	25.0	26.5	
69 Isobutyl alcohol	43	6.010	6.010	0.000	92	295165	625.0	665.2	
70 Benzene	78	6.113	6.113	0.001	97	683898	25.0	25.0	
72 1,2-Dichloroethane	62	6.164	6.167	-0.003	98	258458	25.0	25.0	
73 n-Heptane	43	6.209	6.209	0.000	87	171260	25.0	24.8	
75 Trichloroethene	95	6.675	6.678	-0.003	94	196976	25.0	25.6	
76 Methylcyclohexane	83	6.807	6.807	0.000	85	279074	25.0	27.4	
77 1,2-Dichloropropane	63	6.920	6.920	0.000	94	160471	25.0	26.5	
81 1,4-Dioxane	88	7.032	7.029	0.003	89	40119	500.0	461.0	
82 Dibromomethane	93	7.061	7.064	-0.003	90	142309	25.0	25.9	
83 Dichlorobromomethane	83	7.180	7.180	0.000	99	251278	25.0	26.2	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	94	125268	25.0	27.8	
85 cis-1,3-Dichloropropene	75	7.576	7.579	-0.003	95	279591	25.0	26.5	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.685	0.000	97	1150994	125.0	130.8	
88 Toluene	92	7.875	7.875	0.000	98	458631	25.0	24.2	
90 Ethyl methacrylate	69	8.109	8.109	0.000	87	247560	25.0	28.1	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	95	272580	25.0	26.5	
93 1,1,2-Trichloroethane	83	8.322	8.321	0.001	90	146175	25.0	25.2	
94 Tetrachloroethene	166	8.412	8.411	0.001	97	240742	25.0	25.5	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	97	291554	25.0	24.6	
96 2-Hexanone	43	8.505	8.505	0.000	94	804501	125.0	133.8	
98 Chlorodibromomethane	129	8.743	8.743	0.000	88	226893	25.0	26.9	
101 Ethylene Dibromide	107	8.875	8.875	0.001	98	216645	25.0	25.5	
103 Chlorobenzene	112	9.331	9.331	0.000	98	564672	25.0	24.6	
104 Ethylbenzene	91	9.392	9.392	0.000	97	855674	25.0	24.7	
105 1,1,1,2-Tetrachloroethane	131	9.412	9.411	0.001	95	226341	25.0	26.5	
106 m-Xylene & p-Xylene	106	9.505	9.508	-0.003	98	351723	25.0	24.7	
107 o-Xylene	106	9.949	9.945	0.004	95	361579	25.0	25.3	
109 Styrene	104	9.971	9.971	0.000	95	600848	25.0	26.0	
110 Bromoform	173	10.251	10.251	0.000	97	177588	25.0	27.7	
111 Isopropylbenzene	105	10.302	10.302	0.000	95	923807	25.0	24.9	
112 1,1,2,2-Tetrachloroethane	83	10.682	10.682	0.000	97	285762	25.0	24.5	
113 Bromobenzene	156	10.688	10.688	0.000	91	280279	25.0	24.6	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	1021439	25.0	24.6	
115 trans-1,4-Dichloro-2-butene	53	10.723	10.727	-0.004	76	74713	25.0	25.2	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	84	108681	25.0	25.2	
117 2-Chlorotoluene	126	10.846	10.846	0.000	98	243493	25.0	24.8	
118 1,3,5-Trimethylbenzene	105	10.875	10.874	0.001	95	792427	25.0	24.7	
119 4-Chlorotoluene	91	10.949	10.948	0.001	96	628811	25.0	24.1	
120 tert-Butylbenzene	134	11.190	11.190	0.000	90	194130	25.0	25.6	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	814925	25.0	24.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.389	11.389	0.000	93	992908	25.0	25.4	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	96	913777	25.0	25.2	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	98	525896	25.0	24.2	
126 1,4-Dichlorobenzene	146	11.633	11.636	-0.003	96	532059	25.0	23.7	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	741698	25.0	24.5	
128 1,2-Dichlorobenzene	146	11.977	11.977	0.000	99	523866	25.0	24.0	
129 1,2-Dibromo-3-Chloropropane	75	12.656	12.656	0.000	95	66743	25.0	26.8	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	94	404338	25.0	24.4	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	98	171653	25.0	24.2	
132 Naphthalene	128	13.556	13.559	-0.003	96	1172838	25.0	25.4	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	390797	25.0	24.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SS 8260 CORP_00097	Amount Added:	12.50	Units: uL	
SS GAS CORP_00435	Amount Added:	12.50	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 16:06:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16105.D

Injection Date: 08-Dec-2021 23:57:03 Instrument ID: HP5977L

Lims ID: ICV

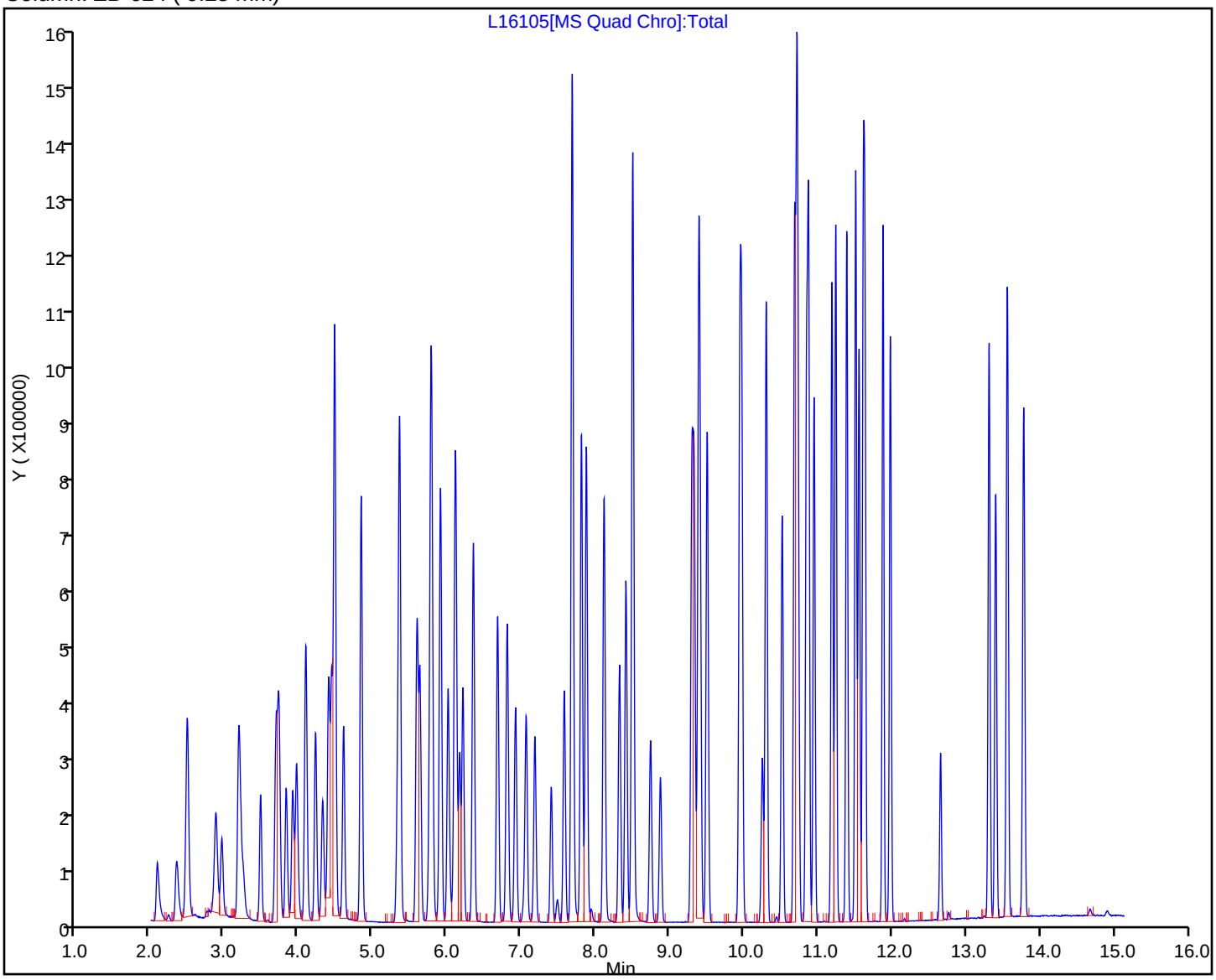
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 29

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

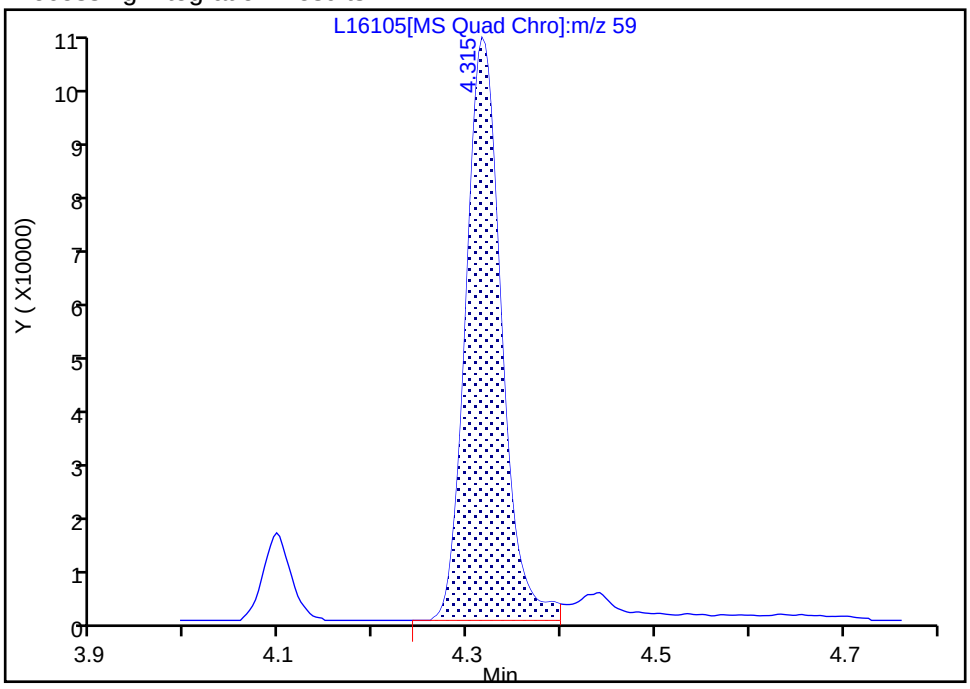
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16105.D
Injection Date: 08-Dec-2021 23:57:03 Instrument ID: HP5977L
Lims ID: ICV
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

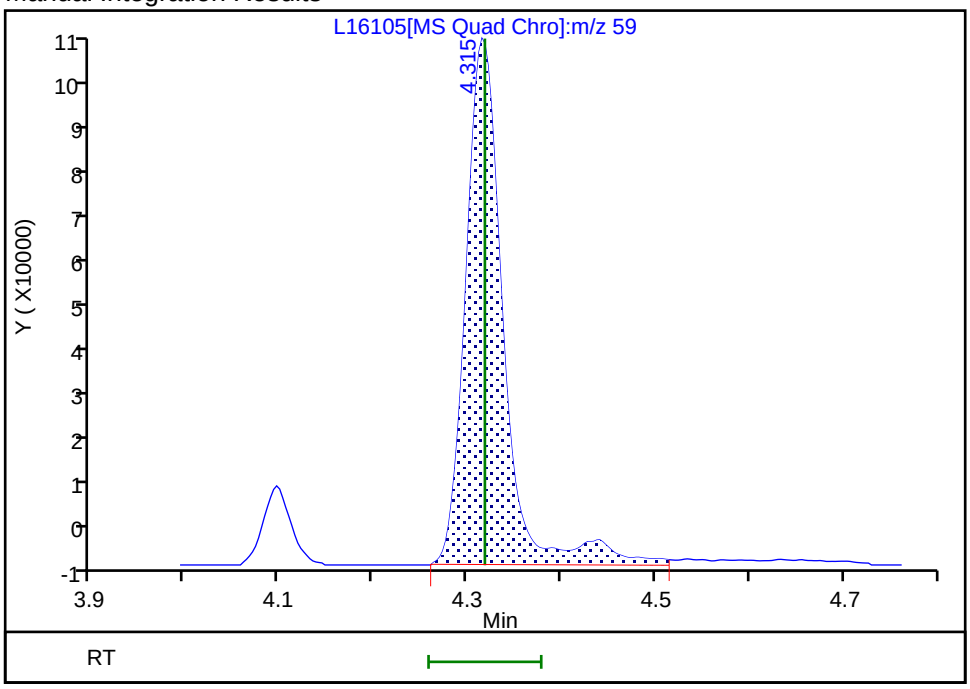
Processing Integration Results

RT: 4.32
Area: 272455
Amount: 242.6987
Amount Units: ug/L



Manual Integration Results

RT: 4.32
Area: 289585
Amount: 257.9578
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 15:51:54
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab Sample ID: ICV 480-608018/30 Calibration Date: 12/09/2021 00:19

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16106.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	1.725	1.743		25.3	25.0	1.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.746	1.780		25.5	25.0	1.9	30.0
Toluene-d8 (Surr)	Ave	1.207	1.235		25.6	25.0	2.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4611	0.4663		25.3	25.0	1.1	30.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16106.D
Lims ID: ICV ADD
Client ID:
Sample Type: ICV
Inject. Date: 09-Dec-2021 00:19:19 ALS Bottle#: 0 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV ADD
Misc. Info.: 480-0102927-030
Operator ID: wd Instrument ID: HP5977L
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 16:00:18 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: HillL Date: 09-Dec-2021 15:57:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	127104	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	582333	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	94	339534	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.785	5.785	0.000	94	221545	25.0	25.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	226201	25.0	25.5	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	92	719331	25.0	25.6	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	92	271559	25.0	25.3	
9 Chlorodifluoromethane	51	2.119	2.119	0.000	96	169574	25.0	28.7	
11 Ethanol	45		3.469				ND	ND	
12 Propene oxide	58	3.588	3.588	0.000	0	287761	NC	NC	a
16 Isopropyl alcohol	45	3.961	3.961	0.000	99	152418	250.0	285.9	
17 Acetonitrile	40	4.132	4.132	0.000	99	132817	250.0	250.8	
22 Isopropyl ether	45	4.791	4.791	0.000	92	456878	25.0	27.0	
23 Halothane	117	4.807	4.804	0.003	88	152855	25.0	28.4	
25 1,1-Dimethoxyethane	75	4.875	4.878	-0.003	92	221114	125.0	137.3	
24 2-Chloro-1,3-butadiene	53	4.891	4.891	0.000	91	221668	25.0	27.2	
27 Tert-butyl ethyl ether	59	5.109	5.109	0.000	95	483662	25.0	28.2	
32 Ethyl acetate	43	5.354	5.354	0.000	99	423837	50.0	56.1	
34 Propionitrile	54	5.466	5.469	-0.003	99	367620	250.0	276.5	
36 Methacrylonitrile	41	5.572	5.572	0.000	90	1317307	250.0	264.8	
43 Isooctane	57	6.064	6.064	0.000	97	522398	25.0	29.2	
45 t-Amyl alcohol	59	6.084	6.083	0.001	93	245515	250.0	277.1	
46 Tert-amyl methyl ether	73	6.129	6.128	0.001	97	649429	25.0	27.7	
48 1,4-Difluorobenzene	114	6.424	6.427	-0.003	92	606267	25.0	27.2	
51 2,4,4-Trimethyl-1-pentene	55	6.540	6.540	0.000	96	112765	NC	NC	
52 n-Butanol	56	6.598	6.598	0.000	84	183311	625.0	717.0	
53 Ethyl acrylate	55	6.730	6.730	0.000	98	527533	25.0	29.7	
54 2,4,4-Trimethyl-2-pentene	97	6.743	6.743	0.000	91	424638	NC	NC	a
55 Methyl methacrylate	41	6.939	6.939	0.000	86	328628	50.0	55.3	
59 2-Nitropropane	43	7.415	7.415	0.000	98	106275	50.0	56.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
63 Epichlorohydrin	57	7.527	7.527	0.000	99	256251	250.0	283.0	
74 n-Butyl acetate	43	8.576	8.575	0.001	98	275492	25.0	27.9	
78 1-Chlorohexane	55	9.219	9.215	0.004	91	123339	25.0	27.5	
79 3-Chlorobenzotrifluoride	180	9.222	9.218	0.004	92	315301	25.0	28.7	
80 4-Chlorobenzotrifluoride	180	9.280	9.279	0.001	96	292166	25.0	29.6	
86 2-Chlorobenzotrifluoride	180	10.219	10.218	0.001	98	332942	25.0	29.2	
89 Cyclohexanone	55	10.514	10.514	0.000	89	73075	250.0	274.5	
92 3-Chlorotoluene	126	10.903	10.903	0.000	95	252151	25.0	29.9	
97 Pentachloroethane	167	11.273	11.273	0.000	0	120381	25.0	26.8	
99 Dicyclopentadiene	66	11.624	11.623	0.001	96	773380	25.0	26.3	
100 1,2,3-Trimethylbenzene	105	11.643	11.643	0.000	98	847802	25.0	28.2	
102 Benzyl chloride	126	11.765	11.762	0.003	98	99406	25.0	24.2	
108 1,3,5-Trichlorobenzene	180	12.768	12.768	0.000	98	426519	25.0	28.5	
125 2-Methylnaphthalene	142	14.675	14.675	0.000	93	729637	25.0	28.6	

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
a - User Assigned ID

Reagents:

SS ADD CORP_00074	Amount Added:	12.50	Units: uL	
3_MCP_Add_WRK_00340	Amount Added:	12.50	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 16:06:14 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16106.D

Injection Date: 09-Dec-2021 00:19:19 Instrument ID: HP5977L

Lims ID: ICV ADD

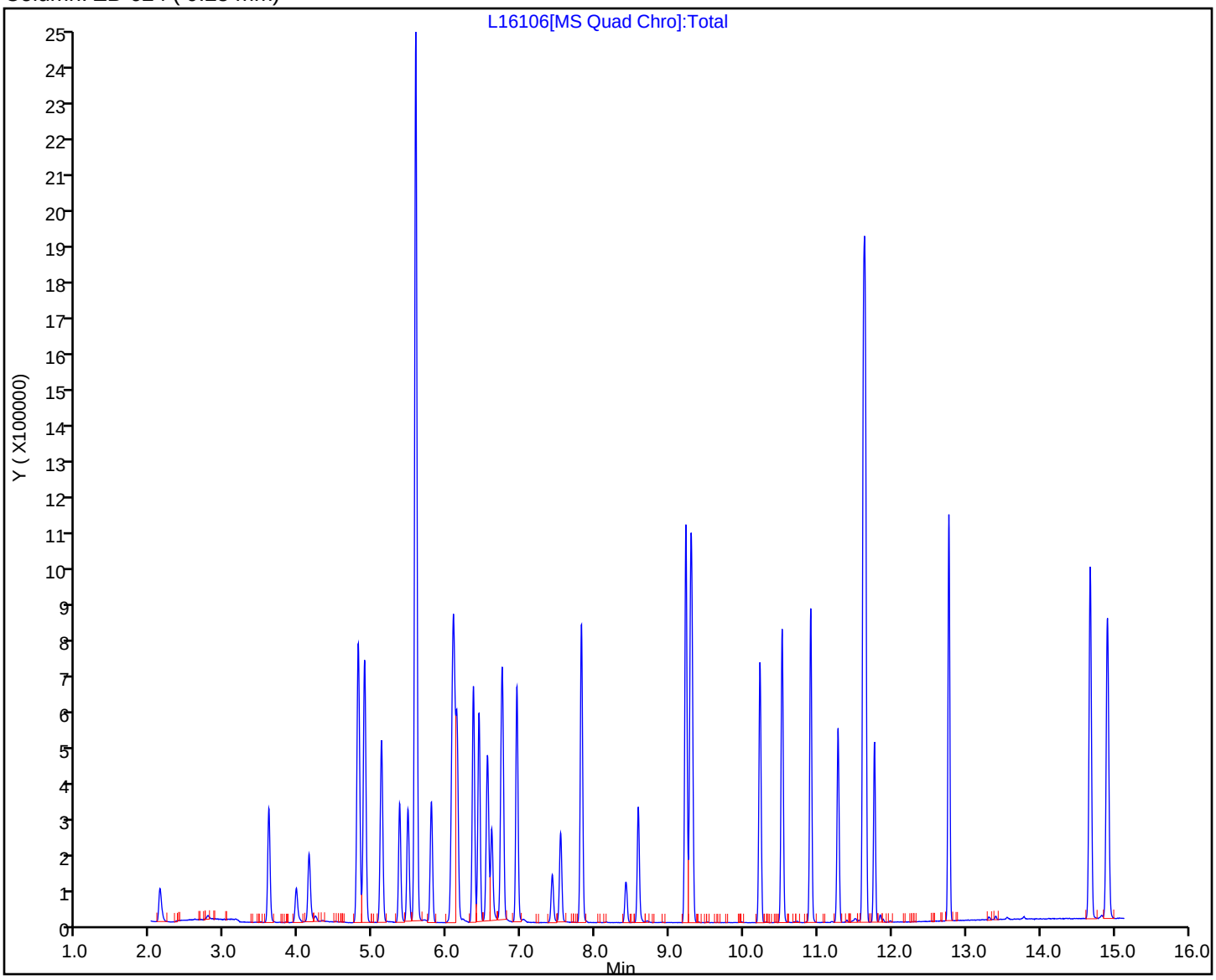
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 30

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab Sample ID: ICV 480-608018/30 Calibration Date: 12/09/2021 00:19

Instrument ID: HP5977L Calib Start Date: 12/08/2021 20:38

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 22:50

Lab File ID: L16106.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	1.162	1.334		28.7	25.0	14.9	30.0
Isopropyl alcohol	Ave	0.1049	0.1199		286	250	14.4	30.0
Acetonitrile	Ave	0.1042	0.1045		251	250	0.3	30.0
Isopropyl ether	Ave	3.327	3.595		27.0	25.0	8.0	30.0
Halothane	Ave	1.059	1.203		28.4	25.0	13.5	30.0
1,1-Dimethoxyethane	Ave	0.3167	0.3479		137	125	9.9	30.0
Chloroprene	Ave	1.602	1.744		27.2	25.0	8.9	30.0
Tert-butyl ethyl ether	Ave	3.371	3.805		28.2	25.0	12.9	30.0
Ethyl acetate	Ave	1.485	1.667		56.1	50.0	12.3	30.0
Propionitrile	Ave	0.2615	0.2892		276	250	10.6	30.0
Methacrylonitrile	Ave	0.9787	1.036		265	250	5.9	30.0
Isooctane	Ave	3.521	4.110		29.2	25.0	16.7	30.0
t-Amyl alcohol	Ave	0.1743	0.1932		277	250	10.8	30.0
Tert-amyl methyl ether	Ave	4.609	5.109		27.7	25.0	10.9	30.0
1,4-Difluorobenzene	Ave	4.391	4.770		27.2	25.0	8.6	30.0
n-Butanol	Ave	0.0503	0.0577		717	625	14.7	30.0
Ethyl acrylate	Ave	3.491	4.150		29.7	25.0	18.9	30.0
Methyl methacrylate	Ave	1.168	1.293		55.3	50.0	10.6	30.0
2-Nitropropane	Ave	0.1390	0.1565		56.3	50.0	12.6	30.0
Epichlorohydrin	Ave	0.1781	0.2016		283	250	13.2	30.0
n-Butyl acetate	Ave	0.4233	0.4731	0.1000	27.9	25.0	11.8	30.0
1-Chlorohexane	Ave	0.1928	0.2118		27.5	25.0	9.9	30.0
3-Chlorobenzotrifluoride	Ave	0.8080	0.9286		28.7	25.0	14.9	30.0
4-Chlorobenzotrifluoride	Ave	0.7268	0.8605		29.6	25.0	18.4	30.0
2-Chlorobenzotrifluoride	Ave	0.8384	0.9806		29.2	25.0	17.0	30.0
Cyclohexanone	Ave	0.0196	0.0215		274	250	9.8	30.0
3-Chlorotoluene	Ave	0.6202	0.7426		29.9	25.0	19.7	30.0
Pentachloroethane	Ave	0.3305	0.3545		26.8	25.0	7.3	30.0
Dicyclopentadiene	Ave	2.161	2.278		26.3	25.0	5.4	30.0
1,2,3-Trimethylbenzene	Ave	2.217	2.497		28.2	25.0	12.6	30.0
Benzyl chloride	Lin1		0.1707		24.2	25.0	-3.3	30.0
1,3,5-Trichlorobenzene	Ave	1.101	1.256		28.5	25.0	14.1	30.0
2-Methylnaphthalene	Ave	1.879	2.149		28.6	25.0	14.4	30.0
Ethanol	Ave	0.0132				1000		

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16106.D
Lims ID: ICV ADD
Client ID:
Sample Type: ICV
Inject. Date: 09-Dec-2021 00:19:19 ALS Bottle#: 0 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV ADD
Misc. Info.: 480-0102927-030
Operator ID: wd Instrument ID: HP5977L
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 16:00:18 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: HillL Date: 09-Dec-2021 15:57:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	127104	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	582333	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	94	339534	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.785	5.785	0.000	94	221545	25.0	25.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	226201	25.0	25.5	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	92	719331	25.0	25.6	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	92	271559	25.0	25.3	
9 Chlorodifluoromethane	51	2.119	2.119	0.000	96	169574	25.0	28.7	
11 Ethanol	45		3.469				ND	ND	
12 Propene oxide	58	3.588	3.588	0.000	0	287761	NC	NC	a
16 Isopropyl alcohol	45	3.961	3.961	0.000	99	152418	250.0	285.9	
17 Acetonitrile	40	4.132	4.132	0.000	99	132817	250.0	250.8	
22 Isopropyl ether	45	4.791	4.791	0.000	92	456878	25.0	27.0	
23 Halothane	117	4.807	4.804	0.003	88	152855	25.0	28.4	
25 1,1-Dimethoxyethane	75	4.875	4.878	-0.003	92	221114	125.0	137.3	
24 2-Chloro-1,3-butadiene	53	4.891	4.891	0.000	91	221668	25.0	27.2	
27 Tert-butyl ethyl ether	59	5.109	5.109	0.000	95	483662	25.0	28.2	
32 Ethyl acetate	43	5.354	5.354	0.000	99	423837	50.0	56.1	
34 Propionitrile	54	5.466	5.469	-0.003	99	367620	250.0	276.5	
36 Methacrylonitrile	41	5.572	5.572	0.000	90	1317307	250.0	264.8	
43 Isooctane	57	6.064	6.064	0.000	97	522398	25.0	29.2	
45 t-Amyl alcohol	59	6.084	6.083	0.001	93	245515	250.0	277.1	
46 Tert-amyl methyl ether	73	6.129	6.128	0.001	97	649429	25.0	27.7	
48 1,4-Difluorobenzene	114	6.424	6.427	-0.003	92	606267	25.0	27.2	
51 2,4,4-Trimethyl-1-pentene	55	6.540	6.540	0.000	96	112765	NC	NC	
52 n-Butanol	56	6.598	6.598	0.000	84	183311	625.0	717.0	
53 Ethyl acrylate	55	6.730	6.730	0.000	98	527533	25.0	29.7	
54 2,4,4-Trimethyl-2-pentene	97	6.743	6.743	0.000	91	424638	NC	NC	a
55 Methyl methacrylate	41	6.939	6.939	0.000	86	328628	50.0	55.3	
59 2-Nitropropane	43	7.415	7.415	0.000	98	106275	50.0	56.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
63 Epichlorohydrin	57	7.527	7.527	0.000	99	256251	250.0	283.0	
74 n-Butyl acetate	43	8.576	8.575	0.001	98	275492	25.0	27.9	
78 1-Chlorohexane	55	9.219	9.215	0.004	91	123339	25.0	27.5	
79 3-Chlorobenzotrifluoride	180	9.222	9.218	0.004	92	315301	25.0	28.7	
80 4-Chlorobenzotrifluoride	180	9.280	9.279	0.001	96	292166	25.0	29.6	
86 2-Chlorobenzotrifluoride	180	10.219	10.218	0.001	98	332942	25.0	29.2	
89 Cyclohexanone	55	10.514	10.514	0.000	89	73075	250.0	274.5	
92 3-Chlorotoluene	126	10.903	10.903	0.000	95	252151	25.0	29.9	
97 Pentachloroethane	167	11.273	11.273	0.000	0	120381	25.0	26.8	
99 Dicyclopentadiene	66	11.624	11.623	0.001	96	773380	25.0	26.3	
100 1,2,3-Trimethylbenzene	105	11.643	11.643	0.000	98	847802	25.0	28.2	
102 Benzyl chloride	126	11.765	11.762	0.003	98	99406	25.0	24.2	
108 1,3,5-Trichlorobenzene	180	12.768	12.768	0.000	98	426519	25.0	28.5	
125 2-Methylnaphthalene	142	14.675	14.675	0.000	93	729637	25.0	28.6	

QC Flag Legend

Processing Flags
NC - Not Calibrated
ND - Not Detected or Marked ND
Review Flags
a - User Assigned ID

Reagents:

SS ADD CORP_00074	Amount Added:	12.50	Units: uL	
3_MCP_Add_WRK_00340	Amount Added:	12.50	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 16:06:14 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16106.D

Injection Date: 09-Dec-2021 00:19:19 Instrument ID: HP5977L

Lims ID: ICV ADD

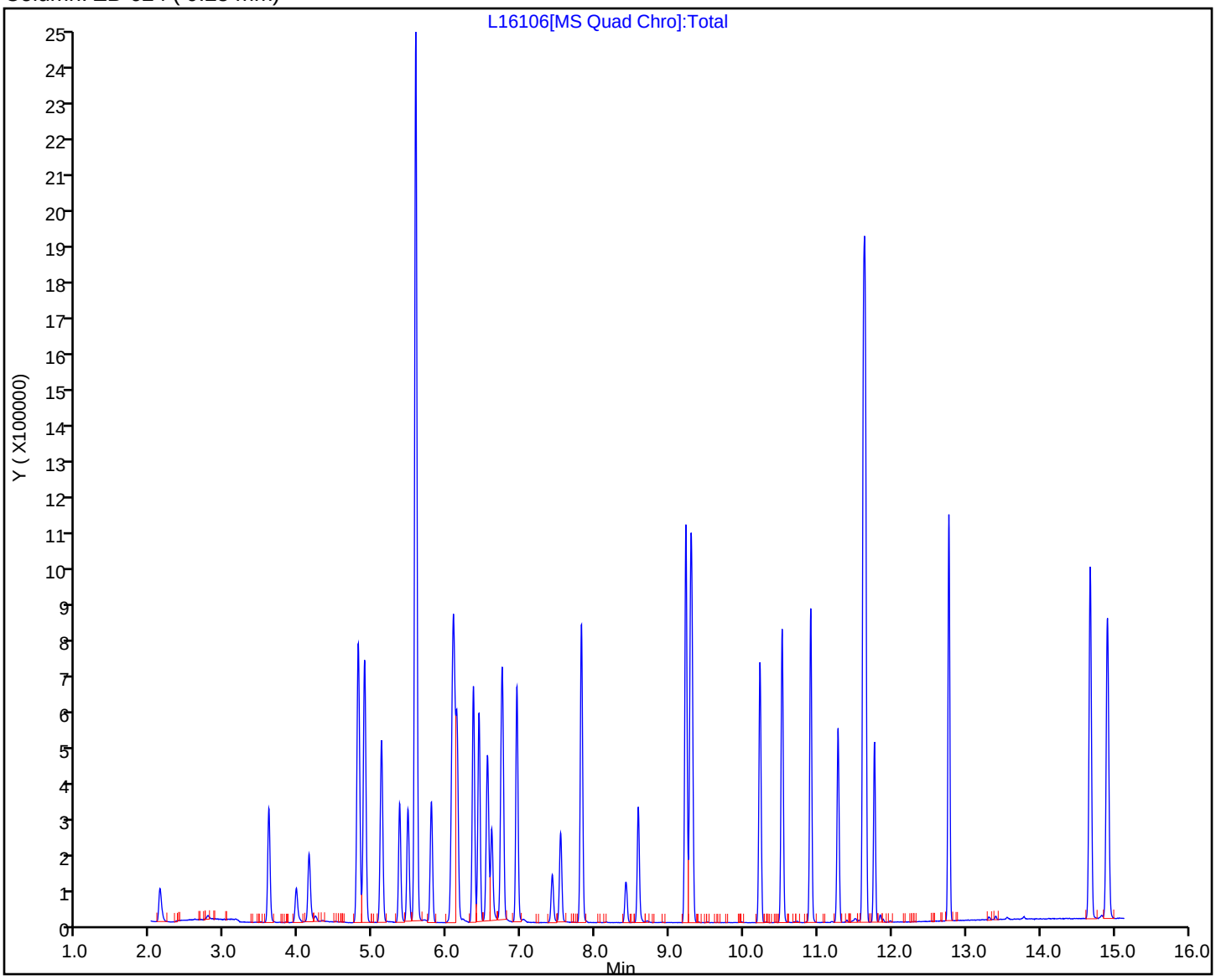
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 30

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab Sample ID: CCVIS 480-608538/4 Calibration Date: 12/13/2021 10:03

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16171.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		1.492	0.1000	26.0	25.0	4.0	50.0
Chloromethane	Ave	1.416	1.333	0.1000	23.5	25.0	-5.9	20.0
Vinyl chloride	Ave	1.528	1.604	0.1000	26.2	25.0	5.0	20.0
Butadiene	Ave	1.359	1.452		26.7	25.0	6.8	20.0
Bromomethane	Ave	1.559	1.758	0.1000	28.2	25.0	12.8	50.0
Chloroethane	Ave	1.224	1.199	0.1000	24.5	25.0	-2.0	50.0
Dichlorofluoromethane	Ave	2.500	2.499		25.0	25.0	-0.0	20.0
Trichlorofluoromethane	Lin1		2.553	0.1000	24.8	25.0	-1.0	20.0
Ethyl ether	Ave	1.213	1.181		24.3	25.0	-2.6	20.0
Acrolein	Ave	0.2348	0.2514		134	125	7.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.144	1.450	0.1000	31.7	25.0	26.8*	20.0
1,1-Dichloroethene	Ave	1.203	1.337	0.1000	27.8	25.0	11.1	20.0
Acetone	Ave	0.5449	0.6415	0.1000	147	125	17.7	50.0
Iodomethane	Ave	2.850	2.784		24.4	25.0	-2.3	20.0
Carbon disulfide	Ave	3.966	4.277	0.1000	27.0	25.0	7.9	20.0
Allyl chloride	Ave	1.767	1.759		24.9	25.0	-0.5	20.0
Methyl acetate	Ave	1.366	1.391	0.1000	50.9	50.0	1.9	50.0
Methylene Chloride	Lin1		1.559	0.1000	23.5	25.0	-6.0	20.0
2-Methyl-2-propanol	Ave	0.2229	0.2619		294	250	17.5	50.0
Methyl tert-butyl ether	Ave	4.037	4.313	0.1000	26.7	25.0	6.8	20.0
trans-1,2-Dichloroethene	Ave	1.573	1.620	0.1000	25.7	25.0	3.0	20.0
Acrylonitrile	Ave	0.7170	0.7431		259	250	3.6	20.0
Hexane	Ave	1.420	1.899		33.4	25.0	33.7*	20.0
1,1-Dichloroethane	Ave	2.356	2.448	0.2000	26.0	25.0	3.9	20.0
Vinyl acetate	Ave	2.760	3.168		57.4	50.0	14.8	20.0
2,2-Dichloropropane	Ave	1.573	1.834		29.2	25.0	16.6	20.0
cis-1,2-Dichloroethene	Ave	1.722	1.799	0.1000	26.1	25.0	4.5	20.0
2-Butanone (MEK)	Ave	0.8547	0.9895	0.1000	145	125	15.8	20.0
Chlorobromomethane	Ave	1.000	1.050		26.3	25.0	5.0	20.0
Tetrahydrofuran	Ave	0.5683	0.6290		55.3	50.0	10.7	20.0
Chloroform	Ave	2.837	2.823	0.2000	24.9	25.0	-0.5	20.0
1,1,1-Trichloroethane	Ave	2.244	2.473	0.1000	27.5	25.0	10.2	20.0
Cyclohexane	Ave	1.612	2.119	0.1000	32.9	25.0	31.4*	20.0
Carbon tetrachloride	Ave	1.984	2.288	0.1000	28.8	25.0	15.4	20.0
1,1-Dichloropropene	Ave	1.723	2.010		29.2	25.0	16.6	20.0
Isobutyl alcohol	Ave	0.0881	0.1135		805	625	28.8	50.0
Benzene	Ave	5.426	5.839	0.5000	26.9	25.0	7.6	20.0
1,2-Dichloroethane	Ave	2.052	2.134	0.1000	26.0	25.0	4.0	20.0
n-Heptane	Ave	1.371	1.745		31.8	25.0	27.3*	20.0
Trichloroethene	Ave	1.529	1.639	0.2000	26.8	25.0	7.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab Sample ID: CCVIS 480-608538/4 Calibration Date: 12/13/2021 10:03

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16171.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.022	2.588	0.1000	32.0	25.0	28.0*	20.0
1,2-Dichloropropane	Ave	1.201	1.351	0.1000	28.1	25.0	12.5	20.0
1,4-Dioxane	Ave	0.0036	0.0054		749	500	49.8	50.0
Dibromomethane	Ave	1.093	1.162	0.1000	26.6	25.0	6.3	20.0
Bromodichloromethane	Ave	1.903	2.108	0.2000	27.7	25.0	10.8	20.0
2-Chloroethyl vinyl ether	Ave	0.8953	1.075		30.0	25.0	20.1*	20.0
cis-1,3-Dichloropropene	Ave	2.092	2.451	0.2000	29.3	25.0	17.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3628	0.3843	0.1000	132	125	5.9	20.0
Toluene	Ave	0.7803	0.7874	0.4000	25.2	25.0	0.9	20.0
Ethyl methacrylate	Ave	0.3630	0.4308		29.7	25.0	18.7	20.0
trans-1,3-Dichloropropene	Ave	0.4247	0.4816	0.1000	28.4	25.0	13.4	20.0
1,1,2-Trichloroethane	Ave	0.2391	0.2553	0.1000	26.7	25.0	6.8	20.0
Tetrachloroethene	Ave	0.3890	0.4044	0.2000	26.0	25.0	4.0	20.0
1,3-Dichloropropane	Ave	0.4885	0.5115		26.2	25.0	4.7	20.0
2-Hexanone	Ave	0.2479	0.2834	0.1000	143	125	14.3	20.0
Dibromochloromethane	Ave	0.3480	0.3762	0.1000	27.0	25.0	8.1	20.0
1,2-Dibromoethane	Ave	0.3503	0.3630		25.9	25.0	3.6	20.0
Chlorobenzene	Ave	0.9459	0.9436	0.5000	24.9	25.0	-0.2	20.0
Ethylbenzene	Ave	1.429	1.469	0.1000	25.7	25.0	2.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3526	0.3694		26.2	25.0	4.8	20.0
m,p-Xylene	Ave	0.5871	0.6062	0.1000	25.8	25.0	3.3	20.0
o-Xylene	Ave	0.5890	0.5916	0.3000	25.1	25.0	0.4	20.0
Styrene	Ave	0.9511	1.005	0.3000	26.4	25.0	5.6	20.0
Bromoform	Ave	0.2646	0.2862	0.1000	27.0	25.0	8.2	50.0
Isopropylbenzene	Ave	2.492	2.632	0.1000	26.4	25.0	5.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7832	0.8151	0.3000	26.0	25.0	4.1	20.0
Bromobenzene	Ave	0.7658	0.7614		24.9	25.0	-0.6	20.0
N-Propylbenzene	Ave	2.783	3.001		27.0	25.0	7.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1987	0.2304		29.0	25.0	15.9	50.0
1,2,3-Trichloropropane	Ave	0.2896	0.2984		25.8	25.0	3.0	20.0
2-Chlorotoluene	Ave	0.6581	0.6710		25.5	25.0	2.0	20.0
1,3,5-Trimethylbenzene	Ave	2.150	2.225		25.9	25.0	3.5	20.0
4-Chlorotoluene	Ave	1.747	1.789		25.6	25.0	2.4	20.0
tert-Butylbenzene	Ave	0.5086	0.5410		26.6	25.0	6.4	20.0
1,2,4-Trimethylbenzene	Ave	2.203	2.286		25.9	25.0	3.8	20.0
sec-Butylbenzene	Ave	2.622	2.863		27.3	25.0	9.2	20.0
4-Isopropyltoluene	Ave	2.431	2.607		26.8	25.0	7.2	20.0
1,3-Dichlorobenzene	Ave	1.457	1.431	0.6000	24.5	25.0	-1.8	20.0
1,4-Dichlorobenzene	Ave	1.506	1.451	0.5000	24.1	25.0	-3.7	20.0
n-Butylbenzene	Ave	2.035	2.163		26.6	25.0	6.3	20.0
1,2-Dichlorobenzene	Ave	1.465	1.407	0.4000	24.0	25.0	-4.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab Sample ID: CCVIS 480-608538/4 Calibration Date: 12/13/2021 10:03

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16171.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1669	0.1780	0.0500	26.7	25.0	6.7	50.0
1,2,4-Trichlorobenzene	Ave	1.114	1.087	0.2000	24.4	25.0	-2.4	20.0
Hexachlorobutadiene	Ave	0.4764	0.4781		25.1	25.0	0.4	20.0
Naphthalene	Ave	3.100	3.158		25.5	25.0	1.8	20.0
1,2,3-Trichlorobenzene	Ave	1.070	1.061		24.8	25.0	-0.8	20.0
Dibromofluoromethane (Surr)	Ave	1.725	1.743		25.3	25.0	1.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.746	1.762		25.2	25.0	0.9	20.0
Toluene-d8 (Surr)	Ave	1.207	1.199		24.8	25.0	-0.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4611	0.4275		23.2	25.0	-7.3	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16171.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 13-Dec-2021 10:03:03 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0103006-004
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 13-Dec-2021 11:23:02 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1603

First Level Reviewer: dahnw Date: 13-Dec-2021 11:23:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	138621	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	84	692197	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.611	11.611	0.000	92	410917	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.781	0.000	93	241602	25.0	25.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.093	6.093	0.000	97	244207	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	7.807	7.807	0.000	92	829860	25.0	24.8	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	94	295925	25.0	23.2	
10 Dichlorodifluoromethane	85	2.087	2.087	0.000	99	206814	25.0	26.0	
13 Chloromethane	50	2.347	2.347	0.000	98	184747	25.0	23.5	
14 Vinyl chloride	62	2.476	2.476	0.000	98	222363	25.0	26.2	
15 Butadiene	54	2.492	2.492	0.000	91	201256	25.0	26.7	
18 Bromomethane	94	2.852	2.852	0.000	90	243722	25.0	28.2	
19 Chloroethane	64	2.945	2.945	0.000	99	166234	25.0	24.5	
21 Trichlorofluoromethane	101	3.183	3.183	0.000	61	353853	25.0	24.8	
20 Dichlorofluoromethane	67	3.183	3.183	0.000	96	346363	25.0	25.0	
26 Ethyl ether	59	3.476	3.476	0.000	89	163709	25.0	24.3	
28 Acrolein	56	3.675	3.675	0.000	99	174222	125.0	133.8	
29 112TCTFE	101	3.695	3.695	0.000	91	201064	25.0	31.7	
30 1,1-Dichloroethene	96	3.727	3.727	0.000	96	185291	25.0	27.8	
31 Acetone	43	3.820	3.820	0.000	100	444646	125.0	147.2	
33 Iodomethane	142	3.910	3.910	0.000	99	385956	25.0	24.4	
35 Carbon disulfide	76	3.965	3.965	0.000	99	592943	25.0	27.0	
37 3-Chloro-1-propene	41	4.080	4.080	0.000	87	243843	25.0	24.9	
38 Methyl acetate	43	4.093	4.093	0.000	96	385687	50.0	50.9	
39 Methylene Chloride	84	4.219	4.219	0.000	87	216085	25.0	23.5	
40 2-Methyl-2-propanol	59	4.315	4.315	0.000	97	363080	250.0	293.8	
41 Methyl tert-butyl ether	73	4.396	4.396	0.000	94	597889	25.0	26.7	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	94	224509	25.0	25.7	
44 Acrylonitrile	53	4.476	4.476	0.000	98	1030024	250.0	259.1	
47 Hexane	57	4.598	4.598	0.000	91	263209	25.0	33.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.833	4.833	0.000	94	339341	25.0	26.0	
49 Vinyl acetate	43	4.836	4.836	0.000	97	878352	50.0	57.4	
56 2,2-Dichloropropane	77	5.328	5.328	0.000	87	254231	25.0	29.2	
58 cis-1,2-Dichloroethene	96	5.350	5.350	0.000	80	249400	25.0	26.1	
57 2-Butanone (MEK)	43	5.354	5.354	0.000	99	685836	125.0	144.7	
60 Chlorobromomethane	128	5.582	5.582	0.000	83	145534	25.0	26.3	
61 Tetrahydrofuran	42	5.595	5.595	0.000	84	174391	50.0	55.3	
62 Chloroform	83	5.627	5.627	0.000	93	391260	25.0	24.9	
64 1,1,1-Trichloroethane	97	5.768	5.768	0.000	97	342789	25.0	27.5	
65 Cyclohexane	56	5.788	5.788	0.000	86	293765	25.0	32.9	
66 Carbon tetrachloride	117	5.904	5.904	0.000	96	317215	25.0	28.8	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	93	278586	25.0	29.2	
69 Isobutyl alcohol	43	6.006	6.006	0.000	92	393289	625.0	805.1	
70 Benzene	78	6.109	6.109	0.000	97	809359	25.0	26.9	
72 1,2-Dichloroethane	62	6.164	6.164	0.000	99	295805	25.0	26.0	
73 n-Heptane	43	6.209	6.209	0.000	86	241920	25.0	31.8	
75 Trichloroethene	95	6.675	6.675	0.000	94	227183	25.0	26.8	
76 Methylcyclohexane	83	6.807	6.807	0.000	85	358716	25.0	32.0	
77 1,2-Dichloropropane	63	6.920	6.920	0.000	93	187294	25.0	28.1	
81 1,4-Dioxane	88	7.029	7.029	0.000	89	74372	500.0	748.9	
82 Dibromomethane	93	7.061	7.061	0.000	91	161118	25.0	26.6	
83 Dichlorobromomethane	83	7.180	7.180	0.000	99	292236	25.0	27.7	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	94	149043	25.0	30.0	
85 cis-1,3-Dichloropropene	75	7.576	7.576	0.000	96	339738	25.0	29.3	
87 4-Methyl-2-pentanone (MIBK)	43	7.682	7.682	0.000	95	1329931	125.0	132.4	
88 Toluene	92	7.875	7.875	0.000	98	545066	25.0	25.2	
90 Ethyl methacrylate	69	8.109	8.109	0.000	88	298213	25.0	29.7	
91 trans-1,3-Dichloropropene	75	8.116	8.116	0.000	96	333386	25.0	28.4	
93 1,1,2-Trichloroethane	83	8.321	8.321	0.000	90	176688	25.0	26.7	
94 Tetrachloroethene	166	8.408	8.408	0.000	98	279933	25.0	26.0	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	94	354025	25.0	26.2	
96 2-Hexanone	43	8.502	8.502	0.000	96	980910	125.0	142.9	
98 Chlorodibromomethane	129	8.743	8.743	0.000	89	260405	25.0	27.0	
101 Ethylene Dibromide	107	8.875	8.875	0.000	98	251245	25.0	25.9	
103 Chlorobenzene	112	9.328	9.328	0.000	98	653138	25.0	24.9	
104 Ethylbenzene	91	9.389	9.389	0.000	97	1016968	25.0	25.7	
105 1,1,1,2-Tetrachloroethane	131	9.408	9.408	0.000	95	255702	25.0	26.2	
106 m-Xylene & p-Xylene	106	9.505	9.505	0.000	97	419600	25.0	25.8	
107 o-Xylene	106	9.945	9.945	0.000	96	409537	25.0	25.1	
109 Styrene	104	9.971	9.971	0.000	95	695390	25.0	26.4	
110 Bromoform	173	10.251	10.251	0.000	97	198138	25.0	27.0	
111 Isopropylbenzene	105	10.302	10.302	0.000	95	1081626	25.0	26.4	
112 1,1,2,2-Tetrachloroethane	83	10.682	10.682	0.000	97	334923	25.0	26.0	
113 Bromobenzene	156	10.688	10.688	0.000	86	312883	25.0	24.9	
114 N-Propylbenzene	91	10.714	10.714	0.000	98	1233108	25.0	27.0	
115 trans-1,4-Dichloro-2-butene	53	10.723	10.723	0.000	76	94678	25.0	29.0	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	86	122623	25.0	25.8	
117 2-Chlorotoluene	126	10.846	10.846	0.000	98	275726	25.0	25.5	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	914130	25.0	25.9	
119 4-Chlorotoluene	91	10.948	10.948	0.000	96	735275	25.0	25.6	
120 tert-Butylbenzene	134	11.190	11.190	0.000	90	222310	25.0	26.6	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	98	939204	25.0	25.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.389	11.389	0.000	93	1176381	25.0	27.3	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	97	1071311	25.0	26.8	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	98	587826	25.0	24.5	
126 1,4-Dichlorobenzene	146	11.633	11.633	0.000	96	596064	25.0	24.1	
127 n-Butylbenzene	91	11.878	11.878	0.000	97	888997	25.0	26.6	
128 1,2-Dichlorobenzene	146	11.977	11.977	0.000	99	578131	25.0	24.0	
129 1,2-Dibromo-3-Chloropropane	75	12.656	12.656	0.000	92	73161	25.0	26.7	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	94	446820	25.0	24.4	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	95	196473	25.0	25.1	
132 Naphthalene	128	13.559	13.559	0.000	96	1297471	25.0	25.5	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	436005	25.0	24.8	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00218	Amount Added:	12.50	Units: uL	
GAS CORP mix_00484	Amount Added:	12.50	Units: uL	
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 13-Dec-2021 11:23:03 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16171.D

Injection Date: 13-Dec-2021 10:03:03 Instrument ID: HP5977L

Lims ID: CCVIS

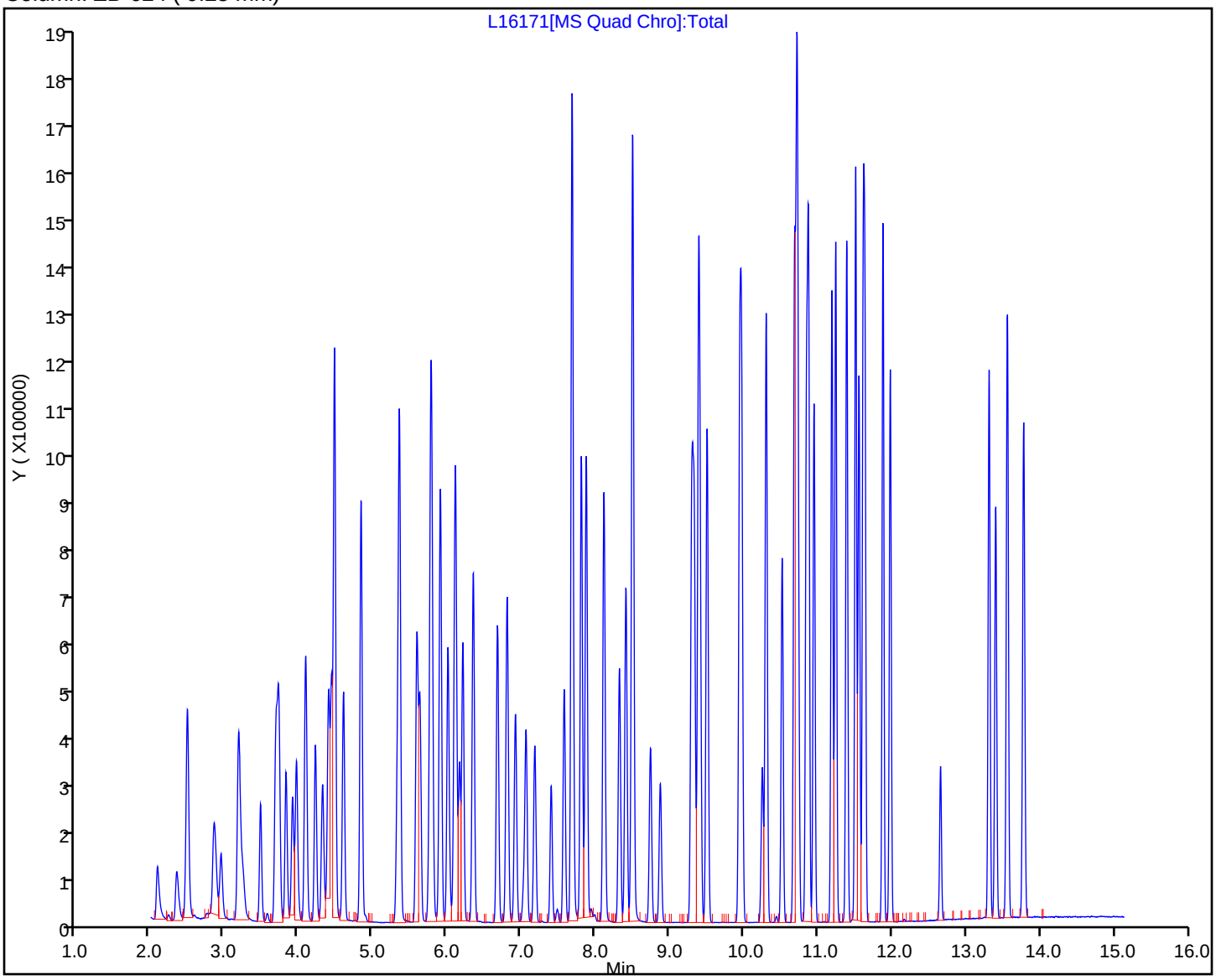
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 4

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16082.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Dec-2021 15:28:22 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0102927-006
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 16:06:17 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: dahnw Date: 08-Dec-2021 15:38:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 8 BFB	95	6.061	6.061	0.000	0	94489	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

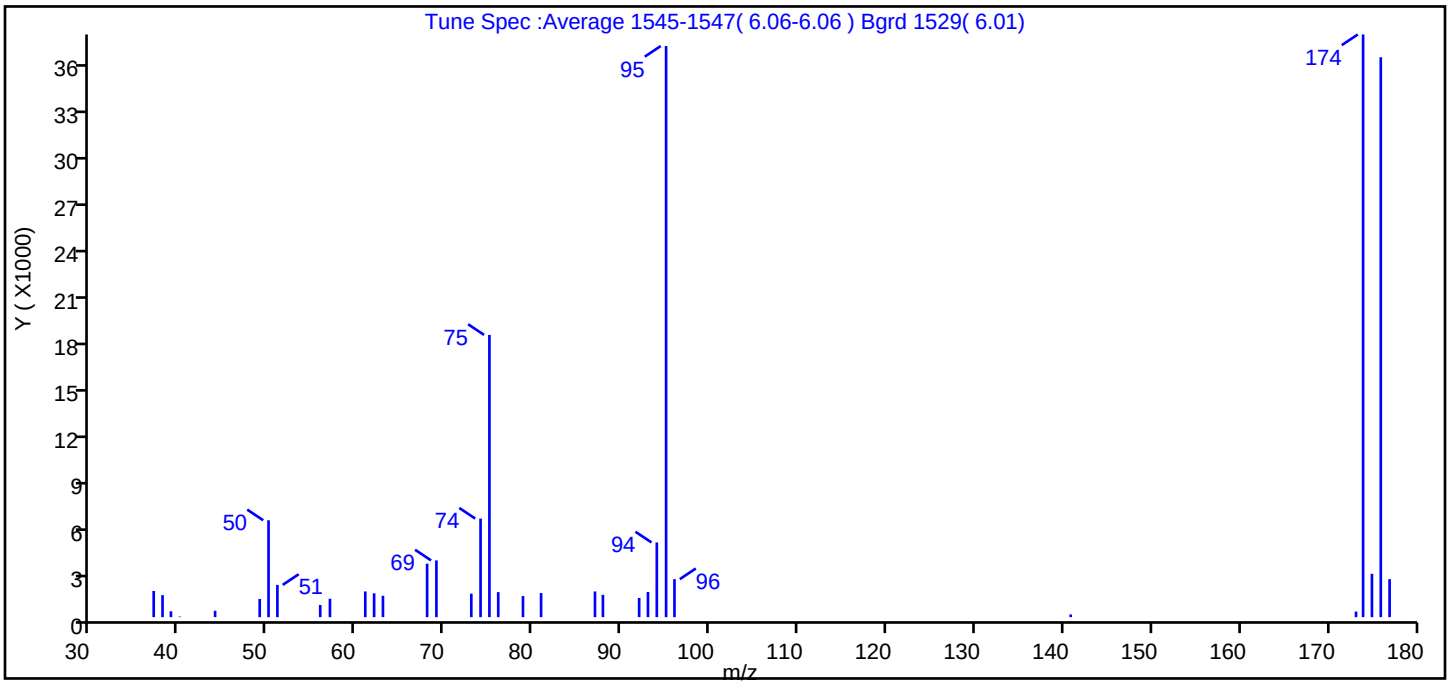
BFB_WRK_00130 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16082.D
Injection Date: 08-Dec-2021 15:28:22 Instrument ID: HP5977L
Lims ID: BFB
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.0
75	30 to 60% of m/z 95	49.4
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	1.0 (1.0)
174	50 to 120% of m/z 95	102.0
175	5 to 9% of m/z 174	7.6 (7.4)
176	Greater than 95% but less than 101% of m/z 174	98.0 (96.1)
177	5 to 9% of m/z 176	6.7 (6.8)

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16082.D\L-8260.rslt\spectra.d
Injection Date: 08-Dec-2021 15:28:22
Spectrum: Tune Spec :Average 1545-1547(6.06-6.06) Bgrd 1529(6.01)
Base Peak: 173.90
Minimum % Base Peak: 0
Number of Points: 34

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1674	57.00	1174	76.00	1599	96.00	2427
38.00	1408	61.00	1641	79.00	1346	141.00	171
39.00	376	62.00	1522	81.00	1538	173.00	356
40.00	35	63.00	1366	87.00	1640	174.00	37224
44.00	408	68.00	3416	88.00	1427	175.00	2768
49.00	1160	69.00	3625	92.00	1224	176.00	35768
50.00	6189	73.00	1501	93.00	1609	177.00	2429
51.00	2061	74.00	6296	94.00	4773		
56.00	777	75.00	18032	95.00	36488		

Report Date: 09-Dec-2021 16:06:17 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16082.D

Injection Date: 08-Dec-2021 15:28:22 Instrument ID: HP5977L

Lims ID: BFB

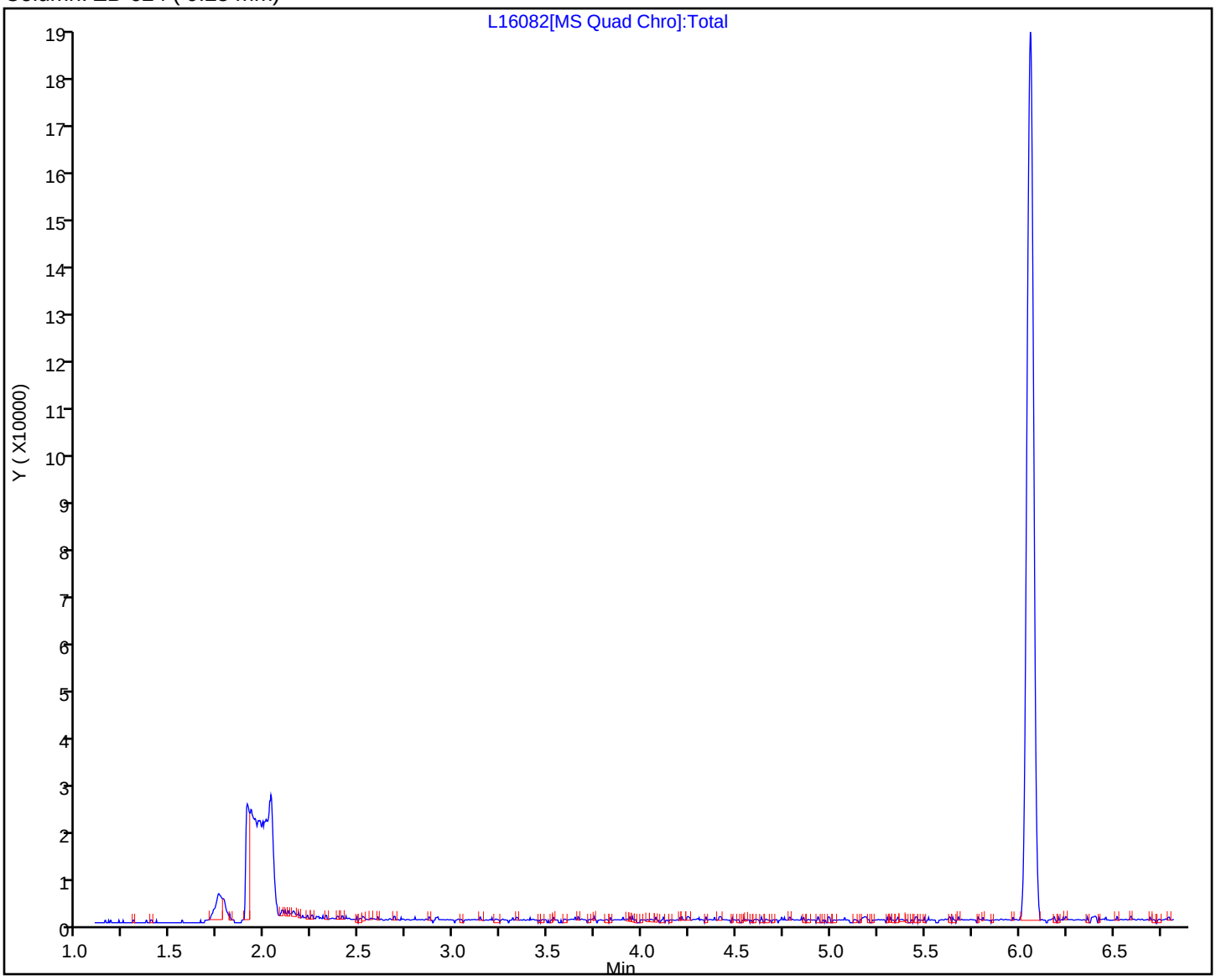
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16170.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 13-Dec-2021 09:33:40 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0103006-003
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 13-Dec-2021 09:48:07 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1603

First Level Reviewer: dahnw Date: 13-Dec-2021 09:48:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 8 BFB	95	6.052	6.052	0.000	0	73365	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

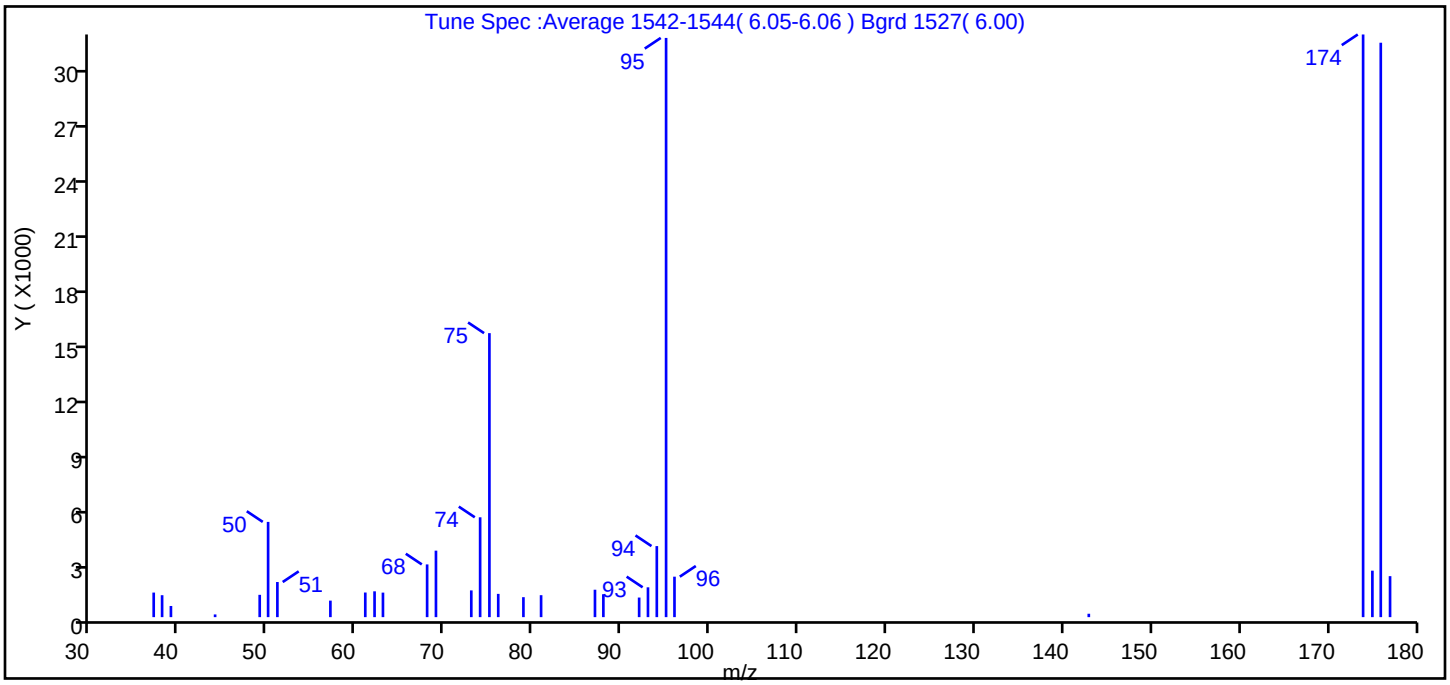
BFB_WRK_00130 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16170.D
Injection Date: 13-Dec-2021 09:33:40 Instrument ID: HP5977L
Lims ID: BFB
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.4
75	30 to 60% of m/z 95	49.0
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	100.6
175	5 to 9% of m/z 174	8.0 (8.0)
176	Greater than 95% but less than 101% of m/z 174	99.2 (98.6)
177	5 to 9% of m/z 176	7.1 (7.1)

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16170.D\L-8260.rslt\spectra.d
Injection Date: 13-Dec-2021 09:33:40
Spectrum: Tune Spec :Average 1542-1544(6.05-6.06) Bgrd 1527(6.00)
Base Peak: 173.90
Minimum % Base Peak: 0
Number of Points: 31

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1310	61.00	1313	76.00	1241	95.00	30888
38.00	1170	62.00	1377	79.00	1065	96.00	2158
39.00	595	63.00	1308	81.00	1171	143.00	181
44.00	145	68.00	2812	87.00	1462	174.00	31072
49.00	1190	69.00	3546	88.00	1221	175.00	2478
50.00	5079	73.00	1426	92.00	1045	176.00	30632
51.00	1873	74.00	5325	93.00	1591	177.00	2186
57.00	881	75.00	15145	94.00	3789		

Report Date: 13-Dec-2021 09:48:07 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16170.D

Injection Date: 13-Dec-2021 09:33:40 Instrument ID: HP5977L

Lims ID: BFB

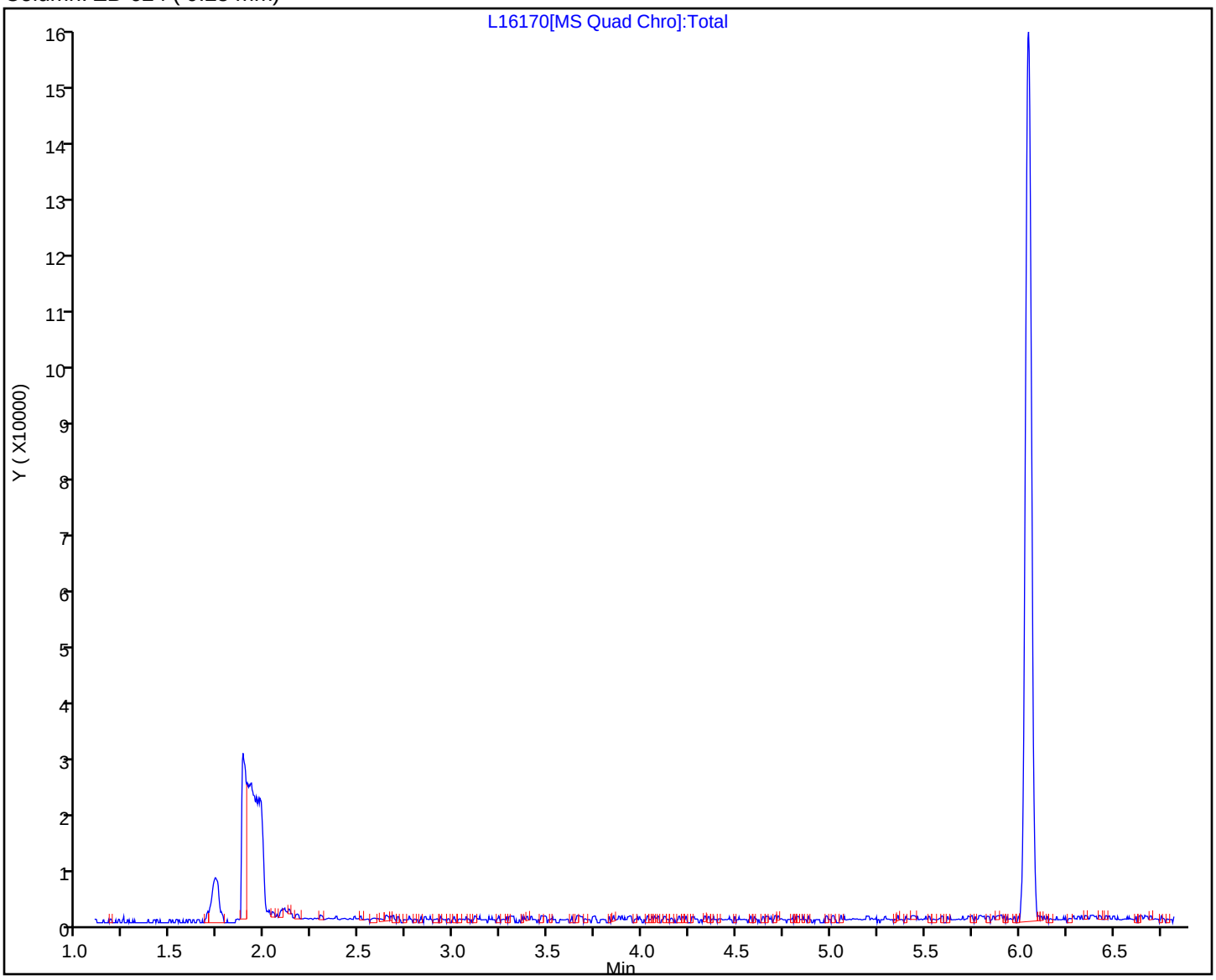
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Client Sample ID: Lab Sample ID: MB 480-608538/8

Matrix: Water Lab File ID: L16175.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/13/2021 11:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608538 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Client Sample ID: Lab Sample ID: MB 480-608538/8

Matrix: Water Lab File ID: L16175.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/13/2021 11:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608538 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
2037-26-5	Toluene-d8 (Surr)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16175.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 13-Dec-2021 11:30:52 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0103006-008
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 13-Dec-2021 12:04:22 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1603

First Level Reviewer: dahnw Date: 13-Dec-2021 12:04:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	100	124671	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	84	569123	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.611	0.003	93	314656	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.781	0.000	94	228168	25.0	26.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.093	0.003	97	229496	25.0	26.4	
$ 6 Toluene-d8 (Surr)	98	7.807	7.807	0.000	92	743225	25.0	27.1	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	93	270810	25.0	25.8	
10 Dichlorodifluoromethane	85		2.087					ND	
9 Chlorodifluoromethane	51		2.125					ND	
13 Chloromethane	50		2.347					ND	
14 Vinyl chloride	62		2.476					ND	
15 Butadiene	54		2.492					ND	
18 Bromomethane	94		2.852					ND	
19 Chloroethane	64		2.945					ND	
20 Dichlorofluoromethane	67		3.183					ND	
21 Trichlorofluoromethane	101		3.183					ND	
11 Ethanol	45		3.469					ND	
26 Ethyl ether	59		3.476					ND	
12 Propene oxide	58		3.588					ND	
28 Acrolein	56		3.675					ND	
29 112TCTFE	101		3.695					ND	
30 1,1-Dichloroethene	96		3.727					ND	
31 Acetone	43		3.820					ND	
33 Iodomethane	142		3.910					ND	
16 Isopropyl alcohol	45		3.961					ND	
35 Carbon disulfide	76		3.965					ND	
37 3-Chloro-1-propene	41		4.080					ND	
38 Methyl acetate	43		4.093					ND	
17 Acetonitrile	40		4.132					ND	
39 Methylene Chloride	84		4.219					ND	
40 2-Methyl-2-propanol	59		4.315					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Methyl tert-butyl ether	73		4.396					ND	
42 trans-1,2-Dichloroethene	96		4.437					ND	
44 Acrylonitrile	53		4.476					ND	
47 Hexane	57		4.598					ND	
22 Isopropyl ether	45		4.791					ND	
23 Halothane	117		4.804					ND	
50 1,1-Dichloroethane	63		4.833					ND	
49 Vinyl acetate	43		4.836					ND	
25 1,1-Dimethoxyethane	75		4.878					ND	
24 2-Chloro-1,3-butadiene	53		4.891					ND	
27 Tert-butyl ethyl ether	59		5.109					ND	
56 2,2-Dichloropropane	77		5.328					ND	
58 cis-1,2-Dichloroethene	96		5.350					ND	
32 Ethyl acetate	43		5.354					ND	
57 2-Butanone (MEK)	43		5.354					ND	
34 Propionitrile	54		5.466					ND	
36 Methacrylonitrile	41		5.572					ND	
60 Chlorobromomethane	128		5.582					ND	
61 Tetrahydrofuran	42		5.595					ND	
62 Chloroform	83		5.627					ND	7
64 1,1,1-Trichloroethane	97		5.768					ND	
65 Cyclohexane	56		5.788					ND	
66 Carbon tetrachloride	117		5.904					ND	
67 1,1-Dichloropropene	75		5.907					ND	
69 Isobutyl alcohol	43		6.006					ND	U
43 Isooctane	57		6.064					ND	
45 t-Amyl alcohol	59		6.083					ND	U
70 Benzene	78		6.109					ND	
46 Tert-amyl methyl ether	73		6.129					ND	
72 1,2-Dichloroethane	62		6.164					ND	
73 n-Heptane	43		6.209					ND	
48 1,4-Difluorobenzene	114		6.428					ND	
51 2,4,4-Trimethyl-1-pentene	55		6.540					ND	
52 n-Butanol	56		6.598					ND	
75 Trichloroethene	95		6.675					ND	
53 Ethyl acrylate	55		6.730					ND	
54 2,4,4-Trimethyl-2-pentene	97		6.743					ND	
76 Methylcyclohexane	83		6.807					ND	
77 1,2-Dichloropropane	63		6.920					ND	
55 Methyl methacrylate	41		6.939					ND	
81 1,4-Dioxane	88		7.029					ND	
82 Dibromomethane	93		7.061					ND	
83 Dichlorobromomethane	83		7.180					ND	
84 2-Chloroethyl vinyl ether	63		7.402					ND	
59 2-Nitropropane	43		7.415					ND	
63 Epichlorohydrin	57		7.527					ND	
85 cis-1,3-Dichloropropene	75		7.576					ND	
87 4-Methyl-2-pentanone (MIBK)	43		7.682					ND	
88 Toluene	92		7.875					ND	
68 2-Methylthiophene	97		8.016					ND	
90 Ethyl methacrylate	69		8.109					ND	
91 trans-1,3-Dichloropropene	75		8.116					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
71 3-Methylthiophene	97		8.180					ND	
93 1,1,2-Trichloroethane	83		8.321					ND	
94 Tetrachloroethene	166		8.408					ND	
95 1,3-Dichloropropane	76		8.492					ND	
96 2-Hexanone	43		8.502					ND	
74 n-Butyl acetate	43		8.575					ND	
98 Chlorodibromomethane	129		8.743					ND	
101 Ethylene Dibromide	107		8.875					ND	
78 1-Chlorohexane	55		9.215					ND	
79 3-Chlorobenzotrifluoride	180		9.218					ND	
80 4-Chlorobenzotrifluoride	180		9.280					ND	
103 Chlorobenzene	112		9.328					ND	
104 Ethylbenzene	91		9.389					ND	
105 1,1,1,2-Tetrachloroethane	131		9.408					ND	
106 m-Xylene & p-Xylene	106		9.505					ND	
107 o-Xylene	106		9.945					ND	
109 Styrene	104		9.971					ND	
86 2-Chlorobenzotrifluoride	180		10.218					ND	
110 Bromoform	173		10.251					ND	
111 Isopropylbenzene	105		10.302					ND	
89 Cyclohexanone	55		10.511					ND	U
112 1,1,2,2-Tetrachloroethane	83		10.682					ND	
113 Bromobenzene	156		10.688					ND	
114 N-Propylbenzene	91		10.714					ND	
115 trans-1,4-Dichloro-2-butene	53		10.723					ND	
116 1,2,3-Trichloropropane	110		10.736					ND	
117 2-Chlorotoluene	126		10.846					ND	
118 1,3,5-Trimethylbenzene	105		10.874					ND	7
92 3-Chlorotoluene	126		10.903					ND	
119 4-Chlorotoluene	91		10.948					ND	
120 tert-Butylbenzene	134		11.190					ND	
121 1,2,4-Trimethylbenzene	105		11.241					ND	
97 Pentachloroethane	167		11.273					ND	
122 sec-Butylbenzene	105		11.389					ND	
123 4-Isopropyltoluene	119		11.511					ND	
124 1,3-Dichlorobenzene	146		11.556					ND	
99 Dicyclopentadiene	66		11.624					ND	U
126 1,4-Dichlorobenzene	146		11.633					ND	
100 1,2,3-Trimethylbenzene	105		11.643					ND	
102 Benzyl chloride	126		11.765					ND	
127 n-Butylbenzene	91	11.881	11.881	0.003	93	3509		0.1370	
128 1,2-Dichlorobenzene	146		11.977					ND	
129 1,2-Dibromo-3-Chloropropane	75		12.656					ND	
108 1,3,5-Trichlorobenzene	180		12.768					ND	
130 1,2,4-Trichlorobenzene	180	13.312	13.315	0.000	80	1912		0.1363	
131 Hexachlorobutadiene	225	13.405	13.405	0.003	75	1340		0.2235	
132 Naphthalene	128		13.559					ND	
133 1,2,3-Trichlorobenzene	180	13.778	13.782	0.000	86	1952		0.1450	
125 2-Methylnaphthalene	142		14.675					ND	
136 1-Bromopropane TIC	1		0.000					ND	
139 Hexachloroethane	117		0.000					ND	
134 Ethylene oxide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
135 Propene oxide TIC	1		0.000					ND	
138 Nitrobenzene	77		0.000					ND	
137 cis-1,4-Dichloro-2-butene	88		0.000					ND	
S 142 Total BTEX	1		30.000					ND	7
S 144 1,3-Dichloropropene, Total	1		30.000					ND	7
S 141 1,2-Dichloroethene, Total	1		30.000					ND	7
S 143 Xylenes, Total	1		30.000					ND	7
S 145 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 13-Dec-2021 12:04:23 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16175.D

Injection Date: 13-Dec-2021 11:30:52 Instrument ID: HP5977L

Lims ID: MB

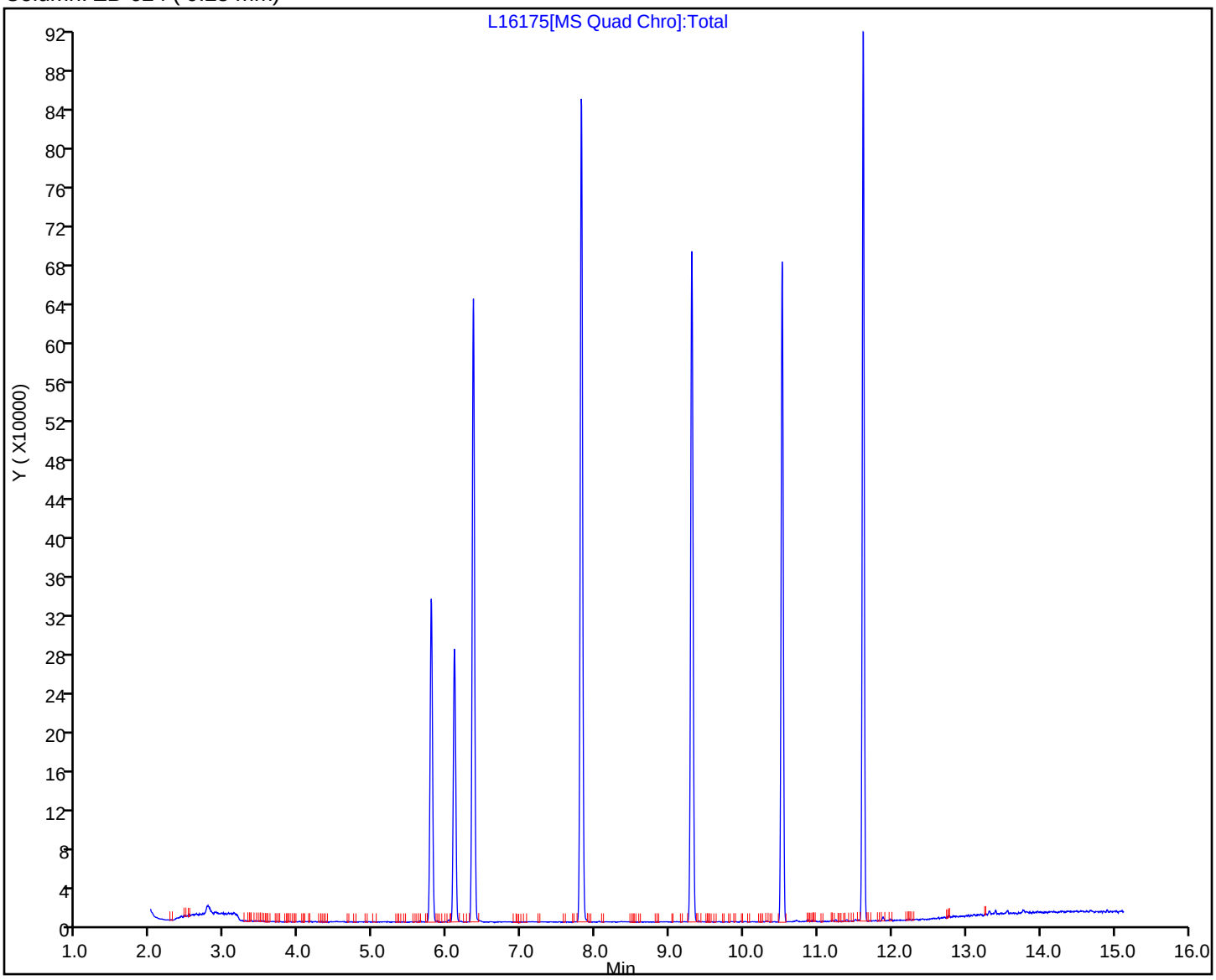
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Client Sample ID: Lab Sample ID: LCS 480-608538/6

Matrix: Water Lab File ID: L16173.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/13/2021 10:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608538 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	26.5		1.0	
71-55-6	1,1,1-Trichloroethane	29.1		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	26.1		1.0	
79-00-5	1,1,2-Trichloroethane	26.7		1.0	
75-34-3	1,1-Dichloroethane	26.6		1.0	
75-35-4	1,1-Dichloroethene	29.5		1.0	
96-18-4	1,2,3-Trichloropropane	26.0		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	27.8		1.0	
95-50-1	1,2-Dichlorobenzene	24.3		1.0	
107-06-2	1,2-Dichloroethane	25.7		1.0	
78-87-5	1,2-Dichloropropane	28.4		1.0	
106-46-7	1,4-Dichlorobenzene	24.4		1.0	
78-93-3	2-Butanone (MEK)	145		10	
591-78-6	2-Hexanone	143		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	135		5.0	
67-64-1	Acetone	142		10	
107-13-1	Acrylonitrile	263		5.0	
71-43-2	Benzene	27.4		1.0	
74-97-5	Chlorobromomethane	26.1		1.0	
75-27-4	Bromodichloromethane	27.6		1.0	
75-25-2	Bromoform	27.7		1.0	
74-83-9	Bromomethane	26.4		1.0	
75-15-0	Carbon disulfide	28.3		1.0	
56-23-5	Carbon tetrachloride	30.3		1.0	
108-90-7	Chlorobenzene	25.8		1.0	
124-48-1	Dibromochloromethane	27.6		1.0	
75-00-3	Chloroethane	25.8		1.0	
67-66-3	Chloroform	25.2		1.0	
74-87-3	Chloromethane	25.2		1.0	
156-59-2	cis-1,2-Dichloroethene	26.7		1.0	
10061-01-5	cis-1,3-Dichloropropene	29.5		1.0	
74-95-3	Dibromomethane	26.5		1.0	
100-41-4	Ethylbenzene	27.0		1.0	
106-93-4	1,2-Dibromoethane	26.4		1.0	
74-88-4	Iodomethane	25.0		1.0	
75-09-2	Methylene Chloride	24.0		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Client Sample ID: Lab Sample ID: LCS 480-608538/6

Matrix: Water Lab File ID: L16173.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/13/2021 10:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608538 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	27.2		1.0	
127-18-4	Tetrachloroethene	27.6		1.0	
75-69-4	Trichlorofluoromethane	26.2		1.0	
79-01-6	Trichloroethene	28.0		1.0	
108-88-3	Toluene	26.4		1.0	
156-60-5	trans-1,2-Dichloroethene	26.5		1.0	
10061-02-6	trans-1,3-Dichloropropene	28.7		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	28.2		1.0	
108-05-4	Vinyl acetate	57.5		5.0	
75-01-4	Vinyl chloride	28.0		1.0	
1330-20-7	Xylenes, Total	52.8		2.0	
179601-23-1	m,p-Xylene	26.8		2.0	
95-47-6	o-Xylene	26.0		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
2037-26-5	Toluene-d8 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16173.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 13-Dec-2021 10:47:09 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0103006-006
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 13-Dec-2021 11:23:02 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1603

First Level Reviewer: dahnw Date: 13-Dec-2021 11:24:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.351	6.350	0.001	99	145415	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	82	713651	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.611	0.003	92	428908	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.781	0.000	93	258346	25.0	25.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.097	6.093	0.003	97	255387	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	7.807	7.807	0.000	93	889499	25.0	25.8	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	94	335686	25.0	25.5	
10 Dichlorodifluoromethane	85	2.087	2.087	0.000	99	230081	25.0	27.5	
13 Chloromethane	50	2.351	2.347	0.004	99	207442	25.0	25.2	
14 Vinyl chloride	62	2.476	2.476	0.000	98	248620	25.0	28.0	
15 Butadiene	54	2.495	2.492	0.003	91	229770	25.0	29.1	
18 Bromomethane	94	2.865	2.852	0.013	92	239008	25.0	26.4	
19 Chloroethane	64	2.955	2.945	0.010	99	183711	25.0	25.8	
20 Dichlorofluoromethane	67	3.190	3.183	0.007	97	370617	25.0	25.5	
21 Trichlorofluoromethane	101	3.187	3.183	0.004	97	393897	25.0	26.2	
26 Ethyl ether	59	3.479	3.476	0.003	89	167485	25.0	23.7	
28 Acrolein	56	3.679	3.675	0.004	100	185737	125.0	136.0	
29 112TCTFE	101	3.698	3.695	0.003	90	222625	25.0	33.4	
30 1,1-Dichloroethene	96	3.727	3.727	0.000	96	206257	25.0	29.5	
31 Acetone	43	3.823	3.820	0.003	100	449805	125.0	141.9	
33 Iodomethane	142	3.913	3.910	0.003	100	414188	25.0	25.0	
35 Carbon disulfide	76	3.965	3.965	0.000	99	653469	25.0	28.3	
37 3-Chloro-1-propene	41	4.084	4.080	0.004	87	267324	25.0	26.0	
38 Methyl acetate	43	4.097	4.093	0.004	96	410192	50.0	51.6	
39 Methylene Chloride	84	4.219	4.219	0.000	86	230591	25.0	24.0	
40 2-Methyl-2-propanol	59	4.318	4.315	0.003	97	383588	250.0	295.8	
41 Methyl tert-butyl ether	73	4.399	4.396	0.003	94	627069	25.0	26.7	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	94	242861	25.0	26.5	
44 Acrylonitrile	53	4.479	4.476	0.003	98	1098207	250.0	263.3	
47 Hexane	57	4.598	4.598	0.000	91	292787	25.0	35.4	
50 1,1-Dichloroethane	63	4.836	4.833	0.003	96	363935	25.0	26.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.836	4.836	0.000	97	923904	50.0	57.5	
56 2,2-Dichloropropane	77	5.328	5.328	0.000	90	270265	25.0	29.5	
58 cis-1,2-Dichloroethene	96	5.354	5.350	0.004	82	266975	25.0	26.7	
57 2-Butanone (MEK)	43	5.357	5.354	0.003	99	723016	125.0	145.4	
60 Chlorobromomethane	128	5.585	5.582	0.003	83	151889	25.0	26.1	
61 Tetrahydrofuran	42	5.598	5.595	0.003	83	185317	50.0	56.1	
62 Chloroform	83	5.630	5.627	0.003	93	415465	25.0	25.2	
64 1,1,1-Trichloroethane	97	5.772	5.768	0.004	97	380079	25.0	29.1	
65 Cyclohexane	56	5.788	5.788	0.000	86	324442	25.0	34.6	
66 Carbon tetrachloride	117	5.907	5.904	0.003	95	349946	25.0	30.3	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	95	305414	25.0	30.5	
69 Isobutyl alcohol	43	6.010	6.006	0.004	92	410968	625.0	801.9	
70 Benzene	78	6.113	6.109	0.004	97	865096	25.0	27.4	
72 1,2-Dichloroethane	62	6.164	6.164	0.000	97	307067	25.0	25.7	
73 n-Heptane	43	6.209	6.209	0.000	87	269548	25.0	33.8	
75 Trichloroethene	95	6.675	6.675	0.000	94	248934	25.0	28.0	
76 Methylcyclohexane	83	6.807	6.807	0.000	85	395965	25.0	33.7	
77 1,2-Dichloropropane	63	6.920	6.920	0.000	94	198364	25.0	28.4	
81 1,4-Dioxane	88	7.032	7.029	0.003	91	61626	500.0	601.9	
82 Dibromomethane	93	7.061	7.061	0.000	91	168430	25.0	26.5	
83 Dichlorobromomethane	83	7.183	7.180	0.003	99	306059	25.0	27.6	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	93	157216	25.0	30.2	
85 cis-1,3-Dichloropropene	75	7.579	7.576	0.003	96	358498	25.0	29.5	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.682	0.003	95	1396214	125.0	134.8	
88 Toluene	92	7.875	7.875	0.000	98	587236	25.0	26.4	
90 Ethyl methacrylate	69	8.109	8.109	0.000	87	313249	25.0	30.2	
91 trans-1,3-Dichloropropene	75	8.119	8.116	0.003	97	347472	25.0	28.7	
93 1,1,2-Trichloroethane	83	8.322	8.321	0.001	90	182266	25.0	26.7	
94 Tetrachloroethene	166	8.412	8.408	0.004	98	307018	25.0	27.6	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	97	364052	25.0	26.1	
96 2-Hexanone	43	8.502	8.502	0.000	95	1012057	125.0	143.0	
98 Chlorodibromomethane	129	8.743	8.743	0.000	89	273808	25.0	27.6	
101 Ethylene Dibromide	107	8.875	8.875	0.001	98	264024	25.0	26.4	
103 Chlorobenzene	112	9.331	9.328	0.003	98	696079	25.0	25.8	
104 Ethylbenzene	91	9.389	9.389	0.000	98	1099708	25.0	27.0	
105 1,1,1,2-Tetrachloroethane	131	9.412	9.408	0.004	95	267104	25.0	26.5	
106 m-Xylene & p-Xylene	106	9.505	9.505	0.000	98	448725	25.0	26.8	
107 o-Xylene	106	9.945	9.945	0.000	96	437157	25.0	26.0	
109 Styrene	104	9.971	9.971	0.000	95	737394	25.0	27.2	
110 Bromoform	173	10.251	10.251	0.000	98	208938	25.0	27.7	
111 Isopropylbenzene	105	10.305	10.302	0.003	95	1179814	25.0	27.6	
112 1,1,2,2-Tetrachloroethane	83	10.682	10.682	0.000	97	350186	25.0	26.1	
113 Bromobenzene	156	10.688	10.688	0.000	89	330410	25.0	25.1	
114 N-Propylbenzene	91	10.714	10.714	0.000	98	1332440	25.0	27.9	
115 trans-1,4-Dichloro-2-butene	53	10.723	10.723	0.000	76	96051	25.0	28.2	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	86	129030	25.0	26.0	
117 2-Chlorotoluene	126	10.849	10.846	0.003	98	290641	25.0	25.7	
118 1,3,5-Trimethylbenzene	105	10.875	10.874	0.001	96	974238	25.0	26.4	
119 4-Chlorotoluene	91	10.948	10.948	0.000	96	789924	25.0	26.3	
120 tert-Butylbenzene	134	11.190	11.190	0.000	91	238228	25.0	27.3	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	97	1003496	25.0	26.6	
122 sec-Butylbenzene	105	11.389	11.389	0.000	93	1280309	25.0	28.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
123 4-Isopropyltoluene	119	11.511	11.511	0.000	96	1157834	25.0	27.8	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	98	625812	25.0	25.0	
126 1,4-Dichlorobenzene	146	11.633	11.633	0.000	96	629818	25.0	24.4	
127 n-Butylbenzene	91	11.881	11.878	0.003	97	977807	25.0	28.0	
128 1,2-Dichlorobenzene	146	11.977	11.977	0.000	99	611297	25.0	24.3	
129 1,2-Dibromo-3-Chloropropane	75	12.656	12.656	0.000	92	79679	25.0	27.8	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	94	469969	25.0	24.6	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	98	213354	25.0	26.1	
132 Naphthalene	128	13.556	13.559	-0.003	96	1359724	25.0	25.6	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	451436	25.0	24.6	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00218	Amount Added: 12.50	Units: uL	
GAS CORP mix_00484	Amount Added: 12.50	Units: uL	
L_8260_SURR_00032	Amount Added: 2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added: 2.00	Units: uL	Run Reagent

Report Date: 13-Dec-2021 11:24:23 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103006.b\L16173.D

Injection Date: 13-Dec-2021 10:47:09 Instrument ID: HP5977L

Lims ID: LCS

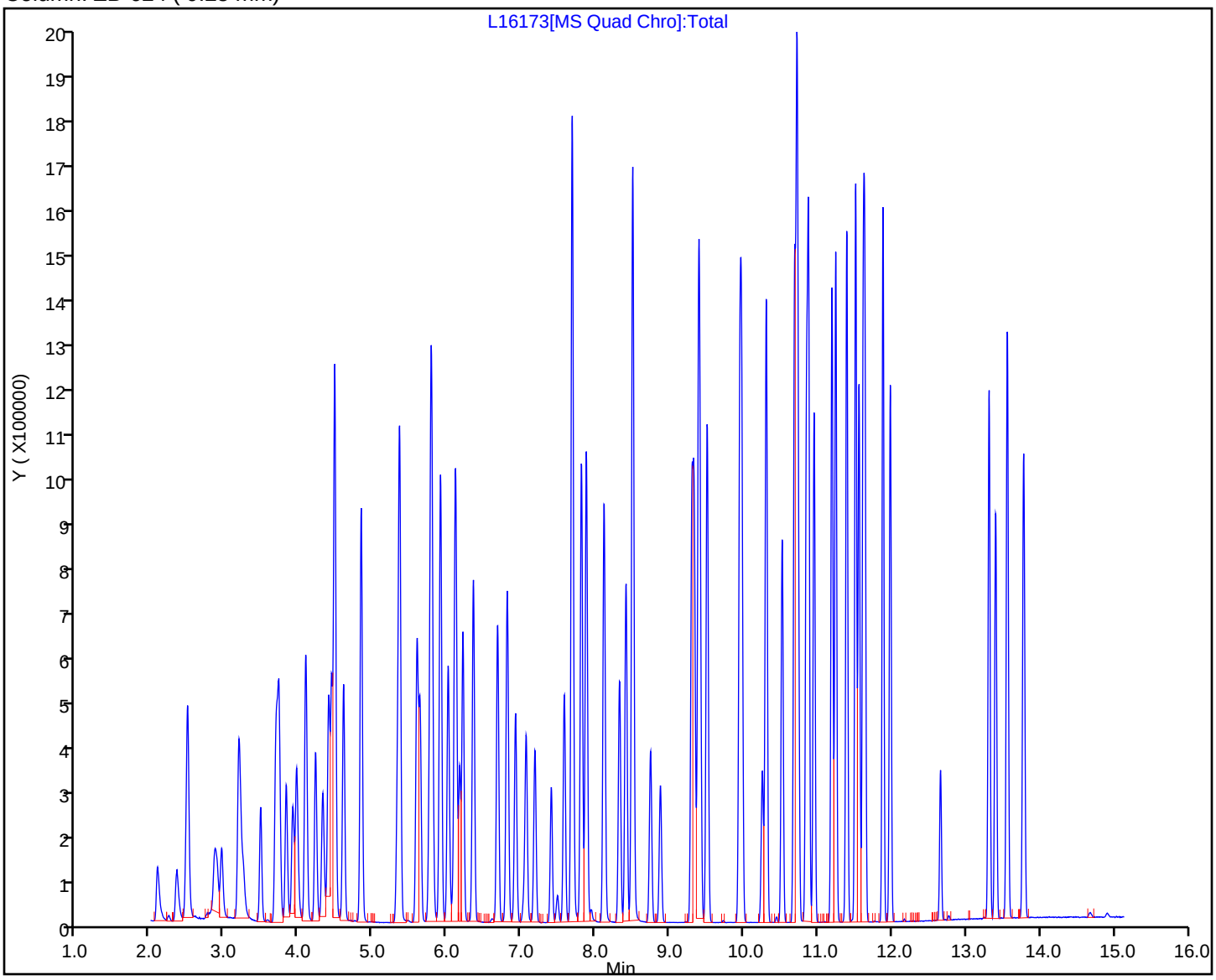
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 6

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: HP5977L Start Date: 12/08/2021 15:28

Analysis Batch Number: 608018 End Date: 12/09/2021 00:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-608018/6		12/08/2021 15:28	1	L16082.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/8		12/08/2021 16:14	1	L16084.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/9		12/08/2021 16:36	1	L16085.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/10		12/08/2021 16:58	1	L16086.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/11		12/08/2021 17:21	1	L16087.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/12		12/08/2021 17:42	1	L16088.D	ZB-624 (30) VOA 0.25(mm)
ICIS 480-608018/13		12/08/2021 18:04	1	L16089.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/14		12/08/2021 18:25	1	L16090.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/15		12/08/2021 18:47	1	L16091.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/08/2021 19:32	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/20		12/08/2021 20:38	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/21		12/08/2021 21:00	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/22		12/08/2021 21:22	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/23		12/08/2021 21:44	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/24		12/08/2021 22:06	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/25		12/08/2021 22:28	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/26		12/08/2021 22:50	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/08/2021 23:34	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-608018/29		12/08/2021 23:57	1	L16105.D	ZB-624 (30) VOA 0.25(mm)
ICV 480-608018/30		12/09/2021 00:19	1	L16106.D	ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: HP5977L Start Date: 12/13/2021 09:33

Analysis Batch Number: 608538 End Date: 12/13/2021 20:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-608538/3		12/13/2021 09:33	1	L16170.D	ZB-624 (30) VOA 0.25(mm)
CCVIS 480-608538/4		12/13/2021 10:03	1	L16171.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-608538/5		12/13/2021 10:24	1		ZB-624 (30) VOA 0.25(mm)
LCS 480-608538/6		12/13/2021 10:47	1	L16173.D	ZB-624 (30) VOA 0.25(mm)
MB 480-608538/8		12/13/2021 11:30	1	L16175.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 12:10	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 12:33	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 12:54	2		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 13:17	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 13:39	10		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 14:00	20		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 14:23	20		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 14:45	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 15:07	2		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 15:29	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 15:50	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 16:12	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 16:33	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 16:55	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 17:17	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 17:39	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 18:01	10		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 18:22	10		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 18:44	20		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 19:06	1		ZB-624 (30) VOA 0.25(mm)
480-193337-1	CD-1	12/13/2021 19:27	1	L16196.D	ZB-624 (30) VOA 0.25(mm)
480-193337-2	CD-1RA	12/13/2021 19:49	1	L16197.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 20:11	20		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 20:34	20		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608018 Batch Start Date: 12/08/21 15:28 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	3_MCP_Add_WRK 00340	8260 CORP mix 00218	BFB_WRK 00130	GAS CORP mix 00484
BFB 480-608018/6		8260C		1 uL	1 uL			1 uL	
IC 480-608018/8		8260C		5 mL	5 mL		0.4 uL		0.4 uL
IC 480-608018/9		8260C		5 mL	5 mL		1 uL		1 uL
IC 480-608018/10		8260C		5 mL	5 mL		2 uL		2 uL
IC 480-608018/11		8260C		5 mL	5 mL		5 uL		5 uL
IC 480-608018/12		8260C		5 mL	5 mL		5 uL		5 uL
ICIS 480-608018/13		8260C		5 mL	5 mL		12.5 uL		12.5 uL
IC 480-608018/14		8260C		5 mL	5 mL		25 uL		25 uL
IC 480-608018/15		8260C		5 mL	5 mL		50 uL		50 uL
ICV 480-608018/29		8260C		5 mL	5 mL				
ICV 480-608018/30		8260C		5 mL	5 mL	12.5 uL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	L_8260_IS 00034	L_8260_SURR 00032	SS 8260 CORP 00097	SS ADD CORP 00074	SS GAS CORP 00435	
BFB 480-608018/6		8260C							
IC 480-608018/8		8260C		2 uL	2 uL				
IC 480-608018/9		8260C		2 uL	2 uL				
IC 480-608018/10		8260C		2 uL	2 uL				
IC 480-608018/11		8260C		2 uL	2 uL				
IC 480-608018/12		8260C		2 uL	2 uL				
ICIS 480-608018/13		8260C		2 uL	2 uL				
IC 480-608018/14		8260C		2 uL	2 uL				
IC 480-608018/15		8260C		2 uL	2 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608018 Batch Start Date: 12/08/21 15:28 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	L_8260_IS 00034	L_8260_SURR 00032	SS 8260 CORP 00097	SS ADD CORP 00074	SS GAS CORP 00435	
ICV 480-608018/29		8260C		2 uL	2 uL	12.5 uL		12.5 uL	
ICV 480-608018/30		8260C		2 uL	2 uL		12.5 uL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608538 Batch Start Date: 12/13/21 09:33 Batch Analyst: LaPointe, Cody R

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00218	BFB_WRK 00130	GAS CORP mix 00484
BFB 480-608538/3		8260C		1 uL	1 uL			1 uL	
CCVIS 480-608538/4		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-608538/6		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-608538/8		8260C		5 mL	5 mL				
480-193337-N-1	CD-1	8260C	T	5 mL	5 mL	<2 SU			
480-193337-N-2	CD-1RA	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	L_8260_IS 00034	L_8260_SURR 00032				
BFB 480-608538/3		8260C							
CCVIS 480-608538/4		8260C		2 uL	2 uL				
LCS 480-608538/6		8260C		2 uL	2 uL				
MB 480-608538/8		8260C		2 uL	2 uL				
480-193337-N-1	CD-1	8260C	T	2 uL	2 uL				
480-193337-N-2	CD-1RA	8260C	T	2 uL	2 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG No.: 193337

Project: Towslee Landfill - Baseline

Client Sample ID	Lab Sample ID
CD-1	480-193337-1
CD-1RA	480-193337-2

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CD-1 | Lab Sample ID: 480-193337-1

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-193337-1

SDG ID.: 193337

Matrix: Water | Date Sampled: 12/09/2021 11:45

Reporting Basis: WET | Date Received: 12/11/2021 11:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	8.8	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.17	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	47.7	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.012	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	0.0040	0.0040		mg/L			1	6010C
7440-50-8	Copper	0.012	0.010		mg/L			1	6010C
7439-89-6	Iron	10.6	0.050		mg/L			1	6010C
7439-92-1	Lead	0.011	0.010		mg/L			1	6010C
7439-95-4	Magnesium	11.1	0.20		mg/L			1	6010C
7439-96-5	Manganese	1.3	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	3.3	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	4.4	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.013	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.025	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	165	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: CD-1 | Lab Sample ID: 480-193337-1

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-193337-1

SDG ID.: 193337

Matrix: Water | Date Sampled: 12/09/2021 11:45

Reporting Basis: WET | Date Received: 12/11/2021 11:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.064	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	41.3	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	8.7	0.20		mg/L			1	6010C
7439-96-5	Manganese	ND	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.86	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	4.0	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CD-1RA
Lab Sample ID: 480-193337-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193337-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/09/2021 11:15
Reporting Basis: WET
Date Received: 12/11/2021 11:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	13.2	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.29	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	55.3	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.016	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	0.0087	0.0040		mg/L			1	6010C
7440-50-8	Copper	0.017	0.010		mg/L			1	6010C
7439-89-6	Iron	20.3	0.050		mg/L			1	6010C
7439-92-1	Lead	0.026	0.010		mg/L			1	6010C
7439-95-4	Magnesium	14.7	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.78	0.0030		mg/L			1	6010C
7440-02-0	Nickel	0.020	0.010		mg/L			1	6010C
7440-09-7	Potassium	3.5	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	4.9	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.018	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.050	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	199	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: CD-1RA
Lab Sample ID: 480-193337-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193337-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/09/2021 11:15
Reporting Basis: WET
Date Received: 12/11/2021 11:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.16	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	41.5	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	8.7	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.14	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.71	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	4.5	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEI_MSS_ICV_00089 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00206

Analyte	ICV 480-609087/5 12/15/2021 11:36				CCV 480-609087/17 12/15/2021 17:41				CCV 480-609087/25 12/15/2021 18:26			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	36.21		37.5	97	49.85		50.0	100	50.29		50.0	101
Antimony	0.778		0.750	104	0.963		1.00	96	0.966		1.00	97
Arsenic	0.725		0.750	97	0.956		1.00	96	0.963		1.00	96
Barium	0.714		0.750	95	0.958		1.00	96	0.972		1.00	97
Beryllium	0.725		0.750	97	0.960		1.00	96	0.970		1.00	97
Boron	0.738		0.750	98	1.04		1.00	104	1.04		1.00	104
Cadmium	0.727		0.750	97	0.964		1.00	96	0.969		1.00	97
Calcium	36.33		37.5	97	49.59		50.0	99	49.97		50.0	100
Chromium	0.731		0.750	97	0.987		1.00	99	0.992		1.00	99
Cobalt	0.709		0.750	95	1.02		1.00	102	1.02		1.00	102
Copper	0.707		0.750	94	1.02		1.00	102	1.02		1.00	102
Iron	36.98		37.5	99	49.78		50.0	100	49.97		50.0	100
Lead	0.727		0.750	97	1.01		1.00	101	1.01		1.00	101
Magnesium	36.50		37.5	97	46.40		50.0	93	46.87		50.0	94
Manganese	0.740		0.750	99	0.966		1.00	97	0.973		1.00	97
Nickel	0.720		0.750	96	0.959		1.00	96	0.961		1.00	96
Potassium	36.28		37.5	97	48.79		50.0	98	49.08		50.0	98
Selenium	0.722		0.750	96	0.992		1.00	99	0.997		1.00	100
Silver	0.739		0.750	99	1.02		1.00	102	1.02		1.00	102
Sodium	35.80		37.5	95	47.20		50.0	94	47.68		50.0	95
Thallium	0.732		0.750	98	0.990		1.00	99	0.993		1.00	99
Vanadium	0.727		0.750	97	0.998		1.00	100	1.00		1.00	100
Zinc	0.723		0.750	96	1.01		1.00	101	1.02		1.00	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEI_MSS_ICV_00089 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00206

Analyte	CCV 480-609087/37 12/15/2021 19:10				CCV 480-609087/49 12/15/2021 19:54				CCV 480-609087/55 12/15/2021 20:40			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	50.04		50.0	100	49.99		50.0	100	50.22		50.0	100
Antimony	0.948		1.00	95	0.949		1.00	95	0.940		1.00	94
Arsenic	0.944		1.00	94	0.946		1.00	95	0.945		1.00	94
Barium	0.942		1.00	94	0.943		1.00	94	0.940		1.00	94
Beryllium	0.945		1.00	95	0.947		1.00	95	0.943		1.00	94
Boron	1.05		1.00	105	1.05		1.00	105	1.05		1.00	105
Cadmium	0.955		1.00	96	0.957		1.00	96	0.951		1.00	95
Calcium	49.91		50.0	100	49.82		50.0	100	50.12		50.0	100
Chromium	0.974		1.00	97	0.978		1.00	98	0.976		1.00	98
Cobalt	1.04		1.00	104	1.03		1.00	103	1.04		1.00	104
Copper	1.04		1.00	104	1.04		1.00	104	1.04		1.00	104
Iron	50.17		50.0	100	49.99		50.0	100	50.17		50.0	100
Lead	1.02		1.00	102	1.02		1.00	102	1.03		1.00	103
Magnesium	45.79		50.0	92	45.88		50.0	92	45.50		50.0	91
Manganese	0.959		1.00	96	0.959		1.00	96	0.954		1.00	95
Nickel	0.950		1.00	95	0.949		1.00	95	0.946		1.00	95
Potassium	48.87		50.0	98	49.05		50.0	98	48.84		50.0	98
Selenium	0.995		1.00	100	0.990		1.00	99	0.990		1.00	99
Silver	1.04		1.00	104	1.04		1.00	104	1.04		1.00	104
Sodium	46.53		50.0	93	46.79		50.0	94	46.52		50.0	93
Thallium	0.990		1.00	99	0.988		1.00	99	0.989		1.00	99
Vanadium	0.994		1.00	99	0.995		1.00	100	0.994		1.00	99
Zinc	1.01		1.00	101	1.01		1.00	101	1.01		1.00	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEI_MSS_ICV_00089 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00206

Analyte	ICV 480-609088/5 12/15/2021 11:36				CCV 480-609088/17 12/15/2021 19:54				CCV 480-609088/26 12/15/2021 20:40			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	36.21		37.5	97	49.99		50.0	100	50.22		50.0	100
Antimony	0.778		0.750	104	0.949		1.00	95	0.940		1.00	94
Arsenic	0.725		0.750	97	0.946		1.00	95	0.945		1.00	94
Barium	0.714		0.750	95	0.943		1.00	94	0.940		1.00	94
Beryllium	0.725		0.750	97	0.947		1.00	95	0.943		1.00	94
Boron	0.738		0.750	98	1.05		1.00	105	1.05		1.00	105
Cadmium	0.727		0.750	97	0.957		1.00	96	0.951		1.00	95
Calcium	36.33		37.5	97	49.82		50.0	100	50.12		50.0	100
Chromium	0.731		0.750	97	0.978		1.00	98	0.976		1.00	98
Cobalt	0.709		0.750	95	1.03		1.00	103	1.04		1.00	104
Copper	0.707		0.750	94	1.04		1.00	104	1.04		1.00	104
Iron	36.98		37.5	99	49.99		50.0	100	50.17		50.0	100
Lead	0.727		0.750	97	1.02		1.00	102	1.03		1.00	103
Magnesium	36.50		37.5	97	45.88		50.0	92	45.50		50.0	91
Manganese	0.740		0.750	99	0.959		1.00	96	0.954		1.00	95
Nickel	0.720		0.750	96	0.949		1.00	95	0.946		1.00	95
Potassium	36.28		37.5	97	49.05		50.0	98	48.84		50.0	98
Selenium	0.722		0.750	96	0.990		1.00	99	0.990		1.00	99
Silver	0.739		0.750	99	1.04		1.00	104	1.04		1.00	104
Sodium	35.80		37.5	95	46.79		50.0	94	46.52		50.0	93
Thallium	0.732		0.750	98	0.988		1.00	99	0.989		1.00	99
Vanadium	0.727		0.750	97	0.995		1.00	100	0.994		1.00	99
Zinc	0.723		0.750	96	1.01		1.00	101	1.01		1.00	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEI_MSS_ICV_00089 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00206

Analyte	CCV 480-609088/38 12/15/2021 21:25				CCV 480-609088/44 12/15/2021 22:10							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	50.37		50.0	101	50.16		50.0	100				
Antimony	0.946		1.00	95	0.943		1.00	94				
Arsenic	0.947		1.00	95	0.943		1.00	94				
Barium	0.945		1.00	94	0.938		1.00	94				
Beryllium	0.947		1.00	95	0.943		1.00	94				
Boron	1.05		1.00	105	1.05		1.00	105				
Cadmium	0.953		1.00	95	0.952		1.00	95				
Calcium	50.26		50.0	101	50.19		50.0	100				
Chromium	0.983		1.00	98	0.977		1.00	98				
Cobalt	1.05		1.00	105	1.04		1.00	104				
Copper	1.04		1.00	104	1.04		1.00	104				
Iron	50.25		50.0	101	50.29		50.0	101				
Lead	1.03		1.00	103	1.03		1.00	103				
Magnesium	45.80		50.0	92	45.56		50.0	91				
Manganese	0.960		1.00	96	0.955		1.00	96				
Nickel	0.951		1.00	95	0.950		1.00	95				
Potassium	48.99		50.0	98	48.90		50.0	98				
Selenium	0.995		1.00	99	0.992		1.00	99				
Silver	1.04		1.00	104	1.04		1.00	104				
Sodium	46.64		50.0	93	46.65		50.0	93				
Thallium	0.994		1.00	99	0.991		1.00	99				
Vanadium	1.00		1.00	100	0.996		1.00	100				
Zinc	1.01		1.00	101	1.01		1.00	101				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEI_10_CCVL_00409 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00409

Analyte	ICVL 480-609087/7 12/15/2021 11:44				CCVL 480-609087/19 12/15/2021 17:48				CCVL 480-609087/27 12/15/2021 18:33			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.221		0.200	111	0.206		0.200	103	0.215		0.200	108
Antimony	0.0201		0.0200	101	0.0184	J	0.0200	92	0.0196	J	0.0200	98
Arsenic	0.0160		0.0150	106	0.0151		0.0150	101	0.0141	J	0.0150	94
Barium	0.00215		0.00200	108	0.00204		0.00200	102	0.00205		0.00200	103
Beryllium	0.00218		0.00200	109	0.00189	J	0.00200	95	0.00192	J	0.00200	96
Boron	0.0201		0.0200	100	0.0196	J	0.0200	98	0.0188	J	0.0200	94
Cadmium	0.00220		0.00200	110	0.00188	J	0.00200	94	0.00199	J	0.00200	100
Calcium	0.508		0.500	102	0.501		0.500	100	0.501		0.500	100
Chromium	0.00432		0.00400	108	0.00352	J	0.00400	88	0.00373	J	0.00400	93
Cobalt	ND		0.00400	92	0.00370	J	0.00400	93	0.00356	J	0.00400	89
Copper	0.0110		0.0100	110	0.00985	J	0.0100	99	0.0107		0.0100	107
Iron	0.0535		0.0500	107	0.0511		0.0500	102	0.0474	J	0.0500	95
Lead	0.0106		0.0100	106	0.0106		0.0100	106	0.0107		0.0100	107
Magnesium	0.203		0.200	101	0.185	J	0.200	93	0.181	J	0.200	90
Manganese	0.00313		0.00300	104	0.00285	J	0.00300	95	0.00291	J	0.00300	97
Nickel	ND		0.0100	97	0.00941	J	0.0100	94	0.00923	J	0.0100	92
Potassium	ND		0.500	90	0.474	J	0.500	95	0.458	J	0.500	92
Selenium	ND		0.0250	96	0.0223	J	0.0250	89	0.0211	J	0.0250	84
Silver	0.00633		0.00600	106	0.00539	J	0.00600	90	0.00552	J	0.00600	92
Sodium	ND		1.01	96	0.951	J	1.01	94	0.939	J	1.01	93
Thallium	ND		0.0200	99	0.0189	J	0.0200	94	0.0187	J	0.0200	93
Vanadium	ND		0.00500	90	0.00439	J	0.00500	88	0.00457	J	0.00500	91
Zinc	0.0102		0.0100	102	0.0102		0.0100	102	0.00980	J	0.0100	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEI_10_CCVL_00409 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00409

Analyte	CCVL 480-609087/39 12/15/2021 19:17				CCVL 480-609087/51 12/15/2021 20:02				CCVL 480-609087/57 12/15/2021 20:47			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.213		0.200	107	0.213		0.200	107	0.204		0.200	102
Antimony	0.0180	J	0.0200	90	0.0176	J	0.0200	88	0.0174	J	0.0200	87
Arsenic	0.0149	J	0.0150	99	0.0158		0.0150	106	0.0150		0.0150	100
Barium	0.00203		0.00200	102	0.00206		0.00200	103	0.00201		0.00200	101
Beryllium	0.00200		0.00200	100	0.00186	J	0.00200	93	0.00197	J	0.00200	99
Boron	0.0196	J	0.0200	98	0.0186	J	0.0200	93	0.0193	J	0.0200	96
Cadmium	0.00190	J	0.00200	95	0.00180	J	0.00200	90	0.00186	J	0.00200	93
Calcium	0.500		0.500	100	0.502		0.500	100	0.509		0.500	102
Chromium	0.00366	J	0.00400	92	0.00353	J	0.00400	88	0.00384	J	0.00400	96
Cobalt	0.00372	J	0.00400	93	0.00370	J	0.00400	93	0.00374	J	0.00400	94
Copper	0.0108		0.0100	108	0.0114		0.0100	114	0.0112		0.0100	112
Iron	0.0479	J	0.0500	96	0.0488	J	0.0500	98	0.0492	J	0.0500	98
Lead	0.0112		0.0100	112	0.0114		0.0100	114	0.0110		0.0100	110
Magnesium	0.186	J	0.200	93	0.179	J	0.200	89	0.200		0.200	100
Manganese	0.00288	J	0.00300	96	0.00284	J	0.00300	95	0.00282	J	0.00300	94
Nickel	0.00944	J	0.0100	94	0.00935	J	0.0100	94	0.00933	J	0.0100	93
Potassium	0.521		0.500	104	0.465	J	0.500	93	0.479	J	0.500	96
Selenium	0.0238	J	0.0250	95	0.0237	J	0.0250	95	0.0251		0.0250	100
Silver	0.00525	J	0.00600	88	0.00488	J	0.00600	81	0.00547	J	0.00600	91
Sodium	0.924	J	1.01	92	0.922	J	1.01	92	0.921	J	1.01	91
Thallium	0.0192	J	0.0200	96	0.0201		0.0200	100	0.0184	J	0.0200	92
Vanadium	0.00452	J	0.00500	90	0.00463	J	0.00500	93	0.00466	J	0.00500	93
Zinc	0.0102		0.0100	102	0.00951	J	0.0100	95	0.0105		0.0100	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEI_10_CCVL_00409 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00409

Analyte	ICVL 480-609088/7 12/15/2021 11:44				CCVL 480-609088/19 12/15/2021 20:02				CCVL 480-609088/28 12/15/2021 20:47			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.221		0.200	111	0.213		0.200	107	0.204		0.200	102
Antimony	0.0201		0.0200	101	0.0176	J	0.0200	88	0.0174	J	0.0200	87
Arsenic	0.0160		0.0150	106	0.0158		0.0150	106	0.0150		0.0150	100
Barium	0.00215		0.00200	108	0.00206		0.00200	103	0.00201		0.00200	101
Beryllium	0.00218		0.00200	109	0.00186	J	0.00200	93	0.00197	J	0.00200	99
Boron	0.0201		0.0200	100	0.0186	J	0.0200	93	0.0193	J	0.0200	96
Cadmium	0.00220		0.00200	110	0.00180	J	0.00200	90	0.00186	J	0.00200	93
Calcium	0.508		0.500	102	0.502		0.500	100	0.509		0.500	102
Chromium	0.00432		0.00400	108	0.00353	J	0.00400	88	0.00384	J	0.00400	96
Cobalt	ND		0.00400	92	0.00370	J	0.00400	93	0.00374	J	0.00400	94
Copper	0.0110		0.0100	110	0.0114		0.0100	114	0.0112		0.0100	112
Iron	0.0535		0.0500	107	0.0488	J	0.0500	98	0.0492	J	0.0500	98
Lead	0.0106		0.0100	106	0.0114		0.0100	114	0.0110		0.0100	110
Magnesium	0.203		0.200	101	0.179	J	0.200	89	0.200		0.200	100
Manganese	0.00313		0.00300	104	0.00284	J	0.00300	95	0.00282	J	0.00300	94
Nickel	ND		0.0100	97	0.00935	J	0.0100	94	0.00933	J	0.0100	93
Potassium	ND		0.500	90	0.465	J	0.500	93	0.479	J	0.500	96
Selenium	ND		0.0250	96	0.0237	J	0.0250	95	0.0251		0.0250	100
Silver	0.00633		0.00600	106	0.00488	J	0.00600	81	0.00547	J	0.00600	91
Sodium	ND		1.01	96	0.922	J	1.01	92	0.921	J	1.01	91
Thallium	ND		0.0200	99	0.0201		0.0200	100	0.0184	J	0.0200	92
Vanadium	ND		0.00500	90	0.00463	J	0.00500	93	0.00466	J	0.00500	93
Zinc	0.0102		0.0100	102	0.00951	J	0.0100	95	0.0105		0.0100	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEI_10_CCVL_00409 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00409

Analyte	CCVL 480-609088/40 12/15/2021 21:32				CCVL 480-609088/46 12/15/2021 22:17							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.202		0.200	101	0.201		0.200	101				
Antimony	0.0177	J	0.0200	88	0.0202		0.0200	101				
Arsenic	0.0146	J	0.0150	98	0.0124	J	0.0150	83				
Barium	0.00201		0.00200	101	0.00203		0.00200	102				
Beryllium	0.00187	J	0.00200	94	0.00181	J	0.00200	91				
Boron	0.0186	J	0.0200	93	0.0182	J	0.0200	91				
Cadmium	0.00182	J	0.00200	91	0.00208		0.00200	104				
Calcium	0.502		0.500	100	0.495	J	0.500	99				
Chromium	0.00351	J	0.00400	88	0.00391	J	0.00400	98				
Cobalt	0.00363	J	0.00400	91	0.00377	J	0.00400	94				
Copper	0.0114		0.0100	114	0.0117		0.0100	117				
Iron	0.0485	J	0.0500	97	0.0478	J	0.0500	96				
Lead	0.0111		0.0100	111	0.0109		0.0100	109				
Magnesium	0.180	J	0.200	90	0.178	J	0.200	89				
Manganese	0.00272	J	0.00300	91	0.00282	J	0.00300	94				
Nickel	0.00937	J	0.0100	94	0.00915	J	0.0100	92				
Potassium	0.443	J	0.500	89	0.434	J	0.500	87				
Selenium	0.0211	J	0.0250	84	0.0239	J	0.0250	96				
Silver	0.00638		0.00600	106	0.00596	J	0.00600	99				
Sodium	0.897	J	1.01	89	1.02		1.01	101				
Thallium	0.0176	J	0.0200	88	0.0193	J	0.0200	97				
Vanadium	0.00445	J	0.00500	89	0.00456	J	0.00500	91				
Zinc	0.0100		0.0100	100	0.0102		0.0100	102				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEH_HG1_WKG_02729 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02729

Analyte	ICV 480-608687/8 12/13/2021 16:58				ICVL 480-608687/10 12/13/2021 17:01				CCV 480-608687/71 12/13/2021 18:20			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00314		0.00300	105	0.000200		0.000200	100	0.00214		0.00200	107

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEH_HG1_WKG_02729 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02729

Analyte	CCVL 480-608687/73 12/13/2021 18:23				CCV 480-608687/84 12/13/2021 18:37				CCV 480-608687/96 12/13/2021 18:53			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.000200		0.000200	100	0.00207		0.00200	104	0.00207		0.00200	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEH_HG1_WKG_02729 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02729

Analyte	CCVL 480-608687/104 12/13/2021 19:04											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.000200		0.000200	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEH_HG1_WKG_02731 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02731

Analyte	ICV 480-609041/8 12/15/2021 15:27				ICVL 480-609041/10 12/15/2021 15:30				CCV 480-609041/59 12/15/2021 16:34			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00298		0.00300	99	ND		0.000200	95	0.00201		0.00200	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEH_HG1_WKG_02731 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02731

Analyte	CCV 480-609041/71 12/15/2021 16:49				CCVL 480-609041/73 12/15/2021 16:52				CCV 480-609041/84 12/15/2021 17:06			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00198		0.00200	99	0.000190	J	0.000200	95	0.00197		0.00200	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

ICV Source: MEH_HG1_WKG_02731 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02731

	CCVL 480-609041/108 12/15/2021 17:39											
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.000180	J	0.000200	90								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	ICB 480-609087/6 12/15/2021 11:40		CCB 480-609087/18 12/15/2021 17:44		CCB 480-609087/26 12/15/2021 18:29		CCB 480-609087/38 12/15/2021 19:13	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Boron	0.020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	CCB 480-609087/50 12/15/2021 19:58		CCB 480-609087/56 12/15/2021 20:43					
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND					
Antimony	0.020	ND		ND					
Arsenic	0.015	ND		ND					
Barium	0.0020	ND		ND					
Beryllium	0.0020	ND		ND					
Boron	0.020	ND		ND					
Cadmium	0.0020	ND		ND					
Calcium	0.50	ND		ND					
Chromium	0.0040	ND		ND					
Cobalt	0.0040	ND		ND					
Copper	0.010	ND		ND					
Iron	0.050	ND		ND					
Lead	0.010	ND		ND					
Magnesium	0.20	ND		ND					
Manganese	0.0030	ND		ND					
Nickel	0.010	ND		ND					
Potassium	0.50	ND		ND					
Selenium	0.025	ND		ND					
Silver	0.0060	ND		ND					
Sodium	1.0	ND		ND					
Thallium	0.020	ND		ND					
Vanadium	0.0050	ND		ND					
Zinc	0.010	ND		ND					

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	ICB 480-609088/6 12/15/2021 11:40		CCB 480-609088/18 12/15/2021 19:58		CCB 480-609088/27 12/15/2021 20:43		CCB 480-609088/39 12/15/2021 21:28	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Boron	0.020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	CCB 480-609088/45 12/15/2021 22:14							
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND							
Antimony	0.020	ND							
Arsenic	0.015	ND							
Barium	0.0020	ND							
Beryllium	0.0020	ND							
Boron	0.020	ND							
Cadmium	0.0020	ND							
Calcium	0.50	ND							
Chromium	0.0040	ND							
Cobalt	0.0040	ND							
Copper	0.010	ND							
Iron	0.050	ND							
Lead	0.010	ND							
Magnesium	0.20	ND							
Manganese	0.0030	ND							
Nickel	0.010	ND							
Potassium	0.50	ND							
Selenium	0.025	ND							
Silver	0.0060	ND							
Sodium	1.0	ND							
Thallium	0.020	ND							
Vanadium	0.0050	ND							
Zinc	0.010	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	ICB 480-608687/9 12/13/2021 17:00		CCB 480-608687/72 12/13/2021 18:22		CCB 480-608687/85 12/13/2021 18:39		CCB 480-608687/97 12/13/2021 18:54	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	ICB 480-609041/9 12/15/2021 15:28		CCB 480-609041/60 12/15/2021 16:35		CCB 480-609041/72 12/15/2021 16:50		CCB 480-609041/85 12/15/2021 17:08	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Concentration Units: mg/L Lab Sample ID: MB 480-608733/1-A

Instrument Code: ICAP2 Batch No.: 609087

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-42-8	Boron	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	ND			6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Concentration Units: mg/L Lab Sample ID: MB 480-608766/1-B

Instrument Code: ICAP2 Batch No.: 609088

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-42-8	Boron	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	ND			6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Concentration Units: mg/L Lab Sample ID: MB 480-608605/1-A

Instrument Code: LEEMAN5 Batch No.: 608687

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Concentration Units: mg/L Lab Sample ID: MB 480-608766/1-C

Instrument Code: LEEMAN5 Batch No.: 609041

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab Sample ID: ICSA 480-609087/8 Instrument ID: ICAP2

Lab File ID: I2121521A-5.asc ICS Source: MEI_MSS_ICSA_00035

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**514**	**103**
Antimony		**-0.0069**	
Arsenic		**-0.0030**	
Barium	**0.0120**	**0.0141**	
Beryllium		**0.0000**	
Boron		**-0.0017**	
Cadmium		**0.0007**	
Calcium	**500**	**487**	**97**
Chromium		**0.0021**	
Cobalt		**-0.0001**	
Copper		**-0.0023**	
Iron	**200**	**194**	**97**
Lead		**-0.0055**	
Magnesium	**500**	**532**	**106**
Manganese		**-0.0002**	
Nickel		**0.0011**	
Potassium		**0.0314**	
Selenium		**0.0068**	
Silver		**-0.0012**	
Sodium		**0.0683**	
Thallium		**0.0001**	
Vanadium		**-0.0005**	
Zinc		**0.0021**	
Lithium		*0.0189*	
Molybdenum		*-0.0015*	
Silicon		*-0.0232*	
Sulfur		*-0.134*	
Tin		*0.0002*	
Titanium		*0.0034*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab Sample ID: ICSA 480-609088/8 Instrument ID: ICAP2

Lab File ID: I2121521A-6.asc ICS Source: MEI_MSS_ICSA_00035

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**514**	**103**
Antimony		**-0.0069**	
Arsenic		**-0.0030**	
Barium	**0.0120**	**0.0141**	
Beryllium		**0.0000**	
Boron		**-0.0017**	
Cadmium		**0.0007**	
Calcium	**500**	**487**	**97**
Chromium		**0.0021**	
Cobalt		**-0.0001**	
Copper		**-0.0023**	
Iron	**200**	**194**	**97**
Lead		**-0.0055**	
Magnesium	**500**	**532**	**106**
Manganese		**-0.0002**	
Nickel		**0.0011**	
Potassium		**0.0314**	
Selenium		**0.0068**	
Silver		**-0.0012**	
Sodium		**0.0683**	
Thallium		**0.0001**	
Vanadium		**-0.0005**	
Zinc		**0.0021**	
Lithium		*0.0189*	
Molybdenum		*-0.0015*	
Silicon		*-0.0232*	
Sulfur		*-0.134*	
Tin		*0.0002*	
Titanium		*0.0034*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab Sample ID: ICSAB 480-609087/9 Instrument ID: ICAP2

Lab File ID: I2121521A-5.asc ICS Source: MEI_MSS_ICSAB_00030

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Aluminum	**500**	**501**	**100**
Antimony	**0.500**	**0.503**	**101**
Arsenic	**0.500**	**0.506**	**101**
Barium	**0.513**	**0.535**	**104**
Beryllium	**0.250**	**0.250**	**100**
Boron	**5.00**	**4.88**	**98**
Cadmium	**0.500**	**0.521**	**104**
Calcium	**500**	**481**	**96**
Chromium	**0.500**	**0.502**	**100**
Cobalt	**0.500**	**0.512**	**102**
Copper	**0.500**	**0.519**	**104**
Iron	**200**	**190**	**95**
Lead	**0.500**	**0.514**	**103**
Magnesium	**500**	**518**	**104**
Manganese	**0.501**	**0.497**	**99**
Nickel	**0.501**	**0.508**	**101**
Potassium	**5.00**	**5.15**	**103**
Selenium	**0.500**	**0.490**	**98**
Silver	**0.500**	**0.550**	**110**
Sodium	**5.00**	**5.04**	**101**
Thallium	**0.500**	**0.506**	**101**
Vanadium	**0.500**	**0.504**	**101**
Zinc	**0.501**	**0.479**	**96**
Lithium		*0.0177*	
Molybdenum	*0.500*	*0.497*	*99*
Silicon	*5.00*	*4.88*	*98*
Strontium	*0.500*	*0.504*	*101*
Sulfur		*-0.135*	
Tin	*0.500*	*0.514*	*103*
Titanium	*0.500*	*0.517*	*103*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Lab Sample ID: ICSAB 480-609088/9 Instrument ID: ICAP2

Lab File ID: I2121521A-6.asc ICS Source: MEI_MSS_ICSAB_00030

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**501**	**100**
Antimony	**0.500**	**0.503**	**101**
Arsenic	**0.500**	**0.506**	**101**
Barium	**0.513**	**0.535**	**104**
Beryllium	**0.250**	**0.250**	**100**
Boron	**5.00**	**4.88**	**98**
Cadmium	**0.500**	**0.521**	**104**
Calcium	**500**	**481**	**96**
Chromium	**0.500**	**0.502**	**100**
Cobalt	**0.500**	**0.512**	**102**
Copper	**0.500**	**0.519**	**104**
Iron	**200**	**190**	**95**
Lead	**0.500**	**0.514**	**103**
Magnesium	**500**	**518**	**104**
Manganese	**0.501**	**0.497**	**99**
Nickel	**0.501**	**0.508**	**101**
Potassium	**5.00**	**5.15**	**103**
Selenium	**0.500**	**0.490**	**98**
Silver	**0.500**	**0.550**	**110**
Sodium	**5.00**	**5.04**	**101**
Thallium	**0.500**	**0.506**	**101**
Vanadium	**0.500**	**0.504**	**101**
Zinc	**0.501**	**0.479**	**96**
Lithium		*0.0177*	
Molybdenum	*0.500*	*0.497*	*99*
Silicon	*5.00*	*4.88*	*98*
Strontium	*0.500*	*0.504*	*101*
Sulfur		*-0.135*	
Tin	*0.500*	*0.514*	*103*
Titanium	*0.500*	*0.517*	*103*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-608733/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

Sample Matrix: Water LCS Source: MED_02_W2_00067

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10.0	10.08		101	80	120		6010C
Antimony	0.200	0.209		105	80	120		6010C
Arsenic	0.200	0.202		101	80	120		6010C
Barium	0.200	0.210		105	80	120		6010C
Beryllium	0.200	0.204		102	80	120		6010C
Boron	0.200	0.206		103	80	120		6010C
Cadmium	0.200	0.196		98	80	120		6010C
Calcium	10.0	10.03		100	80	120		6010C
Chromium	0.200	0.197		99	80	120		6010C
Cobalt	0.200	0.201		100	80	120		6010C
Copper	0.200	0.208		104	80	120		6010C
Iron	10.0	10.34		103	80	120		6010C
Lead	0.200	0.205		103	80	120		6010C
Magnesium	10.0	9.67		97	80	120		6010C
Manganese	0.200	0.200		100	80	120		6010C
Nickel	0.200	0.188		94	80	120		6010C
Potassium	10.0	9.88		99	80	120		6010C
Selenium	0.200	0.197		98	80	120		6010C
Silver	0.0500	0.0502		100	80	120		6010C
Sodium	10.0	9.40		94	80	120		6010C
Thallium	0.200	0.201		101	80	120		6010C
Vanadium	0.200	0.200		100	80	120		6010C
Zinc	0.200	0.204		102	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-608766/2-B

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

Sample Matrix: Water LCS Source: MED_02_W2_00067

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10.0	9.94		99	80	120		6010C
Antimony	0.200	0.199		99	80	120		6010C
Arsenic	0.200	0.194		97	80	120		6010C
Barium	0.200	0.206		103	80	120		6010C
Beryllium	0.200	0.194		97	80	120		6010C
Boron	0.200	0.205		103	80	120		6010C
Cadmium	0.200	0.188		94	80	120		6010C
Calcium	10.0	9.74		97	80	120		6010C
Chromium	0.200	0.190		95	80	120		6010C
Cobalt	0.200	0.199		99	80	120		6010C
Copper	0.200	0.206		103	80	120		6010C
Iron	10.0	10.24		102	80	120		6010C
Lead	0.200	0.203		102	80	120		6010C
Magnesium	10.0	9.24		92	80	120		6010C
Manganese	0.200	0.193		97	80	120		6010C
Nickel	0.200	0.181		91	80	120		6010C
Potassium	10.0	9.63		96	80	120		6010C
Selenium	0.200	0.190		95	80	120		6010C
Silver	0.0500	0.0501		100	80	120		6010C
Sodium	10.0	9.00		90	80	120		6010C
Thallium	0.200	0.197		99	80	120		6010C
Vanadium	0.200	0.194		97	80	120		6010C
Zinc	0.200	0.201		100	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-608605/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_02635

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00683		102	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-608766/2-C

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_02731

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00660		99	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: ICAP2

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: ICAP2

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A MDL Date: 06/21/2021 17:21

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A XMDL Date: 06/21/2021 17:23

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A MDL Date: 06/21/2021 17:21

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A XMDL Date: 06/21/2021 17:23

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2340B MDL Date: 08/28/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Hardness as calcium carbonate		0.5	0.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2340B XMDL Date: 08/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Hardness as calcium carbonate		0.5	0.1

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP2 Date: 03/12/2020

Analyte	Wave Length	Al	As	B	Ca	Ce	Co	Cr	Cu	Fe	Mg	Mn	Mo	S	Si
Aluminum	308.215														
Antimony	206.833	-0.000007						0.010493		-0.000007					
Arsenic	189.042							-0.003		-0.000017					
Barium	455.403														
Beryllium	313.042														
Boron	208.959												0.031758		
Cadmium	228.802		0.003547							-0.000007					
Calcium	317.933														
Chromium	267.716	-0.000004								-0.000004		0.000150			
Cobalt	228.616	0.000012											0.000776		
Copper	327.396				0.000024										
Iron	259.940														
Lead	220.353	-0.000057							0.000881	0.000029			-0.001918		0.003267
Lithium	670.784				0.00009										
Magnesium	279.079											-0.003351			
Manganese	257.610	0.000005								0.000003					
Molybdenum	202.030														
Nickel	231.604									0.000020					
Potassium	766.490														
Selenium	196.090									0.000015		0.000390			
Silicon	288.158														
Silver	328.068					-0.003915				-0.000005		0.000025			
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856						0.003145					0.000390165			
Tin	189.989														
Titanium	334.904												0.000971565		

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP2 Date: 03/12/2020

Analyte	Wave Length	Al	As	B	Ca	Ce	Co	Cr	Cu	Fe	Mg	Mn	Mo	S	Si
Vanadium	292.402									0.000035917			-0.010240		
Zinc	206.200							-0.001388							

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP2 Date: 03/12/2020

Analyte	Wave Length	Ti	V	Zn											
Aluminum	308.215		0.296448												
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616	0.002076													
Copper	327.396	-0.001581													
Iron	259.940														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856		-0.0062377	0.000229											
Tin	189.989														
Titanium	334.904														
Vanadium	292.402	0.000388													
Zinc	206.200														

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193337-1

SDG No.: 193337

Instrument ID: ICAP2 Date: 08/01/2019 10:00

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	600	6010C
Antimony	15	10	6010C
Arsenic	15	5	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Boron	15	20	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	10	6010C
Cobalt	15	20	6010C
Copper	15	25	6010C
Iron	15	600	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	10	6010C
Potassium	15	600	6010C
Selenium	15	60	6010C
Silver	15	3	6010C
Sodium	15	1000	6010C
Thallium	15	20	6010C
Vanadium	15	5	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193337-1

SDG No.: 193337

Instrument ID: LEEMAN5 Date: 10/09/2018 16:19

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	20	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-608733/1-A	12/15/2021 08:44	608733		50	50
LCS 480-608733/2-A	12/15/2021 08:44	608733		50	50
480-193337-1	12/15/2021 08:44	608733		50	50
480-193337-2	12/15/2021 08:44	608733		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-608766/1-B	12/15/2021 08:40	608771		50	50
LCS 480-608766/2-B	12/15/2021 08:40	608771		50	50
480-193337-2	12/15/2021 08:40	608771		50	50
480-193337-1	12/15/2021 08:40	608771		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-608605/1-A	12/13/2021 13:55	608605		30	50
LCS 480-608605/2-A	12/13/2021 13:55	608605		30	50
480-193337-1	12/13/2021 13:55	608605		30	50
480-193337-2	12/13/2021 13:55	608605		30	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-608766/1-C	12/15/2021 12:48	608977		30	50
LCS 480-608766/2-C	12/15/2021 12:48	608977		30	50
480-193337-2	12/15/2021 12:48	608977		30	50
480-193337-1	12/15/2021 12:48	608977		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: ICAP2 Method: 6010C

Start Date: 12/15/2021 11:22 End Date: 12/15/2021 20:47

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se
ICIS 480-609087/1	1		11:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-609087/2			11:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-609087/3			11:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-609087/4			11:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-609087/5	1		11:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-609087/6	1		11:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-609087/7	1		11:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-609087/8	1		11:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-609087/9	1		11:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			11:55																				
ZZZZZZ			11:59																				
ZZZZZZ			12:03																				
ZZZZZZ			12:07																				
ZZZZZZ			12:10																				
CCV 480-609087/15			12:14																				
CCB 480-609087/16			12:18																				
CCV 480-609087/17	1		17:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609087/18	1		17:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609087/19	1		17:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-608733/1-A	1	T	18:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 480-608733/2-A	1	T	18:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			18:14																				
ZZZZZZ			18:18																				
ZZZZZZ			18:22																				
CCV 480-609087/25	1		18:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609087/26	1		18:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609087/27	1		18:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			18:37																				
ZZZZZZ			18:40																				
ZZZZZZ			18:44																				
ZZZZZZ			18:48																				
ZZZZZZ			18:51																				
ZZZZZZ			18:55																				
ZZZZZZ			18:59																				
ZZZZZZ			19:02																				
ZZZZZZ			19:06																				
CCV 480-609087/37	1		19:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609087/38	1		19:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609087/39	1		19:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			19:21																				
ZZZZZZ			19:25																				
ZZZZZZ			19:28																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: ICAP2 Method: 6010C

Start Date: 12/15/2021 11:22 End Date: 12/15/2021 20:47

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se
ZZZZZZ			19:32																				
ZZZZZZ			19:36																				
ZZZZZZ			19:40																				
ZZZZZZ			19:43																				
ZZZZZZ			19:47																				
ZZZZZZ			19:51																				
CCV 480-609087/49	1		19:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609087/50	1		19:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609087/51	1		20:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193337-1	1	T	20:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193337-2	1	T	20:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:13																				
CCV 480-609087/55	1		20:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609087/56	1		20:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609087/57	1		20:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: ICAP2 Method: 6010C

Start Date: 12/15/2021 11:22 End Date: 12/15/2021 20:47

Lab Sample ID	D/F	Type	Time	Analytes																				
				Tl	V	Zn																		
ICIS 480-609087/1	1		11:22	X	X	X																		
IC 480-609087/2			11:25	X	X	X																		
IC 480-609087/3			11:29	X	X	X																		
IC 480-609087/4			11:33	X	X	X																		
ICV 480-609087/5	1		11:36	X	X	X																		
ICB 480-609087/6	1		11:40	X	X	X																		
ICVL 480-609087/7	1		11:44	X	X	X																		
ICSA 480-609087/8	1		11:47	X	X	X																		
ICSAB 480-609087/9	1		11:51	X	X	X																		
ZZZZZZ			11:55																					
ZZZZZZ			11:59																					
ZZZZZZ			12:03																					
ZZZZZZ			12:07																					
ZZZZZZ			12:10																					
CCV 480-609087/15			12:14																					
CCB 480-609087/16			12:18																					
CCV 480-609087/17	1		17:41	X	X	X																		
CCB 480-609087/18	1		17:44	X	X	X																		
CCVL 480-609087/19	1		17:48	X	X	X																		
MB 480-608733/1-A	1	T	18:07	X	X	X																		
LCS 480-608733/2-A	1	T	18:11	X	X	X																		
ZZZZZZ			18:14																					
ZZZZZZ			18:18																					
ZZZZZZ			18:22																					
CCV 480-609087/25	1		18:26	X	X	X																		
CCB 480-609087/26	1		18:29	X	X	X																		
CCVL 480-609087/27	1		18:33	X	X	X																		
ZZZZZZ			18:37																					
ZZZZZZ			18:40																					
ZZZZZZ			18:44																					
ZZZZZZ			18:48																					
ZZZZZZ			18:51																					
ZZZZZZ			18:55																					
ZZZZZZ			18:59																					
ZZZZZZ			19:02																					
ZZZZZZ			19:06																					
CCV 480-609087/37	1		19:10	X	X	X																		
CCB 480-609087/38	1		19:13	X	X	X																		
CCVL 480-609087/39	1		19:17	X	X	X																		
ZZZZZZ			19:21																					
ZZZZZZ			19:25																					
ZZZZZZ			19:28																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: ICAP2 Method: 6010C

Start Date: 12/15/2021 11:22 End Date: 12/15/2021 20:47

Lab Sample ID	D / F	Type	Time	Analytes																				
				Tl	V	Zn																		
ZZZZZZ			19:32																					
ZZZZZZ			19:36																					
ZZZZZZ			19:40																					
ZZZZZZ			19:43																					
ZZZZZZ			19:47																					
ZZZZZZ			19:51																					
CCV 480-609087/49	1		19:54	X	X	X																		
CCB 480-609087/50	1		19:58	X	X	X																		
CCVL 480-609087/51	1		20:02	X	X	X																		
480-193337-1	1	T	20:06	X	X	X																		
480-193337-2	1	T	20:09	X	X	X																		
ZZZZZZ			20:13																					
CCV 480-609087/55	1		20:40	X	X	X																		
CCB 480-609087/56	1		20:43	X	X	X																		
CCVL 480-609087/57	1		20:47	X	X	X																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: ICAP2 Method: 6010C

Start Date: 12/15/2021 11:22 End Date: 12/15/2021 22:17

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se
ICIS 480-609088/1	1		11:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-609088/2			11:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-609088/3			11:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-609088/4			11:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-609088/5	1		11:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-609088/6	1		11:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-609088/7	1		11:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-609088/8	1		11:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-609088/9	1		11:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			11:55																				
ZZZZZZ			11:59																				
ZZZZZZ			12:03																				
ZZZZZZ			12:07																				
ZZZZZZ			12:10																				
CCV 480-609088/15			12:14																				
CCB 480-609088/16			12:18																				
CCV 480-609088/17	1		19:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609088/18	1		19:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609088/19	1		20:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-608766/1-B	1	D	20:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 480-608766/2-B	1	D	20:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:24																				
ZZZZZZ			20:28																				
ZZZZZZ			20:32																				
ZZZZZZ			20:36																				
CCV 480-609088/26	1		20:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609088/27	1		20:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609088/28	1		20:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:51																				
ZZZZZZ			20:55																				
ZZZZZZ			20:59																				
ZZZZZZ			21:03																				
ZZZZZZ			21:06																				
ZZZZZZ			21:10																				
ZZZZZZ			21:14																				
ZZZZZZ			21:17																				
ZZZZZZ			21:21																				
CCV 480-609088/38	1		21:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609088/39	1		21:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609088/40	1		21:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			21:36																				
480-193337-2	1	D	21:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: ICAP2 Method: 6010C

Start Date: 12/15/2021 11:22 End Date: 12/15/2021 22:17

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se
480-193337-1	1	D	21:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-609088/44	1		22:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609088/45	1		22:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609088/46	1		22:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: ICAP2 Method: 6010C

Start Date: 12/15/2021 11:22 End Date: 12/15/2021 22:17

Lab Sample ID	D/F	Type	Time	Analytes																			
				Tl	V	Zn																	
ICIS 480-609088/1	1		11:22	X	X	X																	
IC 480-609088/2			11:25	X	X	X																	
IC 480-609088/3			11:29	X	X	X																	
IC 480-609088/4			11:33	X	X	X																	
ICV 480-609088/5	1		11:36	X	X	X																	
ICB 480-609088/6	1		11:40	X	X	X																	
ICVL 480-609088/7	1		11:44	X	X	X																	
ICSA 480-609088/8	1		11:47	X	X	X																	
ICSAB 480-609088/9	1		11:51	X	X	X																	
ZZZZZZ			11:55																				
ZZZZZZ			11:59																				
ZZZZZZ			12:03																				
ZZZZZZ			12:07																				
ZZZZZZ			12:10																				
CCV 480-609088/15			12:14																				
CCB 480-609088/16			12:18																				
CCV 480-609088/17	1		19:54	X	X	X																	
CCB 480-609088/18	1		19:58	X	X	X																	
CCVL 480-609088/19	1		20:02	X	X	X																	
MB 480-608766/1-B	1	D	20:17	X	X	X																	
LCS 480-608766/2-B	1	D	20:21	X	X	X																	
ZZZZZZ			20:24																				
ZZZZZZ			20:28																				
ZZZZZZ			20:32																				
ZZZZZZ			20:36																				
CCV 480-609088/26	1		20:40	X	X	X																	
CCB 480-609088/27	1		20:43	X	X	X																	
CCVL 480-609088/28	1		20:47	X	X	X																	
ZZZZZZ			20:51																				
ZZZZZZ			20:55																				
ZZZZZZ			20:59																				
ZZZZZZ			21:03																				
ZZZZZZ			21:06																				
ZZZZZZ			21:10																				
ZZZZZZ			21:14																				
ZZZZZZ			21:17																				
ZZZZZZ			21:21																				
CCV 480-609088/38	1		21:25	X	X	X																	
CCB 480-609088/39	1		21:28	X	X	X																	
CCVL 480-609088/40	1		21:32	X	X	X																	
ZZZZZZ			21:36																				
480-193337-2	1	D	21:40	X	X	X																	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: ICAP2 Method: 6010C

Start Date: 12/15/2021 11:22 End Date: 12/15/2021 22:17

Lab Sample ID	D / F	Type	Time	Analytes																			
				Tl	V	Zn																	
480-193337-1	1	D	21:43	X	X	X																	
CCV 480-609088/44	1		22:10	X	X	X																	
CCB 480-609088/45	1		22:14	X	X	X																	
CCVL 480-609088/46	1		22:17	X	X	X																	

Prep Types

D = Dissolved

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 12/13/2021 16:49 End Date: 12/13/2021 19:04

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:49																				
IC 480-608683/1-A			16:50	X																			
IC 480-608683/2-A			16:52	X																			
IC 480-608683/3-A			16:53	X																			
IC 480-608683/4-A			16:54	X																			
IC 480-608683/5-A			16:56	X																			
IC 480-608683/6-A			16:57	X																			
ICV 480-608687/8	1		16:58	X																			
ICB 480-608687/9	1		17:00	X																			
ICVL 480-608687/10	1		17:01	X																			
CCV 480-608687/11			17:02																				
CCB 480-608687/12			17:04																				
ZZZZZZ			17:05																				
ZZZZZZ			17:06																				
ZZZZZZ			17:07																				
ZZZZZZ			17:09																				
ZZZZZZ			17:10																				
ZZZZZZ			17:11																				
ZZZZZZ			17:13																				
ZZZZZZ			17:14																				
ZZZZZZ			17:15																				
ZZZZZZ			17:17																				
CCV 480-608687/23			17:18																				
CCB 480-608687/24			17:19																				
ZZZZZZ			17:20																				
ZZZZZZ			17:22																				
ZZZZZZ			17:23																				
ZZZZZZ			17:24																				
ZZZZZZ			17:26																				
ZZZZZZ			17:27																				
ZZZZZZ			17:28																				
ZZZZZZ			17:30																				
ZZZZZZ			17:31																				
ZZZZZZ			17:32																				
CCV 480-608687/35			17:34																				
CCB 480-608687/36			17:35																				
ZZZZZZ			17:36																				
ZZZZZZ			17:37																				
ZZZZZZ			17:39																				
ZZZZZZ			17:40																				
ZZZZZZ			17:41																				
ZZZZZZ			17:43																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 12/13/2021 16:49 End Date: 12/13/2021 19:04

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			17:44																				
ZZZZZZ			17:45																				
ZZZZZZ			17:47																				
ZZZZZZ			17:48																				
CCV 480-608687/47			17:49																				
CCB 480-608687/48			17:50																				
ZZZZZZ			17:52																				
ZZZZZZ			17:53																				
ZZZZZZ			17:54																				
ZZZZZZ			17:56																				
ZZZZZZ			17:57																				
ZZZZZZ			17:58																				
ZZZZZZ			18:00																				
ZZZZZZ			18:01																				
ZZZZZZ			18:02																				
ZZZZZZ			18:03																				
CCV 480-608687/59			18:05																				
CCB 480-608687/60			18:06																				
ZZZZZZ			18:07																				
ZZZZZZ			18:09																				
ZZZZZZ			18:10																				
ZZZZZZ			18:11																				
ZZZZZZ			18:13																				
ZZZZZZ			18:14																				
ZZZZZZ			18:15																				
ZZZZZZ			18:17																				
ZZZZZZ			18:18																				
ZZZZZZ			18:19																				
CCV 480-608687/71	1		18:20	X																			
CCB 480-608687/72	1		18:22	X																			
CCVL 480-608687/73	1		18:23	X																			
MB 480-608605/1-A	1	T	18:24	X																			
LCS 480-608605/2-A	1	T	18:26	X																			
ZZZZZZ			18:27																				
ZZZZZZ			18:28																				
ZZZZZZ			18:30																				
ZZZZZZ			18:31																				
ZZZZZZ			18:32																				
ZZZZZZ			18:34																				
ZZZZZZ			18:35																				
480-193337-1	1	T	18:36	X																			
CCV 480-608687/84	1		18:37	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 12/13/2021 16:49 End Date: 12/13/2021 19:04

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCB 480-608687/85	1		18:39	X																			
480-193337-2	1	T	18:40	X																			
ZZZZZZ			18:41																				
ZZZZZZ			18:43																				
ZZZZZZ			18:44																				
ZZZZZZ			18:45																				
ZZZZZZ			18:47																				
ZZZZZZ			18:48																				
ZZZZZZ			18:49																				
ZZZZZZ			18:51																				
ZZZZZZ			18:52																				
CCV 480-608687/96	1		18:53	X																			
CCB 480-608687/97	1		18:54	X																			
ZZZZZZ			18:56																				
ZZZZZZ			18:57																				
ZZZZZZ			18:58																				
ZZZZZZ			19:00																				
CCV 480-608687/102			19:01																				
CCB 480-608687/103			19:02																				
CCVL 480-608687/104	1		19:04	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 12/15/2021 15:17 End Date: 12/15/2021 17:39

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			15:17																				
IC 480-609037/1-A			15:19	X																			
IC 480-609037/2-A			15:20	X																			
IC 480-609037/3-A			15:22	X																			
IC 480-609037/4-A			15:23	X																			
IC 480-609037/5-A			15:24	X																			
IC 480-609037/6-A			15:26	X																			
ICV 480-609041/8	1		15:27	X																			
ICB 480-609041/9	1		15:28	X																			
ICVL 480-609041/10	1		15:30	X																			
CCV 480-609041/11			15:31																				
CCB 480-609041/12			15:32																				
ZZZZZZ			15:34																				
ZZZZZZ			15:35																				
ZZZZZZ			15:36																				
ZZZZZZ			15:37																				
ZZZZZZ			15:39																				
ZZZZZZ			15:40																				
ZZZZZZ			15:41																				
ZZZZZZ			15:43																				
ZZZZZZ			15:44																				
ZZZZZZ			15:45																				
CCV 480-609041/23			15:47																				
CCB 480-609041/24			15:48																				
ZZZZZZ			15:49																				
ZZZZZZ			15:51																				
ZZZZZZ			15:52																				
ZZZZZZ			15:53																				
ZZZZZZ			15:54																				
ZZZZZZ			15:56																				
ZZZZZZ			15:57																				
ZZZZZZ			15:58																				
ZZZZZZ			16:00																				
ZZZZZZ			16:01																				
CCV 480-609041/35			16:02																				
CCB 480-609041/36			16:04																				
ZZZZZZ			16:05																				
ZZZZZZ			16:06																				
ZZZZZZ			16:07																				
ZZZZZZ			16:09																				
ZZZZZZ			16:10																				
ZZZZZZ			16:11																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 12/15/2021 15:17 End Date: 12/15/2021 17:39

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:13																				
ZZZZZZ			16:14																				
ZZZZZZ			16:15																				
ZZZZZZ			16:17																				
CCV 480-609041/47			16:18																				
CCB 480-609041/48			16:19																				
ZZZZZZ			16:20																				
ZZZZZZ			16:22																				
ZZZZZZ			16:23																				
ZZZZZZ			16:24																				
ZZZZZZ			16:26																				
ZZZZZZ			16:27																				
ZZZZZZ			16:28																				
ZZZZZZ			16:30																				
ZZZZZZ			16:31																				
ZZZZZZ			16:32																				
CCV 480-609041/59	1		16:34	X																			
CCB 480-609041/60	1		16:35	X																			
ZZZZZZ			16:36																				
ZZZZZZ			16:37																				
MB 480-608766/1-C	1	D	16:39	X																			
LCS 480-608766/2-C	1	D	16:40	X																			
ZZZZZZ			16:41																				
ZZZZZZ			16:43																				
ZZZZZZ			16:44																				
ZZZZZZ			16:45																				
ZZZZZZ			16:47																				
ZZZZZZ			16:48																				
CCV 480-609041/71	1		16:49	X																			
CCB 480-609041/72	1		16:50	X																			
CCVL 480-609041/73	1		16:52	X																			
ZZZZZZ			16:53																				
ZZZZZZ			16:54																				
ZZZZZZ			16:56																				
ZZZZZZ			16:57																				
ZZZZZZ			16:58																				
ZZZZZZ			17:00																				
ZZZZZZ			17:01																				
480-193337-2	1	D	17:02	X																			
480-193337-1	1	D	17:04	X																			
ZZZZZZ			17:05																				
CCV 480-609041/84	1		17:06	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 12/15/2021 15:17 End Date: 12/15/2021 17:39

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCB 480-609041/85	1		17:08	X																			
ZZZZZZ			17:09																				
ZZZZZZ			17:10																				
ZZZZZZ			17:11																				
ZZZZZZ			17:13																				
ZZZZZZ			17:14																				
ZZZZZZ			17:15																				
ZZZZZZ			17:17																				
ZZZZZZ			17:18																				
ZZZZZZ			17:19																				
ZZZZZZ			17:21																				
CCV 480-609041/96			17:22																				
CCB 480-609041/97			17:23																				
ZZZZZZ			17:24																				
ZZZZZZ			17:26																				
ZZZZZZ			17:28																				
ZZZZZZ			17:30																				
ZZZZZZ			17:31																				
ZZZZZZ			17:32																				
ZZZZZZ			17:34																				
ZZZZZZ			17:35																				
CCV 480-609041/106			17:36																				
CCB 480-609041/107			17:37																				
CCVL 480-609041/108	1		17:39	X																			

Prep Types

D = Dissolved

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: NOEQUIP Method: SM 2340B

Start Date: 12/17/2021 12:06 End Date: 12/17/2021 12:06

Lab Sample ID	D / F	Type	Time	Analytes																			
				HardCC																			
480-193337-1	1	T	12:06	X																			
480-193337-2	1	T	12:06	X																			

Prep Types

T = Total/NA

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337 Analysis Batch No.: 609087

ICP Instrument ID: ICAP2 Start Date: 12/15/2021 End Date: 12/15/2021

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-609087/1	11:22										
ICV 480-609087/5	11:36	89		98		95		100			
ICB 480-609087/6	11:40	101		100		101		100			
ICVL 480-609087/7	11:44	100		101		101		102			
ICSA 480-609087/8	11:47	73		90		85		98			
ICSAB 480-609087/9	11:51	73		90		86		97			
CCV 480-609087/17	17:41	87		97		97		102			
CCB 480-609087/18	17:44	101		101		102		103			
CCVL 480-609087/19	17:48	101		101		103		105			
MB 480-608733/1-A	18:07	101		102		104		106			
LCS 480-608733/2-A	18:11	96		101		101		105			
CCV 480-609087/25	18:26	87		98		97		103			
CCB 480-609087/26	18:29	100		100		102		103			
CCVL 480-609087/27	18:33	100		101		102		103			
CCV 480-609087/37	19:10	87		98		98		103			
CCB 480-609087/38	19:13	101		102		104		106			
CCVL 480-609087/39	19:17	101		102		103		105			
CCV 480-609087/49	19:54	87		97		97		103			
CCB 480-609087/50	19:58	100		100		103		104			
CCVL 480-609087/51	20:02	101		101		103		105			
480-193337-1	20:06	95		101		102		108			
480-193337-2	20:09	94		101		102		107			
CCV 480-609087/55	20:40	87		98		98		103			
CCB 480-609087/56	20:43	100		100		103		104			
CCVL 480-609087/57	20:47	100		101		103		105			

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337 Analysis Batch No.: 609088

ICP Instrument ID: ICAP2 Start Date: 12/15/2021 End Date: 12/15/2021

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-609088/1	11:22										
ICV 480-609088/5	11:36	89		98		95		100			
ICB 480-609088/6	11:40	101		100		101		100			
ICVL 480-609088/7	11:44	100		101		101		102			
ICSA 480-609088/8	11:47	73		90		85		98			
ICSAB 480-609088/9	11:51	73		90		86		97			
CCV 480-609088/17	19:54	87		97		97		103			
CCB 480-609088/18	19:58	100		100		103		104			
CCVL 480-609088/19	20:02	101		101		103		105			
MB 480-608766/1-B	20:17	101		102		105		107			
LCS 480-608766/2-B	20:21	96		100		102		107			
CCV 480-609088/26	20:40	87		98		98		103			
CCB 480-609088/27	20:43	100		100		103		104			
CCVL 480-609088/28	20:47	100		101		103		105			
CCV 480-609088/38	21:25	87		97		97		103			
CCB 480-609088/39	21:28	100		101		103		104			
CCVL 480-609088/40	21:32	100		101		103		105			
480-193337-2	21:40	96		100		102		107			
480-193337-1	21:43	96		100		102		107			
CCV 480-609088/44	22:10	87		97		97		102			
CCB 480-609088/45	22:14	100		100		103		104			
CCVL 480-609088/46	22:17	100		101		103		105			

Run File: I2121521A

Instrument: ICAP2

Analyst:ADM

Data Review: AMH 12/16/21

Spikes Ids:6639940(W1), 6639959(W2),6639939(Sn), 6742802(Ag),6742856(Si), 6370646(TCLP), 6742882(S)
Pipette IDs: 10/6/21-(1-11)
Internal Standard:6810091

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I2121521A	ICIS-6810114	12/15/2021 11:22:11AM	Standard
2	I2121521A	IC-6811103	12/15/2021 11:25:58AM	Standard
3	I2121521A	IC-6817081	12/15/2021 11:29:44AM	Standard
4	I2121521A	IC-6797476	12/15/2021 11:33:17AM	Standard
5	I2121521A	ICV-6817392	12/15/2021 11:36:49AM	QC
6	I2121521A	ICB-6810114	12/15/2021 11:40:24AM	QC
7	I2121521A	ICVL-6811103	12/15/2021 11:44:11AM	QC
8	I2121521A	ICSA-6812501	12/15/2021 11:47:58AM	QC
9	I2121521A	ICSAB-6743474	12/15/2021 11:51:49AM	QC
10	I2121521A	ICEX1	12/15/2021 11:55:30AM	Unknown
11	I2121521A	ICEX2	12/15/2021 11:59:25AM	Unknown
12	I2121521A	ICEX3	12/15/2021 12:03:14PM	Unknown
13	I2121521A	ICEX4	12/15/2021 12:07:04PM	Unknown
14	I2121521A	ICEX5	12/15/2021 12:10:49PM	Unknown
15	I2121521A	CCV-6817081	12/15/2021 12:14:36PM	QC
16	I2121521A	CCB-6810114	12/15/2021 12:18:09PM	QC
17	I2121521A	CCVL-6811103	12/15/2021 12:31:56PM	QC
18	I2121521A	MB 480-608660/1-A	12/15/2021 12:35:43PM	Unknown
19	I2121521A	LCS 480-608660/2-A	12/15/2021 12:39:30PM	Unknown
20	I2121521A	480-193264-E-1-A	12/15/2021 12:43:04PM	Unknown
21	I2121521A	480-193264-E-1-ASD@5	12/15/2021 12:47:06PM	Unknown
22	I2121521A	480-193264-E-1-APDS	12/15/2021 12:50:57PM	Unknown
23	I2121521A	480-193264-E-1-B MS	12/15/2021 12:54:49PM	Unknown
24	I2121521A	480-193264-E-1-C MSD	12/15/2021 12:58:40PM	Unknown
25	I2121521A	480-193264-E-2-A	12/15/2021 1:02:32PM	Unknown
26	I2121521A	480-193264-E-3-A	12/15/2021 1:06:29PM	Unknown
27	I2121521A	CCV-6817081	12/15/2021 1:10:27PM	QC
28	I2121521A	CCB-6810114	12/15/2021 1:13:59PM	QC
29	I2121521A	CCVL-6811103	12/15/2021 1:17:48PM	QC
30	I2121521A	480-193264-E-4-A	12/15/2021 1:21:35PM	Unknown
31	I2121521A	480-193264-E-5-A	12/15/2021 1:25:42PM	Unknown
32	I2121521A	480-193264-E-6-A	12/15/2021 1:29:38PM	Unknown
33	I2121521A	480-193264-E-7-A	12/15/2021 1:33:34PM	Unknown
34	I2121521A	480-193264-E-8-A	12/15/2021 1:37:24PM	Unknown
35	I2121521A	480-193237-D-1-A	12/15/2021 1:41:25PM	Unknown
36	I2121521A	480-193009-D-1-A	12/15/2021 1:45:06PM	Unknown
37	I2121521A	480-193009-D-2-A	12/15/2021 1:48:57PM	Unknown
38	I2121521A	480-193127-C-1-A	12/15/2021 1:52:40PM	Unknown
39	I2121521A	CCV-6817081	12/15/2021 1:56:28PM	QC
40	I2121521A	CCB-6810114	12/15/2021 2:00:01PM	QC
41	I2121521A	CCVL-6811103	12/15/2021 2:03:50PM	QC
42	I2121521A	480-193127-C-2-A	12/15/2021 2:07:37PM	Unknown

43	I2121521A	480-193127-C-3-A	12/15/2021	2:11:21PM Unknown
44	I2121521A	480-193173-C-1-A	12/15/2021	2:15:08PM Unknown
45	I2121521A	480-193173-C-2-A	12/15/2021	2:18:58PM Unknown
46	I2121521A	480-193014-C-1-A	12/15/2021	2:22:55PM Unknown
47	I2121521A	480-193032-C-1-A	12/15/2021	2:26:39PM Unknown
48	I2121521A	480-193247-D-1-A	12/15/2021	2:30:23PM Unknown
49	I2121521A	480-193255-C-1-A	12/15/2021	2:34:09PM Unknown
50	I2121521A	480-193325-A-29-A@2	12/15/2021	2:37:53PM Unknown
51	I2121521A	CCV-6817081	12/15/2021	2:41:36PM QC
52	I2121521A	CCB-6810114	12/15/2021	2:45:09PM QC
53	I2121521A	CCVL-6811103	12/15/2021	2:48:58PM QC
54	I2121521A	480-193325-A-30-A@2	12/15/2021	2:52:45PM Unknown
55	I2121521A	480-193325-A-31-A@2	12/15/2021	2:56:28PM Unknown
56	I2121521A	193325-A-31-ASD@10	12/15/2021	3:00:09PM Unknown
57	I2121521A	193325-A-31-APDS@2	12/15/2021	3:03:51PM Unknown
58	I2121521A	193325-A-31-B MS@2	12/15/2021	3:07:32PM Unknown
59	I2121521A	193325-A-31-C MSD@2	12/15/2021	3:11:15PM Unknown
60	I2121521A	480-193325-A-32-A@2	12/15/2021	3:14:57PM Unknown
61	I2121521A	480-193010-D-2-B@2	12/15/2021	3:18:42PM Unknown
62	I2121521A	480-193010-D-5-B@5	12/15/2021	3:22:27PM Unknown
63	I2121521A	CCV-6817081	12/15/2021	3:26:18PM QC
64	I2121521A	CCB-6810114	12/15/2021	3:29:51PM QC
65	I2121521A	CCVL-6811103	12/15/2021	3:33:39PM QC
66	I2121521A	480-193238-D-1-A@5	12/15/2021	3:37:26PM Unknown
67	I2121521A	480-193138-C-1-B@2	12/15/2021	3:41:14PM Unknown
68	I2121521A	193126-15 SOL	12/15/2021	3:45:00PM Unknown
69	I2121521A	192989-6 SOL	12/15/2021	3:48:45PM Unknown
70	I2121521A	192989-7 SOL	12/15/2021	3:52:28PM Unknown
71	I2121521A	MB 480-608830/1-A	12/15/2021	3:56:10PM Unknown
72	I2121521A	LCS 480-608830/2-A	12/15/2021	3:59:57PM Unknown
73	I2121521A	LCSD 480-608830/3-A	12/15/2021	4:03:31PM Unknown
74	I2121521A	480-193265-E-1-D	12/15/2021	4:07:06PM Unknown
75	I2121521A	CCV-6817081	12/15/2021	4:10:51PM QC
76	I2121521A	CCB-6810114	12/15/2021	4:14:23PM QC
77	I2121521A	CCVL-6811103	12/15/2021	4:18:13PM QC
78	I2121521A	480-193265-E-2-B	12/15/2021	4:22:00PM Unknown
79	I2121521A	480-193265-E-2-BSD@5	12/15/2021	4:25:54PM Unknown
80	I2121521A	480-193265-E-2-BPDS	12/15/2021	4:29:38PM Unknown
81	I2121521A	480-193265-E-2-C MS	12/15/2021	4:33:24PM Unknown
82	I2121521A	480-193265-E-2-D MSD	12/15/2021	4:37:09PM Unknown
83	I2121521A	480-193265-E-3-B	12/15/2021	4:40:55PM Unknown
84	I2121521A	480-193265-E-7-B	12/15/2021	4:44:37PM Unknown
85	I2121521A	480-193265-E-8-B	12/15/2021	4:48:26PM Unknown
86	I2121521A	480-193265-E-9-B	12/15/2021	4:52:27PM Unknown
87	I2121521A	CCV-6817081	12/15/2021	4:56:20PM QC
88	I2121521A	CCB-6810114	12/15/2021	4:59:53PM QC
89	I2121521A	CCVL-6811103	12/15/2021	5:03:44PM QC
90	I2121521A	480-193265-E-10-B	12/15/2021	5:07:31PM Unknown
91	I2121521A	480-193265-E-11-B	12/15/2021	5:11:31PM Unknown
92	I2121521A	480-193026-E-3-B	12/15/2021	5:15:22PM Unknown
93	I2121521A	480-193310-C-8-B	12/15/2021	5:19:11PM Unknown
94	I2121521A	480-193385-G-1-A	12/15/2021	5:22:56PM Unknown

95	I2121521A	480-193367-D-1-A	12/15/2021	5:26:38PM	Unknown
96	I2121521A	480-193367-D-2-A	12/15/2021	5:30:20PM	Unknown
97	I2121521A	480-193367-D-3-A	12/15/2021	5:33:58PM	Unknown
98	I2121521A	480-193367-D-4-A	12/15/2021	5:37:41PM	Unknown
99	I2121521A	CCV-6817081	12/15/2021	5:41:27PM	QC
100	I2121521A	CCB-6810114	12/15/2021	5:44:59PM	QC
101	I2121521A	CCVL-6811103	12/15/2021	5:48:50PM	QC
102	I2121521A	480-193367-D-5-A	12/15/2021	5:52:36PM	Unknown
103	I2121521A	480-193384-D-1-A	12/15/2021	5:56:16PM	Unknown
104	I2121521A	480-193384-C-2-A	12/15/2021	5:59:59PM	Unknown
105	I2121521A	480-193384-D-3-A	12/15/2021	6:03:43PM	Unknown
106	I2121521A	MB 480-608733/1-A	12/15/2021	6:07:26PM	Unknown
107	I2121521A	LCS 480-608733/2-A	12/15/2021	6:11:14PM	Unknown
108	I2121521A	480-193309-D-1-A	12/15/2021	6:14:49PM	Unknown
109	I2121521A	480-193309-D-2-A	12/15/2021	6:18:32PM	Unknown
110	I2121521A	480-193309-D-3-A	12/15/2021	6:22:15PM	Unknown
111	I2121521A	CCV-6817081	12/15/2021	6:26:01PM	QC
112	I2121521A	CCB-6810114	12/15/2021	6:29:35PM	QC
113	I2121521A	CCVL-6811103	12/15/2021	6:33:24PM	QC
114	I2121521A	480-193309-D-3-ASD@5	12/15/2021	6:37:11PM	Unknown
115	I2121521A	480-193309-D-3-APDS	12/15/2021	6:40:56PM	Unknown
116	I2121521A	480-193309-D-3-B MS	12/15/2021	6:44:30PM	Unknown
117	I2121521A	480-193309-D-3-C MSD	12/15/2021	6:48:04PM	Unknown
118	I2121521A	480-193330-C-1-A	12/15/2021	6:51:38PM	Unknown
119	I2121521A	480-193330-C-2-A	12/15/2021	6:55:20PM	Unknown
120	I2121521A	480-193330-C-3-A	12/15/2021	6:59:03PM	Unknown
121	I2121521A	480-193330-C-4-A	12/15/2021	7:02:52PM	Unknown
122	I2121521A	480-193330-C-5-A	12/15/2021	7:06:34PM	Unknown
123	I2121521A	CCV-6817081	12/15/2021	7:10:18PM	QC
124	I2121521A	CCB-6810114	12/15/2021	7:13:51PM	QC
125	I2121521A	CCVL-6811103	12/15/2021	7:17:40PM	QC
126	I2121521A	480-193330-C-6-A	12/15/2021	7:21:28PM	Unknown
127	I2121521A	480-193291-E-1-A	12/15/2021	7:25:06PM	Unknown
128	I2121521A	480-193335-D-1-B	12/15/2021	7:28:50PM	Unknown
129	I2121521A	480-193335-D-2-B	12/15/2021	7:32:34PM	Unknown
130	I2121521A	480-193335-D-3-B	12/15/2021	7:36:17PM	Unknown
131	I2121521A	480-193335-D-4-B	12/15/2021	7:40:01PM	Unknown
132	I2121521A	480-193335-D-5-B	12/15/2021	7:43:44PM	Unknown
133	I2121521A	480-193335-D-6-D	12/15/2021	7:47:27PM	Unknown
134	I2121521A	480-193335-A-7-A	12/15/2021	7:51:09PM	Unknown
135	I2121521A	CCV-6817081	12/15/2021	7:54:57PM	QC
136	I2121521A	CCB-6810114	12/15/2021	7:58:29PM	QC
137	I2121521A	CCVL-6811103	12/15/2021	8:02:18PM	QC
138	I2121521A	480-193337-D-1-B	12/15/2021	8:06:05PM	Unknown
139	I2121521A	480-193337-D-2-B	12/15/2021	8:09:47PM	Unknown
140	I2121521A	480-193334-E-1-B	12/15/2021	8:13:29PM	Unknown
141	I2121521A	MB 480-608766/1-B	12/15/2021	8:17:17PM	Unknown
142	I2121521A	LCS 480-608766/2-B	12/15/2021	8:21:04PM	Unknown
143	I2121521A	480-193322-E-1-B	12/15/2021	8:24:39PM	Unknown
144	I2121521A	480-193322-E-2-B	12/15/2021	8:28:21PM	Unknown
145	I2121521A	480-193322-E-3-B	12/15/2021	8:32:21PM	Unknown
146	I2121521A	480-193322-E-4-B	12/15/2021	8:36:14PM	Unknown

147	I2121521A	CCV-6817081	12/15/2021	8:40:15PM	QC
148	I2121521A	CCB-6810114	12/15/2021	8:43:47PM	QC
149	I2121521A	CCVL-6811103	12/15/2021	8:47:36PM	QC
150	I2121521A	480-193322-E-5-B	12/15/2021	8:51:23PM	Unknown
151	I2121521A	480-193322-A-6-B	12/15/2021	8:55:18PM	Unknown
152	I2121521A	480-193206-R-2-B	12/15/2021	8:59:23PM	Unknown
153	I2121521A	480-193206-R-6-B	12/15/2021	9:03:10PM	Unknown
154	I2121521A	480-193206-R-6-BSD@5	12/15/2021	9:06:54PM	Unknown
155	I2121521A	480-193206-R-6-BPDS	12/15/2021	9:10:40PM	Unknown
156	I2121521A	480-193206-R-6-C MS	12/15/2021	9:14:14PM	Unknown
157	I2121521A	480-193206-R-6-D MSD	12/15/2021	9:17:49PM	Unknown
158	I2121521A	480-193206-R-9-B	12/15/2021	9:21:24PM	Unknown
159	I2121521A	CCV-6817081	12/15/2021	9:25:11PM	QC
160	I2121521A	CCB-6810114	12/15/2021	9:28:43PM	QC
161	I2121521A	CCVL-6811103	12/15/2021	9:32:33PM	QC
162	I2121521A	480-193206-R-11-B	12/15/2021	9:36:20PM	Unknown
163	I2121521A	480-193337-E-2-B	12/15/2021	9:40:04PM	Unknown
164	I2121521A	480-193337-E-1-B	12/15/2021	9:43:48PM	Unknown
165	I2121521A	LB 480-608769/1-B	12/15/2021	9:47:33PM	Unknown
166	I2121521A	MB 480-608963/2-A	12/15/2021	9:51:26PM	Unknown
167	I2121521A	LCS 480-608963/3-A	12/15/2021	9:55:12PM	Unknown
168	I2121521A	480-193346-A-1-C	12/15/2021	9:58:58PM	Unknown
169	I2121521A	240-161159-H-1-C	12/15/2021	10:02:54PM	Unknown
170	I2121521A	240-161159-H-1-CSD@5	12/15/2021	10:06:43PM	Unknown
171	I2121521A	CCV-6817081	12/15/2021	10:10:36PM	QC
172	I2121521A	CCB-6810114	12/15/2021	10:14:09PM	QC
173	I2121521A	CCVL-6811103	12/15/2021	10:17:59PM	QC
174	I2121521A	240-161159-H-1-CPDS	12/15/2021	10:21:46PM	Unknown
175	I2121521A	240-161159-H-1-D MS	12/15/2021	10:25:29PM	Unknown
176	I2121521A	240-161159-H-1-E MSD	12/15/2021	10:29:13PM	Unknown
177	I2121521A	240-161140-H-1-B	12/15/2021	10:32:57PM	Unknown
178	I2121521A	240-161144-C-1-E	12/15/2021	10:36:43PM	Unknown
179	I2121521A	480-193329-A-1-D	12/15/2021	10:40:32PM	Unknown
180	I2121521A	480-193329-A-2-D	12/15/2021	10:44:17PM	Unknown
181	I2121521A	MB 480-608141/1-A	12/15/2021	10:48:01PM	Unknown
182	I2121521A	LCS 480-608141/2-A	12/15/2021	10:51:48PM	Unknown
183	I2121521A	CCV-6817081	12/15/2021	10:55:24PM	QC
184	I2121521A	CCB-6810114	12/15/2021	10:58:57PM	QC
185	I2121521A	CCVL-6811103	12/15/2021	11:02:46PM	QC
186	I2121521A	480-193126-B-21-A	12/15/2021	11:06:33PM	Unknown
187	I2121521A	193126-B-21-ASD@5	12/15/2021	11:10:17PM	Unknown
188	I2121521A	193126-B-21-APDS	12/15/2021	11:14:01PM	Unknown
189	I2121521A	480-193126-B-21-B MS	12/15/2021	11:17:36PM	Unknown
190	I2121521A	193126-B-21-C MSD	12/15/2021	11:21:10PM	Unknown
191	I2121521A	480-193175-B-1-A	12/15/2021	11:24:45PM	Unknown
192	I2121521A	480-193175-B-2-A	12/15/2021	11:28:28PM	Unknown
193	I2121521A	480-193175-B-3-A	12/15/2021	11:32:16PM	Unknown
194	I2121521A	480-193175-B-4-A	12/15/2021	11:35:59PM	Unknown
195	I2121521A	CCV-6817081	12/15/2021	11:39:49PM	QC
196	I2121521A	CCB-6810114	12/15/2021	11:43:21PM	QC
197	I2121521A	CCVL-6811103	12/15/2021	11:47:10PM	QC
198	I2121521A	480-193175-B-5-A	12/15/2021	11:50:57PM	Unknown

199	I2121521A	480-193175-B-6-A	12/15/2021	11:54:40PM	Unknown
200	I2121521A	480-193175-B-7-A	12/15/2021	11:58:24PM	Unknown
201	I2121521A	480-193175-B-9-A	12/16/2021	12:02:11AM	Unknown
202	I2121521A	480-193175-B-10-A	12/16/2021	12:05:55AM	Unknown
203	I2121521A	480-193175-B-11-A	12/16/2021	12:09:44AM	Unknown
204	I2121521A	480-193176-B-1-A	12/16/2021	12:13:27AM	Unknown
205	I2121521A	480-193176-B-2-A	12/16/2021	12:17:14AM	Unknown
206	I2121521A	480-193176-B-3-A	12/16/2021	12:20:57AM	Unknown
207	I2121521A	CCV-6817081	12/16/2021	12:24:42AM	QC
208	I2121521A	CCB-6810114	12/16/2021	12:28:13AM	QC
209	I2121521A	CCVL-6811103	12/16/2021	12:32:01AM	QC
210	I2121521A	480-193176-B-4-A	12/16/2021	12:35:48AM	Unknown
211	I2121521A	480-193176-B-5-A	12/16/2021	12:39:32AM	Unknown
212	I2121521A	480-193176-B-6-A	12/16/2021	12:43:22AM	Unknown
213	I2121521A	480-193176-B-7-A	12/16/2021	12:47:06AM	Unknown
214	I2121521A	480-193176-B-8-A	12/16/2021	12:50:54AM	Unknown
215	I2121521A	480-193176-B-9-A	12/16/2021	12:54:42AM	Unknown
216	I2121521A	192096-4 tot	12/16/2021	12:58:24AM	Unknown
217	I2121521A	192096-5 tot	12/16/2021	1:02:09AM	Unknown
218	I2121521A	192096-8 tot	12/16/2021	1:05:53AM	Unknown
219	I2121521A	CCV-6817081	12/16/2021	1:09:39AM	QC
220	I2121521A	CCB-6810114	12/16/2021	1:13:11AM	QC
221	I2121521A	CCVL-6811103	12/16/2021	1:17:00AM	QC
222	I2121521A	CCV-6817081	12/16/2021	1:20:49AM	QC
223	I2121521A	CCB-6810114	12/16/2021	1:24:21AM	QC

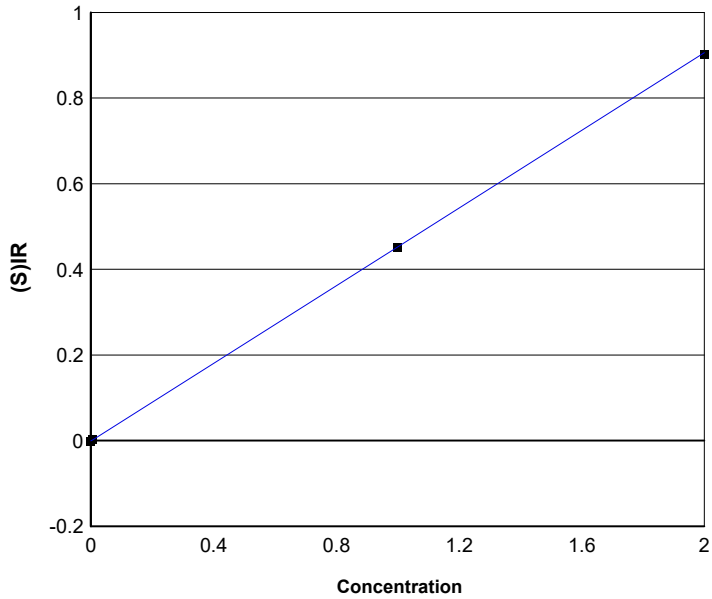
I2121521A

Author: ADM

Published: 12/16/2021 8:17:46AM

Instrument Name: 20094602a Serial Number: 20094602

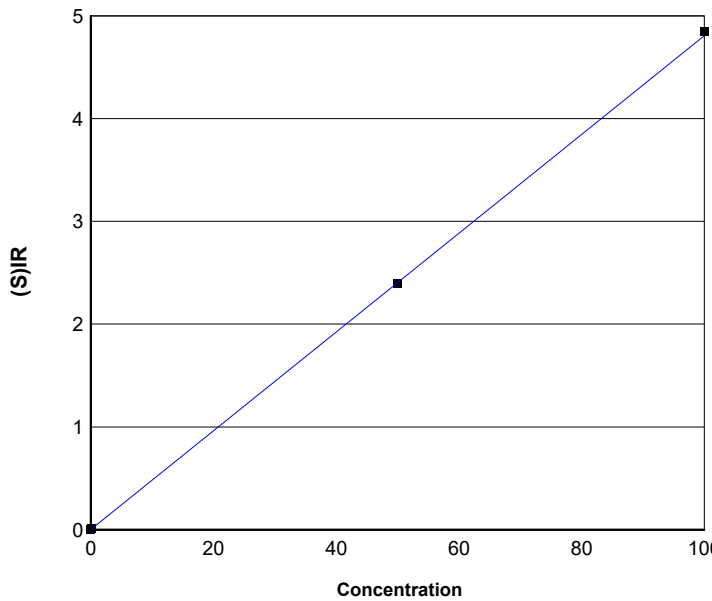
Method Name: ICAP2 New stds DEC2019 (783)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00076859
A1 (Gain):	0.45339
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

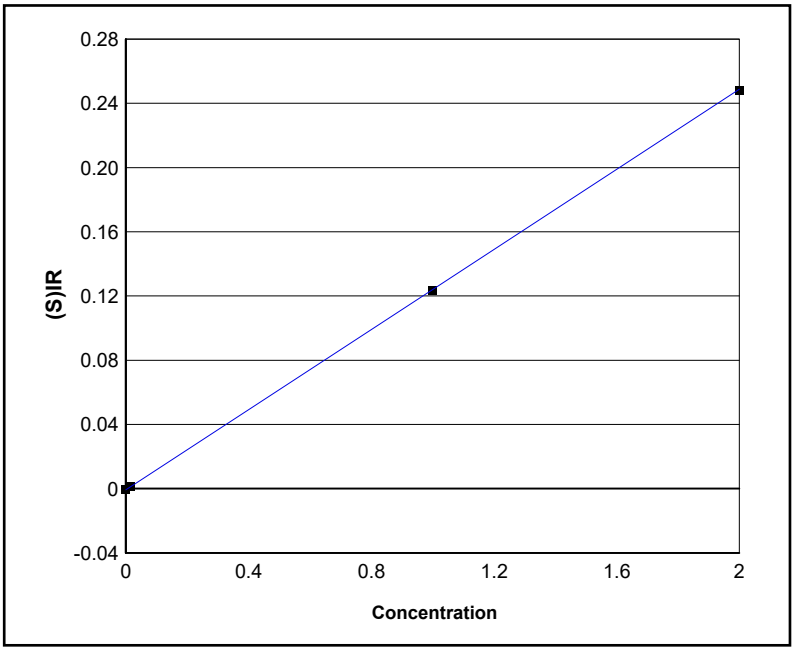
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000002516	0.0000002516	0.00000	-0.00076847	0.000095399	1
IC-6811103	0.0060000	0.0057382	-0.00026179	-4.3631	0.0018331	0.00013114	1
IC-6817081	1.0000	1.0031	0.0031324	0.31324	0.45223	0.00090705	1
IC-6797476	2.0000	1.9971	-0.0028695	-0.14348	0.90108	0.0016483	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0013830
A1 (Gain):	0.048059
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

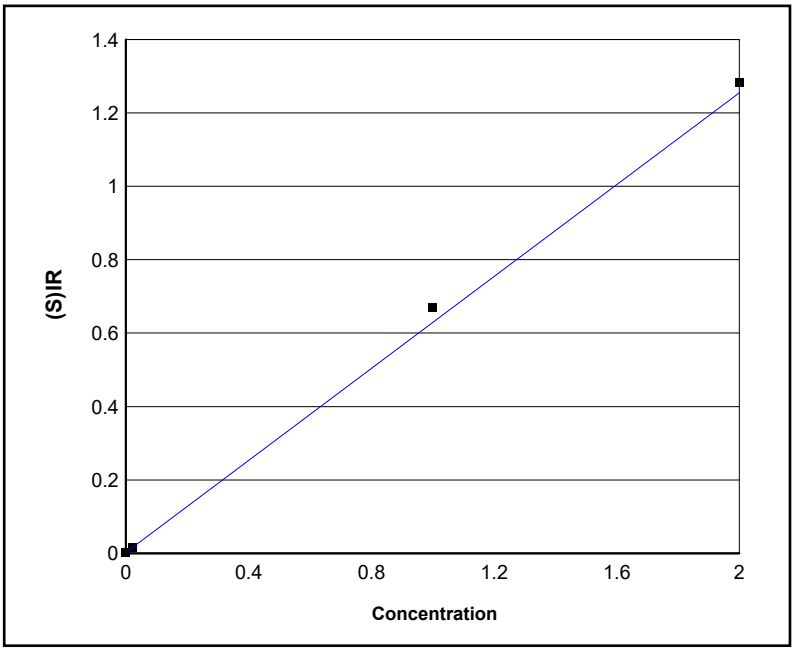
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.000010185	0.000010185	0.00000	0.0013835	0.00056178	1
IC-6811103	0.20000	0.19066	-0.0093357	-4.6678	0.010599	0.0011611	1
IC-6817081	50.000	49.566	-0.43416	-0.86833	2.3940	0.018830	1
IC-6797476	100.00	100.44	0.44351	0.44351	4.8496	0.0055236	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00075865
A1 (Gain):	0.12475
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

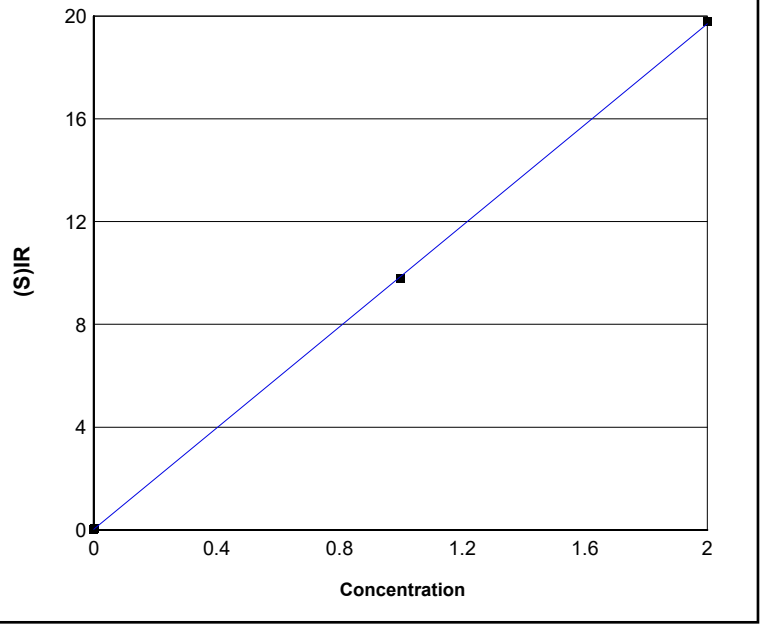
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000001173	0.0000001173	0.00000	-0.00075864	0.00012309	1
IC-6811103	0.015000	0.014882	-0.00011807	-0.78712	0.0010963	0.0000003689	1
IC-6817081	1.0000	0.99999	-0.000011694	-0.0011694	0.12350	0.00012773	1
IC-6797476	2.0000	2.0001	0.00013013	0.0065063	0.24778	0.00021637	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99981
A0 (Offset):	0.0024809
A1 (Gain):	0.62637
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

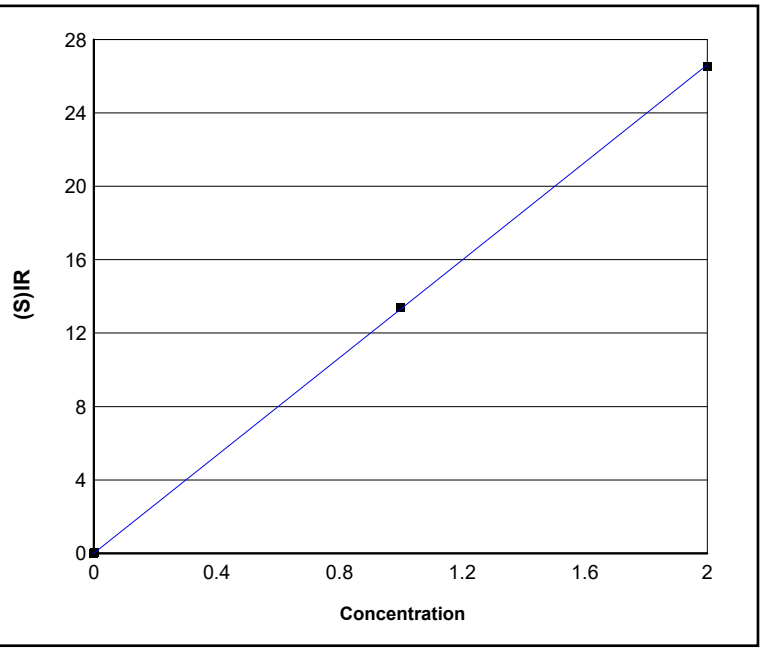
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000004498	0.0000004498	0.00000	0.0024811	0.000070965	1
IC-6811103	0.020000	0.019260	-0.00073989	-3.6995	0.014770	0.000056407	1
IC-6817081	1.0000	1.0283	0.028283	2.8283	0.66912	0.000072113	1
IC-6797476	2.0000	1.9724	-0.027556	-1.3778	1.2831	0.00076484	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.027401
A1 (Gain):	9.8370
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

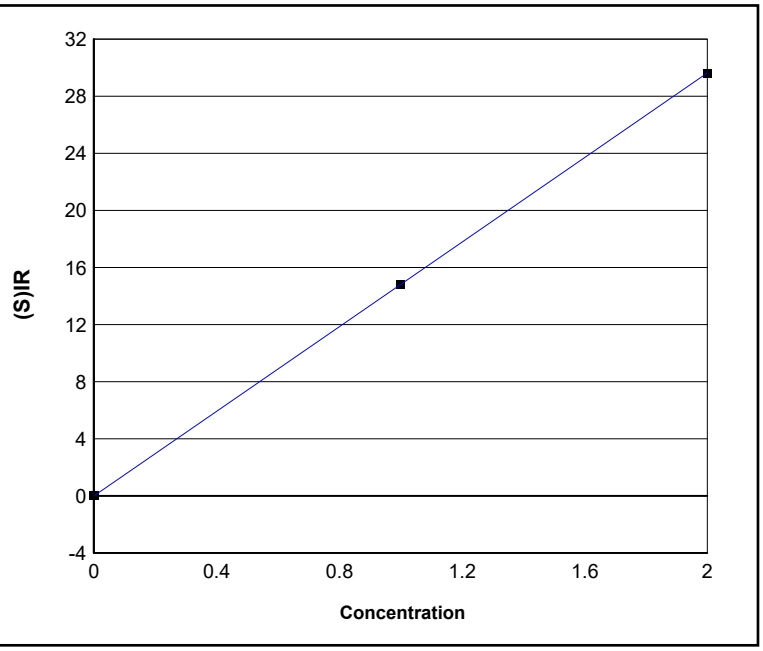
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000001644	0.0000001644	0.00000	0.027402	0.00057924	1
IC-6811103	0.0020000	0.0018447	-0.00015526	-7.7630	0.045548	0.0020247	1
IC-6817081	1.0000	0.99072	-0.0092800	-0.92800	9.7732	0.095031	1
IC-6797476	2.0000	2.0094	0.0094352	0.47176	19.794	0.0033549	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0046388
A1 (Gain):	13.310
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

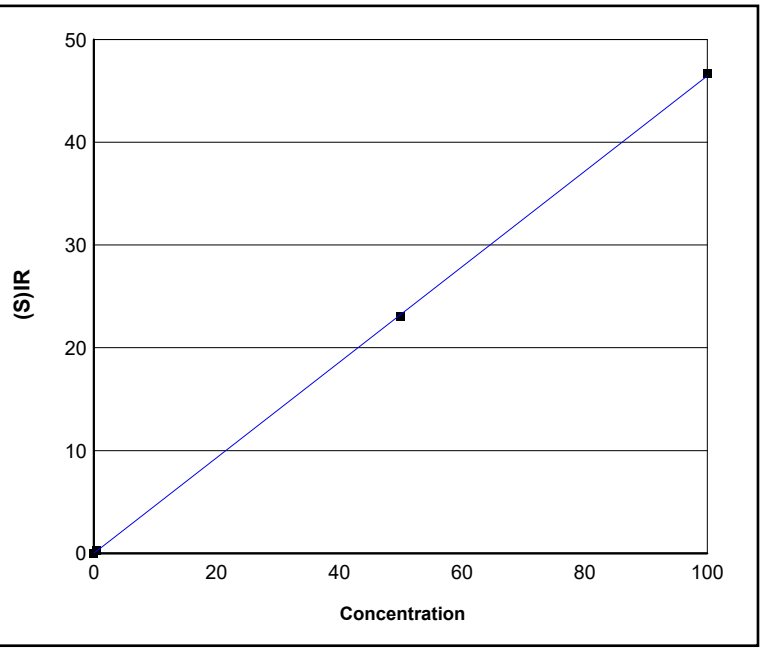
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000000552	-0.0000000552	0.00000	0.0046380	0.00085341	1
IC-6811103	0.0020000	0.0020498	0.000049790	2.4895	0.031922	0.000099673	1
IC-6817081	1.0000	1.0054	0.0054312	0.54312	13.387	0.086780	1
IC-6797476	2.0000	1.9945	-0.0054810	-0.27405	26.552	0.21839	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0024693
A1 (Gain):	14.812
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

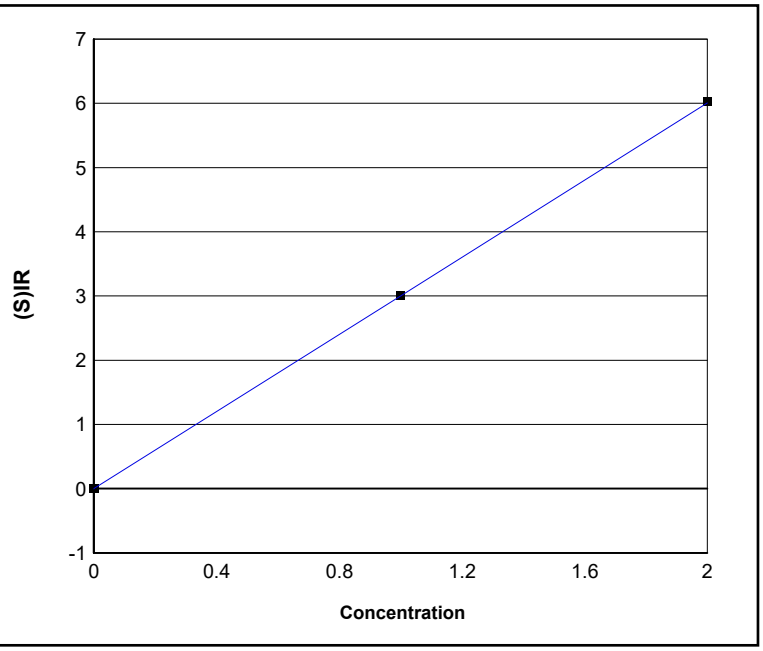
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000000205	-0.0000000205	0.00000	-0.0024696	0.0019024	1
IC-6811103	0.0020000	0.0020208	0.000020777	1.0389	0.027462	0.00058889	1
IC-6817081	1.0000	0.99974	-0.00026467	-0.026467	14.806	0.13739	1
IC-6797476	2.0000	2.0002	0.00024390	0.012195	29.625	0.027536	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.016592
A1 (Gain):	0.46436
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

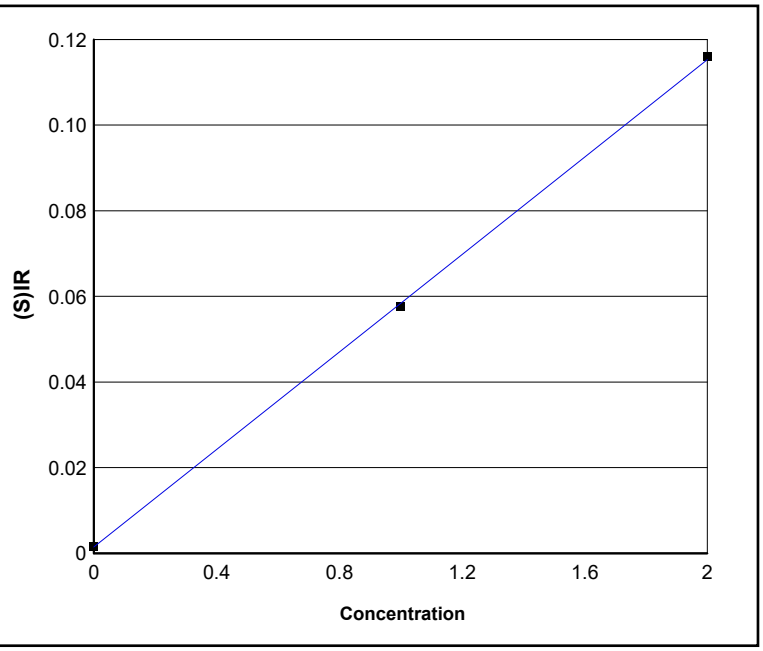
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000040877	0.0000040877	0.00000	0.016594	0.00088676	1
IC-6811103	0.50000	0.49796	-0.0020381	-0.40763	0.24782	0.0022087	1
IC-6817081	50.000	49.588	-0.41195	-0.82390	23.043	0.20808	1
IC-6797476	100.00	100.41	0.41399	0.41399	46.644	0.0011280	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00073209
A1 (Gain):	3.0044
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

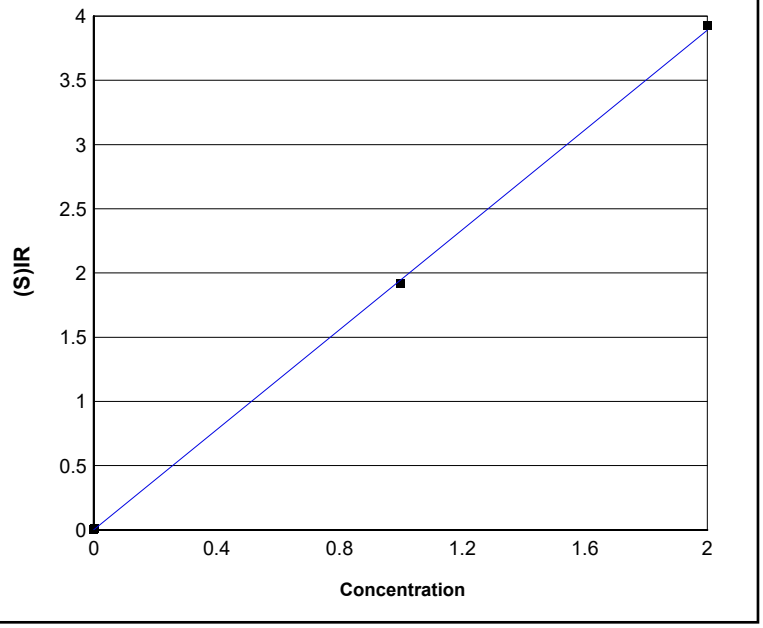
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000000183	0.0000000183	0.00000	-0.00073204	0.000051536	1
IC-6811103	0.0020000	0.0019842	-0.000015793	-0.78963	0.0053779	0.0000044834	1
IC-6817081	1.0000	0.99743	-0.0025669	-0.25669	3.0049	0.0020720	1
IC-6797476	2.0000	2.0026	0.0025831	0.12915	6.0338	0.0068429	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.001487
A1 (Gain):	0.05689
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

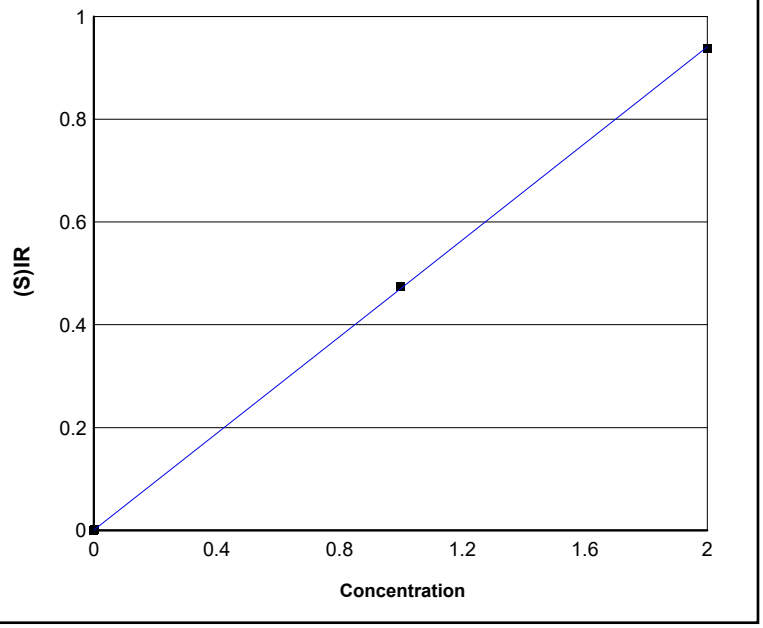
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.0000	0.000006536	0.000006536	0.0000	0.001488	0.002780	1
IC-6797476	2.000	2.013	0.01307	0.6536	0.1160	0.0007538	1
IC-6817081	1.000	0.9869	-0.01307	-1.307	0.05764	0.0005329	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.0010682
A1 (Gain):	1.9454
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

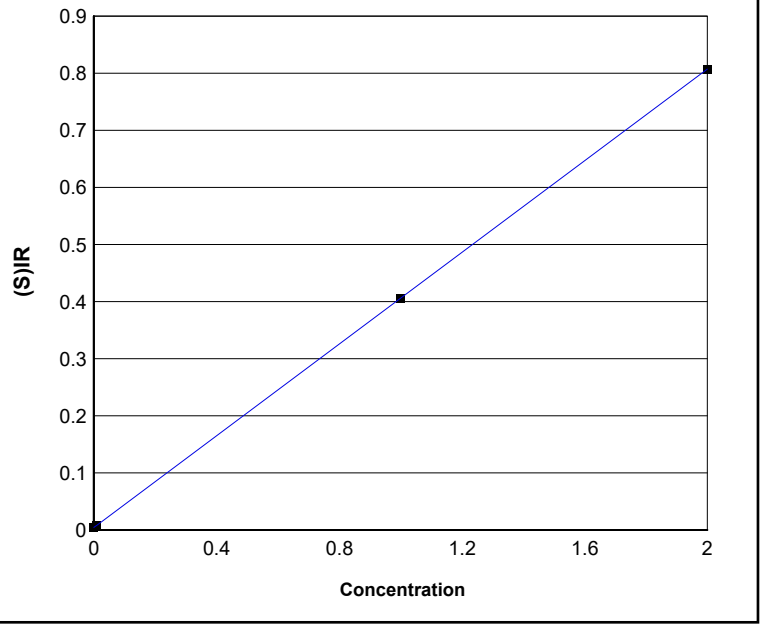
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000004528	0.0000004528	0.00000	0.0010691	0.00013341	1
IC-6811103	0.0040000	0.0035785	-0.00042149	-10.537	0.0080342	0.00014896	1
IC-6817081	1.0000	0.98391	-0.016090	-1.6090	1.9176	0.00057578	1
IC-6797476	2.0000	2.0165	0.016511	0.82554	3.9289	0.0060314	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00021373
A1 (Gain):	0.47029
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

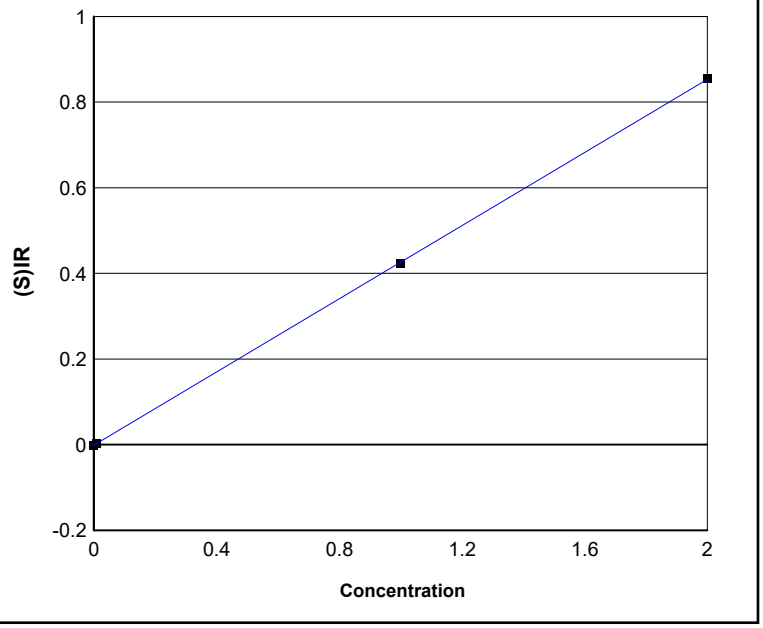
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000002837	0.0000002837	0.00000	0.00021387	0.000072672	1
IC-6811103	0.0040000	0.0036995	-0.00030054	-7.5134	0.0019537	0.000038891	1
IC-6817081	1.0000	1.0081	0.0081315	0.81315	0.47426	0.00047425	1
IC-6797476	2.0000	1.9922	-0.0078310	-0.39155	0.93698	0.00045892	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0043355
A1 (Gain):	0.40151
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

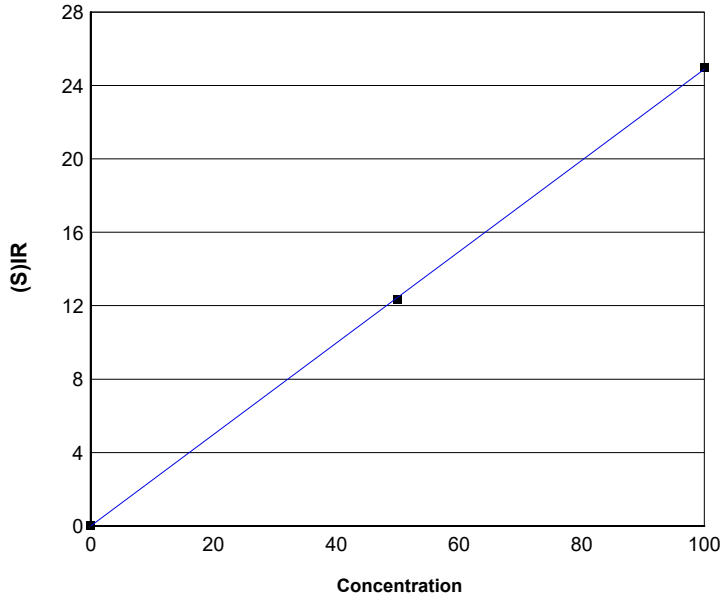
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000004856	-0.0000004856	0.00000	0.0043353	0.00010807	1
IC-6811103	0.010000	0.010488	0.00048777	4.8777	0.0085464	0.00015221	1
IC-6817081	1.0000	1.0000	0.000045140	0.0045140	0.40586	0.0016337	1
IC-6797476	2.0000	1.9995	-0.00053291	-0.026645	0.80713	0.0017080	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00088682
A1 (Gain):	0.42717
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

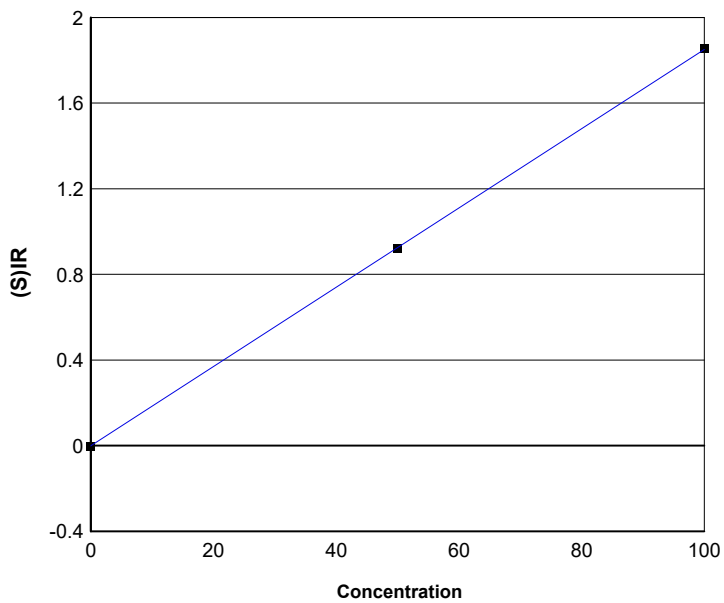
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000002636	-0.0000002636	0.00000	-0.00088694	0.00021431	1
IC-6811103	0.010000	0.010296	0.00029594	2.9594	0.0035136	0.00027336	1
IC-6817081	1.0000	0.99383	-0.0061718	-0.61718	0.42360	0.00021419	1
IC-6797476	2.0000	2.0059	0.0058757	0.29379	0.85587	0.00076602	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0024669
A1 (Gain):	0.24888
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

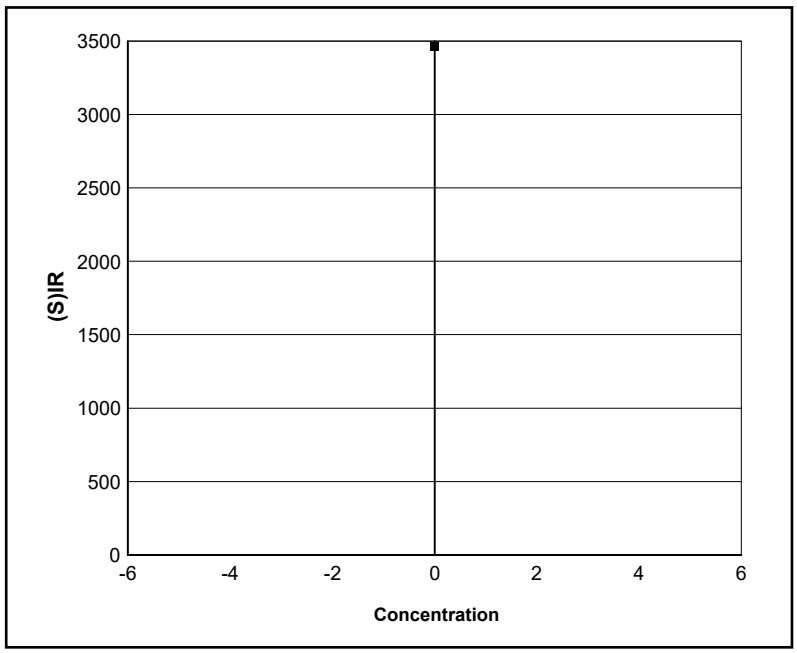
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000026180	0.0000026180	0.00000	0.0024676	0.00054123	1
IC-6811103	0.050000	0.047605	-0.0023950	-4.7901	0.014315	0.00038710	1
IC-6817081	50.025	49.576	-0.44879	-0.89713	12.341	0.13258	1
IC-6797476	100.00	100.45	0.45118	0.45118	25.003	0.0071525	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99984
A0 (Offset):	-0.0011450
A1 (Gain):	0.018516
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

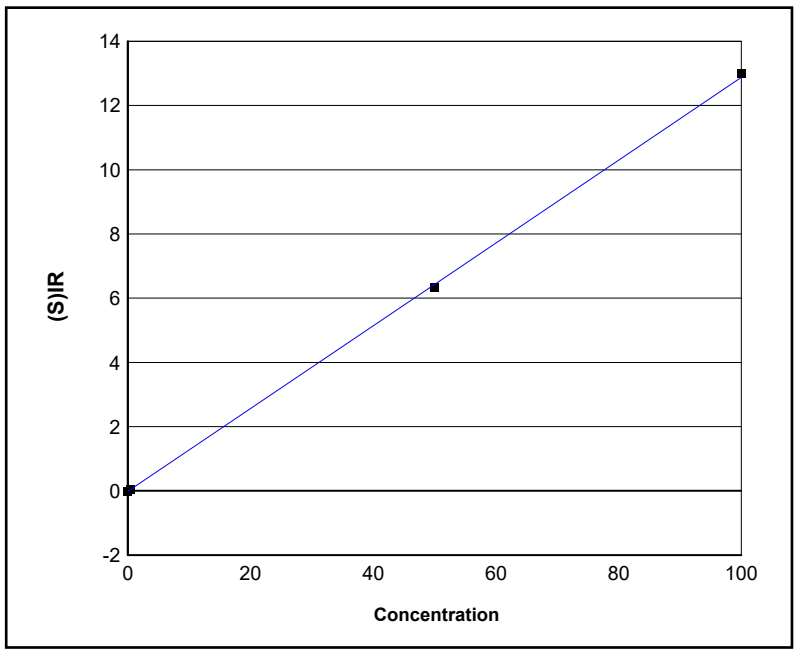
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.000049311	0.000049311	0.00000	-0.0011441	0.00023462	1
IC-6811103	0.050000	0.00074071	-0.049259	-98.519	-0.0011313	0.0010719	1
IC-6817081	50.025	49.873	-0.15226	-0.30437	0.92230	0.0079840	1
IC-6797476	100.00	100.20	0.20152	0.20152	1.8542	0.00010353	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:25:50AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

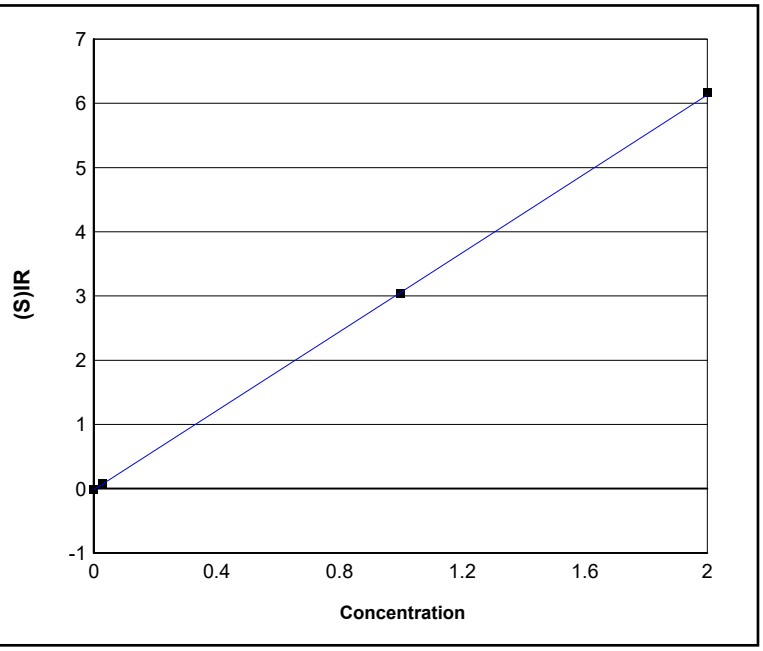
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.0000			0.0000	3,467	2.060	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	-0.012588
A1 (Gain):	0.12888
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

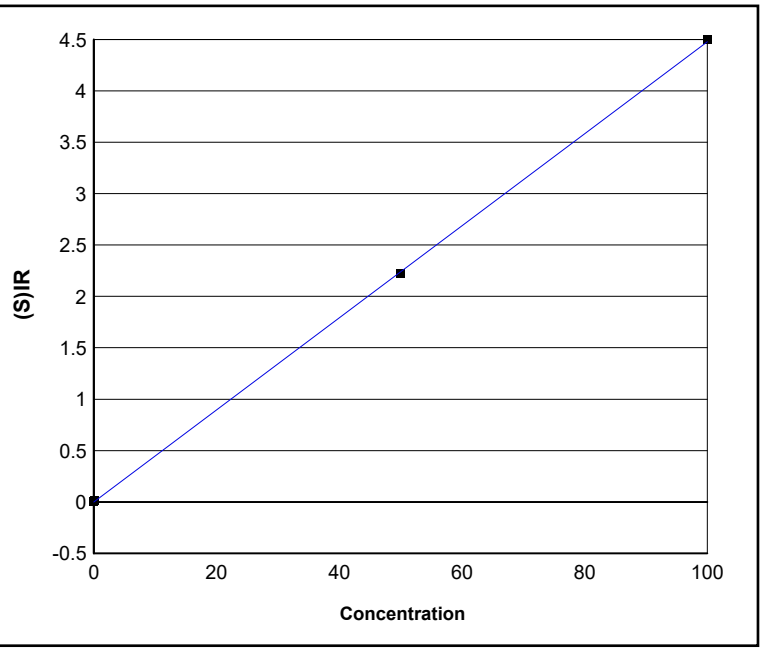
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.000077668	0.000077668	0.00000	-0.012578	0.000051038	1
IC-6811103	0.50000	0.42615	-0.073846	-14.769	0.042336	0.0032563	1
IC-6817081	50.000	49.162	-0.83829	-1.6766	6.3235	0.066361	1
IC-6797476	100.00	100.91	0.91213	0.91213	12.993	0.017054	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.013919
A1 (Gain):	3.0727
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

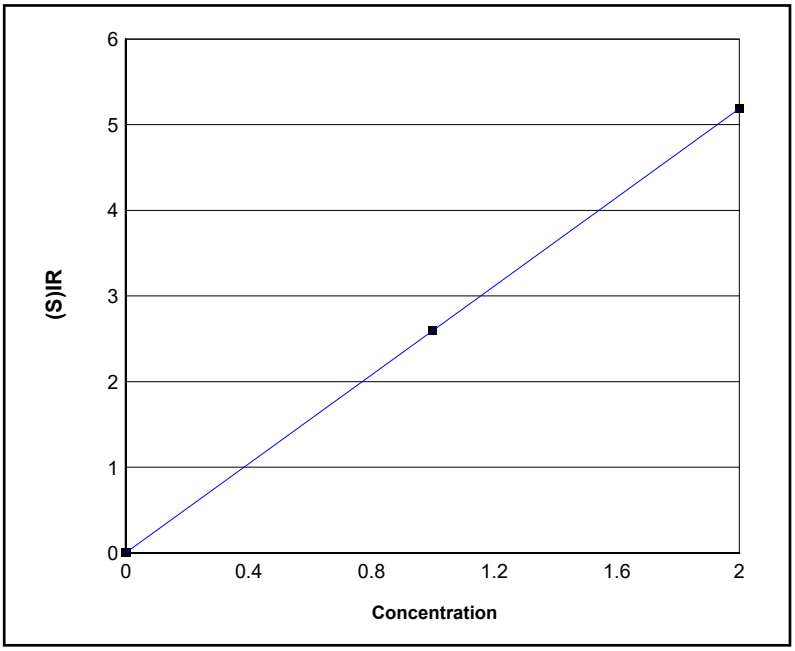
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000005626	0.0000005626	0.00000	-0.013917	0.0040634	1
IC-6811103	0.030000	0.029541	-0.00045902	-1.5301	0.076946	0.0053066	1
IC-6817081	1.0000	0.99264	-0.0073618	-0.73618	3.0456	0.020036	1
IC-6797476	2.0000	2.0078	0.0078199	0.39100	6.1744	0.0065003	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.000014306
A1 (Gain):	0.044783
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

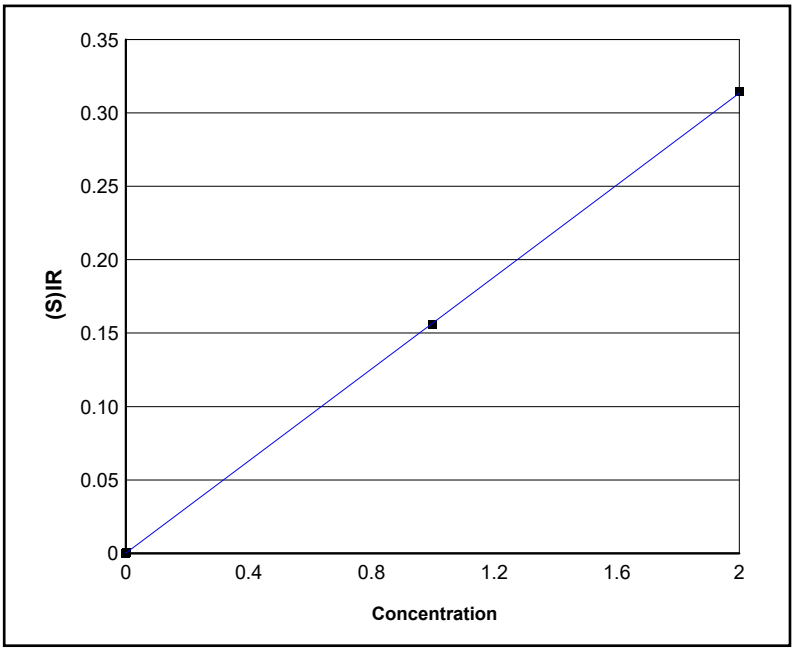
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000038995	0.0000038995	0.00000	-0.000014131	0.000022382	1
IC-6811103	0.20000	0.19697	-0.0030337	-1.5168	0.0088061	0.00027422	1
IC-6817081	50.000	49.564	-0.43592	-0.87184	2.2195	0.0039689	1
IC-6797476	100.00	100.44	0.43896	0.43896	4.4977	0.010870	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0010543
A1 (Gain):	2.5931
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

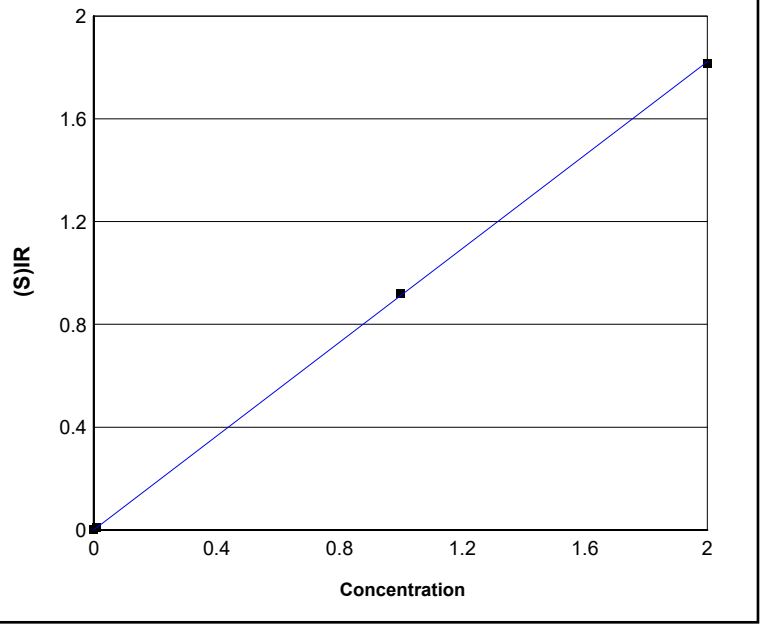
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000000159	-0.0000000159	0.00000	0.0010543	0.00048111	1
IC-6811103	0.0030000	0.0030139	0.000013889	0.46297	0.0088723	0.00026115	1
IC-6817081	1.0000	1.0013	0.0013276	0.13276	2.5984	0.0026938	1
IC-6797476	2.0000	1.9987	-0.0013415	-0.067074	5.1853	0.0080224	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00013379
A1 (Gain):	0.15663
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

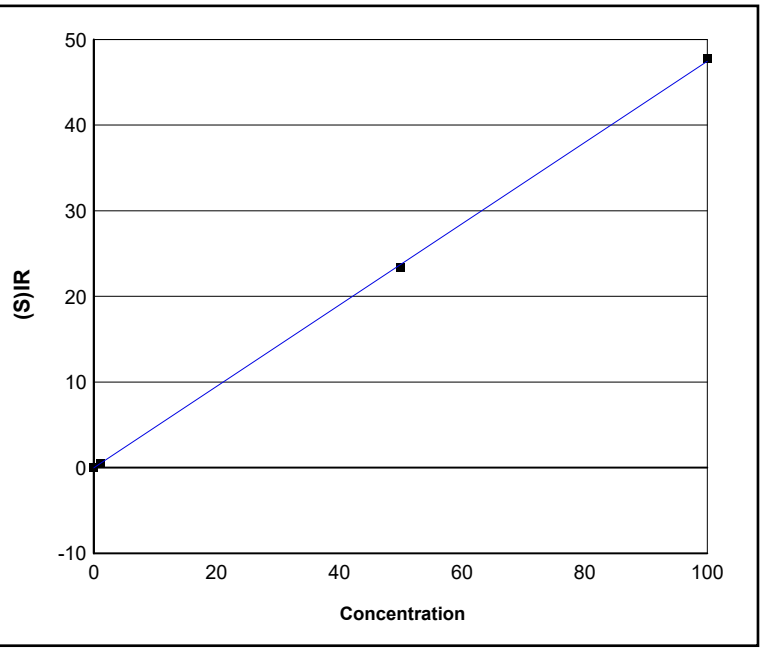
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000001480	0.0000001480	0.00000	0.00013382	0.000023074	1
IC-6811103	0.0030000	0.0028637	-0.00013627	-4.5424	0.00058251	0.000049644	1
IC-6817081	1.0000	0.99202	-0.0079774	-0.79774	0.15557	0.00020019	1
IC-6797476	2.0000	2.0081	0.0081137	0.40569	0.31477	0.000045961	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0012575
A1 (Gain):	0.91069
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

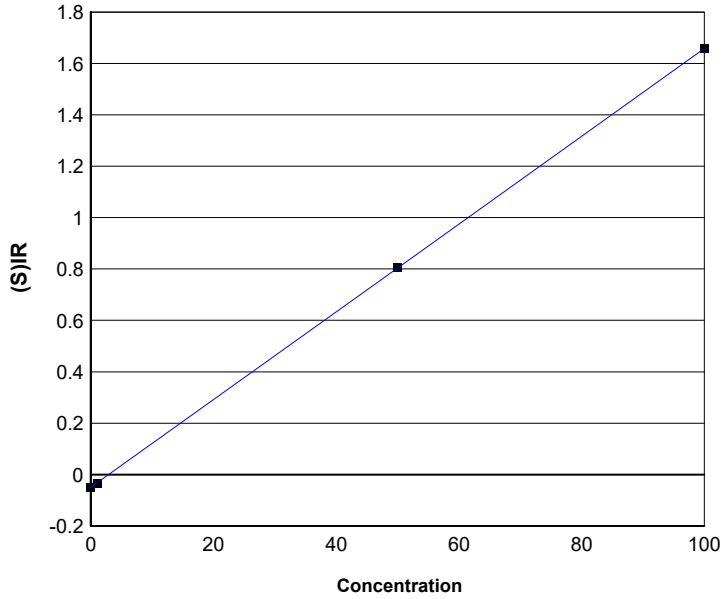
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000007991	0.0000007991	0.00000	0.0012582	0.00021138	1
IC-6811103	0.010000	0.0091578	-0.00084220	-8.4220	0.0095974	0.000020751	1
IC-6817081	1.0000	1.0078	0.0077702	0.77702	0.91902	0.00030351	1
IC-6797476	2.0000	1.9931	-0.0069280	-0.34640	1.8163	0.00097645	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.020858
A1 (Gain):	0.47491
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

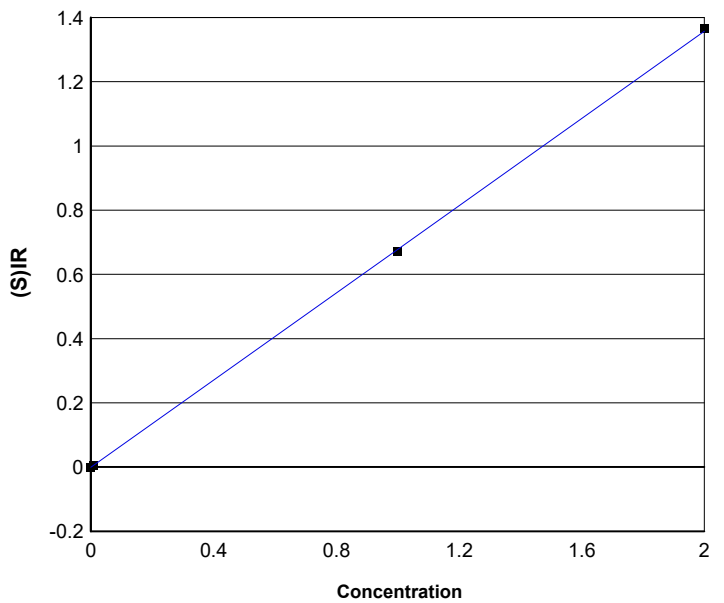
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.000041584	0.000041584	0.00000	-0.020839	0.00066841	1
IC-6811103	1.0000	0.96420	-0.035802	-3.5802	0.43705	0.0022300	1
IC-6817081	50.000	49.386	-0.61394	-1.2279	23.433	0.19791	1
IC-6797476	100.00	100.65	0.64974	0.64974	47.779	0.014658	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.049058
A1 (Gain):	0.017069
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

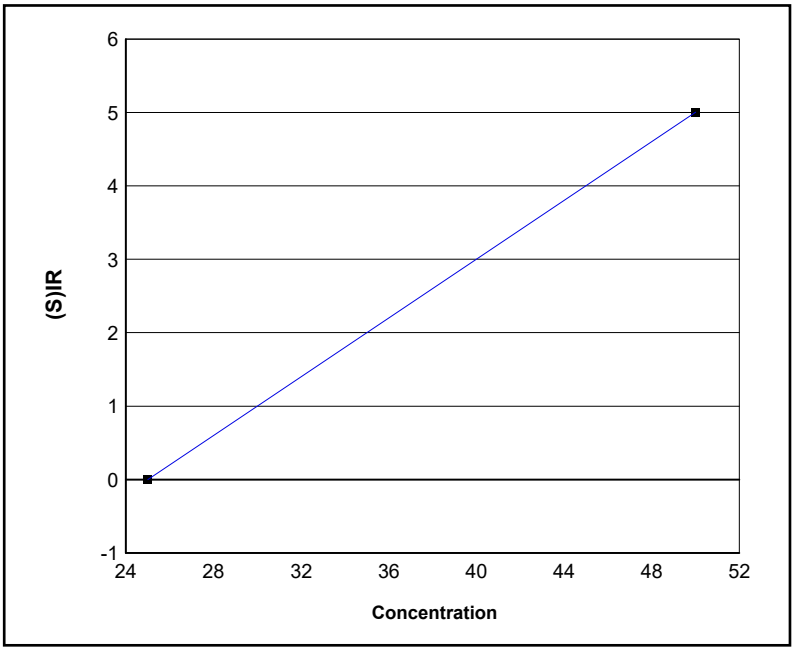
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.000086426	0.000086426	0.00000	-0.049056	0.0026758	1
IC-6811103	1.0000	0.91202	-0.087983	-8.7983	-0.033490	0.0049132	1
IC-6817081	50.000	50.068	0.067705	0.13541	0.80555	0.0074924	1
IC-6797476	100.00	100.02	0.020278	0.020278	1.6582	0.0039955	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00060034
A1 (Gain):	0.67871
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

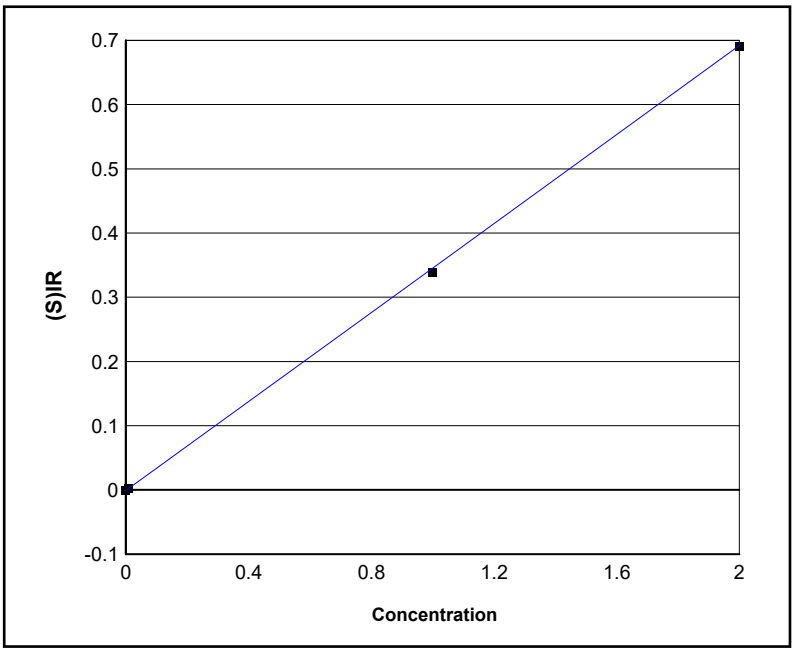
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000003272	0.0000003272	0.00000	-0.00060012	0.00014240	1
IC-6811103	0.010000	0.0097308	-0.00026917	-2.6917	0.0060047	0.000070606	1
IC-6817081	1.0000	0.98813	-0.011871	-1.1871	0.67073	0.0010736	1
IC-6797476	2.0000	2.0121	0.012140	0.60700	1.3664	0.0030717	1



Element Name:	P
Element Wavelength:	P 213.618 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-5.008
A1 (Gain):	0.2003
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

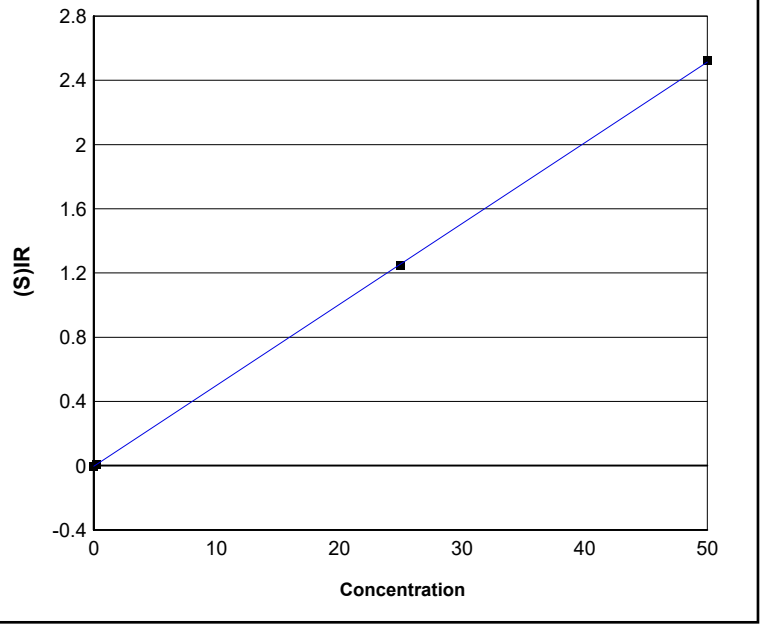
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-6811103	25.00	25.00	0.0000000000	0.0000000000	-0.001373	0.0002071	1
IC-6797476	50.00	50.00	0.0000000000	0.0000000000	5.005	0.004756	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00089579
A1 (Gain):	0.34634
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

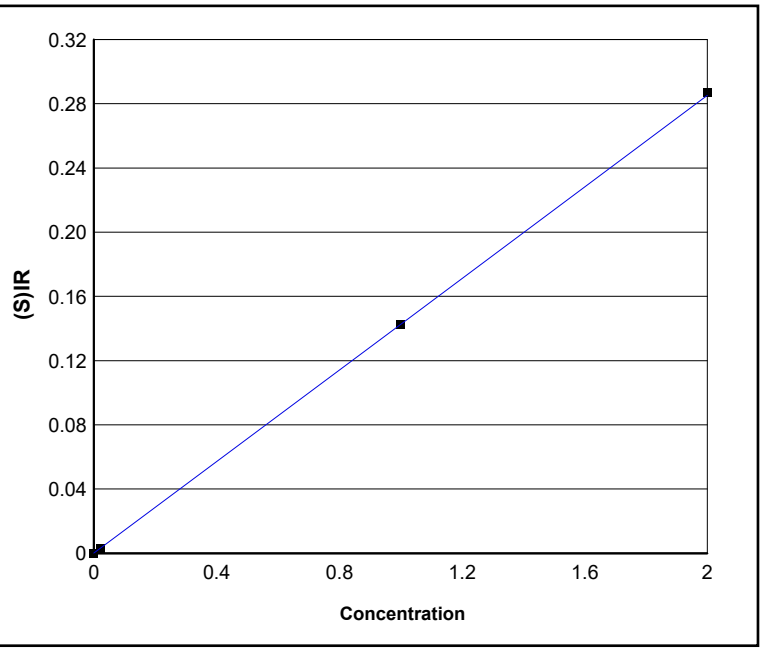
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000003001	-0.0000003001	0.00000	-0.00089589	0.000054925	1
IC-6811103	0.010000	0.010358	0.00035783	3.5783	0.0026667	0.00019709	1
IC-6817081	1.0000	0.98881	-0.011189	-1.1189	0.33914	0.00020173	1
IC-6797476	2.0000	2.0108	0.010831	0.54154	0.69068	0.0010939	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.0034374
A1 (Gain):	0.050357
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

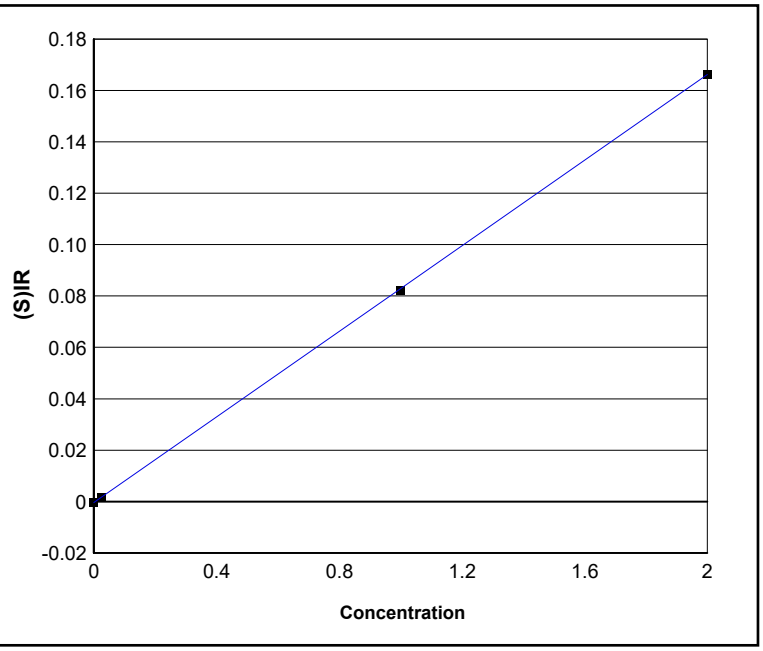
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.000019486	0.000019486	0.00000	-0.0034364	0.00013434	1
IC-6811103	0.20000	0.18099	-0.019010	-9.5051	0.0056767	0.000085552	1
IC-6817081	25.000	24.862	-0.13810	-0.55241	1.2485	0.00099889	1
IC-6797476	50.000	50.157	0.15711	0.31423	2.5223	0.0018566	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.000074075
A1 (Gain):	0.14255
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

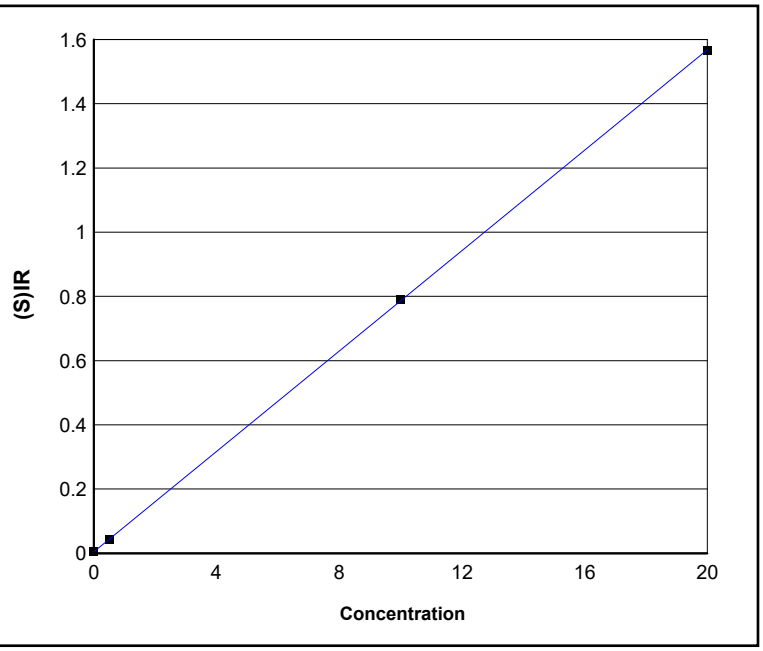
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000007986	0.0000007986	0.00000	0.000074189	0.00028451	1
IC-6811103	0.020000	0.019244	-0.00075599	-3.7800	0.0028242	0.00015770	1
IC-6817081	1.0000	0.99498	-0.0050191	-0.50191	0.14256	0.00032181	1
IC-6797476	2.0000	2.0058	0.0057735	0.28867	0.28729	0.00086506	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.00038977
A1 (Gain):	0.083298
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

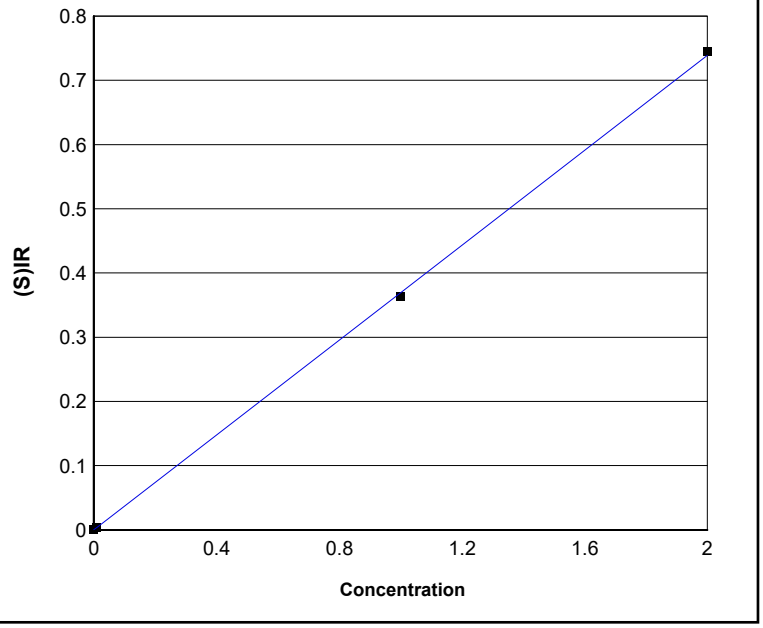
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000033913	0.0000033913	0.00000	-0.00038949	0.000026863	1
IC-6811103	0.025000	0.021625	-0.0033747	-13.499	0.0014113	0.00027493	1
IC-6817081	1.0000	0.99528	-0.0047191	-0.47191	0.082190	0.00011990	1
IC-6797476	2.0000	2.0081	0.0081066	0.40533	0.16623	0.00016243	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0045475
A1 (Gain):	0.078196
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

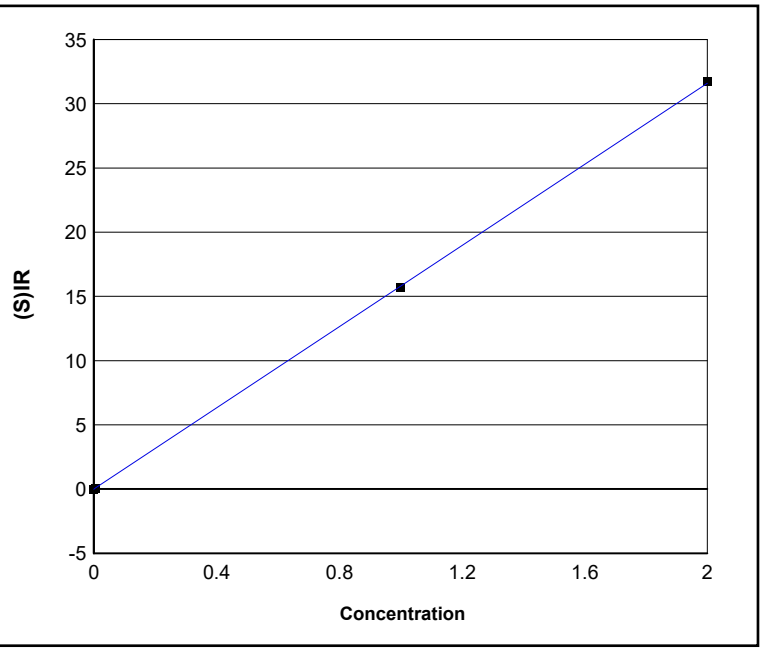
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.000010238	0.000010238	0.00000	0.0045483	0.00031428	1
IC-6811103	0.50000	0.48818	-0.011824	-2.3647	0.042721	0.00019115	1
IC-6817081	10.000	10.052	0.051601	0.51601	0.79055	0.0011603	1
IC-6797476	20.000	19.960	-0.039778	-0.19889	1.5654	0.0074669	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00021065
A1 (Gain):	0.36936
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

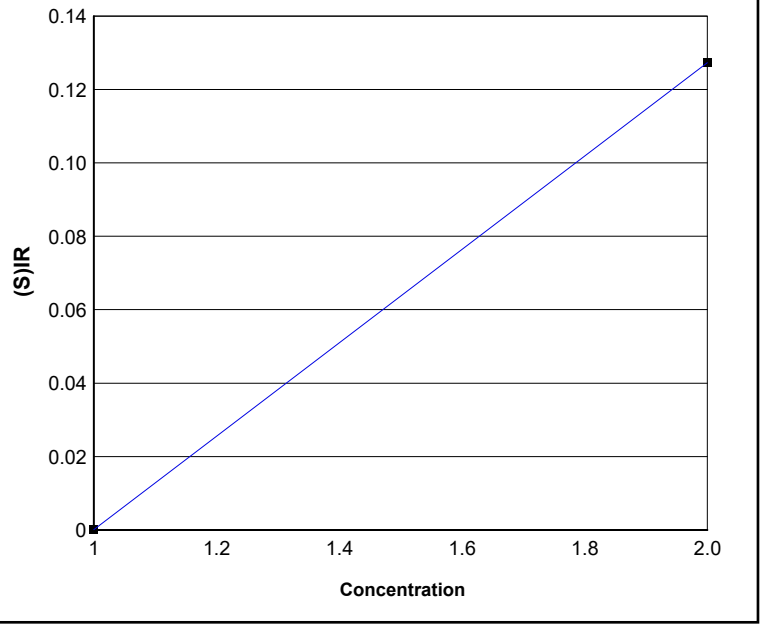
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000010456	0.0000010456	0.00000	0.00021103	0.000048378	1
IC-6811103	0.010000	0.0090343	-0.00096571	-9.6571	0.0035475	0.000027325	1
IC-6817081	1.0000	0.98307	-0.016934	-1.6934	0.36331	0.00038746	1
IC-6797476	2.0000	2.0179	0.017900	0.89500	0.74554	0.00091499	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.0029409
A1 (Gain):	15.795
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

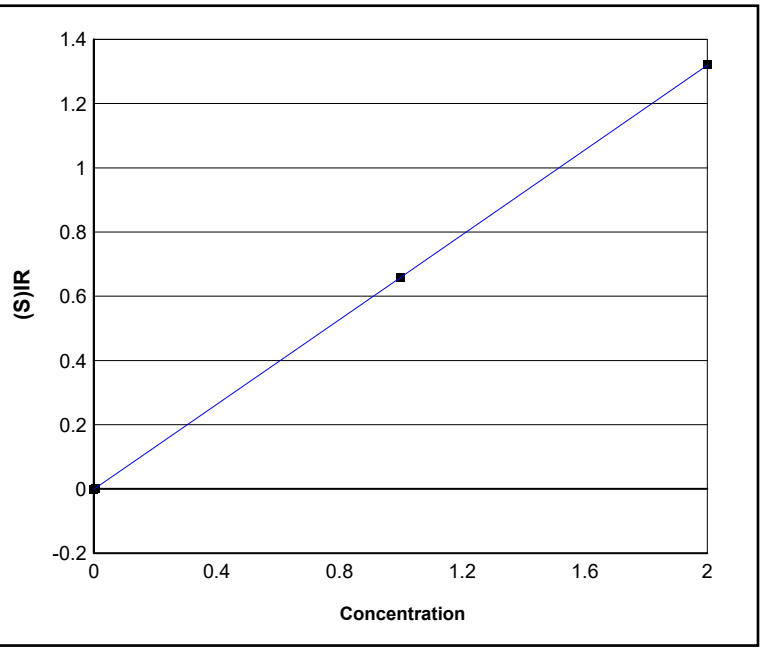
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000000017	0.0000000017	0.00000	-0.0029409	0.0013945	1
IC-6811103	0.0050000	0.0050186	0.000018578	0.37157	0.076329	0.0015257	1
IC-6817081	1.0000	0.99192	-0.0080834	-0.80834	15.665	0.16019	1
IC-6797476	2.0000	2.0081	0.0080648	0.40324	31.715	0.015629	1



Element Name:	Th
Element Wavelength:	Th 283.730 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-0.1271
A1 (Gain):	0.1272
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

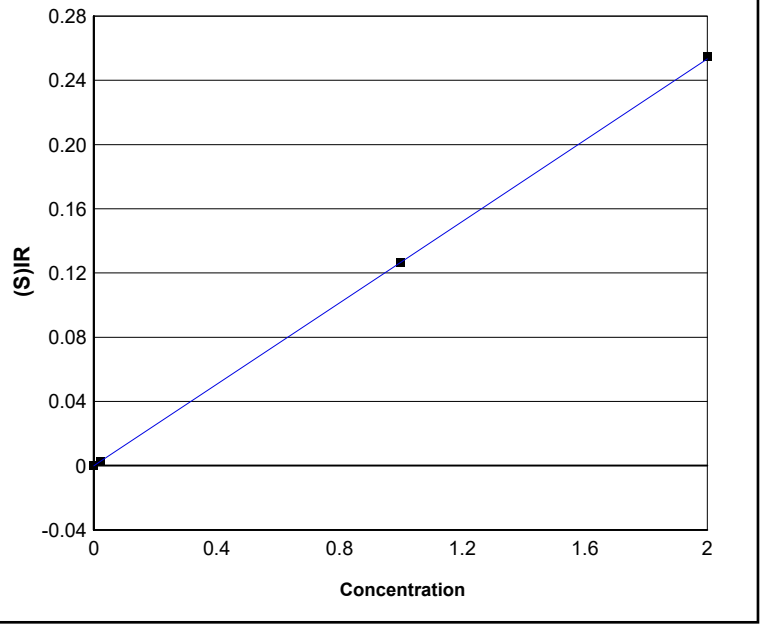
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-6811103	1.000	1.000	0.0000000000	0.0000000000	0.00008140	0.0003900	1
IC-6797476	2.000	2.000	0.0000000000	0.0000000000	0.1273	0.0002658	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.0010271
A1 (Gain):	0.66007
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

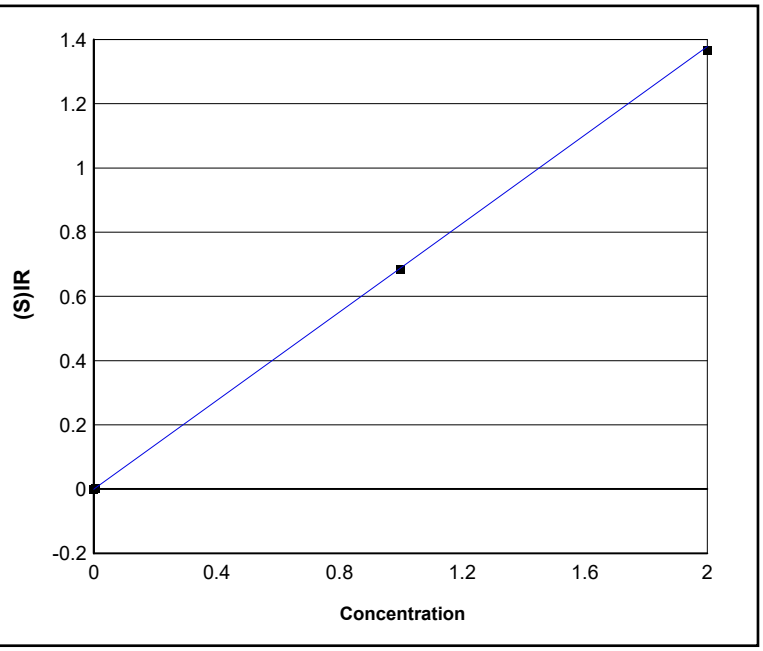
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000007627	0.0000007627	0.00000	-0.0010266	0.000016839	1
IC-6811103	0.0050000	0.0042358	-0.00076415	-15.283	0.0017736	0.00011163	1
IC-6817081	1.0000	0.99984	-0.00016489	-0.016489	0.65941	0.0014933	1
IC-6797476	2.0000	2.0009	0.00092958	0.046479	1.3207	0.000073607	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.000087285
A1 (Gain):	0.12669
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

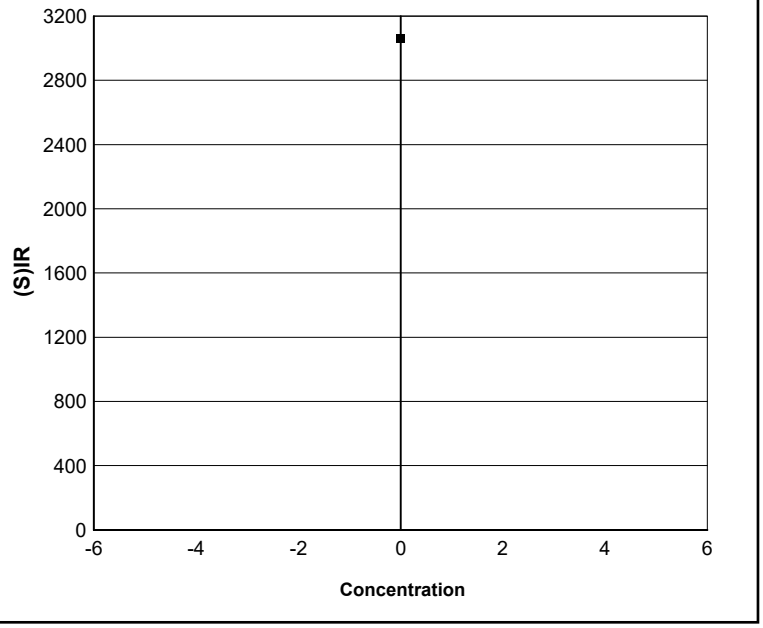
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000003163	-0.0000003163	0.00000	-0.000087325	0.000073565	1
IC-6811103	0.020000	0.020353	0.00035331	1.7665	0.0024934	0.00012320	1
IC-6817081	1.0000	0.99665	-0.0033523	-0.33523	0.12667	0.00030478	1
IC-6797476	2.0000	2.0030	0.0030001	0.15001	0.25466	0.0010108	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00014931
A1 (Gain):	0.68918
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

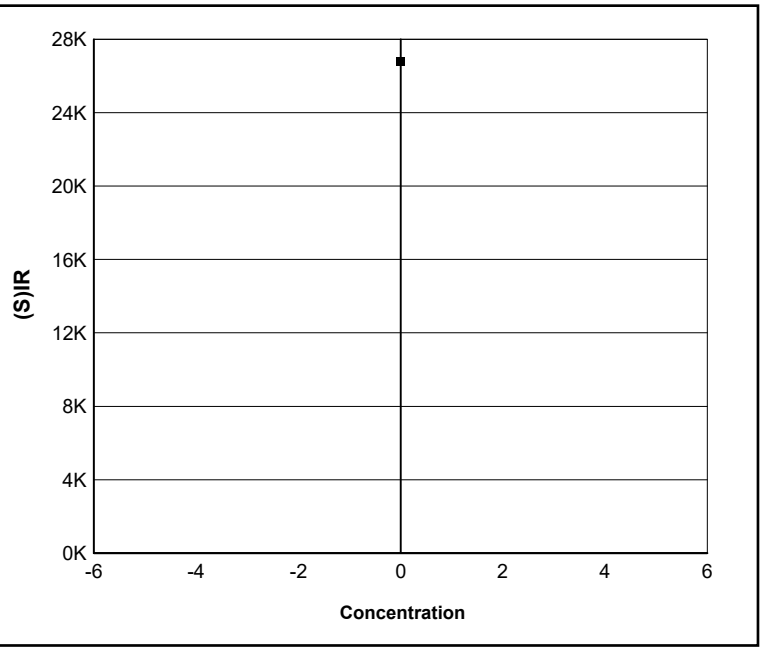
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000001866	0.0000001866	0.00000	-0.00014918	0.00026099	1
IC-6811103	0.0050000	0.0048114	-0.00018856	-3.7712	0.0030992	0.00025672	1
IC-6817081	1.0000	1.0006	0.00060449	0.060449	0.68326	0.00036637	1
IC-6797476	2.0000	1.9996	-0.00041795	-0.020897	1.3656	0.00042143	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:25:50AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

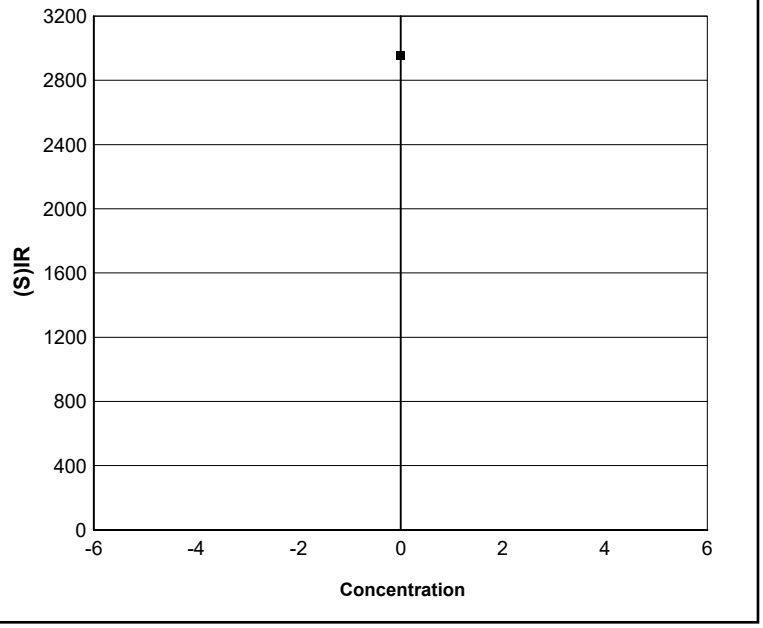
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.0000			0.0000	3,059	5.323	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:25:50AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

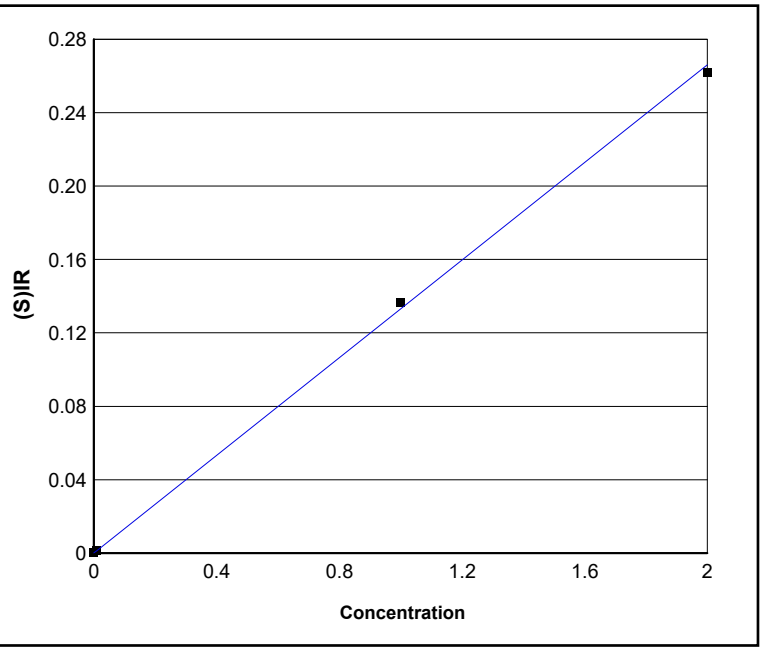
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.0000			0.0000	26,780	38.21	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:25:50AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

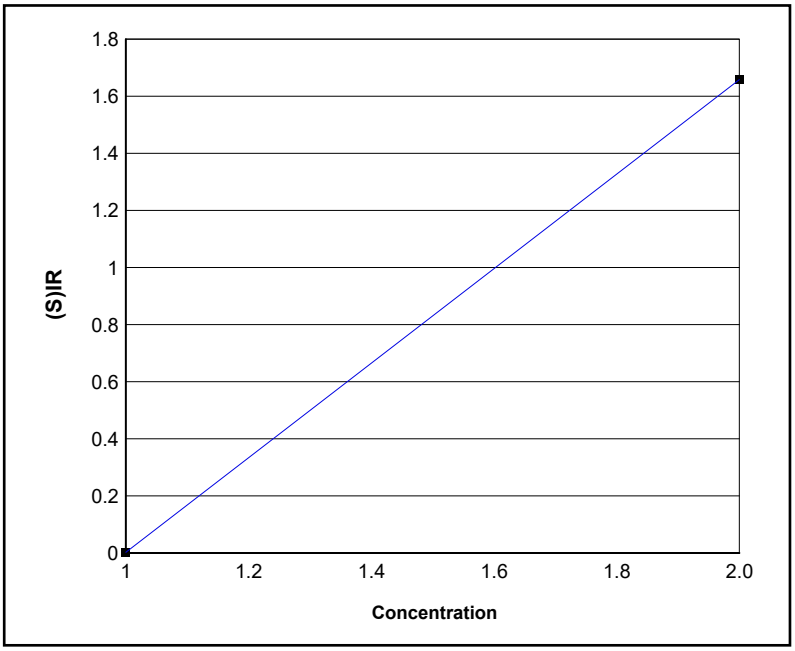
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.0000			0.0000	2,952	18.18	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	0.99979
A0 (Offset):	0.000066761
A1 (Gain):	0.13300
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000006230	-0.0000006230	0.00000	0.000066678	0.000024410	1
IC-6811103	0.010000	0.010484	0.00048352	4.8352	0.0014604	0.0000032090	1
IC-6817081	1.0000	1.0284	0.028381	2.8381	0.13668	0.00010687	1
IC-6797476	2.0000	1.9711	-0.028865	-1.4432	0.26191	0.00059372	1



Element Name:	Zr
Element Wavelength:	Zr 343.823 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 11:36:41AM
Date of Fit:	12/15/2021 12:26:22PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-1.654
A1 (Gain):	1.656
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-6811103	1.000	1.000	0.0000000000	0.0000000000	0.001848	0.001372	1
IC-6797476	2.000	2.000	0.0000000000	0.0000000000	1.658	0.000007293	1

Sample Name: ICIS-6810114 Acquired: 12/15/2021 11:22:11 Type: Cal
Method: ICAP2 New stds DEC2019(v783) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00077**	**.00138**	**-.00076**	**.00248**	**.02740**
Stddev	.00010	.00056	.00012	.00007	.00058
%RSD	12.414	40.606	16.225	2.8602	2.1139
#1	-.00084	.00099	-.00067	.00253	.02699
#2	-.00070	.00178	-.00085	.00243	.02781

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00464**	**-.00247**	**.01659**	**-.00073**	**.0015**
Stddev	.00085	.00190	.00089	.00005	.0028
%RSD	18.400	77.033	5.3438	7.0401	186.9
#1	.00524	-.00112	.01722	-.00077	-.0005
#2	.00403	-.00381	.01597	-.00070	.0035

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00107**	**.00021**	**-.00089**	**.00247**	**-.00114**
Stddev	.00013	.00007	.00021	.00054	.00023
%RSD	12.479	33.980	24.163	21.933	20.507
#1	.00116	.00016	-.00074	.00285	-.00098
#2	.00097	.00027	-.00104	.00208	-.00131

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.01258**	**-.01392**	**-.00001**	**.00105**	**.00013**
Stddev	.00005	.00406	.00002	.00048	.00002
%RSD	.40578	29.197	158.38	45.635	17.243
#1	-.01261	-.01104	-.00003	.00139	.00012
#2	-.01254	-.01679	.00000	.00071	.00015

Sample Name: ICIS-6810114 Acquired: 12/15/2021 11:22:11 Type: Cal
Method: ICAP2 New stds DEC2019(v783) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00126**	**-.02084**	**-.04906**	**-.00060**	**-.00090**
Stddev	.00021	.00067	.00268	.00014	.00005
%RSD	16.800	3.2075	5.4547	23.728	6.1307
#1	.00111	-.02037	-.04716	-.00070	-.00086
#2	.00141	-.02131	-.05095	-.00050	-.00093

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00344**	**.00007**	**-.00039**	**.00455**	**.00021**
Stddev	.00013	.00028	.00003	.00031	.00005
%RSD	3.9093	383.49	6.8970	6.9098	22.924
#1	-.00353	-.00013	-.00037	.00433	.00025
#2	-.00334	.00028	-.00041	.00477	.00018

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00294**	**-.00103**	**-.00009**	**-.00015**	**.00007**
Stddev	.00139	.00002	.00007	.00026	.00002
%RSD	47.416	1.6403	84.243	174.96	36.609
#1	-.00195	-.00101	-.00014	.00004	.00005
#2	-.00393	-.00104	-.00004	-.00033	.00008

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3466.9**	**3059.0**	**26781.**	**2951.7**
Stddev	2.1	5.3	38.	18.2
%RSD	.05941	.17401	.14266	.61577
#1	3465.5	3055.3	26808.	2964.6
#2	3468.4	3062.8	26754.	2938.9

Sample Name: IC-6811103 Acquired: 12/15/2021 11:25:58 Type: Cal
Method: ICAP2 New stds DEC2019(v783) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00183**	**.01060**	**.00110**	**.01477**	**.04555**
Stddev	.00013	.00116	.00000	.00006	.00202
%RSD	7.1543	10.955	.03365	.38189	4.4452
#1	.00174	.00978	.00110	.01481	.04412
#2	.00193	.01142	.00110	.01473	.04698

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03192**	**.02746**	**.24782**	**.00538**	**.00803**
Stddev	.00010	.00059	.00221	.00000	.00015
%RSD	.31224	2.1443	.89124	.08337	1.8541
#1	.03199	.02705	.24626	.00537	.00793
#2	.03185	.02788	.24939	.00538	.00814

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00195**	**.00351**	**.01431**	**-.00113**	**.04234**
Stddev	.00004	.00027	.00039	.00107	.00326
%RSD	1.9907	7.7799	2.7042	94.750	7.6916
#1	.00198	.00371	.01404	-.00189	.04464
#2	.00193	.00332	.01459	-.00037	.04003

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07695**	**.00881**	**.00887**	**.00058**	**.00960**
Stddev	.00531	.00027	.00026	.00005	.00002
%RSD	6.8965	3.1140	2.9434	8.5224	.21621
#1	.07319	.00900	.00906	.00062	.00961
#2	.08070	.00861	.00869	.00055	.00958

Sample Name: IC-6811103 Acquired: 12/15/2021 11:25:58 Type: Cal
Method: ICAP2 New stds DEC2019(v783) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.43705**	**-.03349**	**.00600**	**-.0014**	**.00267**
Stddev	.00223	.00491	.00007	.0002	.00020
%RSD	.51023	14.670	1.1758	15.09	7.3909
#1	.43548	-.03696	.00605	-.0015	.00281
#2	.43863	-.03002	.00595	-.0012	.00253

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00568**	**.00282**	**.00141**	**.04272**	**.00355**
Stddev	.00009	.00016	.00027	.00019	.00003
%RSD	1.5071	5.5838	19.480	.44744	.77025
#1	.00562	.00294	.00122	.04286	.00353
#2	.00574	.00271	.00161	.04259	.00357

Elem	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Line	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}	292.402 {115}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07633**	**.0001**	**.00177**	**.00249**	**.00310**
Stddev	.00153	.0004	.00011	.00012	.00026
%RSD	1.9989	479.2	6.2940	4.9409	8.2837
#1	.07741	.0004	.00185	.00241	.00328
#2	.07525	-.0002	.00169	.00258	.00292

Elem	Zn2062	Zr3438
Line	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S
Avg	**.00146**	**.0018**
Stddev	.00000	.0014
%RSD	.21973	74.24
#1	.00146	.0028
#2	.00146	.0009

Sample Name: IC-6811103 Acquired: 12/15/2021 11:25:58 Type: Cal
Method: ICAP2 New stds DEC2019(v783) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3450.6**	**3072.4**	**26741.**	**2968.4**
Stddev	2.4	4.3	74.	31.3
%RSD	.07095	.14020	.27566	1.0553
#1	3452.3	3075.4	26689.	2990.6
#2	3448.9	3069.3	26793.	2946.3

Sample Name: IC-6817081 Acquired: 12/15/2021 11:29:44 Type: Cal
Method: ICAP2 New stds DEC2019(v783) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.45223**	**2.3940**	**.12350**	**.66912**	**9.7732**
Stddev	.00091	.0188	.00013	.00007	.0950
%RSD	.20057	.78655	.10342	.01078	.97237
#1	.45287	2.4073	.12359	.66917	9.8404
#2	.45159	2.3806	.12341	.66907	9.7060

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13.387**	**14.806**	**23.043**	**3.0049**	**.0576**
Stddev	.087	.137	.208	.0021	.0005
%RSD	.64824	.92797	.90298	.06895	.9246
#1	13.326	14.903	23.190	3.0035	.0573
#2	13.448	14.708	22.896	3.0064	.0580

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.9176**	**.47426**	**.42360**	**12.341**	**.92230**
Stddev	.0006	.00047	.00021	.133	.00798
%RSD	.03003	.10000	.05056	1.0743	.86566
#1	1.9180	.47393	.42345	12.435	.92795
#2	1.9172	.47460	.42375	12.247	.91666

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.3235**	**3.0456**	**2.2195**	**2.5984**	**.15557**
Stddev	.0664	.0200	.0040	.0027	.00020
%RSD	1.0494	.65786	.17882	.10367	.12868
#1	6.3704	3.0598	2.2223	2.6003	.15571
#2	6.2766	3.0314	2.2167	2.5965	.15542

Sample Name: IC-6817081 Acquired: 12/15/2021 11:29:44 Type: Cal
Method: ICAP2 New stds DEC2019(v783) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.91902**	**23.433**	**.80555**	**.67073**	**.33914**
Stddev	.00030	.198	.00749	.00107	.00020
%RSD	.03303	.84455	.93010	.16006	.05948
#1	.91924	23.573	.80025	.67149	.33900
#2	.91881	23.293	.81085	.66997	.33928

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2485**	**.14256**	**.08219**	**.79055**	**.36331**
Stddev	.0010	.00032	.00012	.00116	.00039
%RSD	.08001	.22574	.14588	.14677	.10665
#1	1.2492	.14278	.08211	.78973	.36304
#2	1.2478	.14233	.08227	.79137	.36359

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**15.665**	**.65941**	**.12667**	**.68326**	**.13668**
Stddev	.160	.00149	.00030	.00037	.00011
%RSD	1.0226	.22646	.24060	.05362	.07819
#1	15.778	.65835	.12646	.68300	.13676
#2	15.552	.66046	.12689	.68352	.13661

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3048.4**	**3008.8**	**25618.**	**2968.4**
Stddev	2.8	4.1	70.	6.0
%RSD	.09056	.13647	.27268	.20319
#1	3046.5	3005.9	25667.	2964.1
#2	3050.4	3011.7	25569.	2972.6

Sample Name: IC-6797476 Acquired: 12/15/2021 11:33:17 Type: Cal
Method: ICAP2 New stds DEC2019(v783) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.90108**	**4.8496**	**.24778**	**1.2831**	**19.794**
Stddev	.00165	.0055	.00022	.0008	.003
%RSD	.18292	.11390	.08733	.05961	.01695
#1	.90225	4.8535	.24793	1.2825	19.797
#2	.89992	4.8457	.24762	1.2836	19.792

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**26.552**	**29.625**	**46.644**	**6.0338**	**.1160**
Stddev	.218	.028	.001	.0068	.0008
%RSD	.82252	.09295	.00242	.11341	.6498
#1	26.706	29.645	46.645	6.0386	.1165
#2	26.397	29.606	46.644	6.0290	.1155

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.9289**	**.93698**	**.85587**	**25.003**	**1.8542**
Stddev	.0060	.00046	.00077	.007	.0001
%RSD	.15351	.04898	.08950	.02861	.00558
#1	3.9332	.93731	.85641	25.008	1.8541
#2	3.9247	.93666	.85532	24.998	1.8543

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.993**	**6.1744**	**4.4977**	**5.1853**	**.31477**
Stddev	.017	.0065	.0109	.0080	.00005
%RSD	.13125	.10528	.24168	.15471	.01460
#1	13.005	6.1790	4.5054	5.1910	.31473
#2	12.981	6.1698	4.4900	5.1797	.31480

Sample Name: IC-6797476 Acquired: 12/15/2021 11:33:17 Type: Cal
Method: ICAP2 New stds DEC2019(v783) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	P_2136
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.8163**	**47.779**	**1.6582**	**1.3664**	**5.005**
Stddev	.0010	.015	.0040	.0031	.005
%RSD	.05376	.03068	.24096	.22480	.0950
#1	1.8170	47.769	1.6610	1.3686	5.009
#2	1.8156	47.789	1.6554	1.3642	5.002

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.69068**	**2.5223**	**.28729**	**.16623**	**1.5654**
Stddev	.00109	.0019	.00087	.00016	.0075
%RSD	.15839	.07361	.30111	.09772	.47701
#1	.69145	2.5236	.28790	.16612	1.5601
#2	.68991	2.5210	.28668	.16635	1.5706

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Line	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.74554**	**31.715**	**.1273**	**1.3207**	**.25466**
Stddev	.00091	.016	.0003	.0001	.00101
%RSD	.12273	.04928	.2088	.00557	.39690
#1	.74619	31.726	.1271	1.3207	.25538
#2	.74489	31.704	.1275	1.3206	.25395

Elem	V_2924	Zn2062	Zr3438
Line	292.402 {115}	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S	Cts/S
Avg	**1.3656**	**.26191**	**1.658**
Stddev	.0004	.00059	.000
%RSD	.03086	.22669	.0004
#1	1.3659	.26149	1.658
#2	1.3653	.26233	1.658

Sample Name: IC-6797476 Acquired: 12/15/2021 11:33:17 Type: Cal
Method: ICAP2 New stds DEC2019(v783) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2852.4**	**2941.8**	**24786.**	**2905.5**
Stddev	5.0	2.0	23.	5.7
%RSD	.17514	.06821	.09170	.19628
#1	2848.8	2940.4	24770.	2901.5
#2	2855.9	2943.2	24802.	2909.6

Sample Name: ICV-6817392 Acquired: 12/15/2021 11:36:49 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.73895**	**36.206**	**.72543**	**.73770**	**.71442**
Stddev	.00194	.011	.00019	.00089	.00259
%RSD	.26234	.02928	.02594	.12051	.36189
#1	.73758	36.198	.72556	.73833	.71625
#2	.74032	36.213	.72530	.73707	.71259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.72487**	**36.333**	**.72743**	**-.0252**	W **.70945**
Stddev	.00017	.043	.00012	.0453	.00020
%RSD	.02327	.11819	.01602	180.0	.02790
#1	.72499	36.303	.72751	.0069	.70959
#2	.72476	36.364	.72735	-.0572	.70931
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Warn
Value					.75000
Range					-5.0000%

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.73067**	W **.70710**	**36.981**	**36.279**	**.71760**
Stddev	.00052	.00042	.099	.022	.00153
%RSD	.07093	.06000	.26744	.06136	.21298
#1	.73031	.70740	36.911	36.264	.71652
#2	.73104	.70680	37.051	36.295	.71868
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.75000			
Range		-5.0000%			

Sample Name: ICV-6817392 Acquired: 12/15/2021 11:36:49 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.500**	**.73993**	**.75092**	**35.797**	**.72024**
Stddev	.051	.00030	.00010	.038	.00111
%RSD	.13868	.04024	.01393	.10670	.15407
#1	36.536	.74014	.75100	35.770	.71945
#2	36.464	.73972	.75085	35.824	.72102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.31**	**.72676**	**18.470**	**.77796**	**.72185**
Stddev	.02	.00213	.048	.00171	.00225
%RSD	.0461	.29345	.26138	.21991	.31136
#1	34.32	.72826	18.505	.77917	.72026
#2	34.30	.72525	18.436	.77675	.72343
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4424**	**.71255**	**.72275**	**1.038**	**.73335**
Stddev	.0272	.00073	.00069	.005	.00123
%RSD	.36601	.10288	.09484	.4770	.16745
#1	7.4232	.71203	.72226	1.042	.73248
#2	7.4617	.71307	.72323	1.035	.73421
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: ICV-6817392 Acquired: 12/15/2021 11:36:49 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.73230**	**.72718**	**.72278**	**1.007**
Stddev	.00179	.00239	.00082	.001
%RSD	.24471	.32871	.11346	.1335
#1	.73357	.72549	.72220	1.008
#2	.73103	.72887	.72336	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3071.7**	**2995.0**	**25547.**	**2941.5**
Stddev	8.8	7.6	58.	17.0
%RSD	.28655	.25501	.22692	.57767
#1	3077.9	3000.4	25588.	2953.5
#2	3065.5	2989.6	25506.	2929.5

Sample Name: ICB-6810114 Acquired: 12/15/2021 11:40:24 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**-.00076**	**.00207**	**.00101**	**.00012**
Stddev	.00080	.02432	.00282	.00009	.00005
%RSD	113.28	3184.7	135.87	9.3034	41.775
#1	-.00128	-.01796	.00008	.00095	.00009
#2	-.00014	.01644	.00406	.00108	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00454**	**.00028**	**-.0205**	**.00005**
Stddev	.00005	.00609	.00008	.0738	.00000
%RSD	20.899	134.01	26.844	359.3	4.6211
#1	.00028	.00024	.00033	-.0727	.00005
#2	.00021	.00885	.00023	.0316	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00075**	**.00963**	**.04772**	**.00002**
Stddev	.00082	.00045	.00539	.02501	.00046
%RSD	573.45	60.325	55.968	52.410	2822.5
#1	.00043	.00043	.00582	.06540	-.00031
#2	-.00072	.00107	.01344	.03003	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-6810114 Acquired: 12/15/2021 11:40:24 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00432**	**.00010**	**.00083**	**-.00515**	**.00065**
Stddev	.00156	.00002	.00025	.01694	.00023
%RSD	36.073	21.255	29.668	329.06	35.212
#1	.00542	.00008	.00066	-.01712	.00081
#2	.00322	.00011	.00101	.00683	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00092**	**.00429**	**.00015**	**-.00000**
Stddev	.00	.00059	.00172	.00111	.00441
%RSD	.0017	64.087	40.053	752.21	107260.
#1	25.01	.00133	.00550	.00093	.00311
#2	25.01	.00050	.00307	-.00064	-.00312
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01271**	**.00080**	**.00016**	**.9976**	**-.00003**
Stddev	.00364	.00044	.00007	.0077	.00024
%RSD	28.640	54.756	44.997	.7765	767.19
#1	.01528	.00111	.00021	.9921	-.00020
#2	.01013	.00049	.00011	1.003	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-6810114 Acquired: 12/15/2021 11:40:24 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00079**	**-.00012**	**.00016**	**.9983**
Stddev	.00023	.00027	.00029	.0016
%RSD	29.193	224.87	181.40	.1573
#1	.00096	.00007	.00037	.9972
#2	.00063	-.00031	-.00005	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3486.6**	**3067.8**	**26940.**	**2953.6**
Stddev	2.3	3.3	62.	10.1
%RSD	.06690	.10715	.23041	.34034
#1	3484.9	3065.5	26896.	2946.5
#2	3488.2	3070.1	26984.	2960.7

Sample Name: ICVL-6811103 Acquired: 12/15/2021 11:44:11 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00633**	**.22104**	**.01596**	**.02008**	**.00215**
Stddev	.00003	.03308	.00082	.00018	.00006
%RSD	.46637	14.963	5.1508	.89500	2.8289
#1	.00635	.24443	.01538	.02020	.00219
#2	.00631	.19766	.01654	.01995	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00218**	**.50800**	**.00220**	**-.0586**	**.00369**
Stddev	.00003	.00754	.00012	.0066	.00007
%RSD	1.5493	1.4838	5.3608	11.29	1.9617
#1	.00221	.50267	.00228	-.0539	.00375
#2	.00216	.51333	.00212	-.0633	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00432**	**.01097**	**.05345**	**.45140**	**.03008**
Stddev	.00029	.00018	.00137	.07353	.00180
%RSD	6.8009	1.6612	2.5718	16.288	5.9799
#1	.00453	.01084	.05442	.50339	.03136
#2	.00411	.01110	.05247	.39941	.02881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-6811103 Acquired: 12/15/2021 11:44:11 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20275**	**.00313**	**.00986**	**.96318**	**.00971**
Stddev	.00271	.00000	.00005	.01616	.00052
%RSD	1.3391	.03601	.54191	1.6783	5.3282
#1	.20083	.00313	.00982	.95175	.01008
#2	.20467	.00313	.00989	.97461	.00935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01061**	**.18531**	**.02012**	**.02412**
Stddev	.00	.00057	.00191	.00080	.00025
%RSD	.0041	5.3375	1.0326	3.9992	1.0355
#1	25.00	.01101	.18667	.01955	.02430
#2	25.00	.01021	.18396	.02069	.02394
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47570**	**.00928**	**.00514**	F **1.003**	**.00453**
Stddev	.02359	.00000	.00009	.000	.00002
%RSD	4.9594	.03506	1.7932	.0059	.41177
#1	.45901	.00928	.00508	1.003	.00451
#2	.49238	.00929	.00521	1.003	.00454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: ICVL-6811103 Acquired: 12/15/2021 11:44:11 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01989**	**.00449**	**.01015**	F **.9985**
Stddev	.00070	.00063	.00028	.0002
%RSD	3.5165	13.983	2.7587	.0175
#1	.02039	.00405	.00995	.9984
#2	.01940	.00494	.01035	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3479.1**	**3096.9**	**27063.**	**3006.1**
Stddev	4.5	5.5	21.	.2
%RSD	.12835	.17607	.07799	.00711
#1	3482.3	3100.7	27078.	3006.2
#2	3476.0	3093.0	27049.	3005.9

Sample Name: ICSA-6812501 Acquired: 12/15/2021 11:47:58 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00115**	**513.56**	**-.00297**	**-.00174**	**.01406**
Stddev	.00058	.22	.00454	.00015	.00007
%RSD	49.896	.04245	152.80	8.3941	.52423
#1	-.00075	513.40	.00024	-.00164	.01411
#2	-.00156	513.71	-.00618	-.00185	.01401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**486.61**	**.00065**	**.0303**	**-.00006**
Stddev	.00001	.63	.00012	.0072	.00033
%RSD	28.209	.12904	18.323	23.84	555.06
#1	.00003	486.17	.00056	.0354	.00018
#2	.00005	487.05	.00073	.0252	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**-.00228**	**193.57**	**.03139**	**.01887**
Stddev	.00014	.00101	.08	.06019	.00175
%RSD	6.5843	44.142	.04332	191.77	9.3000
#1	.00219	-.00157	193.63	.07394	.01763
#2	.00200	-.00299	193.51	-.01117	.02011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-6812501 Acquired: 12/15/2021 11:47:58 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**532.32**	**-.00017**	**-.00148**	**.06831**	**.00105**
Stddev	.63	.00010	.00051	.01587	.00036
%RSD	.11774	57.542	34.718	23.237	34.469
#1	531.88	-.00010	-.00184	.07953	.00080
#2	532.76	-.00023	-.00111	.05708	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.90**	**-.00545**	**-.13440**	**-.00687**	**.00678**
Stddev	.00	.00006	.00005	.00151	.00456
%RSD	.0038	1.0885	.03792	21.987	67.189
#1	24.90	-.00541	-.13443	-.00581	.00356
#2	24.90	-.00550	-.13436	-.00794	.01000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02323**	**.00023**	**.01345**	**1.100**	**.00342**
Stddev	.01308	.00234	.00001	.002	.00025
%RSD	56.309	1035.1	.05379	.1917	7.2916
#1	-.03248	-.00143	.01346	1.102	.00359
#2	-.01398	.00188	.01345	1.099	.00324
Check ?	None	Chk Pass	None	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-6812501 Acquired: 12/15/2021 11:47:58 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00047**	**.00210**	**1.003**
Stddev	.00055	.00021	.00073	.001
%RSD	445.33	43.874	34.593	.0708
#1	.00051	-.00062	.00262	1.002
#2	-.00027	-.00032	.00159	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2547.0**	**2744.5**	**22871.**	**2885.7**
Stddev	2.8	1.4	7.	6.9
%RSD	.10978	.05164	.03102	.23972
#1	2545.0	2743.5	22876.	2890.6
#2	2548.9	2745.5	22866.	2880.8

Sample Name: ICSAB-6743474 Acquired: 12/15/2021 11:51:49 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.55038**	**501.09**	**.50609**	**4.8821**	**.53470**
Stddev	.00104	.53	.00443	.0039	.00038
%RSD	.18918	.10576	.87446	.07907	.07017
#1	.54965	500.72	.50296	4.8794	.53443
#2	.55112	501.47	.50922	4.8848	.53496
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24972**	**480.69**	**.52068**	**.0152**	**.51181**
Stddev	.00054	.58	.00019	.0192	.00097
%RSD	.21598	.12091	.03706	126.3	.18869
#1	.25010	481.10	.52055	.0287	.51249
#2	.24933	480.28	.52082	.0016	.51112
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50237**	**.51877**	**189.52**	**5.1478**	**.01773**
Stddev	.00029	.00165	.00	.0197	.00031
%RSD	.05817	.31745	.00003	.38208	1.7442
#1	.50217	.51761	189.52	5.1617	.01751
#2	.50258	.51993	189.52	5.1339	.01795
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-6743474 Acquired: 12/15/2021 11:51:49 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**517.82**	**.49684**	**.49716**	**5.0353**	**.50767**
Stddev	1.06	.00078	.00029	.0176	.00059
%RSD	.20535	.15772	.05750	.35009	.11681
#1	517.06	.49629	.49736	5.0229	.50809
#2	518.57	.49740	.49695	5.0478	.50725
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.23**	**.51410**	**-.13519**	**.50305**	**.49042**
Stddev	.00	.00159	.00419	.00562	.00040
%RSD	.0105	.30985	3.0994	1.1168	.08193
#1	27.24	.51523	-.13223	.50702	.49014
#2	27.23	.51297	-.13816	.49908	.49071
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8833**	**.51396**	**.50356**	**1.082**	**.51657**
Stddev	.0197	.00001	.00005	.008	.00221
%RSD	.40405	.00282	.00933	.7723	.42712
#1	4.8694	.51397	.50352	1.076	.51501
#2	4.8973	.51395	.50359	1.088	.51813
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ICSAB-6743474 Acquired: 12/15/2021 11:51:49 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.50563**	**.50354**	**.47894**	**1.001**
Stddev	.00169	.00086	.00180	.001
%RSD	.33522	.16994	.37543	.0876
#1	.50443	.50293	.47767	1.000
#2	.50683	.50414	.48021	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2541.9**	**2740.7**	**22923.**	**2864.5**
Stddev	2.7	.1	103.	10.2
%RSD	.10798	.00480	.44749	.35596
#1	2539.9	2740.8	22996.	2857.3
#2	2543.8	2740.6	22851.	2871.7

Sample Name: ICEX1 Acquired: 12/15/2021 11:55:30 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.10647**	**4.8348**	**.00360**	**.00008**
Stddev	.00050	.00572	.0031	.00053	.00000
%RSD	454.27	5.3709	.06343	14.757	5.6323
#1	.00047	-.10243	4.8369	.00398	.00008
#2	-.00024	-.11052	4.8326	.00323	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00151**	**.03594**	**.00005**	**-.0185**	**.00011**
Stddev	.00004	.00023	.00008	.0166	.00012
%RSD	2.5457	.63532	152.62	89.85	106.25
#1	.00154	.03578	-.00000	-.0067	.00003
#2	.00149	.03610	.00010	-.0303	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**26.100**	**.01698**	**-.05900**	**.00149**
Stddev	.00003	.332	.00158	.03262	.00128
%RSD	3.5348	1.2704	9.3194	55.291	85.814
#1	.00082	25.866	.01586	-.08207	.00240
#2	.00078	26.334	.01810	-.03593	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 12/15/2021 11:55:30 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03097**	**-.00017**	**-.00122**	**-.01541**	**.00020**
Stddev	.00540	.00002	.00009	.00428	.00015
%RSD	17.441	14.077	7.3119	27.788	72.419
#1	.02715	-.00018	-.00128	-.01239	.00010
#2	.03478	-.00015	-.00115	-.01844	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**-.00696**	**-.00212**	**-.00155**	**.00067**
Stddev	-----	.00131	.00175	.00157	.00088
%RSD	-----	18.771	82.439	101.34	131.43
#1	^ -----	-.00604	-.00088	-.00265	.00005
#2	^ -----	-.00788	-.00335	-.00044	.00130
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03290**	**.00021**	**.00007**	**1.002**	**.00011**
Stddev	.00759	.00050	.00004	.009	.00032
%RSD	23.074	238.37	52.458	.9459	297.70
#1	.02753	-.00014	.00004	.9955	.00033
#2	.03827	.00056	.00010	1.009	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 12/15/2021 11:55:30 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00000**	**4.9216**	**-.00012**	**.9983**
Stddev	.00219	.0040	.00015	.0005
%RSD	84035.	.08065	133.45	.0546
#1	.00155	4.9245	-.00022	.9986
#2	-.00155	4.9188	-.00001	.9979
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3468.2**	**3072.1**	**26989.**	**2884.6**
Stddev	4.4	6.3	104.	13.3
%RSD	.12815	.20423	.38456	.45962
#1	3465.1	3067.7	27063.	2875.2
#2	3471.3	3076.6	26916.	2894.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.04%	100.43%	100.78%	97.726%
Range				

Sample Name: ICEX2 Acquired: 12/15/2021 11:59:25 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00167**	**.09221**	**.00300**	**.00324**	**-.00001**
Stddev	.00017	.01957	.00167	.00020	.00001
%RSD	9.9164	21.224	55.651	6.0496	109.54
#1	-.00155	.10605	.00182	.00310	-.00000
#2	-.00178	.07837	.00417	.00338	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.04005**	**.00042**	**-.0312**	**-.00173**
Stddev	.00001	.00203	.00013	.0547	.00023
%RSD	13.672	5.0627	30.150	175.1	13.040
#1	-.00006	.04148	.00033	.0074	-.00189
#2	-.00008	.03861	.00051	-.0699	-.00157
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**-.00003**	**.00937**	**-.04466**	**9.9179**
Stddev	.00034	.00003	.00355	.05728	.0008
%RSD	70.122	86.540	37.878	128.26	.00825
#1	-.00025	-.00001	.01188	-.08516	9.9174
#2	-.00073	-.00005	.00686	-.00416	9.9185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 12/15/2021 11:59:25 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02005**	**.00031**	**.00007**	**-.01298**	**.00710**
Stddev	.00229	.00003	.00015	.00580	.00039
%RSD	11.433	10.638	206.86	44.693	5.4740
#1	.01843	.00033	-.00003	-.00888	.00737
#2	.02167	.00028	.00018	-.01709	.00683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00810**	**-.00537**	**-.00060**	**.00066**
Stddev	.00	.00204	.00162	.00170	.00233
%RSD	.0002	25.150	30.138	284.72	350.49
#1	25.01	.00954	-.00651	-.00180	-.00098
#2	25.01	.00666	-.00422	.00060	.00231
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.300**	**-.00250**	**.00018**	**.9991**	**20.110**
Stddev	.292	.00066	.00001	.0005	.132
%RSD	.59301	26.521	4.4445	.0545	.65845
#1	49.093	-.00203	.00018	.9987	20.204
#2	49.506	-.00297	.00019	.9995	20.017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 12/15/2021 11:59:25 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**20.508**	**-.00306**	**-.00046**	**1.004**
Stddev	.011	.00023	.00019	.000
%RSD	.05227	7.4855	41.615	.0412
#1	20.501	-.00323	-.00032	1.004
#2	20.516	-.00290	-.00059	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3265.5**	**3056.9**	**26508.**	**2972.1**
Stddev	6.5	6.7	83.	19.0
%RSD	.19773	.21970	.31433	.64070
#1	3260.9	3052.2	26449.	2958.7
#2	3270.1	3061.7	26567.	2985.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.190%	99.931%	98.982%	100.69%
Range				

Sample Name: ICEX3 Acquired: 12/15/2021 12:03:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.04739**	**.00567**	**.00155**	**-.00004**
Stddev	.00080	.07076	.00110	.00064	.00001
%RSD	289.02	149.32	19.430	41.492	25.262
#1	.00029	.09742	.00645	.00200	-.00005
#2	-.00084	-.00265	.00489	.00109	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.03411**	**.00043**	**-.6614**	**-.00011**
Stddev	.00012	.00612	.00014	.0032	.00001
%RSD	183.84	17.929	33.557	.4908	13.604
#1	-.00002	.03843	.00033	-.6637	-.00012
#2	.00014	.02978	.00053	-.6591	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00300**	**.00107**	**-.00584**	**.00218**	**.00421**
Stddev	.00011	.00024	.00199	.01239	.00043
%RSD	3.6251	22.468	34.152	569.19	10.303
#1	-.00308	.00123	-.00443	.01094	.00452
#2	-.00292	.00090	-.00725	-.00658	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 12/15/2021 12:03:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**49.187**	**-.00205**	**-.00510**	**.00081**
Stddev	.00303	.132	.00003	.00577	.00042
%RSD	255.48	.26802	1.3288	113.02	52.550
#1	.00332	49.281	-.00207	-.00918	.00111
#2	-.00096	49.094	-.00203	-.00102	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00647**	**96.909**	**-.00722**	**.00226**
Stddev	.00	.00078	.226	.00266	.00235
%RSD	.0047	12.065	.23321	36.812	103.78
#1	25.01	.00703	97.068	-.00910	.00060
#2	25.01	.00592	96.749	-.00534	.00392
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03316**	**-.00011**	**.00016**	**.9952**	**.00484**
Stddev	.00248	.00020	.00004	.0022	.00026
%RSD	7.4873	187.99	27.641	.2172	5.3299
#1	.03141	-.00025	.00019	.9936	.00465
#2	.03492	.00004	.00013	.9967	.00502
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 12/15/2021 12:03:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.01002**	**.00191**	**-.00002**	**.9811**
Stddev	.00087	.00014	.00001	.0005
%RSD	8.7197	7.1892	21.618	.0474
#1	-.00941	.00201	-.00003	.9808
#2	-.01064	.00181	-.00002	.9814
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3487.9**	**3122.8**	**27190.**	**3019.2**
Stddev	3.0	4.4	41.	16.8
%RSD	.08607	.14065	.15020	.55628
#1	3485.8	3119.7	27219.	3031.1
#2	3490.1	3125.9	27161.	3007.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.61%	102.08%	101.53%	102.28%
Range				

Sample Name: ICEX4 Acquired: 12/15/2021 12:07:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.01763**	**-.00870**	**-.00015**	**.00010**
Stddev	.00024	.00374	.00068	.00016	.00002
%RSD	86.827	21.211	7.7868	100.21	23.535
#1	.00011	.01498	-.00918	-.00005	.00012
#2	.00044	.02027	-.00823	-.00026	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.01746**	**.00029**	**.0190**	**19.100**
Stddev	.00005	.00347	.00003	.0069	.034
%RSD	181.69	19.864	9.7126	36.11	.17599
#1	.00001	.01991	.00027	.0239	19.124
#2	-.00006	.01501	.00031	.0142	19.076
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.375**	**.00647**	**.00214**	**-.05029**	**.00407**
Stddev	.003	.00042	.00039	.03013	.00137
%RSD	.03357	6.4434	18.071	59.926	33.586
#1	10.372	.00676	.00242	-.07159	.00311
#2	10.377	.00617	.00187	-.02898	.00504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 12/15/2021 12:07:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01038**	**.00230**	**-.00070**	**-.01520**	**9.6223**
Stddev	.00482	.00047	.00008	.00108	.0120
%RSD	46.472	20.628	12.035	7.1124	.12480
#1	.01379	.00263	-.00076	-.01596	9.6308
#2	.00697	.00196	-.00064	-.01444	9.6139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00064**	**.05288**	**-.00836**	**-.00404**
Stddev	.00	.00105	.00382	.00098	.00125
%RSD	.0027	164.02	7.2166	11.699	31.080
#1	25.00	.00010	.05558	-.00767	-.00492
#2	25.00	-.00138	.05018	-.00905	-.00315
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.13559**	**-.00020**	**.00013**	**.9972**	**.00310**
Stddev	.01963	.00026	.00007	.0001	.00027
%RSD	14.479	131.15	55.097	.0114	8.6225
#1	-.14947	-.00038	.00018	.9973	.00291
#2	-.12170	-.00001	.00008	.9972	.00329
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 12/15/2021 12:07:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00744**	**-.00019**	**-.00166**	**.9945**
Stddev	.00062	.00002	.00053	.0009
%RSD	8.3130	10.963	32.196	.0882
#1	-.00788	-.00017	-.00128	.9951
#2	-.00700	-.00020	-.00204	.9939
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3511.9**	**3043.2**	**26871.**	**2996.8**
Stddev	12.2	6.3	115.	41.9
%RSD	.34632	.20707	.42694	1.3992
#1	3503.3	3038.7	26953.	3026.5
#2	3520.5	3047.6	26790.	2967.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.30%	99.481%	100.34%	101.53%
Range				

Sample Name: ICEX5 Acquired: 12/15/2021 12:10:49 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.14917**	**.00008**	**.01655**	**-.00009**
Stddev	.00032	.01627	.00089	.00090	.00003
%RSD	57.875	10.910	1059.1	5.4418	30.854
#1	-.00033	.16067	-.00055	.01591	-.00007
#2	-.00079	.13766	.00071	.01718	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.01083**	**.00012**	**-.0809**	**-.00192**
Stddev	.00003	.00196	.00004	.0311	.00001
%RSD	29.182	18.068	32.921	38.39	.38507
#1	-.00007	.01222	.00015	-.1029	-.00192
#2	-.00011	.00945	.00009	-.0590	-.00193
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00192**	**.00275**	**-.09540**	**.00135**
Stddev	.00036	.00036	.00155	.03895	.00065
%RSD	181.32	18.685	56.373	40.834	48.115
#1	.00006	-.00217	.00384	-.12294	.00181
#2	-.00045	-.00166	.00165	-.06785	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 12/15/2021 12:10:49 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.04876**	**.00195**	**5.0846**	**.00099**	**.00038**
Stddev	.00401	.00004	.0075	.03056	.00013
%RSD	8.2299	2.0893	.14676	3073.6	33.499
#1	-.04592	.00198	5.0793	-.02062	.00029
#2	-.05159	.00192	5.0898	.02261	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00192**	**-.02445**	**.00162**	**.00084**
Stddev	.00	.00074	.00411	.00159	.00081
%RSD	.0065	38.750	16.824	98.158	95.462
#1	25.00	.00139	-.02154	.00050	.00027
#2	25.00	.00244	-.02735	.00275	.00141
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12141**	**-.00021**	**-.00000**	**1.001**	**-.00086**
Stddev	.00124	.00024	.00010	.002	.00004
%RSD	1.0175	112.24	3395.4	.2281	4.6933
#1	.12054	-.00038	-.00008	1.002	-.00089
#2	.12228	-.00004	.00007	.9990	-.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 12/15/2021 12:10:49 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00159**	**-.00007**	**-.00053**	**.9993**
Stddev	.00072	.00009	.00001	.0006
%RSD	45.414	131.65	1.5613	.0564
#1	.00108	-.00014	-.00053	.9989
#2	.00210	-.00000	-.00054	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3479.9**	**3091.4**	**27008.**	**2978.7**
Stddev	6.9	5.0	24.	2.2
%RSD	.19768	.16132	.09026	.07283
#1	3484.8	3094.9	26991.	2977.2
#2	3475.1	3087.9	27025.	2980.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.38%	101.06%	100.85%	100.91%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 12:14:36 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0127**	**49.453**	**.98581**	**1.0289**	**.97649**
Stddev	.0010	.170	.00051	.0040	.00165
%RSD	.09554	.34384	.05198	.39322	.16854
#1	1.0120	49.333	.98545	1.0261	.97765
#2	1.0134	49.573	.98617	1.0318	.97533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98780**	**49.543**	**.99295**	**1.021**	**.98754**
Stddev	.00215	.094	.00061	.012	.00035
%RSD	.21743	.18930	.06120	1.172	.03594
#1	.98932	49.609	.99338	1.029	.98729
#2	.98628	49.477	.99252	1.012	.98779
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99965**	**.99837**	**50.012**	**49.286**	**.98641**
Stddev	.00131	.00429	.128	.137	.00036
%RSD	.13095	.43007	.25604	.27861	.03634
#1	.99872	.99533	50.102	49.383	.98666
#2	1.0006	1.0014	49.921	49.189	.98615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 12:14:36 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.346**	**1.0005**	**1.0164**	**48.922**	**.98266**
Stddev	.002	.0021	.0004	.118	.00180
%RSD	.00383	.21429	.03763	.24029	.18354
#1	49.347	.99895	1.0161	49.005	.98394
#2	49.344	1.0020	1.0167	48.838	.98139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.41**	**.99012**	**24.804**	**.99410**	**.99324**
Stddev	.03	.00150	.024	.00236	.00077
%RSD	.0715	.15150	.09654	.23764	.07733
#1	37.39	.98906	24.787	.99577	.99378
#2	37.43	.99118	24.821	.99243	.99270
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8912**	**.98457**	**.98945**	**1.511**	**.99975**
Stddev	.0013	.00114	.00255	.009	.00184
%RSD	.01323	.11622	.25754	.5708	.18357
#1	9.8921	.98376	.99125	1.518	.99845
#2	9.8903	.98538	.98765	1.505	1.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 12:14:36 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99541**	**.99683**	**1.0178**	**1.494**
Stddev	.00016	.00280	.0001	.001
%RSD	.01647	.28096	.01207	.0527
#1	.99530	.99485	1.0177	1.493
#2	.99553	.99881	1.0179	1.494
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3030.4**	**2993.7**	**25432.**	**2955.7**
Stddev	7.3	3.3	.	4.1
%RSD	.24160	.10957	.00042	.13745
#1	3025.2	2991.4	25432.	2952.8
#2	3035.5	2996.1	25432.	2958.5

Sample Name: CCB-6810114 Acquired: 12/15/2021 12:18:09 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.00272**	**.00180**	**-.00007**	**-.00003**
Stddev	.00081	.00926	.00174	.00018	.00004
%RSD	165.03	340.05	96.720	270.36	144.83
#1	-.00106	.00927	.00303	.00006	.00000
#2	.00008	-.00382	.00057	-.00020	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00389**	**.00008**	**-.0806**	**.00024**
Stddev	.00002	.00119	.00017	.0092	.00021
%RSD	193.24	30.529	219.17	11.36	88.148
#1	.00000	.00305	-.00004	-.0871	.00009
#2	-.00003	.00473	.00020	-.0742	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00051**	**-.00000**	**-.05721**	**.00032**
Stddev	.00028	.00071	.00473	.01151	.00089
%RSD	260.84	139.54	153970.	20.118	273.55
#1	.00031	.00102	-.00335	-.04907	.00095
#2	-.00009	.00001	.00334	-.06535	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 12:18:09 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00562**	**.00096**	**.00188**	**-.01432**	**.00066**
Stddev	.00157	.00010	.00005	.02224	.00021
%RSD	27.938	10.950	2.9084	155.36	32.374
#1	.00451	.00103	.00184	.00141	.00081
#2	.00673	.00088	.00191	-.03005	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00127**	**.00072**	**-.00050**	**.00227**
Stddev	.00	.00007	.00321	.00172	.00083
%RSD	.0064	5.5132	444.66	340.75	36.738
#1	25.01	.00122	-.00155	-.00172	.00168
#2	25.01	.00132	.00299	.00071	.00286
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00144**	**.00006**	**.00002**	**1.004**	**.00018**
Stddev	.00964	.00004	.00030	.001	.00012
%RSD	667.33	69.617	1324.5	.1010	67.041
#1	-.00537	.00009	-.00019	1.005	.00009
#2	.00826	.00003	.00024	1.003	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 12:18:09 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00010**	**.00028**	**.9998**
Stddev	.00099	.00046	.00014	.0001
%RSD	80.016	440.78	51.347	.0071
#1	.00194	.00043	.00018	.9999
#2	.00054	-.00022	.00038	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3486.5**	**3077.2**	**26984.**	**2982.8**
Stddev	9.6	5.8	38.	49.1
%RSD	.27540	.18927	.14178	1.6445
#1	3479.7	3073.1	26957.	3017.5
#2	3493.3	3081.4	27012.	2948.1

Sample Name: CCVL-6811103 Acquired: 12/15/2021 12:31:56 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00548**	**.21542**	**.01516**	**.01857**	**.00200**
Stddev	.00029	.04515	.00108	.00050	.00002
%RSD	5.2974	20.958	7.1253	2.6708	1.1867
#1	.00568	.18350	.01593	.01822	.00201
#2	.00527	.24735	.01440	.01893	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.49560**	**.00205**	**-.0554**	**.00365**
Stddev	.00015	.00165	.00000	.0335	.00028
%RSD	7.6044	.33292	.16731	60.43	7.5497
#1	.00208	.49444	.00205	-.0791	.00346
#2	.00187	.49677	.00205	-.0317	.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00354**	**.01036**	**.04949**	**.41336**	**.03146**
Stddev	.00030	.00027	.00135	.00448	.00035
%RSD	8.5515	2.6010	2.7289	1.0848	1.1262
#1	.00333	.01017	.04854	.41019	.03121
#2	.00376	.01055	.05045	.41653	.03171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 12:31:56 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20052**	**.00336**	**.01023**	**.95334**	**.00951**
Stddev	.00370	.00001	.00001	.00228	.00000
%RSD	1.8448	.36302	.07231	.23875	.02916
#1	.20314	.00335	.01023	.95173	.00952
#2	.19791	.00337	.01024	.95495	.00951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01035**	**.18480**	**.01986**	**.02398**
Stddev	.00	.00077	.00050	.00112	.00370
%RSD	.0007	7.4104	.26829	5.6175	15.430
#1	25.00	.01090	.18445	.02065	.02660
#2	25.00	.00981	.18516	.01907	.02137
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46244**	**.00904**	**.00496**	F **1.006**	**.00574**
Stddev	.00575	.00012	.00010	.014	.00009
%RSD	1.2430	1.3514	1.9218	1.374	1.5668
#1	.46651	.00896	.00502	1.016	.00567
#2	.45838	.00913	.00489	.9961	.00580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 12:31:56 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01996**	**.00450**	**.00988**	F **.9996**
Stddev	.00022	.00014	.00051	.0002
%RSD	1.1204	3.0126	5.1652	.0170
#1	.01981	.00440	.00952	.9995
#2	.02012	.00459	.01024	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3493.6**	**3096.7**	**27021.**	**2999.6**
Stddev	2.3	1.4	47.	5.5
%RSD	.06492	.04630	.17244	.18339
#1	3495.2	3097.7	27054.	2995.7
#2	3492.0	3095.7	26988.	3003.5

Sample Name: MB 480-608660/1-A Acquired: 12/15/2021 12:35:43 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.02227**	**.00082**	**-.00167**	**-.00003**
Stddev	.00061	.00343	.00039	.00004	.00001
%RSD	62281.	15.396	48.028	2.6029	24.985
#1	-.00043	.01984	.00054	-.00170	-.00004
#2	.00043	.02469	.00110	-.00164	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.02888**	**.00004**	**-.0669**	**-.00001**
Stddev	.00002	.00018	.00002	.0160	.00008
%RSD	2975.4	.62227	61.773	23.91	674.54
#1	-.00001	.02876	.00006	-.0783	.00005
#2	.00001	.02901	.00002	-.0556	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00038**	**.00153**	**-.06066**	**.00190**
Stddev	.00014	.00001	.00206	.00593	.00104
%RSD	109.93	1.7692	134.04	9.7740	54.640
#1	-.00003	-.00038	.00299	-.05647	.00116
#2	-.00023	-.00039	.00008	-.06486	.00263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608660/1-A Acquired: 12/15/2021 12:35:43 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00271**	**.00057**	**-.00077**	**-.00894**	**.00046**
Stddev	.00008	.00015	.00030	.00126	.00027
%RSD	2.7762	25.402	39.181	14.103	59.445
#1	.00266	.00047	-.00098	-.00805	.00065
#2	.00277	.00068	-.00056	-.00983	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00134**	**.00328**	**-.00242**	**.00120**
Stddev	.00	.00003	.00141	.00047	.00224
%RSD	.0008	2.2442	42.906	19.316	186.88
#1	25.01	.00136	.00428	-.00209	.00278
#2	25.01	.00132	.00229	-.00275	-.00039
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00386**	**-.00012**	**.00013**	**1.004**	**-.00049**
Stddev	.01690	.00041	.00008	.002	.00062
%RSD	437.48	343.49	59.126	.2243	126.13
#1	.00809	.00017	.00008	1.003	-.00005
#2	-.01582	-.00041	.00019	1.006	-.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608660/1-A Acquired: 12/15/2021 12:35:43 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00046**	**-.00049**	**.00003**	**.9990**
Stddev	.00099	.00016	.00039	.0000
%RSD	214.88	31.587	1361.0	.0039
#1	.00116	-.00038	-.00025	.9990
#2	-.00024	-.00060	.00030	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3554.1**	**3139.0**	**27621.**	**3048.2**
Stddev	.6	4.0	61.	16.3
%RSD	.01674	.12771	.22183	.53365
#1	3553.6	3141.9	27577.	3036.7
#2	3554.5	3136.2	27664.	3059.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.51%	102.62%	103.14%	103.27%
Range				

Sample Name: LCS 480-608660/2-A Acquired: 12/15/2021 12:39:30 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05147**	**10.323**	**.21193**	**.20745**	**.21256**
Stddev	.00028	.043	.00034	.00019	.00033
%RSD	.54886	.41919	.15921	.09164	.15738
#1	.05167	10.354	.21169	.20732	.21279
#2	.05128	10.293	.21217	.20759	.21232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21435**	**10.205**	**.20542**	**-.0211**	**.19854**
Stddev	.00005	.017	.00036	.0207	.00037
%RSD	.02541	.16861	.17739	97.93	.18514
#1	.21439	10.217	.20516	-.0358	.19880
#2	.21431	10.193	.20567	-.0065	.19828
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20349**	**.20714**	**10.442**	**10.147**	**.20503**
Stddev	.00017	.00026	.001	.023	.00217
%RSD	.08490	.12532	.01133	.22302	1.0562
#1	.20337	.20732	10.442	10.163	.20350
#2	.20362	.20695	10.441	10.131	.20656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608660/2-A Acquired: 12/15/2021 12:39:30 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.470**	**.21139**	**.20986**	**9.8677**	**.19737**
Stddev	.005	.00026	.00069	.0029	.00071
%RSD	.05091	.12214	.33065	.02927	.36078
#1	10.467	.21158	.21035	9.8656	.19788
#2	10.474	.21121	.20937	9.8697	.19687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.82**	**.20656**	**10.021**	**.21787**	**.20007**
Stddev	.00	.00103	.004	.00151	.00393
%RSD	.0076	.49831	.04231	.69421	1.9636
#1	24.82	.20583	10.018	.21894	.20285
#2	24.82	.20729	10.024	.21680	.19729
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5975**	**.19418**	**.20401**	**1.003**	**.20860**
Stddev	.0626	.00066	.00023	.002	.00046
%RSD	.65196	.34113	.11171	.1638	.21922
#1	9.6417	.19371	.20385	1.004	.20892
#2	9.5532	.19464	.20417	1.002	.20827
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608660/2-A Acquired: 12/15/2021 12:39:30 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20770**	**.20170**	**.21031**	**1.002**
Stddev	.00250	.00028	.00012	.001
%RSD	1.2044	.14085	.05917	.0592
#1	.20947	.20191	.21022	1.002
#2	.20593	.20150	.21039	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3361.9**	**3110.9**	**26989.**	**3069.3**
Stddev	.4	2.5	77.	25.1
%RSD	.01184	.08121	.28645	.81648
#1	3361.6	3112.7	26934.	3051.6
#2	3362.2	3109.1	27044.	3087.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.971%	101.70%	100.78%	103.98%
Range				

Sample Name: 480-193264-E-1-A Acquired: 12/15/2021 12:43:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00138**	**.05402**	**.00809**	**.01567**	**2.5726**
Stddev	.00068	.03412	.00050	.00017	.0080
%RSD	49.193	63.167	6.1526	1.0799	.31230
#1	-.00090	.07815	.00774	.01579	2.5783
#2	-.00187	.02989	.00844	.01555	2.5669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	F **1411.6**	**-.00119**	**-.0103**	**-.00004**
Stddev	.00006	2.7	.00017	.0073	.00016
%RSD	60.153	.18827	14.112	70.74	388.49
#1	-.00006	1413.4	-.00131	-.0051	.00007
#2	-.00015	1409.7	-.00107	-.0154	-.00016
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00688**	**.00074**	**23.133**	**.26577**
Stddev	.00076	.00026	.00292	.029	.00389
%RSD	1643.0	3.7999	396.30	.12681	1.4649
#1	-.00058	.00669	-.00133	23.112	.26853
#2	.00049	.00706	.00280	23.154	.26302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-1-A Acquired: 12/15/2021 12:43:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01440**	**.00055**	**.01304**	**164.01**	**.01176**
Stddev	.00154	.00007	.00036	.29	.00009
%RSD	10.664	12.226	2.7287	.17466	.79960
#1	.01331	.00060	.01329	164.21	.01169
#2	.01548	.00050	.01279	163.80	.01183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**-.00487**	**43.183**	**-.00231**	**.00274**
Stddev	.00	.00108	.016	.00739	.00109
%RSD	.0058	22.128	.03745	319.59	39.910
#1	25.07	-.00563	43.194	.00291	.00351
#2	25.07	-.00411	43.172	-.00754	.00196
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10981**	**-.00021**	**6.0546**	**1.003**	**.00823**
Stddev	.01044	.00061	.0952	.005	.00005
%RSD	9.5069	293.95	1.5729	.5249	.54772
#1	.10243	.00022	5.9873	1.006	.00820
#2	.11719	-.00064	6.1220	.9988	.00826
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-1-A Acquired: 12/15/2021 12:43:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00022**	**.00014**	**.9990**
Stddev	.00085	.00034	.00068	.0008
%RSD	187.48	153.71	483.76	.0799
#1	.00106	.00046	-.00034	.9984
#2	-.00015	-.00002	.00062	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2644.1**	**2706.2**	**23301.**	**2884.7**
Stddev	.7	1.7	13.	7.4
%RSD	.02480	.06338	.05608	.25772
#1	2643.7	2707.4	23311.	2890.0
#2	2644.6	2705.0	23292.	2879.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.267%	88.465%	87.008%	97.730%
Range				

Sample Name: 480-193264-E-1-ASD@5 Acquired: 12/15/2021 12:47:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.06192**	**.00292**	**.00133**	**.51124**
Stddev	.00034	.01530	.00024	.00016	.00124
%RSD	45.344	24.706	8.0440	12.358	.24316
#1	-.00050	.07274	.00309	.00122	.51212
#2	-.00098	.05110	.00276	.00145	.51036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**292.69**	**-.00023**	**-.0129**	**-.00011**
Stddev	.00007	.00	.00010	.0051	.00001
%RSD	105.65	.00151	42.013	39.84	10.813
#1	-.00012	292.69	-.00030	-.0165	-.00011
#2	-.00002	292.69	-.00016	-.0092	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00034**	**-.00084**	**4.2808**	**.04976**
Stddev	.00055	.00029	.00396	.0279	.00328
%RSD	1077.0	87.116	468.66	.65049	6.5975
#1	-.00044	.00013	-.00364	4.2612	.04744
#2	.00034	.00055	.00195	4.3005	.05208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-1-ASD@5 Acquired: 12/15/2021 12:47:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00336**	**.00054**	**.00147**	**30.994**	**.00260**
Stddev	.00041	.00006	.00023	.085	.00028
%RSD	12.311	11.843	15.412	.27301	10.753
#1	.00366	.00059	.00131	31.054	.00240
#2	.00307	.00050	.00163	30.934	.00280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00022**	**7.8282**	**-.00382**	**-.00346**
Stddev	.00	.00085	.0041	.00032	.00221
%RSD	.0013	382.23	.05248	8.4014	63.752
#1	25.02	.00038	7.8311	-.00404	-.00502
#2	25.02	-.00083	7.8253	-.00359	-.00190
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00840**	**-.00031**	**1.1753**	**.9995**	**.00134**
Stddev	.01909	.00003	.0030	.0103	.00016
%RSD	227.27	9.9665	.25543	1.026	11.886
#1	.02190	-.00028	1.1775	1.007	.00123
#2	-.00510	-.00033	1.1732	.9923	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-1-ASD@5 Acquired: 12/15/2021 12:47:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00002**	**.00069**	**.9997**
Stddev	.00034	.00029	.00076	.0003
%RSD	854.64	1214.1	109.66	.0284
#1	.00028	-.00018	.00123	.9999
#2	-.00020	.00023	.00016	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3024.9**	**2906.1**	**25271.**	**2942.6**
Stddev	.5	4.6	89.	9.2
%RSD	.01817	.15721	.35388	.31184
#1	3024.5	2902.8	25208.	2936.1
#2	3025.3	2909.3	25334.	2949.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.250%	94.999%	94.362%	99.690%
Range				

Sample Name: 480-193264-E-1-APDS Acquired: 12/15/2021 12:50:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05521**	**10.377**	**.23180**	**.22445**	**2.6398**
Stddev	.00024	.094	.00325	.00140	.0032
%RSD	.43223	.90547	1.4019	.62444	.12149
#1	.05504	10.444	.22950	.22346	2.6421
#2	.05537	10.311	.23409	.22545	2.6375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20975**	F **1351.3**	**.21656**	**.0403**	**.21005**
Stddev	.00032	9.9	.00060	.0028	.00031
%RSD	.15058	.73048	.27884	6.968	.14580
#1	.20998	1358.3	.21613	.0383	.21026
#2	.20953	1344.3	.21699	.0423	.20983
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19930**	**.21911**	**10.064**	**32.606**	**.45699**
Stddev	.00078	.00047	.041	.079	.00416
%RSD	.39327	.21494	.40575	.24085	.90949
#1	.19986	.21944	10.093	32.662	.45405
#2	.19875	.21878	10.035	32.551	.45993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-1-APDS Acquired: 12/15/2021 12:50:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6807**	**.20376**	**.22059**	**165.84**	**.21579**
Stddev	.0044	.00034	.00005	.51	.00026
%RSD	.04531	.16930	.02290	.30874	.11978
#1	9.6838	.20400	.22056	166.20	.21597
#2	9.6776	.20351	.22063	165.48	.21560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.90**	**.21047**	**52.045**	**.22350**	**.21612**
Stddev	.00	.00104	.119	.00364	.00396
%RSD	.0002	.49276	.22954	1.6303	1.8305
#1	24.90	.20974	51.960	.22093	.21892
#2	24.90	.21121	52.129	.22608	.21332
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.156**	**.20638**	**5.9178**	**1.009**	**.21988**
Stddev	.013	.00092	.0150	.004	.00011
%RSD	.12453	.44489	.25308	.3844	.04965
#1	10.165	.20573	5.9072	1.007	.21980
#2	10.147	.20703	5.9284	1.012	.21995
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-1-APDS Acquired: 12/15/2021 12:50:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20301**	**.20752**	**.20282**	**1.002**
Stddev	.00223	.00114	.00016	.001
%RSD	1.0997	.54806	.07667	.0864
#1	.20459	.20833	.20293	1.003
#2	.20143	.20672	.20271	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2613.8**	**2702.6**	**23445.**	**2881.3**
Stddev	2.8	6.8	55.	8.7
%RSD	.10670	.25155	.23462	.30355
#1	2615.8	2707.4	23406.	2875.1
#2	2611.9	2697.8	23484.	2887.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.394%	88.347%	87.542%	97.614%
Range				

Sample Name: 480-193264-E-1-B MS Acquired: 12/15/2021 12:54:49 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05657**	**10.468**	**.23513**	**.22759**	**2.7041**
Stddev	.00045	.005	.00396	.00016	.0037
%RSD	.78832	.05190	1.6822	.06887	.13561
#1	.05625	10.464	.23233	.22748	2.7015
#2	.05688	10.472	.23793	.22770	2.7067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20789**	F **1393.8**	**.21592**	**.0021**	**.21171**
Stddev	.00019	22.7	.00015	.0040	.00014
%RSD	.08984	1.6292	.06748	186.8	.06522
#1	.20776	1377.8	.21582	.0050	.21162
#2	.20802	1409.9	.21602	-.0007	.21181
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19749**	**.21749**	**10.133**	**33.634**	**.46558**
Stddev	.00021	.00006	.044	.179	.00066
%RSD	.10845	.02788	.43360	.53298	.14264
#1	.19765	.21753	10.164	33.507	.46511
#2	.19734	.21745	10.102	33.761	.46605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-1-B MS Acquired: 12/15/2021 12:54:49 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6371**	**.20283**	**.22305**	**170.33**	**.21646**
Stddev	.0206	.00049	.00032	.23	.00090
%RSD	.21394	.24321	.14257	.13424	.41364
#1	9.6225	.20248	.22328	170.16	.21709
#2	9.6516	.20317	.22283	170.49	.21583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.91**	**.20928**	**56.994**	**.22570**	**.19227**
Stddev	.00	.00008	.033	.00302	.00006
%RSD	.0021	.03689	.05876	1.3365	.03235
#1	24.91	.20933	56.971	.22357	.19232
#2	24.91	.20922	57.018	.22783	.19223
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7841**	**.20792**	**6.1123**	**1.005**	**.21861**
Stddev	.0328	.00024	.0431	.015	.00022
%RSD	.33571	.11674	.70486	1.461	.09849
#1	9.7608	.20775	6.1428	1.016	.21876
#2	9.8073	.20809	6.0819	.9950	.21846
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-1-B MS Acquired: 12/15/2021 12:54:49 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20529**	**.20561**	**.20133**	**.9984**
Stddev	.00074	.00002	.00088	.0013
%RSD	.35962	.00840	.43838	.1347
#1	.20477	.20560	.20196	.9994
#2	.20582	.20563	.20071	.9975
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2607.6**	**2701.2**	**23444.**	**2928.0**
Stddev	.6	2.4	59.	12.9
%RSD	.02286	.08956	.25073	.44160
#1	2607.2	2699.5	23486.	2937.1
#2	2608.0	2702.9	23403.	2918.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.213%	88.302%	87.541%	99.196%
Range				

Sample Name: 480-193264-E-1-C MSD Acquired: 12/15/2021 12:58:40 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05550**	**10.480**	**.23784**	**.22655**	**2.7211**
Stddev	.00055	.026	.00180	.00034	.0075
%RSD	.99192	.24512	.75827	.14950	.27435
#1	.05589	10.462	.23911	.22631	2.7158
#2	.05511	10.498	.23656	.22679	2.7264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20993**	F **1390.4**	**.21505**	**-.0475**	**.20953**
Stddev	.00033	2.5	.00020	.0445	.00018
%RSD	.15599	.18097	.09186	93.77	.08569
#1	.20970	1392.2	.21491	-.0790	.20965
#2	.21016	1388.7	.21519	-.0160	.20940
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19947**	**.21717**	**10.033**	**33.392**	**.46690**
Stddev	.00017	.00162	.034	.003	.00044
%RSD	.08342	.74489	.33513	.00795	.09400
#1	.19959	.21832	10.009	33.394	.46721
#2	.19935	.21603	10.056	33.391	.46659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-1-C MSD Acquired: 12/15/2021 12:58:40 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5868**	**.20244**	**.22173**	**170.28**	**.21508**
Stddev	.0154	.00037	.00022	.79	.00033
%RSD	.16029	.18238	.09983	.46532	.15438
#1	9.5760	.20218	.22157	169.72	.21532
#2	9.5977	.20270	.22189	170.84	.21485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.90**	**.20733**	**55.001**	**.22587**	**.18683**
Stddev	.00	.00112	.056	.00046	.00726
%RSD	.0095	.53839	.10229	.20464	3.8850
#1	24.90	.20654	54.961	.22555	.18170
#2	24.91	.20812	55.041	.22620	.19196
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9026**	**.20589**	**6.0355**	**1.011**	**.22006**
Stddev	.0059	.00034	.0090	.000	.00001
%RSD	.05948	.16446	.14917	.0095	.00294
#1	9.8984	.20613	6.0291	1.011	.22006
#2	9.9068	.20565	6.0418	1.011	.22005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-1-C MSD Acquired: 12/15/2021 12:58:40 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20250**	**.20648**	**.20333**	**.9996**
Stddev	.00144	.00096	.00165	.0004
%RSD	.71324	.46478	.80992	.0379
#1	.20352	.20716	.20450	.9993
#2	.20148	.20580	.20217	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2612.9**	**2702.3**	**23306.**	**2920.2**
Stddev	.2	5.3	7.	11.3
%RSD	.00786	.19522	.03114	.38748
#1	2612.7	2706.0	23311.	2928.2
#2	2613.0	2698.6	23301.	2912.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.365%	88.339%	87.025%	98.932%
Range				

Sample Name: 480-193264-E-2-A Acquired: 12/15/2021 13:02:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00197**	**.22439**	**.01169**	**.01089**	**.30526**
Stddev	.00023	.03558	.00186	.00009	.00007
%RSD	11.670	15.858	15.913	.81729	.02264
#1	-.00213	.24955	.01300	.01082	.30521
#2	-.00181	.19923	.01037	.01095	.30531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**286.50**	**-.00028**	**-.0904**	**-.00035**
Stddev	.00007	1.32	.00013	.0268	.00002
%RSD	2760.1	.45967	47.445	29.70	5.4758
#1	-.00005	287.43	-.00018	-.0714	-.00034
#2	.00005	285.56	-.00037	-.1093	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00068**	**.04286**	**39.279**	**.04462**
Stddev	.00022	.00011	.00134	.031	.00000
%RSD	21.844	15.377	3.1160	.07806	.00020
#1	.00086	.00061	.04191	39.300	.04462
#2	.00117	.00076	.04380	39.257	.04462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-2-A Acquired: 12/15/2021 13:02:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04908**	**.00121**	**.09009**	**301.25**	**.01126**
Stddev	.00195	.00003	.00066	.07	.00058
%RSD	3.9722	2.3254	.73197	.02484	5.1292
#1	.04770	.00123	.09055	301.19	.01167
#2	.05046	.00119	.08962	301.30	.01085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00033**	**57.335**	**.00036**	**-.00038**
Stddev	.00	.00078	.001	.00212	.00246
%RSD	.0037	235.32	.00258	583.72	643.90
#1	25.04	-.00022	57.334	.00186	.00136
#2	25.04	.00088	57.336	-.00114	-.00212
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7654**	**-.00042**	**2.5382**	**.9916**	**.00170**
Stddev	.0039	.00044	.0008	.0053	.00007
%RSD	.22150	103.62	.03161	.5377	4.2835
#1	1.7626	-.00073	2.5388	.9878	.00175
#2	1.7681	-.00011	2.5377	.9953	.00165
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-2-A Acquired: 12/15/2021 13:02:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00085**	**.00630**	**.00596**	**.9985**
Stddev	.00062	.00012	.00005	.0008
%RSD	73.108	1.8362	.92154	.0757
#1	-.00129	.00639	.00593	.9980
#2	-.00041	.00622	.00600	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2867.9**	**2847.2**	**24542.**	**2933.4**
Stddev	4.5	4.5	93.	1.4
%RSD	.15771	.15876	.37912	.04637
#1	2864.7	2844.0	24608.	2934.4
#2	2871.1	2850.4	24477.	2932.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.723%	93.076%	91.641%	99.378%
Range				

Sample Name: 480-193264-E-3-A Acquired: 12/15/2021 13:06:29 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00109**	**.05334**	**.00229**	**.07746**	**.06764**
Stddev	.00108	.05598	.00178	.00064	.00004
%RSD	99.043	104.94	77.872	.82187	.06148
#1	-.00033	.09292	.00103	.07701	.06761
#2	-.00185	.01376	.00355	.07791	.06767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**269.65**	**.00032**	**-.1251**	**.00012**
Stddev	.00007	1.19	.00002	.0737	.00014
%RSD	69.658	.43949	7.6726	58.91	116.63
#1	-.00014	268.81	.00034	-.0730	.00002
#2	-.00005	270.49	.00031	-.1773	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00131**	**.01152**	**6.1462**	**.02687**
Stddev	.00010	.00048	.00504	.0917	.00175
%RSD	73.689	36.592	43.770	1.4913	6.4980
#1	.00021	.00165	.00795	6.0814	.02810
#2	.00007	.00097	.01508	6.2110	.02563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-3-A Acquired: 12/15/2021 13:06:29 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**58.938**	**.29958**	**.00082**	**334.43**	**.00047**
Stddev	.066	.00076	.00011	1.16	.00029
%RSD	.11151	.25238	13.925	.34535	62.680
#1	58.892	.29905	.00091	333.62	.00026
#2	58.985	.30011	.00074	335.25	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00199**	F **187.44**	**.00042**	**-.00076**
Stddev	.00	.00136	.20	.00049	.00305
%RSD	.0001	68.250	.10447	116.55	400.47
#1	25.02	.00103	187.58	.00007	-.00292
#2	25.02	.00295	187.31	.00076	.00139
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5533**	**-.00056**	**1.6902**	**1.002**	**.00275**
Stddev	.0129	.00017	.0029	.001	.00022
%RSD	.23282	31.373	.16843	.0933	7.8537
#1	5.5442	-.00043	1.6882	1.002	.00259
#2	5.5625	-.00068	1.6922	1.003	.00290
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-3-A Acquired: 12/15/2021 13:06:29 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00059**	**-.00063**	**-.00009**	**.9991**
Stddev	.00223	.00029	.00068	.0010
%RSD	377.24	47.084	747.29	.0968
#1	-.00098	-.00042	.00039	.9998
#2	.00217	-.00084	-.00057	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2826.8**	**2805.9**	**24294.**	**2932.2**
Stddev	4.7	4.8	159.	4.4
%RSD	.16712	.17147	.65429	.15127
#1	2830.1	2809.3	24407.	2935.3
#2	2823.4	2802.5	24182.	2929.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.536%	91.725%	90.714%	99.337%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 13:10:27 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0188**	**49.758**	**.97600**	**1.0363**	**.96597**
Stddev	.0005	.035	.00444	.0022	.00303
%RSD	.04862	.06941	.45487	.21090	.31398
#1	1.0191	49.783	.97286	1.0378	.96812
#2	1.0184	49.734	.97914	1.0347	.96383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97819**	**49.740**	**.98636**	**.9901**	**.99934**
Stddev	.00250	.081	.00120	.0446	.00134
%RSD	.25507	.16217	.12189	4.506	.13411
#1	.97996	49.797	.98551	1.022	.99839
#2	.97643	49.683	.98721	.9585	1.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99500**	**1.0133**	**50.010**	**49.235**	**.97901**
Stddev	.00100	.0013	.071	.146	.00003
%RSD	.10089	.12804	.14242	.29564	.00318
#1	.99571	1.0143	49.960	49.338	.97899
#2	.99429	1.0124	50.061	49.133	.97903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 13:10:27 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.115**	**.98643**	**1.0145**	**48.461**	**.97568**
Stddev	.159	.00171	.0012	.097	.00256
%RSD	.32993	.17357	.11377	.20068	.26245
#1	48.228	.98764	1.0153	48.530	.97387
#2	48.003	.98522	1.0137	48.392	.97749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.54**	**.99945**	**25.132**	**.98232**	**.99483**
Stddev	.00	.00154	.004	.00081	.00188
%RSD	.0020	.15428	.01493	.08289	.18911
#1	37.54	1.0005	25.130	.98174	.99350
#2	37.54	.99836	25.135	.98289	.99616
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8595**	**.99392**	**.97476**	**1.512**	**1.0088**
Stddev	.0079	.00246	.00163	.011	.0019
%RSD	.07997	.24712	.16761	.7434	.19335
#1	9.8540	.99218	.97592	1.520	1.0102
#2	9.8651	.99565	.97361	1.505	1.0075
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 13:10:27 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99422**	**.99678**	**1.0148**	**1.498**
Stddev	.00038	.00051	.0024	.001
%RSD	.03788	.05126	.23600	.0350
#1	.99395	.99642	1.0165	1.498
#2	.99448	.99714	1.0131	1.498
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3012.5**	**2975.6**	**25500.**	**2971.9**
Stddev	4.7	10.4	58.	1.0
%RSD	.15697	.34935	.22861	.03467
#1	3009.1	2968.3	25459.	2972.7
#2	3015.8	2983.0	25541.	2971.2

Sample Name: CCB-6810114 Acquired: 12/15/2021 13:13:59 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00110**	**.00218**	**.00276**	**-.00104**	**.00018**
Stddev	.00070	.02751	.00160	.00041	.00001
%RSD	63.678	1261.6	57.995	39.406	3.3919
#1	-.00061	-.01727	.00163	-.00075	.00018
#2	-.00160	.02163	.00389	-.00133	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.08489**	**.00004**	**-.0546**	**-.00022**
Stddev	.00003	.00059	.00002	.0388	.00011
%RSD	94.271	.69531	56.701	71.09	50.450
#1	-.00005	.08530	.00002	-.0820	-.00030
#2	-.00001	.08447	.00005	-.0272	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00006**	**.00023**	**-.03818**	**.00348**
Stddev	.00013	.00020	.00183	.01381	.00103
%RSD	157.26	310.81	781.58	36.186	29.518
#1	-.00001	-.00020	-.00106	-.04794	.00275
#2	.00018	.00008	.00153	-.02841	.00420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 13:13:59 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00317**	**-.00001**	**.00074**	**.03550**	**.00017**
Stddev	.00459	.00000	.00014	.00292	.00036
%RSD	144.83	35.313	19.347	8.2142	215.98
#1	-.00008	-.00002	.00064	.03344	-.00009
#2	.00641	-.00001	.00084	.03756	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00096**	**.02039**	**.00105**	**-.00177**
Stddev	.00	.00123	.00025	.00041	.00305
%RSD	.0005	128.59	1.2116	38.764	172.28
#1	25.01	.00183	.02057	.00134	.00039
#2	25.01	.00009	.02022	.00076	-.00393
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00313**	**.00032**	**.00045**	**.9969**	**-.00023**
Stddev	.00954	.00024	.00021	.0070	.00016
%RSD	304.47	75.938	46.390	.6993	68.904
#1	-.00988	.00049	.00060	.9920	-.00034
#2	.00361	.00015	.00030	1.002	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 13:13:59 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00041**	**.00020**	**.9986**
Stddev	.00112	.00007	.00012	.0003
%RSD	619.90	17.264	59.757	.0283
#1	.00061	-.00046	.00028	.9988
#2	-.00097	-.00036	.00011	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3485.7**	**3084.4**	**27102.**	**3030.2**
Stddev	2.0	2.8	49.	39.7
%RSD	.05853	.08940	.18248	1.3112
#1	3487.1	3086.4	27137.	3058.3
#2	3484.2	3082.5	27067.	3002.1

Sample Name: CCVL-6811103 Acquired: 12/15/2021 13:17:48 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00479**	**.21666**	**.01327**	**.01857**	**.00213**
Stddev	.00050	.00967	.00115	.00013	.00000
%RSD	10.454	4.4626	8.6682	.72343	.04523
#1	.00443	.20982	.01408	.01847	.00213
#2	.00514	.22350	.01246	.01866	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.56510**	**.00204**	**-.0529**	**.00361**
Stddev	.00003	.00855	.00010	.0278	.00002
%RSD	1.3966	1.5135	4.7509	52.48	.47348
#1	.00191	.55905	.00210	-.0333	.00360
#2	.00195	.57115	.00197	-.0726	.00362
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00361**	**.00979**	**.04680**	**.40390**	**.02934**
Stddev	.00033	.00002	.00159	.05334	.00036
%RSD	9.2072	.22557	3.3994	13.207	1.2194
#1	.00384	.00978	.04567	.44162	.02959
#2	.00337	.00981	.04792	.36618	.02909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 13:17:48 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18947**	**.00300**	**.00937**	**.98514**	**.00946**
Stddev	.00122	.00009	.00027	.01056	.00061
%RSD	.64132	2.8527	2.8936	1.0719	6.4929
#1	.18861	.00293	.00956	.97767	.00990
#2	.19033	.00306	.00918	.99261	.00903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01035**	**.19910**	**.02001**	**.02528**
Stddev	.00	.00014	.00129	.00412	.00128
%RSD	.0005	1.3253	.64584	20.565	5.0644
#1	25.00	.01026	.19819	.01710	.02438
#2	25.00	.01045	.20000	.02292	.02619
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47191**	**.00948**	**.00520**	F **.9936**	**.00468**
Stddev	.03136	.00031	.00020	.0011	.00062
%RSD	6.6462	3.2737	3.7786	.1093	13.219
#1	.44974	.00926	.00506	.9928	.00424
#2	.49409	.00970	.00534	.9944	.00511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 13:17:48 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01948**	**.00481**	**.01011**	F **.9997**
Stddev	.00080	.00062	.00001	.0003
%RSD	4.1251	12.863	.06592	.0333
#1	.02004	.00437	.01011	.9995
#2	.01891	.00524	.01012	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3474.3**	**3084.1**	**27030.**	**3008.1**
Stddev	8.1	4.7	28.	5.6
%RSD	.23408	.15149	.10191	.18517
#1	3468.5	3080.8	27010.	3004.1
#2	3480.0	3087.4	27049.	3012.0

Sample Name: 480-193264-E-4-A Acquired: 12/15/2021 13:21:35 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.17233**	**.26004**	**.03354**	**1.5825**
Stddev	.00113	.00293	.00171	.00042	.0057
%RSD	111.77	1.7000	.65885	1.2528	.36269
#1	-.00180	.17026	.26126	.03384	1.5865
#2	-.00021	.17441	.25883	.03324	1.5784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	F **1695.2**	**-.00147**	**-.0487**	**.00089**
Stddev	.00000	3.1	.00001	.0201	.00022
%RSD	2.2583	.18058	.72447	41.23	24.402
#1	-.00019	1697.4	-.00148	-.0629	.00104
#2	-.00020	1693.1	-.00147	-.0345	.00073
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00597**	**.01001**	**.27643**	**59.339**	**.15093**
Stddev	.00019	.00021	.00288	.088	.00043
%RSD	3.1613	2.0556	1.0436	.14886	.28773
#1	.00611	.00987	.27847	59.401	.15063
#2	.00584	.01016	.27439	59.276	.15124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-4-A Acquired: 12/15/2021 13:21:35 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01210**	**.00199**	**.01717**	F **1058.8**	**.03971**
Stddev	.00540	.00003	.00014	3.3	.00039
%RSD	44.652	1.7418	.83969	.31461	.97704
#1	.00828	.00201	.01727	1061.2	.03999
#2	.01592	.00196	.01707	1056.5	.03944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**-.00454**	F **119.91**	**.00003**	**.01705**
Stddev	.00	.00068	.25	.00085	.00380
%RSD	.0002	14.928	.20930	2795.5	22.300
#1	25.12	-.00502	120.09	-.00057	.01436
#2	25.12	-.00406	119.74	.00063	.01974
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.57979**	**-.00008**	F **10.763**	**1.001**	**.01003**
Stddev	.01775	.00127	.003	.008	.00022
%RSD	3.0618	1561.8	.02684	.7768	2.1970
#1	.59234	-.00098	10.765	.9958	.01019
#2	.56724	.00082	10.760	1.007	.00988
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-193264-E-4-A Acquired: 12/15/2021 13:21:35 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00967**	**.00582**	**1.000**
Stddev	.00166	.00025	.00001	.001
%RSD	579.86	2.5569	.17403	.0773
#1	.00146	.00985	.00581	1.001
#2	-.00089	.00950	.00583	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2412.2**	**2559.2**	**22035.**	**2849.6**
Stddev	2.7	.4	14.	12.5
%RSD	.11295	.01747	.06420	.43809
#1	2410.2	2558.9	22045.	2840.7
#2	2414.1	2559.5	22025.	2858.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.577%	83.660%	82.278%	96.538%
Range				

Sample Name: 480-193264-E-5-A Acquired: 12/15/2021 13:25:42 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.13596**	**.00472**	**.01753**	**.02311**
Stddev	.00045	.01998	.00171	.00026	.00004
%RSD	73.808	14.697	36.149	1.5033	.17314
#1	-.00092	.12183	.00593	.01734	.02314
#2	-.00029	.15009	.00352	.01771	.02308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**401.18**	**.00037**	**-.1015**	**.00004**
Stddev	.00001	.05	.00005	.0507	.00001
%RSD	600.93	.01308	14.311	50.00	24.934
#1	.00001	401.22	.00033	-.1373	.00003
#2	-.00001	401.14	.00040	-.0656	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00227**	**.00188**	**.17497**	**17.032**	**.08215**
Stddev	.00013	.00003	.00030	.100	.00042
%RSD	5.6757	1.4030	.17115	.58925	.51707
#1	.00218	.00186	.17518	16.961	.08184
#2	.00236	.00190	.17476	17.103	.08245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-5-A Acquired: 12/15/2021 13:25:42 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**101.38**	**.01096**	**.00238**	**223.91**	**.00165**
Stddev	.25	.00008	.00024	1.22	.00042
%RSD	.24445	.73345	10.179	.54616	25.339
#1	101.20	.01101	.00255	223.05	.00195
#2	101.55	.01090	.00221	224.78	.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00012**	F **546.52**	**-.00198**	**-.00256**
Stddev	.00	.00270	.73	.00241	.00226
%RSD	.0022	2178.7	.13275	122.17	88.371
#1	25.02	-.00178	547.03	-.00368	-.00415
#2	25.02	.00203	546.00	-.00027	-.00096
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0047**	**.00003**	**4.1260**	**.9942**	**.00554**
Stddev	.0245	.00041	.0206	.0019	.00006
%RSD	2.4357	1233.0	.49833	.1915	1.1287
#1	.98739	-.00026	4.1115	.9956	.00559
#2	1.0220	.00032	4.1406	.9929	.00550
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-5-A Acquired: 12/15/2021 13:25:42 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00070**	**.01149**	**.9993**
Stddev	.00163	.00049	.00034	.0011
%RSD	859.73	70.288	2.9576	.1095
#1	-.00096	-.00105	.01125	.9986
#2	.00134	-.00035	.01173	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2802.9**	**2787.9**	**24276.**	**2963.2**
Stddev	1.4	1.1	43.	1.8
%RSD	.05087	.04011	.17829	.06192
#1	2801.9	2788.7	24307.	2964.5
#2	2803.9	2787.1	24246.	2961.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.846%	91.138%	90.647%	100.39%
Range				

Sample Name: 480-193264-E-6-A Acquired: 12/15/2021 13:29:38 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00131**	**.11600**	**.00663**	**.08089**	**.88056**
Stddev	.00010	.02031	.00111	.00037	.00263
%RSD	7.2540	17.506	16.800	.45607	.29909
#1	-.00125	.13036	.00741	.08063	.88242
#2	-.00138	.10164	.00584	.08115	.87870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	F **1329.0**	**-.00112**	**-.0241**	**-.00042**
Stddev	.00008	14.1	.00029	.0363	.00013
%RSD	29.375	1.0645	25.744	150.5	30.391
#1	-.00034	1319.0	-.00092	-.0498	-.00051
#2	-.00022	1339.0	-.00132	.0016	-.00033
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00182**	**.00774**	**.02331**	**23.092**	**.12538**
Stddev	.00035	.00039	.00569	.018	.00137
%RSD	19.454	5.0192	24.396	.07684	1.0908
#1	.00157	.00801	.01929	23.079	.12635
#2	.00207	.00746	.02734	23.104	.12442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-6-A Acquired: 12/15/2021 13:29:38 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02398**	**.00046**	**.00126**	**65.566**	**.01060**
Stddev	.00189	.00004	.00010	.422	.00053
%RSD	7.8785	9.5541	8.0298	.64394	4.9825
#1	.02264	.00049	.00119	65.267	.01023
#2	.02531	.00043	.00133	65.864	.01097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.20**	**-.00290**	**86.379**	**-.00198**	**.00326**
Stddev	.00	.00044	.119	.00001	.00148
%RSD	.0027	15.102	.13719	.37065	45.267
#1	25.20	-.00259	86.295	-.00197	.00431
#2	25.20	-.00321	86.462	-.00198	.00222
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17140**	**.00018**	**2.2761**	**1.002**	**.00762**
Stddev	.00307	.00086	.0039	.005	.00045
%RSD	1.7884	477.78	.17109	.4812	5.8520
#1	.17357	-.00043	2.2733	.9985	.00794
#2	.16923	.00079	2.2788	1.005	.00731
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-6-A Acquired: 12/15/2021 13:29:38 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00064**	**.00227**	**.9993**
Stddev	.00070	.00036	.00091	.0021
%RSD	205.73	56.514	40.155	.2132
#1	.00084	.00038	.00163	.9978
#2	-.00016	.00089	.00292	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2667.4**	**2706.0**	**23555.**	**2955.4**
Stddev	7.1	4.7	57.	22.8
%RSD	.26621	.17520	.24147	.77017
#1	2662.3	2702.6	23596.	2971.5
#2	2672.4	2709.4	23515.	2939.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.938%	88.460%	87.955%	100.13%
Range				

Sample Name: 480-193264-E-7-A Acquired: 12/15/2021 13:33:34 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.05672**	**.00804**	**.09693**	**.09169**
Stddev	.00035	.01564	.00047	.00064	.00007
%RSD	79.484	27.566	5.8473	.66196	.08171
#1	-.00070	.06778	.00771	.09647	.09163
#2	-.00020	.04567	.00838	.09738	.09174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**164.60**	**-.00019**	**-.0360**	**-.00031**
Stddev	.00003	.66	.00001	.0079	.00014
%RSD	33.621	.40287	2.7624	22.03	43.184
#1	-.00008	165.07	-.00019	-.0416	-.00041
#2	-.00013	164.13	-.00019	-.0304	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.00065**	**.09581**	**46.836**	**.18282**
Stddev	.00010	.00044	.00157	.060	.00018
%RSD	9.2974	66.928	1.6358	.12779	.10034
#1	.00112	.00034	.09470	46.878	.18295
#2	.00098	.00096	.09692	46.794	.18269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-7-A Acquired: 12/15/2021 13:33:34 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2030**	**.00302**	**.05766**	**348.15**	**.00922**
Stddev	.0170	.00019	.00013	2.22	.00007
%RSD	.77250	6.3788	.22554	.63745	.74864
#1	2.2150	.00315	.05775	349.72	.00917
#2	2.1909	.00288	.05757	346.58	.00927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00143**	F **233.52**	**-.00421**	**.00132**
Stddev	.00	.00040	.06	.00217	.00116
%RSD	.0013	28.133	.02721	51.504	87.389
#1	25.06	.00172	233.48	-.00268	.00051
#2	25.06	.00115	233.57	-.00575	.00214
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0244**	**-.00062**	**2.2538**	**1.006**	**.00115**
Stddev	.0171	.00027	.0060	.002	.00002
%RSD	.34137	43.337	.26491	.2325	1.8010
#1	5.0365	-.00081	2.2580	1.005	.00117
#2	5.0123	-.00043	2.2496	1.008	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-7-A Acquired: 12/15/2021 13:33:34 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00074**	**.00026**	**.00050**	**.9993**
Stddev	.00002	.00092	.00052	.0007
%RSD	2.9323	349.94	104.33	.0720
#1	.00075	.00091	.00013	.9999
#2	.00072	-.00039	.00087	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2897.9**	**2883.0**	**24672.**	**2960.5**
Stddev	1.4	1.6	95.	7.2
%RSD	.04665	.05694	.38402	.24415
#1	2896.9	2881.8	24605.	2955.4
#2	2898.8	2884.2	24739.	2965.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.587%	94.245%	92.125%	100.30%
Range				

Sample Name: 480-193264-E-8-A Acquired: 12/15/2021 13:37:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.04865**	**.00701**	**.01574**	**2.5304**
Stddev	.00016	.00448	.00191	.00013	.0175
%RSD	25.752	9.2071	27.201	.83111	.69181
#1	-.00051	.04549	.00566	.01564	2.5180
#2	-.00074	.05182	.00836	.01583	2.5428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	F **1396.1**	**-.00122**	**.0179**	**-.00007**
Stddev	.00009	5.3	.00008	.0075	.00022
%RSD	32.315	.38194	6.5663	41.63	316.95
#1	-.00022	1399.9	-.00128	.0126	-.00022
#2	-.00035	1392.3	-.00117	.0232	.00008
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00750**	**-.00162**	**22.603**	**.26063**
Stddev	.00014	.00008	.00194	.119	.00239
%RSD	67.219	1.0406	119.94	.52591	.91629
#1	.00011	.00745	-.00025	22.519	.26232
#2	.00030	.00756	-.00299	22.687	.25894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-8-A Acquired: 12/15/2021 13:37:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01156**	**.00022**	**.01232**	**161.54**	**.01094**
Stddev	.00170	.00008	.00033	1.47	.00045
%RSD	14.687	36.834	2.6613	.90804	4.0843
#1	.01036	.00016	.01255	160.51	.01062
#2	.01276	.00028	.01209	162.58	.01126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**-.00337**	**44.909**	**-.00320**	**-.00009**
Stddev	.00	.00048	.022	.00033	.00689
%RSD	.0038	14.267	.04957	10.383	7808.7
#1	25.07	-.00303	44.893	-.00297	-.00496
#2	25.07	-.00371	44.925	-.00344	.00479
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11395**	**-.00032**	**5.8577**	**1.001**	**.00798**
Stddev	.00103	.00042	.0354	.006	.00020
%RSD	.90627	132.95	.60395	.5628	2.5522
#1	.11468	-.00002	5.8827	.9966	.00812
#2	.11322	-.00062	5.8327	1.005	.00783
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193264-E-8-A Acquired: 12/15/2021 13:37:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00109**	**.00195**	**.9982**
Stddev	.00217	.00036	.00031	.0002
%RSD	1118.1	33.168	15.772	.0233
#1	.00173	.00135	.00174	.9984
#2	-.00134	.00084	.00217	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2630.2**	**2685.3**	**23170.**	**2872.7**
Stddev	2.8	1.8	80.	10.5
%RSD	.10684	.06555	.34700	.36697
#1	2628.2	2684.0	23227.	2865.3
#2	2632.2	2686.5	23113.	2880.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.865%	87.782%	86.518%	97.323%
Range				

Sample Name: 480-193237-D-1-A Acquired: 12/15/2021 13:41:25 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.18169**	**2.5009**	**.04029**	**.01234**
Stddev	.00025	.00144	.0037	.00053	.00000
%RSD	83.865	.79502	.14576	1.3247	.00390
#1	.00047	.18271	2.5035	.03992	.01234
#2	.00012	.18067	2.4984	.04067	.01234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**2.9710**	**-.00061**	**-.0363**	**.00022**
Stddev	.00009	.0242	.00014	.0823	.00001
%RSD	188.07	.81317	23.557	226.7	5.3475
#1	.00011	2.9539	-.00051	-.0946	.00023
#2	-.00002	2.9881	-.00071	.0219	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00392**	**.47385**	**2.2848**	**1.5488**	**.00349**
Stddev	.00047	.00240	.0052	.0379	.00292
%RSD	12.045	.50753	.22805	2.4485	83.886
#1	.00425	.47215	2.2885	1.5220	.00142
#2	.00358	.47555	2.2811	1.5756	.00555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193237-D-1-A Acquired: 12/15/2021 13:41:25 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3432**	**.03615**	**-.00057**	**3.7754**	**.00362**
Stddev	.0005	.00027	.00010	.0135	.00000
%RSD	.03603	.75215	18.202	.35762	.07786
#1	1.3436	.03596	-.00065	3.7659	.00362
#2	1.3429	.03635	-.00050	3.7850	.00362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.68**	**.01261**	**58.437**	**.66116**	**.00094**
Stddev	.00	.00000	.043	.00170	.00098
%RSD	.0088	.02738	.07401	.25751	104.47
#1	24.68	.01261	58.406	.65995	.00025
#2	24.68	.01261	58.467	.66236	.00164
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4538**	**.00414**	**.00781**	**.9979**	**.00458**
Stddev	.0317	.00019	.00024	.0014	.00026
%RSD	2.1784	4.6135	3.1268	.1428	5.7729
#1	1.4314	.00401	.00764	.9989	.00477
#2	1.4762	.00428	.00798	.9969	.00440
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193237-D-1-A Acquired: 12/15/2021 13:41:25 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00072**	**.05582**	**.9980**
Stddev	.00178	.00048	.00034	.0002
%RSD	2027.1	67.182	.60052	.0192
#1	-.00134	.00106	.05605	.9981
#2	.00117	.00038	.05558	.9979
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3505.6**	**3127.9**	**27185.**	**3072.9**
Stddev	2.0	2.8	120.	2.8
%RSD	.05693	.09083	.44041	.09203
#1	3507.0	3129.9	27269.	3070.9
#2	3504.2	3125.9	27100.	3074.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.12%	102.25%	101.51%	104.10%
Range				

Sample Name: 480-193009-D-1-A Acquired: 12/15/2021 13:45:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.16662**	**.01155**	**6.0927**	**.50834**
Stddev	.00028	.00539	.00292	.0085	.00021
%RSD	29.129	3.2348	25.276	.13962	.04218
#1	-.00077	.16281	.00948	6.0987	.50818
#2	-.00117	.17044	.01361	6.0867	.50849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**116.81**	**.00102**	**-.0215**	**.00955**
Stddev	.00003	.31	.00011	.0364	.00004
%RSD	16.187	.26451	10.887	169.3	.42991
#1	-.00020	116.59	.00110	.0042	.00952
#2	-.00016	117.03	.00094	-.0472	.00958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02011**	**.00193**	**6.6591**	**299.63**	**.11288**
Stddev	.00035	.00006	.0097	1.11	.00170
%RSD	1.7195	2.9265	.14609	.37100	1.5049
#1	.02035	.00197	6.6523	298.84	.11408
#2	.01986	.00189	6.6660	300.42	.11168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193009-D-1-A Acquired: 12/15/2021 13:45:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**279.44**	**.12943**	**.00186**	F **955.94**	**.15349**
Stddev	.67	.00018	.00000	4.44	.00076
%RSD	.24039	.13842	.03861	.46426	.49309
#1	279.92	.12931	.00186	952.80	.15403
#2	278.97	.12956	.00186	959.08	.15296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.78**	**.00767**	**17.282**	**.00318**	**.00147**
Stddev	.00	.00055	.046	.00241	.00055
%RSD	.0094	7.1102	.26646	75.745	37.312
#1	25.78	.00729	17.315	.00148	.00108
#2	25.78	.00806	17.250	.00488	.00186
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.561**	**.00657**	**1.1452**	**1.003**	**.02883**
Stddev	.056	.00090	.0056	.006	.00055
%RSD	.41438	13.740	.49288	.5567	1.9089
#1	13.521	.00721	1.1412	.9993	.02922
#2	13.601	.00593	1.1492	1.007	.02844
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193009-D-1-A Acquired: 12/15/2021 13:45:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.01641**	**.04569**	**1.016**
Stddev	.00058	.00005	.00066	.001
%RSD	117.60	.32823	1.4437	.1213
#1	-.00091	.01645	.04522	1.017
#2	-.00008	.01637	.04615	1.016
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2612.0**	**2717.4**	**23275.**	**2991.0**
Stddev	3.8	1.4	51.	3.4
%RSD	.14725	.05302	.21867	.11293
#1	2614.8	2718.5	23239.	2988.6
#2	2609.3	2716.4	23311.	2993.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.342%	88.833%	86.910%	101.33%
Range				

Sample Name: 480-193009-D-2-A Acquired: 12/15/2021 13:48:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.03844**	**.00200**	**.43404**	**.05332**
Stddev	.00054	.00665	.00086	.00035	.00003
%RSD	168.13	17.298	42.841	.08010	.05253
#1	-.00006	.04314	.00260	.43380	.05334
#2	.00071	.03374	.00139	.43429	.05330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**137.78**	**.00058**	**-.0421**	**.00390**
Stddev	.00005	.30	.00015	.0259	.00001
%RSD	156.42	.22039	25.237	61.60	.21533
#1	-.00000	137.99	.00048	-.0604	.00389
#2	.00007	137.56	.00069	-.0238	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.01757**	**.12200**	**45.994**	**.01863**
Stddev	.00041	.00097	.00156	.055	.00016
%RSD	84.209	5.5074	1.2796	.11991	.86348
#1	.00020	.01689	.12311	46.033	.01852
#2	.00078	.01825	.12090	45.955	.01874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193009-D-2-A Acquired: 12/15/2021 13:48:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**55.494**	**.16458**	**.00285**	**86.354**	**.02104**
Stddev	.053	.00088	.00003	.083	.00011
%RSD	.09505	.53314	.89523	.09567	.53319
#1	55.457	.16396	.00283	86.412	.02112
#2	55.531	.16520	.00287	86.296	.02096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00118**	F **139.04**	**-.00065**	**.00121**
Stddev	.00	.00038	.28	.00289	.00145
%RSD	.0020	32.047	.20033	442.72	119.73
#1	25.01	.00145	138.84	-.00269	.00223
#2	25.01	.00091	139.24	.00139	.00019
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0894**	**.00008**	**.56235**	**1.003**	**.00181**
Stddev	.0121	.00019	.00076	.006	.00029
%RSD	.39150	237.91	.13527	.6296	15.961
#1	3.0980	-.00005	.56181	1.008	.00201
#2	3.0809	.00021	.56288	.9988	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193009-D-2-A Acquired: 12/15/2021 13:48:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00057**	**-.00043**	**.01480**	**.9984**
Stddev	.00132	.00013	.00021	.0005
%RSD	230.50	30.512	1.3993	.0531
#1	.00151	-.00034	.01494	.9988
#2	-.00036	-.00052	.01465	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3040.9**	**2930.2**	**25513.**	**3017.8**
Stddev	.7	1.1	51.	11.1
%RSD	.02364	.03793	.19991	.36761
#1	3040.4	2929.5	25549.	3025.6
#2	3041.4	2931.0	25477.	3009.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.713%	95.790%	95.265%	102.24%
Range				

Sample Name: 480-193127-C-1-A Acquired: 12/15/2021 13:52:40 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00089**	**.30716**	**.00422**	**6.2573**	**.52277**
Stddev	.00034	.05235	.00203	.0011	.00133
%RSD	37.731	17.043	48.033	.01828	.25533
#1	-.00065	.27015	.00279	6.2581	.52183
#2	-.00113	.34418	.00565	6.2565	.52371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**44.453**	**.00074**	**-.0224**	**.00640**
Stddev	.00001	.304	.00007	.0135	.00006
%RSD	9.8096	.68366	9.2746	60.25	1.0031
#1	-.00010	44.238	.00069	-.0319	.00635
#2	-.00011	44.668	.00078	-.0128	.00645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00776**	**.02069**	**6.3751**	**35.133**	**.25006**
Stddev	.00028	.00011	.0214	.195	.00242
%RSD	3.6129	.52685	.33508	.55470	.96793
#1	.00796	.02061	6.3600	34.995	.24835
#2	.00756	.02076	6.3902	35.270	.25177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193127-C-1-A Acquired: 12/15/2021 13:52:40 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**81.433**	**.01903**	**.10187**	**469.72**	**.13816**
Stddev	.065	.00001	.00055	2.03	.00004
%RSD	.07983	.05825	.54219	.43183	.02952
#1	81.479	.01902	.10226	468.29	.13813
#2	81.387	.01904	.10148	471.15	.13819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.27**	**.03529**	**5.5742**	**.00040**	**.00055**
Stddev	.00	.00005	.0004	.00238	.00343
%RSD	.0021	.15481	.00657	598.12	624.15
#1	25.27	.03525	5.5745	.00208	-.00187
#2	25.27	.03533	5.5740	-.00129	.00297
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4050**	**.01652**	**.37027**	**1.006**	**.00929**
Stddev	.0710	.00054	.00048	.004	.00010
%RSD	.75488	3.2674	.12956	.3606	1.1301
#1	9.3548	.01614	.36993	1.003	.00922
#2	9.4552	.01691	.37061	1.008	.00936
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193127-C-1-A Acquired: 12/15/2021 13:52:40 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00270**	**.00171**	**13.640**	**1.000**
Stddev	.00016	.00020	.011	.001
%RSD	6.0423	11.633	.08025	.0756
#1	-.00282	.00157	13.647	.9998
#2	-.00259	.00185	13.632	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2862.5**	**2883.4**	**24738.**	**3039.3**
Stddev	.8	1.0	34.	14.2
%RSD	.02706	.03546	.13690	.46651
#1	2861.9	2884.1	24714.	3049.3
#2	2863.0	2882.7	24762.	3029.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.566%	94.259%	92.373%	102.97%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 13:56:28 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0116**	**50.363**	**.98143**	**1.0481**	**.98913**
Stddev	.0027	.025	.00035	.0013	.00161
%RSD	.26599	.04908	.03575	.12080	.16237
#1	1.0097	50.381	.98168	1.0473	.99027
#2	1.0135	50.346	.98118	1.0490	.98799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99456**	**50.300**	**.98609**	**1.020**	**.99875**
Stddev	.00087	.021	.00099	.015	.00006
%RSD	.08765	.04255	.10089	1.488	.00556
#1	.99517	50.285	.98538	1.030	.99871
#2	.99394	50.315	.98679	1.009	.99879
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0034**	**1.0081**	**50.175**	**49.411**	**.98897**
Stddev	.0008	.0029	.181	.132	.00122
%RSD	.08350	.28886	.36112	.26669	.12316
#1	1.0029	1.0060	50.047	49.504	.98811
#2	1.0040	1.0101	50.303	49.317	.98983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 13:56:28 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.250**	**.98813**	**1.0153**	**48.873**	**.97728**
Stddev	.059	.00039	.0008	.078	.00243
%RSD	.12278	.03992	.08403	.15970	.24875
#1	48.208	.98785	1.0159	48.928	.97900
#2	48.291	.98840	1.0147	48.818	.97556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.56**	**.99744**	**25.274**	**.98762**	**.99877**
Stddev	.01	.00112	.022	.00241	.00316
%RSD	.0296	.11238	.08833	.24449	.31605
#1	37.57	.99665	25.258	.98933	.99653
#2	37.56	.99824	25.290	.98591	1.0010
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.122**	**.99625**	**.97994**	**1.511**	**1.0087**
Stddev	.007	.00094	.00209	.004	.0019
%RSD	.06588	.09449	.21283	.2594	.19143
#1	10.118	.99691	.98142	1.508	1.0073
#2	10.127	.99558	.97847	1.513	1.0101
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 13:56:28 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99717**	**1.0011**	**1.0237**	**1.512**
Stddev	.00405	.0012	.0018	.002
%RSD	.40613	.11995	.17099	.1092
#1	1.0000	1.0003	1.0250	1.510
#2	.99430	1.0020	1.0225	1.513
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3018.7**	**2978.2**	**25453.**	**2941.9**
Stddev	.9	4.0	51.	18.6
%RSD	.03059	.13547	.20155	.63260
#1	3019.4	2981.0	25417.	2928.7
#2	3018.1	2975.3	25490.	2955.1

Sample Name: CCB-6810114 Acquired: 12/15/2021 14:00:01 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.00682**	**.00308**	**.00681**	**.00006**
Stddev	.00044	.03627	.00114	.00023	.00004
%RSD	77.039	531.77	36.835	3.3330	69.696
#1	-.00089	.03247	.00228	.00697	.00009
#2	-.00026	-.01882	.00389	.00665	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.04779**	**.00008**	**-.0107**	**-.00009**
Stddev	.00002	.00444	.00019	.0181	.00004
%RSD	351.19	9.2942	229.47	170.3	40.623
#1	-.00002	.04465	.00022	.0022	-.00012
#2	.00001	.05093	-.00005	-.0235	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.00037**	**.00044**	**-.01052**	**.00264**
Stddev	.00009	.00000	.00469	.01958	.00149
%RSD	22.583	.08014	1063.3	186.14	56.449
#1	-.00046	-.00037	-.00288	-.02436	.00158
#2	-.00034	-.00037	.00376	.00333	.00369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 14:00:01 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00695**	**-.00015**	**.00039**	**.08285**	**.00051**
Stddev	.00237	.00000	.00020	.01723	.00036
%RSD	34.074	.37411	51.232	20.795	70.826
#1	.00862	-.00015	.00025	.07067	.00025
#2	.00528	-.00015	.00053	.09504	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00159**	**.03021**	**-.00022**	**.00134**
Stddev	.00	.00019	.00297	.00069	.00118
%RSD	.0003	11.944	9.8457	315.78	88.115
#1	25.01	.00172	.03231	.00027	.00218
#2	25.01	.00145	.02811	-.00071	.00051
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00823**	**-.00039**	**.00027**	**1.007**	**-.00020**
Stddev	.00815	.00043	.00003	.007	.00032
%RSD	99.009	111.48	9.6915	.6757	163.16
#1	.01399	-.00008	.00025	1.002	.00003
#2	.00247	-.00069	.00029	1.011	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 14:00:01 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00118**	**-.00017**	**-.00006**	**.9988**
Stddev	.00000	.00007	.00010	.0002
%RSD	.25945	42.992	165.74	.0172
#1	-.00119	-.00012	-.00013	.9990
#2	-.00118	-.00023	.00001	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3482.3**	**3071.2**	**26852.**	**2996.1**
Stddev	.1	2.1	133.	8.1
%RSD	.00273	.06683	.49684	.26985
#1	3482.3	3072.7	26758.	2990.4
#2	3482.2	3069.8	26947.	3001.8

Sample Name: CCVL-6811103 Acquired: 12/15/2021 14:03:50 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00495**	**.23948**	**.01457**	**.02371**	**.00212**
Stddev	.00008	.00615	.00075	.00013	.00000
%RSD	1.5590	2.5683	5.1415	.54340	.22331
#1	.00490	.23513	.01510	.02381	.00212
#2	.00501	.24383	.01404	.02362	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.53434**	**.00202**	**-.0113**	**.00366**
Stddev	.00013	.00647	.00009	.0148	.00003
%RSD	6.3204	1.2109	4.4693	130.9	.72203
#1	.00193	.52976	.00195	-.0218	.00368
#2	.00211	.53891	.00208	-.0008	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00390**	**.01029**	**.04612**	**.51903**	**.03160**
Stddev	.00005	.00070	.00374	.00456	.00271
%RSD	1.1924	6.8221	8.1164	.87797	8.5764
#1	.00393	.01079	.04876	.52225	.03351
#2	.00386	.00980	.04347	.51581	.02968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 14:03:50 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19336**	**.00296**	**.00955**	**1.0182**	**.00938**
Stddev	.00351	.00002	.00018	.0011	.00001
%RSD	1.8144	.58530	1.8667	.10866	.10213
#1	.19584	.00294	.00942	1.0174	.00937
#2	.19088	.00297	.00967	1.0190	.00938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01079**	**.21255**	**.01919**	**.02107**
Stddev	.00	.00001	.00229	.00088	.00390
%RSD	.0000	.12589	1.0786	4.5918	18.531
#1	25.00	.01078	.21093	.01857	.01831
#2	25.00	.01080	.21418	.01982	.02383
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49420**	**.00952**	**.00510**	F **1.006**	**.00434**
Stddev	.01590	.00015	.00021	.009	.00007
%RSD	3.2165	1.5275	4.1616	.9132	1.6138
#1	.48296	.00942	.00525	.9998	.00439
#2	.50544	.00963	.00495	1.013	.00429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 14:03:50 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01880**	**.00485**	**.01029**	F **.9991**
Stddev	.00046	.00004	.00037	.0008
%RSD	2.4449	.86758	3.6378	.0817
#1	.01847	.00488	.01002	.9997
#2	.01912	.00482	.01055	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3478.2**	**3083.5**	**27112.**	**3018.7**
Stddev	.4	4.3	141.	.0
%RSD	.01042	.13838	.51873	.00080
#1	3477.9	3080.5	27212.	3018.7
#2	3478.5	3086.5	27013.	3018.6

Sample Name: 480-193127-C-2-A Acquired: 12/15/2021 14:07:37 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00088**	**.74804**	**.00533**	**13.077**	**.57534**
Stddev	.00071	.00790	.00041	.000	.00042
%RSD	80.624	1.0565	7.7593	.00249	.07352
#1	-.00137	.75363	.00503	13.077	.57564
#2	-.00038	.74245	.00562	13.077	.57504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**130.05**	**.00093**	**.0041**	**.01313**
Stddev	.00001	.65	.00003	.0349	.00012
%RSD	11.057	.50227	3.0488	855.6	.89259
#1	-.00009	130.51	.00095	-.0206	.01305
#2	-.00008	129.58	.00091	.0288	.01322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01983**	**.02573**	**56.643**	**59.679**	**.41653**
Stddev	.00032	.00024	.346	.280	.00075
%RSD	1.6220	.93915	.61043	.46923	.17919
#1	.02006	.02556	56.887	59.877	.41706
#2	.01960	.02590	56.398	59.481	.41601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193127-C-2-A Acquired: 12/15/2021 14:07:37 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**139.05**	**.17310**	**.00454**	**437.57**	**.16421**
Stddev	.32	.00021	.00006	1.37	.00018
%RSD	.23343	.12104	1.4240	.31323	.11202
#1	138.82	.17296	.00449	438.54	.16434
#2	139.28	.17325	.00458	436.60	.16408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.28**	**.06004**	**12.388**	**.00824**	**.00549**
Stddev	.00	.00114	.004	.00055	.00191
%RSD	.0052	1.9072	.02920	6.7234	34.829
#1	25.28	.05923	12.391	.00784	.00684
#2	25.28	.06085	12.386	.00863	.00414
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.626**	**.01273**	**.58233**	**1.023**	**.03178**
Stddev	.139	.00035	.00223	.009	.00007
%RSD	1.3045	2.7501	.38285	.8369	.20822
#1	10.724	.01297	.58390	1.029	.03173
#2	10.528	.01248	.58075	1.017	.03183
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193127-C-2-A Acquired: 12/15/2021 14:07:37 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00818**	**.00239**	F **33.839**	**1.001**
Stddev	.00219	.00007	.009	.000
%RSD	26.786	3.0783	.02796	.0330
#1	-.00973	.00234	33.833	1.001
#2	-.00663	.00244	33.846	1.001
Check ?	Chk Pass	Chk Pass	Chk Fail	None
High Limit			18.000	
Low Limit			-.01000	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2778.1**	**2838.7**	**24496.**	**3010.8**
Stddev	1.2	4.4	89.	20.9
%RSD	.04441	.15649	.36393	.69498
#1	2779.0	2841.9	24559.	2996.0
#2	2777.2	2835.6	24433.	3025.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.132%	92.799%	91.466%	102.00%
Range				

Sample Name: 480-193127-C-3-A Acquired: 12/15/2021 14:11:21 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00148**	**.14946**	**.00407**	**12.207**	**.14891**
Stddev	.00050	.01303	.00151	.018	.00011
%RSD	33.940	8.7169	37.047	.14710	.07487
#1	-.00113	.14024	.00300	12.194	.14899
#2	-.00184	.15867	.00513	12.219	.14883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**2.1990**	**.00081**	**-.0730**	**.00800**
Stddev	.00000	.0086	.00007	.0085	.00000
%RSD	4.3783	.39146	8.2824	11.69	.05760
#1	-.00009	2.2051	.00086	-.0670	.00800
#2	-.00009	2.1929	.00076	-.0791	.00800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00928**	**.00985**	**14.290**	**120.89**	**.07967**
Stddev	.00029	.00009	.028	.18	.00306
%RSD	3.1411	.87239	.19253	.15115	3.8365
#1	.00949	.00979	14.310	121.02	.07750
#2	.00908	.00991	14.271	120.76	.08183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193127-C-3-A Acquired: 12/15/2021 14:11:21 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**113.43**	**.04594**	**.00633**	F **1031.2**	**.11627**
Stddev	.47	.00063	.00019	2.7	.00030
%RSD	.41362	1.3790	3.0716	.26246	.26217
#1	113.76	.04638	.00646	1033.1	.11649
#2	113.09	.04549	.00619	1029.3	.11606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00675**	**8.8366**	**.00416**	**.00306**
Stddev	.00	.00008	.0241	.00227	.00024
%RSD	.0013	1.1589	.27294	54.468	7.7094
#1	25.12	.00669	8.8196	.00256	.00323
#2	25.13	.00680	8.8537	.00576	.00290
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7825**	**.00407**	**.23716**	**1.010**	**.00770**
Stddev	.0945	.00044	.00004	.002	.00010
%RSD	.96549	10.780	.01496	.1976	1.3325
#1	9.8493	.00438	.23718	1.012	.00778
#2	9.7157	.00376	.23713	1.009	.00763
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193127-C-3-A Acquired: 12/15/2021 14:11:21 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00066**	**-.00024**	**.14462**	**1.001**
Stddev	.00011	.00040	.00086	.001
%RSD	16.638	167.93	.59545	.0707
#1	-.00074	.00004	.14523	1.001
#2	-.00058	-.00052	.14402	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2731.3**	**2829.6**	**23989.**	**3055.6**
Stddev	6.8	6.1	101.	15.0
%RSD	.24786	.21573	.42005	.49049
#1	2736.1	2833.9	23918.	3045.0
#2	2726.5	2825.3	24061.	3066.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.781%	92.501%	89.576%	103.52%
Range				

Sample Name: 480-193173-C-1-A Acquired: 12/15/2021 14:15:08 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**45.867**	**.03131**	**14.996**	**.14564**
Stddev	.00036	.659	.00024	.000	.00023
%RSD	54.650	1.4365	.76048	.00224	.16111
#1	-.00091	45.401	.03147	14.996	.14548
#2	-.00040	46.332	.03114	14.996	.14581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**543.44**	**.00119**	**-.1521**	**.11307**
Stddev	.00015	4.95	.00013	.0022	.00031
%RSD	65.134	.91018	10.598	1.459	.27140
#1	.00012	539.94	.00110	-.1537	.11329
#2	.00033	546.93	.00128	-.1505	.11286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35843**	**.43602**	**88.172**	**408.36**	**.28040**
Stddev	.00125	.00186	.725	4.77	.00223
%RSD	.34889	.42752	.82169	1.1677	.79636
#1	.35755	.43734	87.660	404.99	.27882
#2	.35932	.43470	88.684	411.74	.28198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193173-C-1-A Acquired: 12/15/2021 14:15:08 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**200.13**	**11.409**	**3.0567**	F **1765.1**	**2.9200**
Stddev	.31	.019	.0032	21.7	.0051
%RSD	.15293	.16823	.10352	1.2303	.17363
#1	200.35	11.395	3.0589	1749.7	2.9236
#2	199.91	11.422	3.0544	1780.4	2.9164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.05**	**.02314**	F **879.84**	**.06260**	**.04913**
Stddev	.01	.00034	1.36	.00205	.00248
%RSD	.0381	1.4640	.15424	3.2761	5.0527
#1	34.06	.02290	880.79	.06405	.04737
#2	34.04	.02338	878.88	.06115	.05088
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.735**	**.09500**	**2.3199**	**1.037**	**.26872**
Stddev	.032	.00023	.0305	.002	.00050
%RSD	.24991	.24233	1.3152	.1433	.18781
#1	12.713	.09516	2.2984	1.038	.26907
#2	12.758	.09483	2.3415	1.036	.26836
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193173-C-1-A Acquired: 12/15/2021 14:15:08 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.01989**	**.07878**	**9.2154**	**1.009**
Stddev	.00060	.00032	.0022	.001
%RSD	3.0087	.40199	.02330	.0613
#1	-.02031	.07856	9.2139	1.010
#2	-.01947	.07901	9.2169	1.009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2355.0**	**2499.2**	**21483.**	**2865.2**
Stddev	7.0	5.0	44.	59.5
%RSD	.29705	.20110	.20286	2.0754
#1	2350.1	2495.6	21514.	2907.3
#2	2360.0	2502.7	21452.	2823.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	67.929%	81.698%	80.217%	97.068%
Range				

Sample Name: 480-193173-C-2-A Acquired: 12/15/2021 14:18:58 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.60376**	**.03149**	**13.778**	**.42947**
Stddev	.00006	.01393	.00183	.010	.00050
%RSD	7.7814	2.3068	5.8158	.07070	.11572
#1	-.00081	.61361	.03279	13.771	.42982
#2	-.00072	.59391	.03020	13.785	.42911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	F **1279.0**	**-.00014**	**-.1438**	**.10203**
Stddev	.00012	6.3	.00013	.0274	.00016
%RSD	72.813	.49255	94.359	19.03	.15406
#1	-.00025	1274.5	-.00005	-.1245	.10214
#2	-.00008	1283.4	-.00023	-.1632	.10192
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25237**	**.03442**	**118.79**	**450.87**	**.50529**
Stddev	.00043	.00101	.16	2.36	.00108
%RSD	.17019	2.9376	.13884	.52429	.21416
#1	.25267	.03514	118.67	449.20	.50606
#2	.25206	.03371	118.91	452.54	.50453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193173-C-2-A Acquired: 12/15/2021 14:18:58 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **515.74**	**10.742**	**.01244**	F **1718.8**	**1.0883**
Stddev	.58	.004	.00001	5.0	.0011
%RSD	.11202	.04022	.09891	.29276	.10468
#1	515.34	10.739	.01245	1715.3	1.0891
#2	516.15	10.745	.01243	1722.4	1.0875
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			900.00	
Low Limit	-.20000			-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.28**	**.02965**	F **213.22**	**.07402**	**.01283**
Stddev	.00	.00018	.01	.00096	.00043
%RSD	.0015	.62133	.00520	1.2972	3.3490
#1	30.28	.02978	213.21	.07334	.01313
#2	30.28	.02952	213.22	.07470	.01252
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.760**	**.00714**	**3.4289**	**1.058**	**.06131**
Stddev	.032	.00061	.0238	.009	.00049
%RSD	.13513	8.5116	.69389	.8798	.80331
#1	23.737	.00671	3.4121	1.064	.06096
#2	23.783	.00757	3.4457	1.051	.06166
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193173-C-2-A Acquired: 12/15/2021 14:18:58 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00681**	**.04901**	**2.3764**	**1.002**
Stddev	.00078	.00033	.0006	.002
%RSD	11.480	.67152	.02684	.1518
#1	-.00626	.04924	2.3768	1.003
#2	-.00736	.04877	2.3759	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2245.8**	**2447.3**	**21155.**	**2869.3**
Stddev	.1	1.3	7.	13.4
%RSD	.00303	.05428	.03128	.46578
#1	2245.8	2448.3	21150.	2878.8
#2	2245.9	2446.4	21159.	2859.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	64.779%	80.004%	78.991%	97.208%
Range				

Sample Name: 480-193014-C-1-A Acquired: 12/15/2021 14:22:55 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**1.2702**	**.22185**	**12.364**	**.30015**
Stddev	.00079	.0072	.00073	.002	.00066
%RSD	169.04	.56788	.32801	.01456	.21984
#1	-.00103	1.2753	.22236	12.365	.29969
#2	.00009	1.2651	.22133	12.363	.30062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**104.00**	**.00096**	**-.0600**	**.05766**
Stddev	.00007	.20	.00017	.0440	.00009
%RSD	192.34	.19281	17.799	73.30	.15669
#1	-.00001	103.86	.00084	-.0911	.05760
#2	.00008	104.14	.00108	-.0289	.05773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0196**	**.01792**	**5.5802**	F **716.68**	**.36817**
Stddev	.0049	.00017	.0125	1.10	.00067
%RSD	.48322	.94216	.22325	.15306	.18308
#1	1.0162	.01804	5.5714	715.91	.36769
#2	1.0231	.01780	5.5890	717.46	.36864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-193014-C-1-A Acquired: 12/15/2021 14:22:55 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**169.29**	**.12627**	**.05082**	F **2716.1**	**.33744**
Stddev	.26	.00020	.00008	.4	.00046
%RSD	.15572	.15719	.15030	.01433	.13662
#1	169.10	.12613	.05087	2715.8	.33712
#2	169.48	.12641	.05076	2716.3	.33777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.55**	**.02115**	F **99.019**	**.01946**	**.01013**
Stddev	.01	.00231	.044	.00054	.00089
%RSD	.0320	10.920	.04422	2.7855	8.7356
#1	33.56	.02279	98.988	.01985	.00951
#2	33.54	.01952	99.050	.01908	.01076
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.426**	**.08196**	**1.1205**	**1.003**	**.56253**
Stddev	.077	.00018	.0003	.002	.00081
%RSD	.36144	.21627	.02353	.1708	.14424
#1	21.372	.08183	1.1204	1.004	.56195
#2	21.481	.08208	1.1207	1.002	.56310
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193014-C-1-A Acquired: 12/15/2021 14:22:55 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00107**	**.12252**	**.21630**	**1.061**
Stddev	.00050	.00039	.00041	.001
%RSD	46.626	.31829	.19182	.0732
#1	-.00072	.12225	.21600	1.060
#2	-.00142	.12280	.21659	1.061
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2387.1**	**2575.9**	**21637.**	**2950.2**
Stddev	2.7	.3	45.	4.3
%RSD	.11326	.01084	.20778	.14682
#1	2389.0	2575.7	21669.	2953.3
#2	2385.1	2576.1	21605.	2947.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.853%	84.206%	80.792%	99.949%
Range				

Sample Name: 480-193032-C-1-A Acquired: 12/15/2021 14:26:39 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**1.8271**	**.11651**	**9.9938**	**.40784**
Stddev	.00168	.0387	.00044	.0119	.00190
%RSD	759.69	2.1184	.37990	.11869	.46650
#1	.00097	1.8544	.11620	9.9854	.40649
#2	-.00141	1.7997	.11682	10.002	.40918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**61.441**	**.00069**	**-.0834**	**.05647**
Stddev	.00005	.119	.00027	.0047	.00018
%RSD	66.764	.19362	39.453	5.659	.31117
#1	.00011	61.525	.00088	-.0867	.05660
#2	.00004	61.357	.00050	-.0800	.05635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.62558**	**.01097**	**9.9181**	F **546.00**	**.41138**
Stddev	.00048	.00016	.0032	.58	.00063
%RSD	.07711	1.4771	.03227	.10603	.15254
#1	.62592	.01108	9.9158	546.41	.41182
#2	.62524	.01085	9.9204	545.59	.41093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-193032-C-1-A Acquired: 12/15/2021 14:26:39 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**115.74**	**.10215**	**.05582**	F **2917.2**	**.30550**
Stddev	.02	.00017	.00040	14.1	.00013
%RSD	.02045	.16377	.72096	.48349	.04100
#1	115.75	.10226	.05611	2927.2	.30559
#2	115.72	.10203	.05554	2907.2	.30541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.60**	**.01463**	F **114.92**	**.01349**	**.00404**
Stddev	.01	.00069	.11	.00204	.00122
%RSD	.0313	4.7433	.09218	15.123	30.212
#1	31.59	.01413	114.84	.01204	.00490
#2	31.61	.01512	114.99	.01493	.00317
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.970**	**.08885**	**2.3699**	**1.002**	**.27682**
Stddev	.023	.00016	.0055	.006	.00038
%RSD	.09052	.18087	.23318	.6504	.13785
#1	24.954	.08897	2.3738	1.007	.27655
#2	24.986	.08874	2.3660	.9974	.27709
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193032-C-1-A Acquired: 12/15/2021 14:26:39 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00143**	**.05821**	**.16055**	**1.057**
Stddev	.00179	.00101	.00062	.001
%RSD	125.41	1.7366	.38458	.0855
#1	-.00269	.05749	.16099	1.058
#2	-.00016	.05892	.16011	1.057
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2399.4**	**2590.1**	**21707.**	**2935.2**
Stddev	2.7	1.4	39.	4.6
%RSD	.11104	.05481	.18178	.15762
#1	2397.6	2591.1	21679.	2938.4
#2	2401.3	2589.1	21735.	2931.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.210%	84.671%	81.055%	99.438%
Range				

Sample Name: 480-193247-D-1-A Acquired: 12/15/2021 14:30:23 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**1.5382**	**.24242**	**2.7585**	**.12402**
Stddev	.00075	.0393	.00232	.0048	.00031
%RSD	136.42	2.5558	.95610	.17439	.24746
#1	-.00002	1.5104	.24078	2.7619	.12380
#2	-.00108	1.5660	.24405	2.7551	.12423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**14.168**	**.00032**	**-.0575**	**.01873**
Stddev	.00010	.056	.00003	.0320	.00026
%RSD	152.10	.39785	9.8109	55.70	1.3701
#1	.00013	14.208	.00034	-.0348	.01891
#2	-.00000	14.128	.00030	-.0801	.01855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08702**	**.02365**	**7.5413**	**185.05**	**.09001**
Stddev	.00046	.00041	.0006	.51	.00097
%RSD	.52820	1.7520	.00745	.27755	1.0731
#1	.08670	.02336	7.5409	185.41	.08933
#2	.08735	.02394	7.5417	184.69	.09069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193247-D-1-A Acquired: 12/15/2021 14:30:23 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.328**	**.07592**	**.01385**	**605.71**	**.05974**
Stddev	.067	.00008	.00018	2.52	.00040
%RSD	.38478	.10396	1.2884	.41658	.67439
#1	17.280	.07586	.01398	607.50	.05946
#2	17.375	.07597	.01373	603.93	.06003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.36**	**.01559**	F **103.93**	**.06219**	**.00317**
Stddev	.00	.00113	.06	.00220	.00186
%RSD	.0010	7.2637	.05354	3.5440	58.768
#1	29.36	.01479	103.97	.06063	.00449
#2	29.36	.01639	103.89	.06375	.00185
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.297**	**.03238**	**.14117**	**1.000**	**.06405**
Stddev	.071	.00015	.00000	.004	.00017
%RSD	.62759	.46151	.00093	.3748	.26251
#1	11.347	.03228	.14117	1.003	.06393
#2	11.246	.03249	.14117	.9975	.06417
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193247-D-1-A Acquired: 12/15/2021 14:30:23 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00979**	**.15958**	**.9997**
Stddev	.00129	.00001	.00092	.0007
%RSD	868.09	.05827	.57876	.0746
#1	-.00106	.00979	.15893	.9992
#2	.00076	.00978	.16024	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2808.0**	**2857.8**	**24570.**	**3071.5**
Stddev	2.0	.0	148.	4.3
%RSD	.07033	.00130	.60225	.13983
#1	2806.6	2857.8	24675.	3074.6
#2	2809.4	2857.8	24466.	3068.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.995%	93.423%	91.745%	104.06%
Range				

Sample Name: 480-193255-C-1-A Acquired: 12/15/2021 14:34:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.65511**	**.02794**	**6.2241**	**.28891**
Stddev	.00032	.03621	.00009	.0045	.00057
%RSD	218.88	5.5278	.31144	.07149	.19836
#1	-.00008	.68072	.02788	6.2209	.28851
#2	.00037	.62951	.02800	6.2272	.28932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**67.987**	**.00054**	**-.0633**	**.01836**
Stddev	.00006	.037	.00007	.0358	.00016
%RSD	138.77	.05494	12.185	56.57	.86333
#1	-.00000	67.961	.00059	-.0380	.01824
#2	-.00009	68.013	.00050	-.0886	.01847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24802**	**.04398**	**4.2856**	**258.43**	**.12046**
Stddev	.00014	.00005	.0006	.46	.00197
%RSD	.05461	.12313	.01383	.17751	1.6330
#1	.24792	.04395	4.2852	258.76	.11907
#2	.24812	.04402	4.2860	258.11	.12185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193255-C-1-A Acquired: 12/15/2021 14:34:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.670**	**.26132**	**.01909**	F **900.18**	**.14532**
Stddev	.072	.00020	.00021	1.53	.00038
%RSD	.08197	.07717	1.0768	.16966	.26090
#1	87.721	.26118	.01923	899.10	.14505
#2	87.620	.26146	.01894	901.26	.14558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.34**	**.01536**	**46.921**	**.00464**	**.00230**
Stddev	.00	.00124	.035	.00083	.00011
%RSD	.0145	8.0848	.07516	17.944	4.8205
#1	27.34	.01448	46.896	.00405	.00238
#2	27.35	.01623	46.946	.00523	.00222
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.983**	**.04063**	**.50576**	**1.002**	**.13301**
Stddev	.004	.00035	.00111	.003	.00014
%RSD	.04060	.86295	.21979	.2739	.10591
#1	10.986	.04039	.50655	1.000	.13291
#2	10.980	.04088	.50498	1.004	.13311
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193255-C-1-A Acquired: 12/15/2021 14:34:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00092**	**.02801**	**.15783**	**1.021**
Stddev	.00029	.00062	.00019	.000
%RSD	31.714	2.2193	.12122	.0057
#1	-.00072	.02757	.15797	1.021
#2	-.00113	.02845	.15770	1.021
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2676.3**	**2769.0**	**23792.**	**3015.3**
Stddev	1.5	.2	17.	3.3
%RSD	.05784	.00849	.07005	.10900
#1	2677.4	2768.8	23780.	3012.9
#2	2675.2	2769.2	23804.	3017.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.195%	90.519%	88.839%	102.15%
Range				

Sample Name: 480-193325-A-29-A@2 Acquired: 12/15/2021 14:37:53 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**36.290**	**.03457**	**.09838**	**.36888**
Stddev	.00119	.263	.00072	.00148	.00002
%RSD	3153.3	.72537	2.0893	1.5009	.00637
#1	.00081	36.103	.03508	.09943	.36886
#2	-.00088	36.476	.03406	.09734	.36889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00219**	**610.73**	**.00110**	**.1351**	**.02113**
Stddev	.00009	4.26	.00012	.0213	.00008
%RSD	4.1348	.69783	11.283	15.76	.36339
#1	.00226	613.74	.00118	.1502	.02118
#2	.00213	607.72	.00101	.1201	.02108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06223**	**.13218**	**54.349**	**10.289**	**.07395**
Stddev	.00000	.00070	.334	.000	.00145
%RSD	.00391	.53249	.61439	.00025	1.9608
#1	.06223	.13268	54.113	10.289	.07292
#2	.06224	.13168	54.585	10.289	.07498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193325-A-29-A@2 Acquired: 12/15/2021 14:37:53 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.030**	**1.3092**	**.00575**	**1.3403**	**.06354**
Stddev	.056	.0002	.00007	.0067	.00113
%RSD	.11895	.01313	1.1405	.49979	1.7824
#1	47.070	1.3094	.00571	1.3356	.06274
#2	46.990	1.3091	.00580	1.3450	.06434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.78**	**.59432**	**5.2851**	**.00789**	**.00403**
Stddev	.00	.00078	.0059	.00084	.00493
%RSD	.0019	.13114	.11206	10.657	122.42
#1	25.79	.59377	5.2893	.00848	.00751
#2	25.78	.59487	5.2809	.00729	.00054
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6478**	**.07615**	**.57655**	**1.031**	**.79856**
Stddev	.0225	.00026	.00358	.000	.00315
%RSD	.48324	.33791	.62022	.0025	.39462
#1	4.6637	.07633	.57402	1.031	.79633
#2	4.6320	.07597	.57908	1.031	.80079
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193325-A-29-A@2 Acquired: 12/15/2021 14:37:53 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00143**	**.07967**	**.39847**	**1.014**
Stddev	.00096	.00049	.00143	.000
%RSD	67.213	.61664	.35852	.0111
#1	-.00211	.07932	.39746	1.014
#2	-.00075	.08002	.39948	1.014
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2751.9**	**2950.8**	**25617.**	**3133.5**
Stddev	6.5	7.5	37.	2.7
%RSD	.23630	.25464	.14426	.08579
#1	2747.3	2945.5	25591.	3135.4
#2	2756.5	2956.1	25643.	3131.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.377%	96.463%	95.654%	106.16%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 14:41:36 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0144**	**50.068**	**.97447**	**1.0552**	**.97117**
Stddev	.0004	.034	.00231	.0011	.00017
%RSD	.04001	.06865	.23727	.10344	.01718
#1	1.0141	50.092	.97611	1.0560	.97128
#2	1.0147	50.044	.97284	1.0544	.97105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97909**	**49.998**	**.97643**	**1.024**	**1.0050**
Stddev	.00005	.058	.00119	.040	.0006
%RSD	.00545	.11527	.12148	3.878	.06294
#1	.97905	50.039	.97727	1.052	1.0055
#2	.97913	49.958	.97560	.9957	1.0046
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99683**	**1.0069**	**50.188**	**49.671**	**.97763**
Stddev	.00013	.0001	.038	.025	.00209
%RSD	.01265	.00502	.07655	.05023	.21329
#1	.99675	1.0069	50.161	49.688	.97911
#2	.99692	1.0069	50.215	49.653	.97616
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 14:41:36 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.999**	**.98403**	**1.0112**	**48.296**	**.97347**
Stddev	.089	.00013	.0012	.001	.00035
%RSD	.18477	.01371	.11864	.00218	.03581
#1	47.936	.98413	1.0121	48.295	.97372
#2	48.061	.98394	1.0104	48.296	.97322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.58**	**1.0035**	**25.234**	**.97857**	**.99513**
Stddev	.03	.0002	.045	.00193	.00525
%RSD	.0707	.01842	.17705	.19720	.52752
#1	37.60	1.0036	25.266	.97720	.99884
#2	37.56	1.0034	25.202	.97993	.99141
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.326**	**1.0008**	**.97067**	**1.515**	**1.0110**
Stddev	.074	.0024	.00028	.009	.0017
%RSD	.71413	.23488	.02849	.5955	.16453
#1	10.274	1.0024	.97047	1.509	1.0122
#2	10.378	.99911	.97086	1.522	1.0098
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 14:41:36 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99058**	**.99877**	**1.0230**	**1.497**
Stddev	.00076	.00108	.0006	.000
%RSD	.07693	.10784	.05619	.0004
#1	.99112	.99953	1.0226	1.497
#2	.99004	.99801	1.0234	1.497
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2984.0**	**2950.7**	**25394.**	**2938.2**
Stddev	9.0	8.5	90.	4.3
%RSD	.30084	.28949	.35429	.14677
#1	2990.3	2956.7	25458.	2935.1
#2	2977.6	2944.7	25330.	2941.2

Sample Name: CCB-6810114 Acquired: 12/15/2021 14:45:09 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.04329**	**.00134**	F **.02562**	**.00001**
Stddev	.00059	.05016	.00071	.00501	.00004
%RSD	75.045	115.88	53.090	19.563	264.16
#1	-.00037	.07876	.00184	.02208	-.00001
#2	-.00120	.00782	.00084	.02916	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.03698**	**.00017**	**-.0294**	**-.00003**
Stddev	.00004	.00096	.00001	.0217	.00018
%RSD	107.14	2.5907	6.8147	73.68	644.89
#1	-.00001	.03630	.00016	-.0447	-.00016
#2	-.00007	.03766	.00018	-.0141	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00022**	**.00228**	**.22330**	**.00051**
Stddev	.00046	.00070	.00128	.07314	.00242
%RSD	245.09	314.88	55.962	32.754	474.89
#1	.00014	-.00072	.00319	.27501	.00222
#2	-.00052	.00027	.00138	.17158	-.00120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 14:45:09 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01305**	**.00018**	**.00045**	**.25245**	**.00052**
Stddev	.00052	.00010	.00023	.00036	.00049
%RSD	4.0071	57.158	51.797	.14409	95.470
#1	.01268	.00025	.00028	.25271	.00017
#2	.01342	.00011	.00061	.25220	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00138**	**.12111**	**-.00106**	**.00175**
Stddev	.00	.00096	.09460	.00204	.00067
%RSD	.0155	69.903	78.114	192.01	38.332
#1	25.01	.00206	.05421	-.00251	.00127
#2	25.02	.00070	.18800	.00038	.00222
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06103**	**-.00002**	**-.00004**	**.9973**	**-.00035**
Stddev	.02106	.00093	.00005	.0034	.00005
%RSD	34.499	4073.6	130.10	.3448	13.775
#1	.07592	-.00068	-.00008	.9949	-.00031
#2	.04614	.00064	-.00000	.9997	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 14:45:09 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00057**	**-.00035**	**.00029**	**.9977**
Stddev	.00165	.00022	.00038	.0007
%RSD	290.44	63.160	129.28	.0682
#1	.00060	-.00051	.00003	.9982
#2	-.00174	-.00019	.00056	.9973
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3409.9**	**3023.5**	**26144.**	**2840.5**
Stddev	24.7	29.6	119.	16.8
%RSD	.72571	.97962	.45687	.58992
#1	3392.4	3002.6	26060.	2852.4
#2	3427.4	3044.5	26229.	2828.7

Sample Name: CCVL-6811103 Acquired: 12/15/2021 14:48:58 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00560**	**.24889**	**.01458**	F **.03537**	**.00208**
Stddev	.00084	.00893	.00066	.00036	.00001
%RSD	15.083	3.5886	4.5482	1.0156	.32429
#1	.00620	.25521	.01505	.03563	.00208
#2	.00500	.24258	.01411	.03512	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00199**	**.56129**	**.00209**	**-.0319**	**.00351**
Stddev	.00013	.00350	.00016	.0181	.00004
%RSD	6.7867	.62330	7.7831	56.77	1.0365
#1	.00208	.55881	.00220	-.0447	.00348
#2	.00189	.56376	.00197	-.0191	.00354
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00431**	**.00896**	**.05114**	**.64476**	**.02702**
Stddev	.00001	.00041	.00165	.00987	.00245
%RSD	.17914	4.5527	3.2172	1.5310	9.0848
#1	.00431	.00867	.04998	.63778	.02876
#2	.00432	.00924	.05231	.65174	.02528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 14:48:58 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20089**	**.00330**	**.00930**	**1.2415**	**.00955**
Stddev	.00215	.00007	.00017	.0047	.00048
%RSD	1.0720	2.2250	1.8591	.38100	4.9939
#1	.20241	.00335	.00918	1.2448	.00989
#2	.19936	.00325	.00943	1.2381	.00922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01155**	**.22200**	**.01735**	**.02361**
Stddev	.00	.00001	.00262	.00027	.00125
%RSD	.0032	.05025	1.1794	1.5367	5.3093
#1	25.00	.01155	.22015	.01716	.02450
#2	25.00	.01154	.22385	.01754	.02273
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49389**	**.00918**	**.00513**	F **1.002**	**.00428**
Stddev	.01073	.00083	.00001	.003	.00042
%RSD	2.1736	8.9931	.25916	.3245	9.7725
#1	.48630	.00976	.00512	1.0000	.00398
#2	.50148	.00859	.00514	1.005	.00458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 14:48:58 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01919**	**.00453**	**.01059**	F **.9989**
Stddev	.00058	.00028	.00024	.0001
%RSD	3.0218	6.1700	2.2544	.0144
#1	.01878	.00433	.01076	.9990
#2	.01960	.00473	.01042	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3492.9**	**3092.0**	**27081.**	**2984.5**
Stddev	2.5	3.2	18.	6.5
%RSD	.07133	.10441	.06489	.21792
#1	3491.1	3089.7	27093.	2979.9
#2	3494.6	3094.3	27068.	2989.1

Sample Name: 480-193325-A-30-A@2 Acquired: 12/15/2021 14:52:45 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00132**	**18.038**	**.01908**	**.07468**	**.16468**
Stddev	.00038	.073	.00086	.00043	.00006
%RSD	28.731	.40723	4.4903	.57576	.03475
#1	-.00105	17.986	.01968	.07498	.16464
#2	-.00158	18.090	.01847	.07437	.16473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00104**	F **919.53**	**.00042**	**.0217**	**.00901**
Stddev	.00008	5.25	.00000	.0250	.00005
%RSD	8.0694	.57143	.83107	115.5	.60585
#1	.00110	915.81	.00041	.0394	.00897
#2	.00098	923.24	.00042	.0040	.00905
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04427**	**.05849**	**27.826**	**7.5685**	**.06818**
Stddev	.00009	.00074	.095	.0726	.00027
%RSD	.19967	1.2644	.34223	.95889	.39530
#1	.04433	.05901	27.758	7.5172	.06799
#2	.04420	.05797	27.893	7.6199	.06837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193325-A-30-A@2 Acquired: 12/15/2021 14:52:45 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.761**	**.72118**	**.00380**	**1.5274**	**.04091**
Stddev	.240	.00322	.00023	.0141	.00058
%RSD	.52541	.44614	5.9995	.92166	1.4250
#1	45.931	.72346	.00396	1.5373	.04132
#2	45.591	.71891	.00364	1.5174	.04050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.44**	**.19973**	**9.1586**	**.00166**	**.00326**
Stddev	.00	.00083	.0277	.00316	.00060
%RSD	.0040	.41544	.30288	190.79	18.293
#1	25.44	.19914	9.1390	.00389	.00368
#2	25.44	.20032	9.1782	-.00058	.00284
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2030**	**.04133**	**2.0240**	**1.023**	**.26578**
Stddev	.0210	.00036	.0040	.005	.00097
%RSD	.65524	.87515	.20006	.5011	.36671
#1	3.2178	.04108	2.0211	1.027	.26647
#2	3.1881	.04159	2.0268	1.020	.26509
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193325-A-30-A@2 Acquired: 12/15/2021 14:52:45 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.04701**	**.19160**	**1.009**
Stddev	.00005	.00031	.00142	.000
%RSD	7.0402	.66370	.73886	.0031
#1	-.00074	.04723	.19260	1.009
#2	-.00067	.04679	.19060	1.009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2707.2**	**2911.7**	**25284.**	**3058.1**
Stddev	1.0	.2	205.	12.9
%RSD	.03598	.00724	.81173	.42099
#1	2706.6	2911.8	25139.	3067.2
#2	2707.9	2911.5	25430.	3049.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.088%	95.184%	94.412%	103.60%
Range				

Sample Name: 480-193325-A-31-A@2 Acquired: 12/15/2021 14:56:28 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**42.519**	**.02031**	**.07962**	**.30591**
Stddev	.00057	.099	.00029	.00006	.00033
%RSD	349.85	.23282	1.4239	.07870	.10882
#1	.00056	42.449	.02011	.07966	.30614
#2	-.00024	42.589	.02052	.07958	.30567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00585**	F **908.83**	**.00138**	**.1097**	**.01163**
Stddev	.00007	3.91	.00025	.0578	.00002
%RSD	1.1205	.43056	17.933	52.67	.19386
#1	.00589	911.59	.00121	.0688	.01161
#2	.00580	906.06	.00156	.1505	.01164
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07514**	**.13269**	**35.533**	**7.8309**	**.08305**
Stddev	.00055	.00101	.006	.0574	.00422
%RSD	.73693	.76325	.01596	.73259	5.0820
#1	.07475	.13198	35.529	7.7903	.08007
#2	.07553	.13341	35.537	7.8715	.08604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193325-A-31-A@2 Acquired: 12/15/2021 14:56:28 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**54.690**	**1.9422**	**.01138**	**1.8115**	**.04390**
Stddev	.229	.0033	.00006	.0335	.00020
%RSD	.41791	.16912	.51119	1.8512	.44904
#1	54.529	1.9398	.01134	1.8353	.04404
#2	54.852	1.9445	.01142	1.7878	.04376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.54**	**.35446**	**5.0229**	**-.00014**	**.00022**
Stddev	.00	.00206	.0097	.00016	.00657
%RSD	.0066	.58136	.19329	115.54	3037.1
#1	25.53	.35591	5.0160	-.00025	-.00443
#2	25.54	.35300	5.0297	-.00003	.00486
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.992**	**.04707**	**.64943**	**1.028**	**1.1536**
Stddev	.222	.00124	.00185	.004	.0011
%RSD	1.8494	2.6250	.28506	.3557	.09313
#1	11.835	.04795	.64812	1.030	1.1543
#2	12.149	.04620	.65074	1.025	1.1528
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193325-A-31-A@2 Acquired: 12/15/2021 14:56:28 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00231**	**.05878**	**.44712**	**1.034**
Stddev	.00142	.00042	.00068	.001
%RSD	61.513	.71265	.15239	.0975
#1	-.00130	.05848	.44664	1.035
#2	-.00331	.05907	.44761	1.033
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2681.3**	**2983.8**	**25721.**	**3176.9**
Stddev	2.1	2.2	7.	8.3
%RSD	.08012	.07289	.02799	.25984
#1	2679.8	2985.3	25726.	3171.1
#2	2682.8	2982.3	25716.	3182.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.340%	97.541%	96.043%	107.63%
Range				

Sample Name: 193325-A-31-ASD@10 Acquired: 12/15/2021 15:00:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**9.0656**	**.00470**	**.02320**	**.06478**
Stddev	.00033	.0243	.00059	.00064	.00017
%RSD	51.361	.26755	12.497	2.7500	.26670
#1	-.00088	9.0485	.00429	.02275	.06490
#2	-.00041	9.0828	.00512	.02365	.06466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**203.98**	**.00027**	**-.0232**	**.00224**
Stddev	.00003	1.48	.00008	.0401	.00003
%RSD	2.4722	.72578	31.108	172.9	1.2879
#1	.00122	205.02	.00021	.0052	.00222
#2	.00118	202.93	.00033	-.0516	.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01622**	**.02720**	**7.8445**	**1.7078**	**.01508**
Stddev	.00025	.00058	.0100	.0299	.00075
%RSD	1.5286	2.1449	.12695	1.7504	4.9825
#1	.01640	.02761	7.8515	1.7290	.01455
#2	.01604	.02678	7.8374	1.6867	.01561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 193325-A-31-ASD@10 Acquired: 12/15/2021 15:00:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.734**	**.41640**	**.00132**	**.49429**	**.00890**
Stddev	.019	.00032	.00011	.01641	.00005
%RSD	.16001	.07745	8.2457	3.3200	.60385
#1	11.720	.41663	.00125	.48269	.00894
#2	11.747	.41617	.00140	.50590	.00886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.06913**	**1.0297**	**-.00237**	**.00246**
Stddev	.00	.00038	.0029	.00076	.00382
%RSD	.0015	.54570	.27825	32.133	155.25
#1	25.12	.06886	1.0276	-.00183	.00516
#2	25.12	.06939	1.0317	-.00291	-.00024
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93656**	**.00914**	**.13886**	**.9973**	**.24360**
Stddev	.02032	.00026	.00016	.0025	.00079
%RSD	2.1699	2.8173	.11769	.2509	.32369
#1	.92219	.00896	.13897	.9991	.24416
#2	.95093	.00933	.13874	.9955	.24304
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 193325-A-31-ASD@10 Acquired: 12/15/2021 15:00:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00068**	**.01197**	**.09833**	**1.007**
Stddev	.00141	.00037	.00002	.000
%RSD	208.00	3.1304	.02223	.0079
#1	.00168	.01170	.09831	1.007
#2	-.00032	.01223	.09834	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3100.4**	**2997.4**	**26183.**	**3053.2**
Stddev	2.0	2.5	14.	31.9
%RSD	.06475	.08438	.05472	1.0451
#1	3101.8	2999.2	26194.	3030.6
#2	3098.9	2995.6	26173.	3075.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.427%	97.985%	97.769%	103.44%
Range				

Sample Name: 193325-A-31-APDS@2 Acquired: 12/15/2021 15:03:51 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10132**	**57.769**	**.41497**	**.45626**	**.65099**
Stddev	.00030	.047	.00105	.00020	.00182
%RSD	.29999	.08203	.25311	.04299	.28032
#1	.10111	57.802	.41571	.45640	.65228
#2	.10154	57.735	.41423	.45612	.64970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39301**	**849.22**	**.38544**	**.1251**	**.42754**
Stddev	.00117	7.61	.00030	.0082	.00049
%RSD	.29816	.89664	.07745	6.554	.11346
#1	.39384	854.60	.38565	.1309	.42720
#2	.39218	843.84	.38523	.1193	.42788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43720**	**.51403**	**49.985**	**26.206**	**.45090**
Stddev	.00176	.00037	.137	.020	.00223
%RSD	.40197	.07242	.27315	.07671	.49409
#1	.43845	.51377	50.081	26.220	.44933
#2	.43596	.51429	49.888	26.192	.45248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 193325-A-31-APDS@2 Acquired: 12/15/2021 15:03:51 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.146**	**2.1357**	**.40117**	**19.976**	**.43721**
Stddev	.129	.0024	.00025	.045	.00090
%RSD	.18966	.11134	.06129	.22408	.20649
#1	68.238	2.1373	.40099	20.007	.43657
#2	68.055	2.1340	.40134	19.944	.43784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.19**	**.73707**	**4.5739**	**.40373**	**.38460**
Stddev	.00	.00051	.0070	.00023	.00069
%RSD	.0040	.06962	.15253	.05636	.17919
#1	25.19	.73671	4.5690	.40357	.38508
#2	25.19	.73743	4.5788	.40389	.38411
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8343**	**.45038**	**.94486**	**1.024**	**1.4419**
Stddev	.0340	.00036	.00218	.010	.0019
%RSD	.38542	.07988	.23051	.9639	.13540
#1	8.8583	.45012	.94640	1.017	1.4433
#2	8.8102	.45063	.94332	1.031	1.4405
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 193325-A-31-APDS@2 Acquired: 12/15/2021 15:03:51 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.40493**	**.43966**	**.77197**	**1.035**
Stddev	.00185	.00007	.00143	.001
%RSD	.45776	.01496	.18553	.0649
#1	.40362	.43961	.77299	1.034
#2	.40624	.43970	.77096	1.035
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2650.5**	**2948.4**	**25514.**	**3137.2**
Stddev	2.9	2.5	145.	2.1
%RSD	.11002	.08332	.56861	.06689
#1	2652.6	2946.7	25411.	3135.7
#2	2648.4	2950.1	25616.	3138.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.451%	96.384%	95.269%	106.28%
Range				

Sample Name: 193325-A-31-B MS@2 Acquired: 12/15/2021 15:07:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04994**	**63.653**	**.21774**	**.27470**	**.66181**
Stddev	.00005	.147	.00047	.00171	.00250
%RSD	.10785	.23136	.21479	.62194	.37755
#1	.04990	63.757	.21741	.27591	.66004
#2	.04998	63.548	.21807	.27349	.66358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19234**	**318.95**	**.18446**	**.1969**	**.23151**
Stddev	.00054	.00	.00133	.0228	.00181
%RSD	.28164	.00030	.72146	11.58	.78296
#1	.19272	318.95	.18540	.2130	.23279
#2	.19195	318.95	.18352	.1807	.23023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25707**	**.48644**	**83.389**	**20.416**	**.26714**
Stddev	.00055	.00177	.210	.063	.00107
%RSD	.21223	.36426	.25141	.30644	.40157
#1	.25746	.48769	83.537	20.461	.26790
#2	.25669	.48519	83.240	20.372	.26639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 193325-A-31-B MS@2 Acquired: 12/15/2021 15:07:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.573**	**2.6557**	**.18897**	**10.425**	**.27981**
Stddev	.084	.0024	.00164	.036	.00217
%RSD	.12790	.09016	.86775	.34946	.77554
#1	65.633	2.6573	.19013	10.450	.28134
#2	65.514	2.6540	.18781	10.399	.27827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.31**	**1.2885**	**12.182**	**.12318**	**.18872**
Stddev	.02	.0099	.084	.00050	.00378
%RSD	.0618	.77067	.68878	.40914	2.0049
#1	28.33	1.2955	12.241	.12283	.19140
#2	28.30	1.2815	12.123	.12354	.18605
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.544**	**.26525**	**.57458**	**1.046**	**1.1521**
Stddev	.199	.00136	.00174	.002	.0011
%RSD	.88165	.51192	.30305	.2132	.09800
#1	22.684	.26621	.57581	1.048	1.1529
#2	22.403	.26429	.57335	1.045	1.1513
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 193325-A-31-B MS@2 Acquired: 12/15/2021 15:07:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19775**	**.28146**	**1.1710**	**1.038**
Stddev	.00277	.00122	.0014	.001
%RSD	1.3983	.43356	.11826	.1032
#1	.19971	.28233	1.1720	1.039
#2	.19580	.28060	1.1700	1.037
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2855.1**	**3176.6**	**27531.**	**3313.7**
Stddev	.2	5.5	50.	.4
%RSD	.00624	.17159	.17990	.01273
#1	2855.0	3180.5	27566.	3314.0
#2	2855.2	3172.8	27496.	3313.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.353%	103.84%	102.80%	112.26%
Range				

Sample Name: 193325-A-31-C MSD@2 Acquired: 12/15/2021 15:11:15 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04749**	**95.933**	**.20468**	**.29892**	**.79772**
Stddev	.00010	.530	.00089	.00078	.00280
%RSD	.20266	.55215	.43249	.26181	.35081
#1	.04756	95.559	.20531	.29837	.79574
#2	.04742	96.308	.20406	.29948	.79970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18154**	**543.54**	**.17384**	**.1379**	**.20350**
Stddev	.00072	.47	.00030	.0467	.00018
%RSD	.39595	.08679	.17060	33.91	.08671
#1	.18103	543.87	.17405	.1048	.20362
#2	.18205	543.20	.17363	.1709	.20337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22434**	**.37976**	**56.007**	**18.852**	**.26832**
Stddev	.00082	.00100	.309	.041	.00089
%RSD	.36740	.26306	.55094	.21877	.33171
#1	.22492	.37906	55.789	18.823	.26769
#2	.22375	.38047	56.226	18.882	.26895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 193325-A-31-C MSD@2 Acquired: 12/15/2021 15:11:15 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**102.02**	**3.8903**	**.17435**	**10.892**	**.22350**
Stddev	.37	.0122	.00050	.017	.00012
%RSD	.36188	.31473	.28404	.15464	.05344
#1	101.76	3.8816	.17400	10.880	.22342
#2	102.28	3.8989	.17470	10.904	.22359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.67**	**1.0583**	**15.347**	**.08128**	**.17297**
Stddev	.00	.0027	.001	.00233	.00259
%RSD	.0029	.25717	.00391	2.8723	1.4958
#1	25.67	1.0564	15.347	.08293	.17480
#2	25.67	1.0602	15.347	.07963	.17114
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5271**	**.25053**	**.85091**	**1.033**	**2.0448**
Stddev	.2366	.00048	.00361	.007	.0057
%RSD	2.4838	.19052	.42409	.6820	.28094
#1	9.3598	.25087	.84835	1.028	2.0407
#2	9.6944	.25019	.85346	1.038	2.0488
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 193325-A-31-C MSD@2 Acquired: 12/15/2021 15:11:15 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.18867**	**.24164**	**.77503**	**1.085**
Stddev	.00014	.00029	.00251	.000
%RSD	.07363	.11956	.32408	.0173
#1	.18877	.24143	.77325	1.085
#2	.18858	.24184	.77680	1.085
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2726.6**	**3063.3**	**26547.**	**3240.4**
Stddev	1.2	.5	33.	11.3
%RSD	.04429	.01639	.12365	.34993
#1	2725.7	3062.9	26524.	3248.5
#2	2727.5	3063.6	26571.	3232.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.646%	100.14%	99.128%	109.78%
Range				

Sample Name: 480-193325-A-32-A@2 Acquired: 12/15/2021 15:14:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**10.893**	**.01563**	**.05298**	**.05510**
Stddev	.00101	.027	.00068	.00039	.00019
%RSD	1241.8	.25012	4.3532	.73419	.34604
#1	.00063	10.912	.01611	.05326	.05497
#2	-.00079	10.873	.01515	.05271	.05524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	F **1109.5**	**-.00020**	**.0763**	**.00653**
Stddev	.00018	11.2	.00022	.0033	.00031
%RSD	30.398	1.0109	111.06	4.368	4.6856
#1	.00046	1117.5	-.00036	.0786	.00675
#2	.00071	1101.6	-.00004	.0739	.00632
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02457**	**.03058**	**18.912**	**5.2623**	**.05489**
Stddev	.00030	.00062	.035	.0447	.00080
%RSD	1.2097	2.0135	.18557	.85037	1.4518
#1	.02478	.03015	18.887	5.2939	.05546
#2	.02436	.03102	18.937	5.2306	.05433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193325-A-32-A@2 Acquired: 12/15/2021 15:14:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.075**	**.62689**	**.00220**	**.78103**	**.02790**
Stddev	.221	.00254	.00004	.00908	.00024
%RSD	.47953	.40578	2.0091	1.1631	.86907
#1	45.919	.62510	.00217	.78745	.02807
#2	46.231	.62869	.00223	.77460	.02773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.37**	**.05286**	**5.7532**	**-.00140**	**.00008**
Stddev	.00	.00073	.0167	.00031	.00134
%RSD	.0005	1.3817	.29021	22.300	1745.5
#1	25.37	.05338	5.7650	-.00162	-.00087
#2	25.37	.05235	5.7414	-.00118	.00102
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6552**	**.01977**	**.70392**	**1.009**	**.08573**
Stddev	.0221	.00024	.00079	.004	.00070
%RSD	1.3339	1.1919	.11291	.4106	.81982
#1	1.6708	.01960	.70448	1.012	.08523
#2	1.6396	.01993	.70336	1.006	.08622
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193325-A-32-A@2 Acquired: 12/15/2021 15:14:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00114**	**.02938**	**.06962**	**1.005**
Stddev	.00095	.00012	.00019	.001
%RSD	83.310	.39800	.26820	.0659
#1	-.00047	.02930	.06949	1.006
#2	-.00182	.02946	.06976	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2642.0**	**2853.5**	**24918.**	**3047.9**
Stddev	7.0	6.5	174.	5.1
%RSD	.26514	.22919	.69981	.16792
#1	2637.0	2848.9	25041.	3044.3
#2	2646.9	2858.2	24794.	3051.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.205%	93.283%	93.042%	103.26%
Range				

Sample Name: 480-193010-D-2-B@2 Acquired: 12/15/2021 15:18:42 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00143**	**.10865**	**.04402**	**4.0325**	**.16421**
Stddev	.00090	.04498	.00074	.0077	.00037
%RSD	63.112	41.397	1.6784	.19067	.22823
#1	-.00207	.14046	.04349	4.0271	.16447
#2	-.00079	.07685	.04454	4.0379	.16394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**35.079**	**.00048**	**-.0547**	**.02518**
Stddev	.00007	.059	.00029	.0137	.00025
%RSD	113.57	.16815	61.278	24.98	.97402
#1	-.00001	35.121	.00068	-.0451	.02501
#2	-.00011	35.038	.00027	-.0644	.02536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06135**	**.00161**	**.85726**	**210.71**	**.07649**
Stddev	.00003	.00144	.00331	.48	.00018
%RSD	.05062	89.749	.38582	.22695	.23730
#1	.06137	.00059	.85960	211.05	.07636
#2	.06132	.00263	.85492	210.37	.07662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193010-D-2-B@2 Acquired: 12/15/2021 15:18:42 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**63.909**	**.03355**	**.00574**	**851.24**	**.14176**
Stddev	.090	.00002	.00004	.11	.00021
%RSD	.14155	.04944	.62759	.01279	.14996
#1	63.973	.03354	.00572	851.32	.14161
#2	63.845	.03356	.00577	851.17	.14191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.83**	**.00306**	F **104.63**	**.00033**	**.00193**
Stddev	.00	.00105	.15	.00194	.00488
%RSD	.0037	34.467	.13920	588.58	252.44
#1	27.83	.00380	104.53	-.00104	-.00152
#2	27.83	.00231	104.74	.00170	.00539
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7695**	**.02905**	**.71041**	**1.002**	**.13965**
Stddev	.0256	.00028	.00061	.003	.00060
%RSD	.53669	.97144	.08558	.2465	.42873
#1	4.7514	.02925	.71084	1.003	.14008
#2	4.7876	.02885	.70998	.9999	.13923
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193010-D-2-B@2 Acquired: 12/15/2021 15:18:42 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.02945**	**.01137**	**1.023**
Stddev	.00000	.00029	.00030	.000
%RSD	.36921	.97848	2.6636	.0068
#1	-.00010	.02925	.01158	1.023
#2	-.00010	.02966	.01115	1.023
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2731.7**	**2817.7**	**24068.**	**3025.8**
Stddev	4.8	3.2	4.	18.9
%RSD	.17747	.11274	.01670	.62507
#1	2728.2	2815.5	24071.	3012.5
#2	2735.1	2819.9	24065.	3039.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.793%	92.111%	89.869%	102.51%
Range				

Sample Name: 480-193010-D-5-B@5 Acquired: 12/15/2021 15:22:27 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.05765**	**.02491**	**2.1451**	**.02158**
Stddev	.00090	.01847	.00122	.0049	.00004
%RSD	126.52	32.047	4.9001	.22690	.18563
#1	-.00135	.04458	.02404	2.1417	.02155
#2	-.00008	.07071	.02577	2.1486	.02161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**13.105**	**.00023**	**-.0692**	**.00420**
Stddev	.00003	.004	.00003	.0555	.00015
%RSD	260.07	.02926	12.369	80.18	3.6923
#1	.00003	13.108	.00024	-.1084	.00431
#2	-.00001	13.102	.00021	-.0300	.00409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02126**	**.00047**	**.22332**	**114.62**	**.04529**
Stddev	.00028	.00007	.00654	.11	.00027
%RSD	1.2983	15.262	2.9305	.09340	.58666
#1	.02145	.00042	.22794	114.70	.04510
#2	.02106	.00052	.21869	114.55	.04548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193010-D-5-B@5 Acquired: 12/15/2021 15:22:27 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.262**	**.00997**	**.00047**	**358.05**	**.02968**
Stddev	.026	.00000	.00008	.72	.00001
%RSD	.09838	.00841	17.211	.20132	.02766
#1	26.244	.00997	.00041	358.56	.02969
#2	26.281	.00997	.00053	357.54	.02968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.89**	**.00253**	**82.353**	**-.00206**	**-.00236**
Stddev	.00	.00088	.066	.00083	.00271
%RSD	.0010	34.976	.08015	40.153	114.73
#1	25.89	.00315	82.306	-.00148	-.00428
#2	25.89	.00190	82.400	-.00265	-.00045
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4651**	**.00104**	**.24225**	**1.000**	**.03179**
Stddev	.0041	.00048	.00082	.006	.00063
%RSD	.09108	46.541	.33936	.6136	1.9916
#1	4.4622	.00138	.24284	.9958	.03135
#2	4.4680	.00069	.24167	1.004	.03224
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193010-D-5-B@5 Acquired: 12/15/2021 15:22:27 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.01407**	**.00272**	**1.004**
Stddev	.00029	.00029	.00053	.001
%RSD	71.892	2.0729	19.547	.0546
#1	-.00020	.01386	.00235	1.005
#2	-.00062	.01428	.00310	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2920.2**	**2910.1**	**25023.**	**3010.7**
Stddev	2.0	8.4	128.	9.3
%RSD	.06989	.28986	.51102	.30844
#1	2921.7	2916.1	25113.	3017.3
#2	2918.8	2904.1	24932.	3004.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.231%	95.131%	93.434%	102.00%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 15:26:18 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0024**	**50.231**	**.97483**	**1.0397**	**.98889**
Stddev	.0010	.398	.00315	.0010	.00601
%RSD	.09451	.79276	.32358	.09199	.60736
#1	1.0018	49.949	.97706	1.0390	.98464
#2	1.0031	50.512	.97260	1.0403	.99314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99046**	**49.986**	**.97764**	**1.039**	**.99719**
Stddev	.00691	.337	.00064	.002	.00052
%RSD	.69777	.67495	.06517	.2296	.05205
#1	.98557	49.748	.97719	1.040	.99756
#2	.99534	50.225	.97809	1.037	.99683
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0037**	**.99864**	**49.812**	**49.099**	**.97646**
Stddev	.0034	.00243	.005	.287	.00793
%RSD	.34187	.24365	.00938	.58387	.81179
#1	1.0013	1.0004	49.809	48.896	.97085
#2	1.0062	.99692	49.815	49.302	.98206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 15:26:18 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.780**	**.98240**	**1.0101**	**48.482**	**.96685**
Stddev	.033	.00097	.0010	.321	.00074
%RSD	.06898	.09825	.09873	.66121	.07677
#1	47.804	.98308	1.0094	48.256	.96738
#2	47.757	.98171	1.0108	48.709	.96633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.51**	**.99581**	**25.083**	**.97714**	**.98833**
Stddev	.01	.00226	.005	.00033	.00108
%RSD	.0144	.22651	.02111	.03363	.10962
#1	37.51	.99421	25.087	.97738	.98909
#2	37.52	.99740	25.079	.97691	.98756
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.174**	**.99336**	**.96637**	**1.499**	**1.0096**
Stddev	.008	.00128	.00501	.003	.0008
%RSD	.07934	.12866	.51885	.1876	.08112
#1	10.169	.99245	.96283	1.497	1.0091
#2	10.180	.99426	.96992	1.501	1.0102
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 15:26:18 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99091**	**1.0033**	**1.0247**	**1.514**
Stddev	.00092	.0011	.0005	.000
%RSD	.09291	.10801	.04745	.0129
#1	.99156	1.0026	1.0243	1.514
#2	.99026	1.0041	1.0250	1.514
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2995.3**	**2950.0**	**25293.**	**2893.1**
Stddev	5.6	7.5	14.	32.2
%RSD	.18857	.25533	.05558	1.1140
#1	2999.3	2955.4	25303.	2915.9
#2	2991.3	2944.7	25283.	2870.3

Sample Name: CCB-6810114 Acquired: 12/15/2021 15:29:51 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.01633**	**.00112**	**.00690**	**-.00003**
Stddev	.00019	.01555	.00019	.00025	.00003
%RSD	24.729	95.272	17.202	3.6914	91.363
#1	-.00088	.02733	.00099	.00708	-.00005
#2	-.00062	.00533	.00126	.00672	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.02544**	**.00001**	**-.0578**	**-.00020**
Stddev	.00010	.00727	.00007	.0187	.00004
%RSD	109.58	28.582	647.76	32.29	19.396
#1	-.00002	.03058	-.00004	-.0710	-.00017
#2	-.00015	.02030	.00006	-.0446	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**-.00071**	**.00025**	**.08188**	**.00080**
Stddev	.00004	.00079	.00666	.01509	.00036
%RSD	8.5181	111.34	2644.6	18.435	45.195
#1	-.00045	-.00127	.00496	.07120	.00106
#2	-.00051	-.00015	-.00446	.09255	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 15:29:51 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00642**	**.00003**	**.00038**	**.09693**	**.00043**
Stddev	.00222	.00005	.00010	.00665	.00007
%RSD	34.577	149.90	26.355	6.8596	16.758
#1	.00485	-.00000	.00031	.10164	.00049
#2	.00799	.00007	.00045	.09223	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00180**	**.01497**	**-.00132**	**.00265**
Stddev	.00	.00123	.00176	.00042	.00181
%RSD	.0016	68.428	11.744	32.063	68.437
#1	25.01	.00267	.01621	-.00102	.00137
#2	25.01	.00093	.01372	-.00161	.00393
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00790**	**.00011**	**.00004**	**1.009**	**.00001**
Stddev	.00202	.00010	.00036	.002	.00020
%RSD	25.543	89.227	844.34	.1557	1644.3
#1	.00933	.00018	.00030	1.008	.00015
#2	.00647	.00004	-.00021	1.010	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 15:29:51 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00055**	**-.00029**	**.00030**	**.9992**
Stddev	.00097	.00013	.00032	.0001
%RSD	177.18	47.023	106.68	.0058
#1	.00124	-.00038	.00007	.9991
#2	-.00014	-.00019	.00052	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3412.9**	**3012.8**	**26490.**	**2902.8**
Stddev	1.7	1.1	67.	22.2
%RSD	.04998	.03746	.25434	.76545
#1	3414.1	3013.6	26442.	2918.5
#2	3411.7	3012.0	26537.	2887.0

Sample Name: CCVL-6811103 Acquired: 12/15/2021 15:33:39 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00572**	**.22617**	**.01594**	**.02439**	**.00209**
Stddev	.00087	.00189	.00155	.00042	.00002
%RSD	15.223	.83647	9.7276	1.7229	.90563
#1	.00510	.22751	.01484	.02469	.00210
#2	.00634	.22483	.01704	.02410	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.56856**	**.00206**	**-.0620**	**.00366**
Stddev	.00003	.01202	.00004	.0267	.00007
%RSD	1.3803	2.1138	2.0545	43.06	1.9812
#1	.00205	.57706	.00209	-.0431	.00361
#2	.00209	.56006	.00203	-.0809	.00372
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**.01019**	**.05297**	**.53089**	**.02841**
Stddev	.00025	.00011	.00294	.00268	.00297
%RSD	6.5940	1.0862	5.5445	.50543	10.460
#1	.00401	.01027	.05504	.52899	.02631
#2	.00365	.01011	.05089	.53278	.03051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 15:33:39 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19230**	**.00312**	**.00931**	**1.0727**	**.00962**
Stddev	.00326	.00004	.00002	.0255	.00008
%RSD	1.6975	1.1964	.26630	2.3777	.83601
#1	.18999	.00314	.00932	1.0907	.00956
#2	.19461	.00309	.00929	1.0546	.00968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01079**	**.20791**	**.01566**	**.02110**
Stddev	.00	.00086	.00018	.00314	.00065
%RSD	.0005	7.9313	.08537	20.076	3.0975
#1	25.00	.01018	.20803	.01789	.02156
#2	25.00	.01139	.20778	.01344	.02063
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47098**	**.00902**	**.00505**	F **1.003**	**.00466**
Stddev	.00043	.00055	.00003	.002	.00085
%RSD	.09134	6.1128	.57105	.1628	18.155
#1	.47067	.00941	.00507	1.002	.00407
#2	.47128	.00863	.00503	1.004	.00526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 15:33:39 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01915**	**.00451**	**.01017**	F **.9994**
Stddev	.00013	.00030	.00007	.0009
%RSD	.68966	6.6568	.65124	.0928
#1	.01925	.00430	.01021	.9987
#2	.01906	.00473	.01012	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3478.7**	**3084.0**	**27160.**	**3010.7**
Stddev	10.1	9.2	10.	2.6
%RSD	.28976	.29749	.03622	.08615
#1	3471.5	3077.5	27153.	3008.9
#2	3485.8	3090.5	27167.	3012.6

Sample Name: 480-193238-D-1-A@5 Acquired: 12/15/2021 15:37:26 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**.11148**	**.02923**	**1.7726**	**.05099**
Stddev	.00023	.00972	.00311	.0002	.00010
%RSD	26.070	8.7154	10.656	.00984	.20175
#1	-.00071	.10461	.02702	1.7725	.05106
#2	-.00103	.11835	.03143	1.7727	.05091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**22.748**	**.00007**	**-.0446**	**.00897**
Stddev	.00019	.145	.00010	.0084	.00010
%RSD	500.24	.63884	140.81	18.72	1.1360
#1	.00017	22.645	.00000	-.0387	.00890
#2	-.00010	22.851	.00014	-.0505	.00905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05705**	**.00099**	**.45380**	**115.94**	**.04584**
Stddev	.00017	.00065	.00287	.61	.00045
%RSD	.29178	65.278	.63346	.52661	.97533
#1	.05717	.00054	.45177	115.51	.04552
#2	.05694	.00145	.45583	116.37	.04615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193238-D-1-A@5 Acquired: 12/15/2021 15:37:26 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.438**	**.03348**	**.00191**	**402.65**	**.04126**
Stddev	.020	.00011	.00002	2.44	.00007
%RSD	.07898	.31658	1.1124	.60642	.15766
#1	25.453	.03356	.00190	400.93	.04121
#2	25.424	.03341	.00193	404.38	.04131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.29**	**.00252**	**24.499**	**.00225**	**.00366**
Stddev	.00	.00015	.006	.00057	.00040
%RSD	.0014	6.1388	.02269	25.566	10.914
#1	26.29	.00263	24.503	.00265	.00394
#2	26.29	.00241	24.495	.00184	.00338
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2473**	**.01073**	**.21738**	**.9980**	**.04739**
Stddev	.0526	.00013	.00092	.0095	.00051
%RSD	1.6193	1.2444	.42365	.9563	1.0789
#1	3.2101	.01063	.21673	1.005	.04703
#2	3.2844	.01082	.21803	.9913	.04775
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193238-D-1-A@5 Acquired: 12/15/2021 15:37:26 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00890**	**.01046**	**1.006**
Stddev	.00137	.00023	.00048	.002
%RSD	508.31	2.5900	4.6058	.1705
#1	-.00124	.00906	.01080	1.007
#2	.00070	.00874	.01012	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2894.0**	**2889.1**	**24860.**	**3032.4**
Stddev	2.1	.1	1.	27.9
%RSD	.07223	.00494	.00507	.92034
#1	2895.5	2889.3	24861.	3052.1
#2	2892.5	2889.0	24859.	3012.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.476%	94.447%	92.827%	102.73%
Range				

Sample Name: 480-193138-C-1-B@2 Acquired: 12/15/2021 15:41:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**3.8663**	**.26355**	**1.9826**	**.25015**
Stddev	.00073	.0268	.00002	.0004	.00072
%RSD	302.46	.69256	.00896	.02130	.28819
#1	-.00075	3.8852	.26356	1.9829	.24964
#2	.00027	3.8473	.26353	1.9823	.25066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**35.323**	**.00069**	**-.0416**	**.01229**
Stddev	.00000	.102	.00017	.0419	.00005
%RSD	62.371	.28972	24.738	100.9	.40506
#1	.00000	35.396	.00081	-.0712	.01226
#2	.00001	35.251	.00057	-.0119	.01233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04995**	**.02491**	**5.4062**	**170.36**	**.13003**
Stddev	.00008	.00191	.0297	.27	.00184
%RSD	.16720	7.6761	.54960	.15697	1.4178
#1	.05000	.02355	5.3852	170.55	.13133
#2	.04989	.02626	5.4272	170.17	.12872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193138-C-1-B@2 Acquired: 12/15/2021 15:41:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**61.102**	**.05054**	**.00372**	**676.95**	**.10727**
Stddev	.061	.00012	.00011	2.01	.00008
%RSD	.09961	.24158	3.0752	.29740	.07756
#1	61.059	.05045	.00364	678.38	.10721
#2	61.145	.05062	.00380	675.53	.10733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.91**	**.00979**	**24.143**	**.04091**	**-.00121**
Stddev	.00	.00091	.011	.00074	.00057
%RSD	.0140	9.2605	.04413	1.8041	47.306
#1	25.91	.00915	24.150	.04039	-.00080
#2	25.91	.01043	24.135	.04143	-.00161
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4979**	**.02682**	**.28214**	**1.011**	**.02349**
Stddev	.0199	.00010	.00030	.001	.00017
%RSD	.26480	.38259	.10588	.1099	.72372
#1	7.5120	.02690	.28193	1.011	.02361
#2	7.4839	.02675	.28235	1.010	.02337
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193138-C-1-B@2 Acquired: 12/15/2021 15:41:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00065**	**.00368**	**.09125**	**1.005**
Stddev	.00097	.00016	.00036	.000
%RSD	149.58	4.4747	.39753	.0384
#1	.00134	.00356	.09150	1.004
#2	-.00004	.00380	.09099	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2781.1**	**2847.9**	**24380.**	**3047.8**
Stddev	2.6	4.5	13.	25.5
%RSD	.09263	.15917	.05220	.83568
#1	2779.3	2844.7	24371.	3029.8
#2	2783.0	2851.2	24389.	3065.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.219%	93.100%	91.035%	103.25%
Range				

Sample Name: 193126-15 SOL Acquired: 12/15/2021 15:45:00 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.00330**	**.00280**	**.02835**	**.08293**
Stddev	.00043	.01691	.00271	.00067	.00026
%RSD	80.887	512.18	96.854	2.3523	.31378
#1	-.00083	.01526	.00088	.02882	.08275
#2	-.00023	-.00865	.00472	.02788	.08312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**117.51**	**.00025**	**.0154**	**-.00021**
Stddev	.00011	.25	.00008	.0097	.00003
%RSD	139.53	.21165	33.408	63.16	12.390
#1	-.00015	117.34	.00031	.0085	-.00020
#2	-.00000	117.69	.00019	.0223	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00005**	**.00594**	**1.0703**	**.00769**
Stddev	.00011	.00048	.00149	.0276	.00147
%RSD	84.814	1019.0	25.017	2.5765	19.104
#1	.00022	-.00029	.00699	1.0508	.00872
#2	.00005	.00039	.00489	1.0898	.00665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 193126-15 SOL Acquired: 12/15/2021 15:45:00 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.452**	**.00309**	**-.00135**	**127.53**	**.00065**
Stddev	.144	.00000	.00014	1.00	.00059
%RSD	.30326	.07641	10.213	.78588	90.977
#1	47.351	.00308	-.00145	126.82	.00023
#2	47.554	.00309	-.00126	128.24	.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00233**	**12.391**	**-.00270**	**.00316**
Stddev	.00	.00005	.040	.00010	.00154
%RSD	.0046	2.3272	.32314	3.8025	48.667
#1	25.01	.00229	12.362	-.00263	.00424
#2	25.01	.00237	12.419	-.00277	.00207
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4615**	**-.00080**	**.52565**	**.9990**	**.00089**
Stddev	.0373	.00017	.00108	.0090	.00029
%RSD	.57696	21.731	.20599	.9039	32.334
#1	6.4879	-.00092	.52488	.9926	.00109
#2	6.4352	-.00067	.52642	1.005	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 193126-15 SOL Acquired: 12/15/2021 15:45:00 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00057**	**.00081**	**.9992**
Stddev	.00021	.00016	.00013	.0028
%RSD	202.70	28.050	16.490	.2844
#1	-.00025	-.00046	.00091	.9972
#2	.00005	-.00069	.00072	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3066.7**	**2966.8**	**25772.**	**3003.2**
Stddev	12.4	6.7	15.	13.9
%RSD	.40328	.22543	.05678	.46117
#1	3075.4	2971.5	25762.	3013.0
#2	3057.9	2962.0	25783.	2993.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.456%	96.984%	96.234%	101.74%
Range				

Sample Name: 192989-6 SOL Acquired: 12/15/2021 15:48:45 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.02135**	**.00239**	**.46815**	**.04699**
Stddev	.00021	.02421	.00133	.00064	.00004
%RSD	21.922	113.38	55.809	.13578	.08519
#1	-.00082	.00423	.00144	.46860	.04702
#2	-.00112	.03847	.00333	.46771	.04696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**75.020**	**.00028**	**-.0698**	**.00004**
Stddev	.00003	.429	.00018	.0238	.00003
%RSD	72.692	.57228	64.753	34.13	80.279
#1	-.00002	75.323	.00015	-.0866	.00006
#2	-.00006	74.716	.00041	-.0530	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00091**	**.02155**	**2.8438**	**.00940**
Stddev	.00012	.00065	.00014	.0071	.00383
%RSD	858.94	71.549	.67160	.25020	40.749
#1	-.00010	.00137	.02165	2.8489	.01211
#2	.00007	.00045	.02145	2.8388	.00669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 192989-6 SOL Acquired: 12/15/2021 15:48:45 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.618**	**.03968**	**.01186**	**48.688**	**.00216**
Stddev	.154	.00012	.00126	.221	.00002
%RSD	.36972	.31269	10.643	.45478	1.0258
#1	41.727	.03977	.01275	48.845	.00215
#2	41.509	.03960	.01097	48.532	.00218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.25**	**.00239**	**84.064**	**-.00175**	**-.00084**
Stddev	.00	.00061	.059	.00006	.00176
%RSD	.0069	25.560	.07009	3.4597	208.20
#1	25.25	.00282	84.022	-.00179	-.00209
#2	25.24	.00195	84.106	-.00170	.00040
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.7029**	**-.00028**	**1.8672**	**.9948**	**.00083**
Stddev	.0158	.00065	.0080	.0056	.00037
%RSD	.23537	234.11	.43107	.5602	43.823
#1	6.7141	.00018	1.8729	.9909	.00109
#2	6.6918	-.00074	1.8615	.9987	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 192989-6 SOL Acquired: 12/15/2021 15:48:45 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00081**	**-.00027**	**.00047**	**.9982**
Stddev	.00162	.00007	.00033	.0016
%RSD	199.84	26.346	70.119	.1597
#1	.00195	-.00022	.00024	.9971
#2	-.00033	-.00032	.00070	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3224.9**	**3031.5**	**26426.**	**3097.9**
Stddev	5.7	5.7	18.	23.7
%RSD	.17814	.18936	.06671	.76510
#1	3228.9	3035.5	26438.	3081.1
#2	3220.8	3027.4	26413.	3114.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.018%	99.099%	98.674%	104.95%
Range				

Sample Name: 192989-7 SOL Acquired: 12/15/2021 15:52:28 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.12905**	**.00543**	**.67444**	**.08452**
Stddev	.00009	.01506	.00276	.00072	.00005
%RSD	13.993	11.673	50.781	.10723	.06088
#1	-.00072	.11840	.00738	.67495	.08448
#2	-.00059	.13970	.00348	.67393	.08455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**35.271**	**.00006**	**-.0684**	**.00008**
Stddev	.00009	.091	.00007	.0552	.00001
%RSD	236.17	.25906	124.42	80.81	7.5004
#1	-.00010	35.336	.00011	-.1074	.00008
#2	.00003	35.207	.00001	-.0293	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00080**	**.07849**	**1.6385**	**.00851**
Stddev	.00013	.00047	.00219	.0664	.00096
%RSD	124.10	58.722	2.7947	4.0518	11.293
#1	.00020	-.00047	.07694	1.5916	.00783
#2	.00001	-.00113	.08004	1.6855	.00919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 192989-7 SOL Acquired: 12/15/2021 15:52:28 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.077**	**.01759**	**.11913**	**89.379**	**.00097**
Stddev	.033	.00006	.00543	.014	.00026
%RSD	.23254	.33297	4.5620	.01556	26.418
#1	14.054	.01763	.12297	89.369	.00115
#2	14.100	.01755	.11529	89.389	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00381**	**84.961**	**-.00236**	**.00214**
Stddev	.00	.00131	.087	.00092	.00122
%RSD	.0000	34.371	.10264	39.044	57.129
#1	25.02	.00474	85.023	-.00171	.00301
#2	25.02	.00288	84.899	-.00301	.00128
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2375**	**-.00033**	**1.0137**	**.9951**	**.00307**
Stddev	.0017	.00021	.0035	.0058	.00004
%RSD	.03267	63.594	.34308	.5797	1.3644
#1	5.2387	-.00018	1.0162	.9911	.00304
#2	5.2363	-.00048	1.0112	.9992	.00310
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 192989-7 SOL Acquired: 12/15/2021 15:52:28 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00004**	**.01025**	**1.000**
Stddev	.00100	.00047	.00040	.001
%RSD	142.68	1094.5	3.8933	.1414
#1	.00141	-.00029	.01053	.9992
#2	-.00001	.00038	.00996	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3273.0**	**3077.1**	**26748.**	**3133.9**
Stddev	8.3	.4	69.	5.0
%RSD	.25248	.01355	.25676	.15970
#1	3278.8	3077.4	26797.	3137.4
#2	3267.1	3076.8	26700.	3130.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.406%	100.59%	99.878%	106.17%
Range				

Sample Name: MB 480-608830/1-A Acquired: 12/15/2021 15:56:10 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.01730**	**.00123**	**.00293**	**.00019**
Stddev	.00080	.00498	.00009	.00065	.00001
%RSD	157.56	28.814	7.6656	22.150	3.7697
#1	-.00107	.01377	.00129	.00339	.00019
#2	.00006	.02082	.00116	.00247	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.06157**	**.00023**	**-.0838**	**-.00004**
Stddev	.00007	.00388	.00023	.0556	.00017
%RSD	41.654	6.3005	102.07	66.31	432.79
#1	.00023	.06431	.00039	-.1231	.00008
#2	.00013	.05883	.00006	-.0445	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.00001**	**.00472**	**.09630**	**.00312**
Stddev	.00051	.00044	.00331	.02623	.00158
%RSD	153.34	3459.2	70.174	27.236	50.794
#1	.00003	.00030	.00706	.07775	.00200
#2	-.00070	-.00033	.00238	.11485	.00424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608830/1-A Acquired: 12/15/2021 15:56:10 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01096**	**.00018**	**.00424**	**.12168**	**.00047**
Stddev	.00517	.00005	.00049	.00647	.00014
%RSD	47.204	29.350	11.574	5.3193	30.019
#1	.01461	.00021	.00390	.11710	.00057
#2	.00730	.00014	.00459	.12626	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00150**	**.04643**	**-.00227**	**-.00040**
Stddev	.00	.00010	.00290	.00306	.00012
%RSD	.0027	6.8005	6.2391	134.94	30.943
#1	25.01	.00143	.04848	-.00010	-.00048
#2	25.01	.00157	.04438	-.00443	-.00031
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00077**	**.00042**	**.9997**	**-.00002**
Stddev	.01117	.00037	.00000	.0179	.00038
%RSD	13387.	48.655	.77049	1.786	1818.9
#1	.00782	.00103	.00042	1.012	.00025
#2	-.00798	.00050	.00043	.9871	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608830/1-A Acquired: 12/15/2021 15:56:10 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00010**	**.00092**	**.9987**
Stddev	.00119	.00028	.00040	.0003
%RSD	359.54	272.19	43.456	.0315
#1	.00051	.00030	.00120	.9985
#2	-.00117	-.00009	.00064	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3510.8**	**3107.7**	**27630.**	**3080.5**
Stddev	3.3	.8	80.	3.7
%RSD	.09356	.02679	.28803	.12171
#1	3513.1	3107.1	27686.	3083.1
#2	3508.5	3108.3	27574.	3077.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.27%	101.59%	103.17%	104.36%
Range				

Sample Name: LCS 480-608830/2-A Acquired: 12/15/2021 15:59:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05063**	**9.9608**	**.20195**	**.20675**	**.20828**
Stddev	.00006	.0053	.00139	.00044	.00016
%RSD	.12347	.05316	.68842	.21452	.07733
#1	.05058	9.9571	.20293	.20706	.20817
#2	.05067	9.9646	.20096	.20643	.20840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20300**	**9.8803**	**.19461**	**.0218**	**.19579**
Stddev	.00048	.0332	.00008	.0027	.00025
%RSD	.23790	.33610	.04258	12.48	.12898
#1	.20266	9.8569	.19456	.0199	.19597
#2	.20334	9.9038	.19467	.0238	.19562
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19513**	**.20284**	**10.140**	**9.7344**	**.19331**
Stddev	.00075	.00047	.027	.0692	.00154
%RSD	.38308	.23085	.26684	.71033	.79718
#1	.19566	.20317	10.121	9.6855	.19222
#2	.19460	.20251	10.159	9.7833	.19440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608830/2-A Acquired: 12/15/2021 15:59:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5943**	**.19837**	**.20610**	**9.4596**	**.18609**
Stddev	.0012	.00029	.00018	.0320	.00059
%RSD	.01236	.14644	.08777	.33800	.31967
#1	9.5951	.19816	.20598	9.4370	.18651
#2	9.5935	.19857	.20623	9.4823	.18567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.20098**	**9.8797**	**.20463**	**.19556**
Stddev	.00	.00095	.0151	.00000	.00188
%RSD	.0006	.47038	.15268	.00241	.96280
#1	24.84	.20165	9.8904	.20462	.19689
#2	24.84	.20031	9.8691	.20463	.19422
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4186**	**.18981**	**.19160**	**.9974**	**.20348**
Stddev	.0446	.00040	.00006	.0004	.00081
%RSD	.47392	.20842	.03115	.0402	.40008
#1	9.3870	.18953	.19156	.9977	.20290
#2	9.4502	.19009	.19165	.9971	.20405
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608830/2-A Acquired: 12/15/2021 15:59:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19974**	**.19742**	**.20066**	**1.004**
Stddev	.00210	.00011	.00025	.000
%RSD	1.0526	.05798	.12678	.0416
#1	.20123	.19750	.20048	1.004
#2	.19826	.19734	.20084	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3319.8**	**3069.1**	**27139.**	**3095.1**
Stddev	4.2	4.4	42.	13.1
%RSD	.12665	.14476	.15292	.42223
#1	3316.8	3066.0	27169.	3104.3
#2	3322.8	3072.3	27110.	3085.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.756%	100.33%	101.34%	104.85%
Range				

Sample Name: LCSD 480-608830/3-A Acquired: 12/15/2021 16:03:31 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05116**	**10.300**	**.20468**	**.21120**	**.21398**
Stddev	.00025	.021	.00204	.00035	.00009
%RSD	.48886	.19939	.99741	.16781	.04218
#1	.05133	10.315	.20324	.21095	.21392
#2	.05098	10.286	.20613	.21145	.21405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20894**	**10.140**	**.19962**	**-.0858**	**.20069**
Stddev	.00008	.022	.00005	.0384	.00012
%RSD	.04000	.21851	.02519	44.75	.05801
#1	.20900	10.155	.19965	-.0586	.20077
#2	.20888	10.124	.19958	-.1130	.20061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20047**	**.20885**	**10.417**	**9.9800**	**.19691**
Stddev	.00024	.00039	.003	.0214	.00219
%RSD	.11972	.18768	.03018	.21466	1.1097
#1	.20030	.20858	10.419	9.9952	.19846
#2	.20064	.20913	10.415	9.9649	.19537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-608830/3-A Acquired: 12/15/2021 16:03:31 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8976**	**.20410**	**.21196**	**9.6784**	**.19020**
Stddev	.0333	.00044	.00059	.0078	.00048
%RSD	.33618	.21654	.28036	.08019	.25367
#1	9.8741	.20379	.21238	9.6839	.19054
#2	9.9212	.20442	.21154	9.6729	.18986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.20609**	**10.103**	**.21101**	**.19939**
Stddev	.00	.00073	.015	.00344	.00733
%RSD	.0017	.35381	.14835	1.6326	3.6776
#1	24.84	.20558	10.113	.20857	.20457
#2	24.84	.20661	10.092	.21344	.19420
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6417**	**.19301**	**.19632**	**1.012**	**.20937**
Stddev	.0219	.00105	.00055	.003	.00051
%RSD	.22668	.54395	.28207	.3185	.24160
#1	9.6572	.19375	.19593	1.015	.20901
#2	9.6263	.19226	.19671	1.010	.20972
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-608830/3-A Acquired: 12/15/2021 16:03:31 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20460**	**.20331**	**.20835**	**1.002**
Stddev	.00193	.00018	.00029	.000
%RSD	.94146	.08690	.14155	.0142
#1	.20324	.20318	.20856	1.002
#2	.20597	.20343	.20814	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3326.7**	**3068.9**	**26947.**	**3064.3**
Stddev	2.0	4.0	118.	18.6
%RSD	.06001	.12887	.43617	.60789
#1	3328.2	3071.7	27030.	3051.1
#2	3325.3	3066.1	26864.	3077.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.957%	100.32%	100.62%	103.81%
Range				

Sample Name: 480-193265-E-1-D Acquired: 12/15/2021 16:07:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.09586**	**.00178**	**.15601**	**.05650**
Stddev	.00098	.01943	.00009	.00022	.00001
%RSD	132.82	20.267	5.0262	.13918	.00972
#1	-.00143	.10960	.00184	.15616	.05649
#2	-.00004	.08213	.00171	.15585	.05650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**121.92**	**.00052**	**-.0711**	**.00012**
Stddev	.00001	.08	.00022	.0263	.00007
%RSD	43.326	.06806	42.825	37.01	58.395
#1	.00004	121.86	.00036	-.0897	.00007
#2	.00002	121.98	.00068	-.0525	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02242**	**.00445**	**.25133**	**2.0852**	**.00879**
Stddev	.00021	.00122	.00158	.0035	.00019
%RSD	.95690	27.352	.63052	.16607	2.1735
#1	.02257	.00531	.25245	2.0827	.00865
#2	.02227	.00359	.25021	2.0876	.00893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-1-D Acquired: 12/15/2021 16:07:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.416**	**.09936**	**.24236**	**58.003**	**.00217**
Stddev	.015	.00005	.00043	.103	.00005
%RSD	.05524	.05229	.17608	.17684	2.0787
#1	27.405	.09932	.24266	57.931	.00214
#2	27.427	.09940	.24206	58.076	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00250**	**45.901**	**-.00092**	**.00111**
Stddev	.00	.00065	.018	.00075	.00366
%RSD	.0005	26.068	.03823	81.371	328.40
#1	25.02	.00204	45.913	-.00144	-.00147
#2	25.02	.00296	45.888	-.00039	.00370
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9971**	**.00078**	**.36916**	**1.004**	**.00144**
Stddev	.0197	.00018	.00068	.010	.00016
%RSD	.32775	22.968	.18402	1.023	10.922
#1	5.9832	.00090	.36868	1.011	.00133
#2	6.0110	.00065	.36964	.9963	.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-1-D Acquired: 12/15/2021 16:07:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00051**	**.00085**	**.03019**	**.9990**
Stddev	.00044	.00030	.00030	.0006
%RSD	86.131	35.656	.97791	.0560
#1	.00082	.00107	.03040	.9994
#2	.00020	.00064	.02998	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3102.5**	**2940.2**	**25914.**	**3056.8**
Stddev	3.4	1.9	10.	11.1
%RSD	.11006	.06331	.04023	.36271
#1	3100.1	2941.5	25921.	3064.6
#2	3104.9	2938.9	25906.	3048.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.489%	96.117%	96.762%	103.56%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 16:10:51 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0214**	**50.171**	**.96188**	**1.0380**	**.96834**
Stddev	.0021	.018	.00173	.0006	.00206
%RSD	.20642	.03492	.17965	.06237	.21313
#1	1.0199	50.183	.96310	1.0385	.96688
#2	1.0229	50.159	.96065	1.0376	.96980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96971**	**49.910**	**.96687**	**1.059**	**1.0117**
Stddev	.00140	.085	.00177	.031	.0005
%RSD	.14437	.17117	.18311	2.897	.05160
#1	.96872	49.850	.96562	1.037	1.0113
#2	.97070	49.970	.96812	1.081	1.0121
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98713**	**1.0149**	**49.881**	**49.038**	**.97347**
Stddev	.00317	.0003	.225	.066	.00025
%RSD	.32105	.02621	.45036	.13437	.02518
#1	.98938	1.0147	49.722	48.991	.97330
#2	.98489	1.0151	50.040	49.084	.97364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 16:10:51 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.671**	**.96863**	**1.0143**	**47.704**	**.95757**
Stddev	.030	.00141	.0006	.099	.00071
%RSD	.06490	.14535	.05702	.20684	.07463
#1	46.650	.96962	1.0147	47.634	.95706
#2	46.693	.96763	1.0139	47.774	.95807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.62**	**1.0041**	**25.398**	**.96160**	**.99074**
Stddev	.01	.0018	.019	.00016	.00535
%RSD	.0358	.18361	.07624	.01651	.53952
#1	37.63	1.0028	25.411	.96172	.99452
#2	37.61	1.0054	25.384	.96149	.98696
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9380**	**.99946**	**.95369**	**1.501**	**1.0123**
Stddev	.0334	.00085	.00219	.008	.0000
%RSD	.33572	.08554	.22962	.5480	.00392
#1	9.9144	.99886	.95214	1.495	1.0122
#2	9.9616	1.0001	.95524	1.506	1.0123
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 16:10:51 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98522**	**.99473**	**1.0077**	**1.500**
Stddev	.00081	.00383	.0000	.003
%RSD	.08177	.38500	.00430	.1748
#1	.98465	.99744	1.0076	1.498
#2	.98579	.99202	1.0077	1.502
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3015.9**	**2980.6**	**25788.**	**2977.3**
Stddev	1.2	1.2	203.	9.9
%RSD	.03996	.03946	.78598	.33144
#1	3016.7	2981.4	25644.	2984.3
#2	3015.0	2979.7	25931.	2970.3

Sample Name: CCB-6810114 Acquired: 12/15/2021 16:14:23 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.01027**	**.00157**	**.00145**	**.00002**
Stddev	.00106	.03575	.00052	.00023	.00001
%RSD	241.87	348.09	32.996	15.674	27.492
#1	-.00119	-.01501	.00120	.00161	.00002
#2	.00031	.03555	.00194	.00129	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00035**	**.00011**	**-.0252**	**-.00027**
Stddev	.00000	.00262	.00009	.0375	.00006
%RSD	75.028	750.97	83.301	148.8	23.052
#1	.00000	-.00150	.00017	-.0517	-.00023
#2	.00000	.00220	.00004	.0013	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00050**	**.00007**	**.06837**	**.00240**
Stddev	.00025	.00050	.00266	.04911	.00138
%RSD	91.015	100.79	3645.5	71.824	57.400
#1	-.00010	.00085	-.00181	.10310	.00338
#2	-.00045	.00014	.00195	.03365	.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 16:14:23 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00358**	**-.00013**	**.00091**	**.04288**	**.00012**
Stddev	.00028	.00005	.00029	.01006	.00027
%RSD	7.8020	37.823	31.885	23.460	216.00
#1	.00378	-.00010	.00071	.03577	.00031
#2	.00338	-.00016	.00112	.04999	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00109**	**.01526**	**-.00074**	**.00228**
Stddev	.00	.00072	.00035	.00305	.00096
%RSD	.0038	65.405	2.2730	410.79	42.160
#1	25.01	.00160	.01550	-.00289	.00296
#2	25.01	.00059	.01501	.00141	.00160
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00889**	**.00011**	**-.00002**	**.9988**	**.00004**
Stddev	.01493	.00032	.00002	.0082	.00095
%RSD	167.86	301.66	69.325	.8169	2603.2
#1	-.01945	.00033	-.00003	.9931	.00071
#2	.00166	-.00012	-.00001	1.005	-.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 16:14:23 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00048**	**-.00026**	**.00005**	**1.000**
Stddev	.00032	.00032	.00020	.000
%RSD	67.007	122.86	436.85	.0029
#1	.00025	-.00048	.00019	1.000
#2	.00071	-.00003	-.00010	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3480.0**	**3070.2**	**27292.**	**3042.8**
Stddev	4.2	.6	39.	14.4
%RSD	.12153	.01928	.14189	.47185
#1	3477.1	3069.8	27265.	3052.9
#2	3483.0	3070.6	27319.	3032.6

Sample Name: CCVL-6811103 Acquired: 12/15/2021 16:18:13 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00519**	**.21078**	**.01471**	**.02028**	**.00203**
Stddev	.00113	.00525	.00239	.00030	.00003
%RSD	21.833	2.4895	16.267	1.4859	1.6406
#1	.00600	.20707	.01301	.02049	.00201
#2	.00439	.21449	.01640	.02006	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00195**	**.50381**	**.00189**	**-.0301**	**.00369**
Stddev	.00006	.00212	.00015	.0271	.00017
%RSD	3.1268	.42040	7.9249	89.78	4.5537
#1	.00200	.50232	.00179	-.0110	.00381
#2	.00191	.50531	.00200	-.0493	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00359**	**.01051**	**.04939**	**.49916**	**.03039**
Stddev	.00003	.00036	.00014	.00722	.00113
%RSD	.85261	3.4610	.28127	1.4472	3.7203
#1	.00361	.01077	.04929	.49405	.02959
#2	.00357	.01026	.04949	.50426	.03119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 16:18:13 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18446**	**.00277**	**.00969**	**.98590**	**.00925**
Stddev	.00138	.00004	.00007	.00005	.00033
%RSD	.74896	1.4935	.75064	.00463	3.5994
#1	.18543	.00280	.00964	.98593	.00948
#2	.18348	.00275	.00974	.98586	.00901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01116**	**.20055**	**.01913**	**.02292**
Stddev	.00	.00140	.00103	.00165	.00055
%RSD	.0057	12.548	.51380	8.6379	2.4150
#1	25.00	.01215	.20128	.01796	.02331
#2	25.00	.01017	.19982	.02030	.02252
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45296**	**.00945**	**.00490**	F **1.001**	**.00468**
Stddev	.00639	.00036	.00011	.011	.00051
%RSD	1.4111	3.8491	2.1909	1.079	10.830
#1	.44844	.00971	.00498	.9934	.00432
#2	.45748	.00919	.00483	1.009	.00504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 16:18:13 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02030**	**.00491**	**.00943**	F **1.001**
Stddev	.00035	.00014	.00029	.000
%RSD	1.7284	2.7841	3.0902	.0197
#1	.02005	.00500	.00922	1.000
#2	.02054	.00481	.00964	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3475.0**	**3082.2**	**27458.**	**3043.3**
Stddev	3.5	3.6	33.	17.8
%RSD	.10208	.11707	.12195	.58489
#1	3472.5	3079.6	27434.	3055.9
#2	3477.5	3084.7	27482.	3030.7

Sample Name: 480-193265-E-2-B Acquired: 12/15/2021 16:22:00 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.07109**	**.00183**	**.19704**	**.10081**
Stddev	.00098	.02254	.00031	.00051	.00044
%RSD	374.34	31.707	16.842	.25800	.43179
#1	-.00096	.08703	.00161	.19740	.10050
#2	.00043	.05515	.00205	.19668	.10111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**248.75**	**.00017**	**-.1153**	**-.00013**
Stddev	.00008	2.72	.00023	.0251	.00014
%RSD	79.060	1.0926	132.50	21.78	101.96
#1	.00016	246.83	.00001	-.0975	-.00004
#2	.00005	250.67	.00033	-.1330	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00221**	**.00219**	**.60887**	**2.5154**	**.00927**
Stddev	.00008	.00039	.00364	.0435	.00032
%RSD	3.6260	17.739	.59714	1.7294	3.4655
#1	.00215	.00192	.60630	2.4847	.00904
#2	.00227	.00247	.61144	2.5462	.00950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-2-B Acquired: 12/15/2021 16:22:00 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.790**	**.46991**	**.00453**	**583.28**	**.00032**
Stddev	.014	.00073	.00021	.65	.00002
%RSD	.03249	.15430	4.6119	.11198	6.7562
#1	42.780	.46940	.00438	582.82	.00030
#2	42.800	.47042	.00467	583.74	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.29**	**.00299**	**86.119**	**-.00342**	**-.00078**
Stddev	.00	.00073	.039	.00099	.00036
%RSD	.0037	24.478	.04509	29.029	46.529
#1	25.29	.00248	86.146	-.00272	-.00104
#2	25.29	.00351	86.091	-.00412	-.00052
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6872**	**.00054**	**1.2778**	**1.008**	**.00280**
Stddev	.0175	.00038	.0022	.001	.00022
%RSD	.26089	69.536	.16906	.0928	7.9359
#1	6.6749	.00081	1.2763	1.007	.00265
#2	6.6995	.00028	1.2794	1.009	.00296
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-2-B Acquired: 12/15/2021 16:22:00 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00096**	**.00183**	**.00489**	**.9987**
Stddev	.00142	.00018	.00013	.0005
%RSD	147.07	9.5668	2.6081	.0519
#1	-.00196	.00196	.00498	.9984
#2	.00004	.00171	.00480	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2756.9**	**2798.5**	**24311.**	**2963.8**
Stddev	.1	5.4	8.	22.5
%RSD	.00522	.19136	.03422	.75989
#1	2756.8	2794.7	24305.	2979.7
#2	2757.0	2802.3	24317.	2947.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.521%	91.483%	90.776%	100.41%
Range				

Sample Name: 480-193265-E-2-BSD@5 Acquired: 12/15/2021 16:25:54 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.02832**	**.00246**	**.03960**	**.02060**
Stddev	.00068	.01176	.00016	.00019	.00003
%RSD	135.92	41.527	6.4457	.49077	.15684
#1	-.00002	.03664	.00257	.03974	.02058
#2	-.00098	.02001	.00235	.03946	.02062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**50.685**	**.00012**	**-.0422**	**-.00016**
Stddev	.00003	.067	.00019	.0699	.00005
%RSD	113.90	.13259	164.94	165.6	31.199
#1	-.00005	50.638	-.00002	.0072	-.00020
#2	-.00001	50.733	.00025	-.0916	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00005**	**.11834**	**.50209**	**.00173**
Stddev	.00012	.00010	.00340	.04758	.00004
%RSD	519.11	218.78	2.8768	9.4770	2.4750
#1	-.00011	.00003	.11593	.46845	.00176
#2	.00006	-.00012	.12075	.53574	.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-2-BSD@5 Acquired: 12/15/2021 16:25:54 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.7395**	**.09700**	**-.00006**	**114.97**	**.00083**
Stddev	.0127	.00006	.00016	.10	.00020
%RSD	.14502	.06334	273.59	.08391	23.814
#1	8.7305	.09696	.00005	114.91	.00097
#2	8.7484	.09704	-.00017	115.04	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00042**	**16.505**	**-.00197**	**-.00288**
Stddev	.00	.00039	.005	.00008	.00084
%RSD	.0023	93.693	.03260	4.2447	29.222
#1	25.06	.00069	16.509	-.00203	-.00348
#2	25.06	.00014	16.502	-.00191	-.00229
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3361**	**.00026**	**.25595**	**.9945**	**.00020**
Stddev	.0098	.00018	.00034	.0059	.00013
%RSD	.73524	69.229	.13407	.5886	67.293
#1	1.3291	.00038	.25571	.9904	.00029
#2	1.3430	.00013	.25620	.9987	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-2-BSD@5 Acquired: 12/15/2021 16:25:54 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00026**	**.00073**	**.9991**
Stddev	.00002	.00007	.00053	.0001
%RSD	4.6500	25.509	73.036	.0141
#1	.00034	.00021	.00111	.9992
#2	.00037	.00030	.00035	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3109.1**	**2968.8**	**25950.**	**3044.2**
Stddev	8.4	7.3	79.	1.2
%RSD	.26902	.24664	.30404	.03805
#1	3103.2	2963.6	25894.	3043.3
#2	3115.0	2974.0	26006.	3045.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.679%	97.051%	96.898%	103.13%
Range				

Sample Name: 480-193265-E-2-BPDS Acquired: 12/15/2021 16:29:38 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05209**	**9.8531**	**.21362**	**.39441**	**.29252**
Stddev	.00017	.0297	.00138	.00113	.00011
%RSD	.33122	.30134	.64807	.28675	.03881
#1	.05221	9.8321	.21459	.39361	.29244
#2	.05197	9.8741	.21264	.39521	.29260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20245**	**249.44**	**.19994**	**-.0869**	**.20861**
Stddev	.00059	1.58	.00003	.0273	.00011
%RSD	.29251	.63143	.01669	31.38	.05490
#1	.20203	250.55	.19992	-.1062	.20869
#2	.20287	248.33	.19997	-.0676	.20852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19623**	**.20873**	**10.587**	**12.415**	**.19893**
Stddev	.00008	.00050	.046	.057	.00047
%RSD	.04269	.23850	.43009	.46252	.23724
#1	.19629	.20838	10.555	12.374	.19926
#2	.19617	.20909	10.620	12.456	.19859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-2-BPDS Acquired: 12/15/2021 16:29:38 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.051**	**.64826**	**.20977**	**566.49**	**.19593**
Stddev	.068	.00029	.00099	1.05	.00005
%RSD	.13254	.04498	.47336	.18537	.02408
#1	51.099	.64805	.21047	565.74	.19597
#2	51.003	.64846	.20907	567.23	.19590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.21258**	F **94.257**	**.21012**	**.20444**
Stddev	.00	.00047	.102	.00281	.00120
%RSD	.0146	.22142	.10854	1.3380	.58563
#1	25.12	.21291	94.185	.21211	.20359
#2	25.13	.21225	94.330	.20813	.20528
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.002**	**.20202**	**1.4175**	**1.004**	**.20990**
Stddev	.082	.00033	.0020	.007	.00198
%RSD	.51125	.16515	.14249	.7321	.94156
#1	15.944	.20178	1.4161	.9987	.20850
#2	16.060	.20226	1.4190	1.009	.21129
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-2-BPDS Acquired: 12/15/2021 16:29:38 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19430**	**.20419**	**.20458**	**1.004**
Stddev	.00098	.00029	.00034	.001
%RSD	.50257	.14093	.16710	.1111
#1	.19361	.20439	.20483	1.005
#2	.19499	.20398	.20434	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2731.3**	**2807.1**	**24479.**	**3015.2**
Stddev	3.4	.6	49.	8.1
%RSD	.12483	.02285	.19838	.26801
#1	2728.9	2807.5	24444.	3009.5
#2	2733.7	2806.6	24513.	3020.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.781%	91.764%	91.403%	102.15%
Range				

Sample Name: 480-193265-E-2-C MS Acquired: 12/15/2021 16:33:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05283**	**10.003**	**.21649**	**.40385**	**.29772**
Stddev	.00070	.044	.00128	.00001	.00031
%RSD	1.3177	.43878	.58932	.00158	.10387
#1	.05332	10.034	.21558	.40385	.29750
#2	.05234	9.9723	.21739	.40385	.29793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20261**	**254.86**	**.20141**	**-.0479**	**.20997**
Stddev	.00072	.80	.00007	.0343	.00036
%RSD	.35704	.31321	.03643	71.53	.17130
#1	.20210	255.43	.20136	-.0722	.21023
#2	.20312	254.30	.20146	-.0237	.20972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19642**	**.20870**	**10.616**	**12.754**	**.20538**
Stddev	.00029	.00059	.011	.009	.00281
%RSD	.14738	.28218	.10650	.06973	1.3683
#1	.19622	.20912	10.608	12.760	.20736
#2	.19662	.20829	10.624	12.748	.20339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-2-C MS Acquired: 12/15/2021 16:33:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.211**	**.66017**	**.21192**	**576.41**	**.19789**
Stddev	.074	.00053	.00024	.54	.00002
%RSD	.14225	.08072	.11518	.09380	.01205
#1	52.159	.65980	.21209	576.03	.19788
#2	52.264	.66055	.21174	576.79	.19791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.13**	**.21231**	F **96.999**	**.21306**	**.17816**
Stddev	.00	.00158	.043	.00021	.00006
%RSD	.0023	.74528	.04476	.10062	.03267
#1	25.13	.21343	97.030	.21322	.17821
#2	25.13	.21119	96.969	.21291	.17812
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.154**	**.20418**	**1.4508**	**1.008**	**.21076**
Stddev	.006	.00042	.0033	.002	.00058
%RSD	.03437	.20488	.22592	.2002	.27543
#1	16.150	.20447	1.4485	1.010	.21035
#2	16.158	.20388	1.4531	1.007	.21117
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-2-C MS Acquired: 12/15/2021 16:33:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19715**	**.20377**	**.20642**	**1.001**
Stddev	.00151	.00008	.00057	.001
%RSD	.76799	.03939	.27440	.0797
#1	.19822	.20371	.20602	1.002
#2	.19608	.20382	.20682	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2743.7**	**2826.8**	**24543.**	**3039.6**
Stddev	2.0	.5	25.	11.6
%RSD	.07324	.01605	.10091	.38280
#1	2742.3	2827.1	24561.	3047.8
#2	2745.1	2826.5	24526.	3031.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.140%	92.408%	91.643%	102.97%
Range				

Sample Name: 480-193265-E-2-D MSD Acquired: 12/15/2021 16:37:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05120**	**10.046**	**.21395**	**.39536**	**.29531**
Stddev	.00047	.001	.00270	.00173	.00099
%RSD	.91027	.00989	1.2625	.43728	.33575
#1	.05153	10.045	.21586	.39414	.29461
#2	.05088	10.047	.21204	.39658	.29601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20564**	**251.97**	**.19898**	**-.0751**	**.20609**
Stddev	.00035	1.09	.00065	.0058	.00016
%RSD	.16934	.43397	.32645	7.666	.07581
#1	.20540	251.20	.19852	-.0710	.20598
#2	.20589	252.74	.19944	-.0791	.20620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19618**	**.20486**	**10.475**	**12.617**	**.20594**
Stddev	.00011	.00069	.017	.027	.00020
%RSD	.05771	.33713	.15959	.21344	.09741
#1	.19626	.20437	10.464	12.597	.20608
#2	.19610	.20535	10.487	12.636	.20580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-2-D MSD Acquired: 12/15/2021 16:37:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.615**	**.65050**	**.20849**	**576.65**	**.19506**
Stddev	.111	.00053	.00070	.48	.00008
%RSD	.21519	.08204	.33747	.08399	.04291
#1	51.693	.65088	.20800	576.99	.19512
#2	51.536	.65012	.20899	576.30	.19500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.20904**	F **94.390**	**.21111**	**.17997**
Stddev	.00	.00277	.076	.00024	.00400
%RSD	.0053	1.3272	.08028	.11492	2.2238
#1	25.12	.20708	94.337	.21094	.17714
#2	25.12	.21100	94.444	.21128	.18280
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.086**	**.20084**	**1.4380**	**1.001**	**.20809**
Stddev	.031	.00007	.0059	.001	.00062
%RSD	.19017	.03353	.41089	.0824	.29806
#1	16.064	.20079	1.4422	1.000	.20765
#2	16.107	.20088	1.4338	1.002	.20852
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-2-D MSD Acquired: 12/15/2021 16:37:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19474**	**.20199**	**.20587**	**1.000**
Stddev	.00146	.00004	.00113	.000
%RSD	.74822	.01951	.54788	.0054
#1	.19371	.20196	.20507	1.0000
#2	.19577	.20202	.20667	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2756.0**	**2830.6**	**24356.**	**3003.4**
Stddev	3.5	2.5	49.	16.9
%RSD	.12654	.08941	.19943	.56113
#1	2758.5	2832.4	24390.	3015.3
#2	2753.6	2828.8	24321.	2991.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.495%	92.534%	90.944%	101.75%
Range				

Sample Name: 480-193265-E-3-B Acquired: 12/15/2021 16:40:55 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.05160**	**.00449**	**.20783**	**.05478**
Stddev	.00129	.03191	.00155	.00011	.00002
%RSD	357.05	61.845	34.518	.05283	.04424
#1	.00055	.02903	.00558	.20791	.05480
#2	-.00127	.07416	.00339	.20775	.05476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**164.26**	**.00103**	**.0428**	**.16198**
Stddev	.00013	.73	.00004	.0009	.00037
%RSD	279.56	.44153	3.6404	2.135	.22595
#1	-.00005	164.77	.00100	.0421	.16172
#2	.00014	163.75	.00106	.0434	.16223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02288**	**.01871**	**.06978**	**5.3632**	**.02373**
Stddev	.00025	.00044	.00430	.0649	.00072
%RSD	1.0955	2.3452	6.1646	1.2107	3.0286
#1	.02306	.01902	.07283	5.4091	.02323
#2	.02270	.01840	.06674	5.3173	.02424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-3-B Acquired: 12/15/2021 16:40:55 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**78.593**	**.00530**	**.06498**	**82.455**	**.00628**
Stddev	.299	.00000	.00011	.454	.00020
%RSD	.38027	.05580	.16683	.55033	3.2244
#1	78.805	.00530	.06491	82.776	.00613
#2	78.382	.00530	.06506	82.134	.00642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00124**	F **177.16**	**-.00117**	**.00031**
Stddev	.00	.00097	.11	.00081	.00287
%RSD	.0055	78.840	.06461	69.705	924.49
#1	25.02	.00055	177.24	-.00059	.00234
#2	25.02	.00192	177.08	-.00175	-.00172
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3383**	**.00022**	**.98558**	**1.001**	**.00198**
Stddev	.0125	.00015	.00227	.008	.00022
%RSD	.23381	67.701	.23007	.8423	11.375
#1	5.3471	.00011	.98719	1.006	.00182
#2	5.3295	.00032	.98398	.9946	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-3-B Acquired: 12/15/2021 16:40:55 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00132**	**.01266**	**.06744**	**.9989**
Stddev	.00096	.00024	.00022	.0011
%RSD	72.369	1.8867	.32574	.1139
#1	-.00064	.01249	.06759	.9981
#2	-.00200	.01283	.06728	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3039.2**	**2924.2**	**25481.**	**3013.0**
Stddev	9.8	10.3	72.	20.5
%RSD	.32100	.35143	.28206	.67907
#1	3046.1	2931.4	25430.	2998.6
#2	3032.3	2916.9	25532.	3027.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.664%	95.592%	95.146%	102.08%
Range				

Sample Name: 480-193265-E-7-B Acquired: 12/15/2021 16:44:37 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.03952**	**.00848**	**7.0480**	**.01387**
Stddev	.00075	.01733	.00210	.0045	.00000
%RSD	198.99	43.850	24.725	.06356	.01178
#1	.00015	.02727	.00700	7.0449	.01386
#2	-.00090	.05177	.00996	7.0512	.01387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**2.2176**	**.00043**	**-.0059**	**.00112**
Stddev	.00013	.0221	.00020	.0175	.00010
%RSD	257.00	.99712	47.094	295.9	8.5765
#1	-.00014	2.2019	.00058	.0064	.00105
#2	.00004	2.2332	.00029	-.0182	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00241**	**.00193**	**.01545**	**64.861**	**.17111**
Stddev	.00010	.00020	.00171	.129	.00054
%RSD	4.2727	10.201	11.095	.19878	.31736
#1	.00249	.00179	.01667	64.770	.17150
#2	.00234	.00207	.01424	64.952	.17073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-7-B Acquired: 12/15/2021 16:44:37 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5572**	**.00158**	**.23239**	**296.30**	**.01016**
Stddev	.0022	.00005	.00030	.20	.00009
%RSD	.06114	3.1619	.13110	.06697	.85599
#1	3.5557	.00161	.23260	296.44	.01009
#2	3.5588	.00154	.23217	296.16	.01022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00075**	**17.971**	**.00226**	**.01529**
Stddev	.00	.00058	.015	.00110	.00051
%RSD	.0003	77.405	.08097	48.673	3.3197
#1	25.07	.00116	17.981	.00148	.01493
#2	25.07	.00034	17.961	.00304	.01564
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5494**	**.00080**	**.05926**	**1.003**	**-.00044**
Stddev	.0406	.00044	.00037	.011	.00039
%RSD	.89263	55.022	.62983	1.134	89.136
#1	4.5207	.00112	.05899	.9949	-.00016
#2	4.5781	.00049	.05952	1.011	-.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-7-B Acquired: 12/15/2021 16:44:37 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00039**	**.01368**	**.01410**	**.9992**
Stddev	.00034	.00050	.00011	.0004
%RSD	87.090	3.6297	.76688	.0361
#1	.00015	.01403	.01402	.9990
#2	.00064	.01333	.01417	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3015.4**	**2967.2**	**25415.**	**3046.3**
Stddev	2.4	3.7	.	30.2
%RSD	.07974	.12482	.00160	.99018
#1	3013.7	2969.8	25414.	3067.7
#2	3017.1	2964.5	25415.	3025.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.977%	96.997%	94.898%	103.20%
Range				

Sample Name: 480-193265-E-8-B Acquired: 12/15/2021 16:48:26 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.08965**	**.00543**	**.17031**	**.12603**
Stddev	.00051	.01604	.00021	.00088	.00019
%RSD	128.62	17.892	3.9293	.51627	.14882
#1	-.00076	.07831	.00528	.17093	.12616
#2	-.00004	.10099	.00558	.16969	.12589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**402.94**	**-.00030**	**.0465**	**-.00000**
Stddev	.00001	.83	.00004	.0588	.00009
%RSD	11.021	.20510	12.669	126.4	5344.8
#1	-.00010	402.35	-.00028	.0049	-.00007
#2	-.00008	403.52	-.00033	.0881	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**.00221**	**.06837**	**77.116**	**.32846**
Stddev	.00065	.00138	.00387	.090	.00090
%RSD	63.835	62.552	5.6674	.11717	.27396
#1	.00056	.00319	.06563	77.180	.32910
#2	.00147	.00123	.07111	77.052	.32783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-8-B Acquired: 12/15/2021 16:48:26 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12724**	**.00093**	**.04245**	**465.62**	**.01594**
Stddev	.00493	.00005	.00002	1.10	.00021
%RSD	3.8736	5.0482	.05714	.23517	1.3435
#1	.13072	.00096	.04247	466.40	.01610
#2	.12375	.00090	.04244	464.85	.01579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00075**	F **283.35**	**-.00252**	**.00295**
Stddev	.00	.00005	.17	.00067	.00318
%RSD	.0006	7.1106	.06026	26.486	107.77
#1	25.06	.00071	283.23	-.00299	.00520
#2	25.06	.00079	283.47	-.00205	.00070
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4530**	**-.00001**	**5.0488**	**1.004**	**.00317**
Stddev	.0026	.00009	.0453	.003	.00023
%RSD	.17604	838.15	.89710	.3417	7.4218
#1	1.4511	.00005	5.0809	1.001	.00333
#2	1.4548	-.00008	5.0168	1.006	.00300
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-8-B Acquired: 12/15/2021 16:48:26 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.00042**	**.00405**	**.9991**
Stddev	.00012	.00020	.00001	.0004
%RSD	13.722	48.203	.30152	.0366
#1	-.00082	.00028	.00404	.9988
#2	-.00099	.00056	.00405	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2761.4**	**2784.9**	**24235.**	**3016.1**
Stddev	1.3	.6	63.	29.5
%RSD	.04750	.02081	.25896	.97807
#1	2760.4	2785.3	24279.	2995.2
#2	2762.3	2784.5	24190.	3036.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.649%	91.040%	90.492%	102.18%
Range				

Sample Name: 480-193265-E-9-B Acquired: 12/15/2021 16:52:27 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**.01871**	**.01566**	**4.0752**	**.03969**
Stddev	.00005	.02972	.00182	.0070	.00003
%RSD	5.9405	158.87	11.646	.17218	.06862
#1	-.00079	-.00231	.01695	4.0702	.03971
#2	-.00085	.03973	.01437	4.0801	.03968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**3.5366**	**.00003**	**-.0880**	**.00046**
Stddev	.00004	.0057	.00011	.0206	.00009
%RSD	158.42	.16104	393.85	23.38	19.052
#1	.00000	3.5407	-.00005	-.1026	.00040
#2	-.00005	3.5326	.00010	-.0735	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00015**	**.02384**	**51.150**	**.11179**
Stddev	.00047	.00042	.00049	.150	.00208
%RSD	49.479	273.18	2.0611	.29414	1.8606
#1	.00129	.00045	.02419	51.256	.11031
#2	.00062	-.00014	.02350	51.043	.11326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-9-B Acquired: 12/15/2021 16:52:27 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0483**	**.00054**	**.11437**	**234.83**	**.00744**
Stddev	.0092	.00003	.00041	.13	.00001
%RSD	.22771	4.9588	.35571	.05564	.16198
#1	4.0548	.00056	.11408	234.74	.00745
#2	4.0418	.00052	.11466	234.92	.00744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00120**	**12.671**	**-.00079**	**.00552**
Stddev	.00	.00017	.010	.00041	.00575
%RSD	.0045	13.798	.08276	52.270	104.24
#1	25.04	.00131	12.679	-.00108	.00145
#2	25.04	.00108	12.664	-.00050	.00958
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9403**	**.00037**	**.18144**	**1.004**	**.00020**
Stddev	.0141	.00081	.00089	.004	.00002
%RSD	.28509	216.57	.48817	.4390	10.459
#1	4.9502	-.00020	.18206	1.000	.00018
#2	4.9303	.00095	.18081	1.007	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-9-B Acquired: 12/15/2021 16:52:27 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00240**	**.01692**	**.9987**
Stddev	.00046	.00014	.00065	.0000
%RSD	121.91	5.9450	3.8418	.0012
#1	.00071	.00251	.01646	.9987
#2	.00005	.00230	.01738	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3047.7**	**2970.2**	**25607.**	**3084.2**
Stddev	1.0	3.4	89.	15.1
%RSD	.03433	.11314	.34810	.48947
#1	3046.9	2972.5	25670.	3073.6
#2	3048.4	2967.8	25544.	3094.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.907%	97.095%	95.616%	104.49%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 16:56:20 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0215**	**49.855**	**.96750**	**1.0471**	**.96708**
Stddev	.0028	.400	.00357	.0000	.01057
%RSD	.27052	.80305	.36930	.00194	1.0935
#1	1.0195	49.571	.97002	1.0471	.95960
#2	1.0234	50.138	.96497	1.0471	.97456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96931**	**49.558**	**.97322**	**1.027**	**1.0074**
Stddev	.01001	.541	.00050	.013	.0001
%RSD	1.0332	1.0910	.05157	1.297	.01018
#1	.96223	49.176	.97357	1.037	1.0073
#2	.97639	49.941	.97286	1.018	1.0075
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99007**	**1.0138**	**50.036**	**48.926**	**.96900**
Stddev	.00041	.0005	.128	.636	.00946
%RSD	.04139	.04636	.25608	1.2991	.97667
#1	.98978	1.0135	49.945	48.476	.96231
#2	.99036	1.0142	50.126	49.375	.97569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 16:56:20 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.219**	**.97561**	**1.0155**	**47.778**	**.96403**
Stddev	.104	.00190	.0002	.502	.00010
%RSD	.21999	.19425	.02210	1.0517	.01026
#1	47.145	.97427	1.0157	47.423	.96410
#2	47.292	.97695	1.0154	48.133	.96396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.61**	**1.0013**	**25.411**	**.97096**	**.99513**
Stddev	.01	.0010	.012	.00144	.00403
%RSD	.0154	.10037	.04785	.14842	.40481
#1	37.62	1.0020	25.420	.96994	.99798
#2	37.61	1.0006	25.403	.97198	.99228
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9773**	**.99770**	**.95621**	**1.517**	**1.0104**
Stddev	.0534	.00092	.00799	.008	.0006
%RSD	.53491	.09172	.83509	.5075	.05755
#1	9.9396	.99705	.95056	1.511	1.0100
#2	10.015	.99835	.96185	1.522	1.0108
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 16:56:20 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98897**	**.99563**	**1.0103**	**1.500**
Stddev	.00092	.00043	.0014	.004
%RSD	.09337	.04309	.13536	.2888
#1	.98832	.99532	1.0093	1.497
#2	.98962	.99593	1.0112	1.503
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3031.3**	**2994.9**	**25801.**	**3016.6**
Stddev	1.3	2.8	34.	36.6
%RSD	.04329	.09196	.13190	1.2134
#1	3032.2	2996.9	25825.	3042.5
#2	3030.4	2993.0	25777.	2990.7

Sample Name: CCB-6810114 Acquired: 12/15/2021 16:59:53 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**.01472**	**.00165**	**.00526**	**-.00002**
Stddev	.00003	.02172	.00079	.00015	.00005
%RSD	3.4570	147.54	47.924	2.9117	227.33
#1	-.00097	-.00064	.00109	.00516	-.00005
#2	-.00093	.03008	.00220	.00537	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.01579**	**.00018**	**-.0320**	**-.00026**
Stddev	.00008	.00535	.00007	.0187	.00005
%RSD	109.75	33.903	40.989	58.48	20.525
#1	.00013	.01958	.00023	-.0452	-.00022
#2	.00002	.01201	.00013	-.0187	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.00006**	**-.00241**	**.04919**	**.00194**
Stddev	.00004	.00076	.00073	.02494	.00205
%RSD	5.4521	1219.6	30.072	50.709	105.96
#1	-.00076	-.00048	-.00293	.03155	.00339
#2	-.00082	.00060	-.00190	.06683	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 16:59:53 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**-.00009**	**.00034**	**.09597**	**.00031**
Stddev	.00122	.00002	.00030	.01299	.00026
%RSD	98.519	18.405	86.901	13.535	82.514
#1	.00037	-.00008	.00013	.10516	.00050
#2	.00210	-.00011	.00055	.08679	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00105**	**.03024**	**-.00218**	**-.00164**
Stddev	.00	.00080	.00014	.00225	.00048
%RSD	.0029	76.347	.47481	103.04	29.137
#1	25.01	.00161	.03035	-.00059	-.00130
#2	25.01	.00048	.03014	-.00378	-.00198
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00468**	**.00015**	**.00026**	**.9995**	**-.00028**
Stddev	.01701	.00005	.00006	.0058	.00052
%RSD	363.42	34.491	24.332	.5762	187.89
#1	-.00735	.00011	.00031	1.004	-.00065
#2	.01671	.00018	.00022	.9954	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 16:59:53 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00070**	**-.00007**	**-.00005**	**.9986**
Stddev	.00062	.00040	.00048	.0007
%RSD	88.310	607.44	1031.2	.0694
#1	.00026	-.00035	.00029	.9991
#2	.00114	.00022	-.00038	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3497.9**	**3086.5**	**27312.**	**3027.4**
Stddev	.7	3.5	53.	22.2
%RSD	.01867	.11330	.19541	.73325
#1	3498.4	3088.9	27274.	3011.7
#2	3497.4	3084.0	27350.	3043.1

Sample Name: CCVL-6811103 Acquired: 12/15/2021 17:03:44 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00543**	**.22405**	**.01630**	**.02272**	**.00208**
Stddev	.00015	.01817	.00056	.00005	.00001
%RSD	2.7937	8.1116	3.4262	.20960	.28898
#1	.00554	.23690	.01591	.02275	.00207
#2	.00532	.21120	.01670	.02269	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.50806**	**.00196**	**-.0398**	**.00358**
Stddev	.00000	.00216	.00012	.0321	.00016
%RSD	.17648	.42418	5.9028	80.67	4.5545
#1	.00198	.50653	.00204	-.0171	.00346
#2	.00198	.50958	.00187	-.0625	.00369
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00375**	**.01116**	**.04875**	**.45841**	**.02822**
Stddev	.00009	.00012	.00101	.05789	.00006
%RSD	2.3974	1.0341	2.0800	12.629	.22026
#1	.00381	.01124	.04804	.41747	.02817
#2	.00369	.01108	.04947	.49935	.02826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 17:03:44 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18832**	**.00293**	**.00949**	**1.0238**	**.00943**
Stddev	.00268	.00012	.00016	.0108	.00044
%RSD	1.4212	4.2198	1.6626	1.0531	4.6222
#1	.19022	.00302	.00937	1.0314	.00912
#2	.18643	.00284	.00960	1.0162	.00974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01068**	**.21477**	**.01788**	**.02265**
Stddev	.00	.00110	.00173	.00233	.00086
%RSD	.0029	10.270	.80604	13.013	3.8064
#1	25.00	.00990	.21599	.01623	.02326
#2	25.00	.01145	.21355	.01952	.02204
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46441**	**.00940**	**.00495**	F **.9983**	**.00456**
Stddev	.00970	.00026	.00008	.0089	.00007
%RSD	2.0880	2.7594	1.5307	.8927	1.6190
#1	.47127	.00922	.00490	.9920	.00462
#2	.45755	.00958	.00501	1.005	.00451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 17:03:44 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01992**	**.00476**	**.01009**	F **1.000**
Stddev	.00090	.00028	.00014	.001
%RSD	4.5375	5.9210	1.4158	.0625
#1	.02056	.00496	.00999	1.001
#2	.01928	.00456	.01019	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3492.5**	**3095.6**	**27315.**	**3048.9**
Stddev	3.0	1.4	67.	12.0
%RSD	.08527	.04553	.24532	.39416
#1	3494.6	3096.6	27267.	3040.4
#2	3490.4	3094.6	27362.	3057.4

Sample Name: 480-193265-E-10-B Acquired: 12/15/2021 17:07:31 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00108**	**.08926**	**.00478**	**.11894**	**.84993**
Stddev	.00013	.01305	.00207	.00017	.00088
%RSD	11.807	14.618	43.386	.14064	.10346
#1	-.00099	.09849	.00625	.11906	.85055
#2	-.00117	.08004	.00331	.11883	.84931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**766.16**	**-.00026**	**-.0780**	**.00091**
Stddev	.00010	3.71	.00004	.0057	.00010
%RSD	166.58	.48396	14.185	7.327	11.477
#1	-.00012	763.54	-.00029	-.0820	.00084
#2	.00001	768.78	-.00024	-.0740	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01586**	**.03110**	**.07657**	**70.162**	**.24349**
Stddev	.00019	.00030	.00020	.047	.00044
%RSD	1.2241	.96462	.26256	.06667	.18230
#1	.01572	.03089	.07671	70.129	.24381
#2	.01599	.03131	.07643	70.195	.24318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-10-B Acquired: 12/15/2021 17:07:31 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10918**	**.00166**	**.19384**	**465.63**	**.01507**
Stddev	.00609	.00006	.00030	.17	.00005
%RSD	5.5782	3.6839	.15451	.03710	.35797
#1	.11349	.00162	.19405	465.76	.01503
#2	.10487	.00171	.19363	465.51	.01511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00481**	**13.769**	**-.00127**	**-.00024**
Stddev	.00	.00054	.043	.00283	.00310
%RSD	.0047	11.199	.30878	222.92	1300.3
#1	25.05	.00443	13.799	-.00327	.00195
#2	25.05	.00519	13.739	.00073	-.00243
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24221**	**.00135**	**2.9657**	**1.002**	**.00498**
Stddev	.00496	.00011	.0029	.003	.00006
%RSD	2.0475	7.7718	.09872	.3257	1.1604
#1	.24571	.00143	2.9636	1.004	.00502
#2	.23870	.00128	2.9678	.9997	.00494
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-10-B Acquired: 12/15/2021 17:07:31 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00182**	**.00055**	**.00873**	**.9978**
Stddev	.00038	.00003	.00076	.0013
%RSD	21.088	5.8784	8.6540	.1292
#1	.00210	.00058	.00820	.9988
#2	.00155	.00053	.00927	.9969
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2661.1**	**2719.7**	**23719.**	**2978.6**
Stddev	3.5	1.8	41.	1.0
%RSD	.12994	.06681	.17246	.03207
#1	2663.5	2721.0	23690.	2979.3
#2	2658.6	2718.5	23748.	2977.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.756%	88.909%	88.565%	100.91%
Range				

Sample Name: 480-193265-E-11-B Acquired: 12/15/2021 17:11:31 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.19942**	**.00487**	**.06280**	**.20867**
Stddev	.00019	.00710	.00402	.00032	.00014
%RSD	23.834	3.5600	82.541	.50297	.06482
#1	-.00092	.20444	.00772	.06302	.20876
#2	-.00065	.19440	.00203	.06257	.20857
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**212.52**	**.00048**	**-.0708**	**-.00031**
Stddev	.00003	1.82	.00002	.0440	.00019
%RSD	68.959	.85501	4.7033	62.22	61.790
#1	-.00002	211.23	.00049	-.0396	-.00018
#2	-.00006	213.80	.00046	-.1019	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00041**	**.04437**	**16.464**	**.08647**
Stddev	.00007	.00012	.00087	.101	.00335
%RSD	28.015	29.692	1.9635	.61331	3.8786
#1	.00021	.00032	.04376	16.393	.08410
#2	.00031	.00049	.04499	16.535	.08884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-11-B Acquired: 12/15/2021 17:11:31 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**58.213**	**.00986**	**.00962**	**290.80**	**.00320**
Stddev	.106	.00015	.00000	3.32	.00018
%RSD	.18126	1.5234	.01397	1.1428	5.5320
#1	58.287	.00976	.00962	288.45	.00307
#2	58.138	.00997	.00962	293.15	.00332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00318**	F **114.04**	**-.00127**	**.00035**
Stddev	.00	.00003	.07	.00301	.00180
%RSD	.0004	.78837	.06076	237.34	519.49
#1	25.04	.00317	114.08	-.00339	-.00093
#2	25.04	.00320	113.99	.00086	.00162
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.594**	**.00003**	**3.0941**	**.9983**	**.00384**
Stddev	.051	.00061	.0336	.0020	.00007
%RSD	.48237	1985.2	1.0844	.2033	1.6992
#1	10.557	.00046	3.0703	.9998	.00389
#2	10.630	-.00040	3.1178	.9969	.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193265-E-11-B Acquired: 12/15/2021 17:11:31 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00063**	**.00173**	**1.000**
Stddev	.00247	.00020	.00008	.002
%RSD	1165.5	32.302	4.7772	.1729
#1	-.00154	.00048	.00167	1.001
#2	.00196	.00077	.00179	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2872.2**	**2840.2**	**24893.**	**3013.0**
Stddev	3.3	2.9	77.	30.8
%RSD	.11591	.10321	.30814	1.0211
#1	2874.5	2842.3	24948.	3034.8
#2	2869.8	2838.1	24839.	2991.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.845%	92.846%	92.952%	102.08%
Range				

Sample Name: 480-193026-E-3-B Acquired: 12/15/2021 17:15:22 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**1.3100**	**.03568**	**.06813**	**.02178**
Stddev	.00012	.0141	.00131	.00020	.00010
%RSD	15.377	1.0760	3.6818	.29185	.43999
#1	-.00086	1.3200	.03475	.06799	.02171
#2	-.00069	1.3000	.03661	.06827	.02184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**45.068**	**.00083**	**-.0253**	**-.00007**
Stddev	.00008	.093	.00003	.0149	.00008
%RSD	79.214	.20591	3.4946	58.79	109.56
#1	.00015	45.003	.00081	-.0359	-.00002
#2	.00004	45.134	.00085	-.0148	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00157**	**.00269**	**.78151**	**13.118**	**.00778**
Stddev	.00016	.00064	.00192	.062	.00022
%RSD	9.9208	23.648	.24548	.47155	2.8596
#1	.00146	.00313	.78015	13.161	.00762
#2	.00168	.00224	.78287	13.074	.00793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193026-E-3-B Acquired: 12/15/2021 17:15:22 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16538**	**.00868**	**.26939**	**227.87**	**.01875**
Stddev	.00154	.00002	.00074	.60	.00010
%RSD	.93169	.24033	.27553	.26401	.52617
#1	.16647	.00867	.26991	227.45	.01882
#2	.16429	.00870	.26886	228.30	.01868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.01210**	**3.9272**	**-.00009**	**-.00240**
Stddev	.00	.00046	.0049	.00374	.00418
%RSD	.0015	3.8138	.12522	4131.9	173.82
#1	25.12	.01243	3.9307	-.00274	.00055
#2	25.12	.01178	3.9237	.00255	-.00536
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4000**	**.00002**	**.47262**	**1.004**	**.01824**
Stddev	.0356	.00005	.00169	.006	.00005
%RSD	.55634	282.96	.35851	.6517	.27674
#1	6.3748	-.00002	.47142	1.008	.01821
#2	6.4252	.00005	.47382	.9992	.01828
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193026-E-3-B Acquired: 12/15/2021 17:15:22 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00053**	**.02456**	**.02499**	**1.001**
Stddev	.00037	.00019	.00009	.001
%RSD	69.644	.77751	.37850	.0800
#1	.00079	.02443	.02492	1.002
#2	.00027	.02470	.02505	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3034.8**	**2968.0**	**25852.**	**3064.0**
Stddev	.3	2.7	104.	3.3
%RSD	.00848	.09021	.40324	.10826
#1	3034.6	2966.1	25926.	3066.3
#2	3035.0	2969.9	25778.	3061.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.536%	97.023%	96.531%	103.80%
Range				

Sample Name: 480-193310-C-8-B Acquired: 12/15/2021 17:19:11 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.09592**	**.00214**	**.16995**	**.04149**
Stddev	.00094	.02778	.00401	.00074	.00017
%RSD	365.54	28.959	187.19	.43312	.41648
#1	-.00092	.11556	-.00069	.16943	.04162
#2	.00041	.07628	.00498	.17047	.04137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**49.160**	**.00012**	**-.0122**	**.00048**
Stddev	.00010	.114	.00021	.0341	.00004
%RSD	541.01	.23153	181.43	280.2	8.9012
#1	-.00005	49.080	.00027	.0119	.00045
#2	.00009	49.241	-.00003	-.0363	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00226**	**.91327**	**10.729**	**.00385**
Stddev	.00022	.00031	.00694	.062	.00146
%RSD	150.20	13.490	.76042	.58241	37.986
#1	.00031	.00248	.90836	10.685	.00489
#2	-.00001	.00205	.91818	10.773	.00282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193310-C-8-B Acquired: 12/15/2021 17:19:11 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.647**	**.32698**	**-.00050**	**30.079**	**.00361**
Stddev	.001	.00036	.00002	.065	.00028
%RSD	.00676	.11094	4.1422	.21450	7.8011
#1	12.647	.32724	-.00051	30.033	.00341
#2	12.646	.32672	-.00049	30.125	.00381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00263**	**1.1345**	**-.00047**	**.00041**
Stddev	.00	.00081	.0028	.00057	.00004
%RSD	.0082	30.872	.24599	120.76	9.2712
#1	25.02	.00320	1.1325	-.00007	.00044
#2	25.01	.00205	1.1365	-.00088	.00039
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5855**	**.00015**	**.24424**	**.9952**	**.00251**
Stddev	.0285	.00010	.00040	.0049	.00005
%RSD	.62232	67.786	.16464	.4904	2.0812
#1	4.5653	.00023	.24395	.9987	.00248
#2	4.6056	.00008	.24452	.9918	.00255
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193310-C-8-B Acquired: 12/15/2021 17:19:11 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.00015**	**.00298**	**.9980**
Stddev	.00045	.00026	.00007	.0002
%RSD	79.206	171.99	2.2251	.0154
#1	-.00025	.00034	.00303	.9981
#2	-.00090	-.00003	.00293	.9978
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3223.7**	**3021.8**	**26721.**	**3089.3**
Stddev	2.7	2.8	1.	4.2
%RSD	.08301	.09408	.00247	.13521
#1	3221.8	3023.8	26721.	3086.3
#2	3225.5	3019.7	26720.	3092.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.983%	98.782%	99.774%	104.66%
Range				

Sample Name: 480-193385-G-1-A Acquired: 12/15/2021 17:22:56 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.03300**	**-.00124**	**.03591**	**.09134**
Stddev	.00012	.04645	.00285	.00034	.00022
%RSD	16.751	140.73	230.23	.95087	.24487
#1	-.00065	.00016	.00078	.03567	.09119
#2	-.00082	.06585	-.00325	.03615	.09150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**16.416**	**.00044**	**-.0578**	**.03583**
Stddev	.00008	.019	.00003	.0456	.00004
%RSD	328.01	.11829	5.9917	78.89	.11327
#1	.00003	16.429	.00046	-.0256	.03586
#2	-.00008	16.402	.00042	-.0901	.03581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00185**	**-.00388**	**6.0493**	**.04357**
Stddev	.00010	.00083	.00158	.0063	.00085
%RSD	3902.8	44.976	40.683	.10460	1.9397
#1	.00007	.00126	-.00276	6.0538	.04417
#2	-.00008	.00244	-.00499	6.0448	.04297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193385-G-1-A Acquired: 12/15/2021 17:22:56 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.152**	**1.4045**	**-.00124**	**43.875**	**.12682**
Stddev	.037	.0015	.00011	.028	.00009
%RSD	.18189	.10500	9.1258	.06293	.07230
#1	20.178	1.4035	-.00116	43.894	.12688
#2	20.126	1.4055	-.00132	43.855	.12675
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00295**	**25.259**	**-.00249**	**.00166**
Stddev	.00	.00133	.020	.00348	.00271
%RSD	.0018	45.108	.08081	139.61	163.56
#1	25.01	.00390	25.244	-.00003	.00358
#2	25.01	.00201	25.273	-.00495	-.00026
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9467**	**.00126**	**.08435**	**1.004**	**-.00016**
Stddev	.0191	.00001	.00006	.001	.00066
%RSD	.24038	.93127	.07138	.0756	406.95
#1	7.9602	.00127	.08431	1.003	-.00063
#2	7.9332	.00126	.08439	1.004	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193385-G-1-A Acquired: 12/15/2021 17:22:56 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00061**	**-.00071**	**.06864**	**.9988**
Stddev	.00056	.00002	.00015	.0004
%RSD	91.855	2.2928	.21518	.0446
#1	.00022	-.00070	.06853	.9991
#2	.00101	-.00072	.06874	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3258.3**	**3034.5**	**26757.**	**3095.6**
Stddev	5.6	7.0	44.	10.0
%RSD	.17070	.23015	.16550	.32165
#1	3262.2	3039.4	26725.	3102.6
#2	3254.4	3029.5	26788.	3088.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.982%	99.197%	99.909%	104.87%
Range				

Sample Name: 480-193367-D-1-A Acquired: 12/15/2021 17:26:38 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00100**	**17.248**	**.00144**	**.00823**	**.07537**
Stddev	.00076	.022	.00011	.00017	.00024
%RSD	75.930	.12872	7.8502	2.1126	.31362
#1	-.00154	17.233	.00152	.00835	.07554
#2	-.00046	17.264	.00136	.00810	.07520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**6.6100**	**-.00007**	**-.0074**	**.00201**
Stddev	.00004	.0045	.00017	.0061	.00006
%RSD	7.2011	.06855	250.23	82.03	3.0097
#1	.00055	6.6132	.00005	-.0118	.00197
#2	.00061	6.6068	-.00019	-.0031	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00460**	**.00491**	**8.1408**	**3.9680**	**.00441**
Stddev	.00022	.00047	.0029	.0564	.00093
%RSD	4.8609	9.5469	.03590	1.4207	21.124
#1	.00475	.00458	8.1429	4.0079	.00375
#2	.00444	.00525	8.1388	3.9282	.00506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193367-D-1-A Acquired: 12/15/2021 17:26:38 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7494**	**.14383**	**-.00126**	**3.9568**	**.00368**
Stddev	.0067	.00015	.00028	.0012	.00016
%RSD	.38118	.10273	22.039	.03075	4.2539
#1	1.7447	.14373	-.00146	3.9577	.00379
#2	1.7542	.14394	-.00107	3.9560	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.57**	**.00884**	**1.7154**	**-.00161**	**.00039**
Stddev	.00	.00128	.0088	.00030	.00082
%RSD	.0025	14.434	.51187	18.504	208.25
#1	25.57	.00974	1.7092	-.00140	.00097
#2	25.56	.00793	1.7216	-.00182	-.00019
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.320**	**.00076**	**.02947**	**1.001**	**.71606**
Stddev	.007	.00029	.00021	.002	.00031
%RSD	.04657	38.355	.72154	.1611	.04310
#1	15.325	.00056	.02962	.9999	.71585
#2	15.315	.00097	.02932	1.002	.71628
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193367-D-1-A Acquired: 12/15/2021 17:26:38 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00005**	**.01105**	**.02138**	**1.000**
Stddev	.00011	.00072	.00034	.001
%RSD	204.99	6.5196	1.5780	.0476
#1	.00013	.01054	.02114	.9997
#2	-.00002	.01156	.02161	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3411.3**	**3180.7**	**28050.**	**3212.3**
Stddev	1.9	1.4	135.	4.2
%RSD	.05556	.04322	.48184	.13155
#1	3412.6	3179.7	27954.	3215.3
#2	3410.0	3181.6	28145.	3209.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.396%	103.98%	104.74%	108.83%
Range				

Sample Name: 480-193367-D-2-A Acquired: 12/15/2021 17:30:20 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**1.8852**	**.01533**	**.57589**	**.32023**
Stddev	.00079	.0086	.00118	.00109	.00004
%RSD	103.22	.45437	7.6728	.18963	.01113
#1	-.00133	1.8792	.01450	.57512	.32025
#2	-.00021	1.8913	.01616	.57666	.32020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**163.45**	**.00073**	**-.0002**	**.00127**
Stddev	.00004	.23	.00009	.0298	.00023
%RSD	24.815	.14038	12.253	13010.	17.730
#1	.00017	163.28	.00067	-.0213	.00143
#2	.00012	163.61	.00080	.0208	.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00324**	**.00974**	**113.91**	**16.721**	**.00486**
Stddev	.00050	.00088	.37	.039	.00212
%RSD	15.453	9.0297	.32290	.23033	43.595
#1	.00288	.01036	113.65	16.694	.00336
#2	.00359	.00911	114.17	16.748	.00636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193367-D-2-A Acquired: 12/15/2021 17:30:20 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.973**	**.52723**	**.01841**	**11.136**	**.00606**
Stddev	.001	.00007	.00037	.025	.00028
%RSD	.00603	.01251	2.0293	.22457	4.5758
#1	15.972	.52718	.01815	11.118	.00625
#2	15.974	.52728	.01868	11.153	.00586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.40**	**.10160**	**24.040**	**.01276**	**.00641**
Stddev	.00	.00005	.030	.00218	.00194
%RSD	.0092	.04462	.12467	17.062	30.271
#1	25.40	.10164	24.061	.01430	.00504
#2	25.40	.10157	24.019	.01122	.00779
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8602**	**.00330**	**.61652**	**1.050**	**.13582**
Stddev	.0230	.00064	.00031	.007	.00583
%RSD	.23361	19.298	.04991	.6534	4.2932
#1	9.8440	.00285	.61630	1.055	.13170
#2	9.8765	.00376	.61674	1.045	.13995
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193367-D-2-A Acquired: 12/15/2021 17:30:20 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00096**	**.00736**	**.92275**	**1.001**
Stddev	.00021	.00022	.00112	.001
%RSD	21.426	2.9997	.12172	.0769
#1	-.00082	.00751	.92196	1.001
#2	-.00111	.00720	.92355	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3068.6**	**2987.0**	**26281.**	**3111.5**
Stddev	4.0	1.4	30.	5.5
%RSD	.13190	.04614	.11256	.17717
#1	3065.7	2986.1	26301.	3107.6
#2	3071.4	2988.0	26260.	3115.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.510%	97.647%	98.131%	105.41%
Range				

Sample Name: 480-193367-D-3-A Acquired: 12/15/2021 17:33:58 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**1.5656**	**.00570**	**.03810**	**.05599**
Stddev	.00048	.0022	.00130	.00051	.00005
%RSD	51.292	.13969	22.797	1.3259	.08532
#1	-.00060	1.5641	.00478	.03846	.05596
#2	-.00129	1.5672	.00662	.03774	.05603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**15.729**	**-.00003**	**-.0381**	**.00138**
Stddev	.00003	.017	.00037	.0389	.00005
%RSD	46.539	.10770	1442.4	102.1	3.4205
#1	.00004	15.717	-.00029	-.0656	.00141
#2	.00008	15.741	.00024	-.0106	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00308**	**35.153**	**2.9389**	**.00411**
Stddev	.00016	.00009	.124	.0007	.00151
%RSD	12.832	3.0055	.35384	.02388	36.646
#1	.00135	.00315	35.065	2.9384	.00518
#2	.00113	.00302	35.241	2.9394	.00305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193367-D-3-A Acquired: 12/15/2021 17:33:58 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4730**	**.45695**	**-.00170**	**2.6118**	**.00134**
Stddev	.0010	.00101	.00013	.0094	.00023
%RSD	.06906	.22113	7.8686	.35864	16.925
#1	1.4723	.45767	-.00180	2.6184	.00118
#2	1.4738	.45624	-.00161	2.6051	.00150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00805**	**1.8249**	**.00050**	**.00337**
Stddev	.00	.00071	.0071	.00132	.00291
%RSD	.0001	8.7816	.38709	263.50	86.163
#1	25.07	.00855	1.8299	.00144	.00543
#2	25.07	.00755	1.8199	-.00043	.00132
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9626**	**.00033**	**.05319**	**1.020**	**.12690**
Stddev	.0109	.00083	.00005	.003	.00025
%RSD	.15684	252.64	.08861	.2584	.19343
#1	6.9549	-.00026	.05322	1.022	.12707
#2	6.9703	.00091	.05316	1.018	.12672
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193367-D-3-A Acquired: 12/15/2021 17:33:58 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00324**	**.00822**	**1.000**
Stddev	.00007	.00007	.00006	.001
%RSD	61.576	2.0666	.75182	.0617
#1	-.00006	.00329	.00826	1.001
#2	-.00016	.00319	.00818	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3401.2**	**3112.6**	**27556.**	**3154.6**
Stddev	5.0	3.2	11.	22.3
%RSD	.14690	.10414	.03931	.70841
#1	3397.7	3110.3	27549.	3170.4
#2	3404.7	3114.9	27564.	3138.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.105%	101.75%	102.90%	106.87%
Range				

Sample Name: 480-193367-D-4-A Acquired: 12/15/2021 17:37:41 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**1.2803**	**.00901**	**.07157**	**.07759**
Stddev	.00058	.0052	.00041	.00017	.00012
%RSD	63.946	.40599	4.5686	.24197	.16104
#1	-.00133	1.2766	.00930	.07169	.07750
#2	-.00050	1.2840	.00872	.07145	.07768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**26.853**	**.00014**	**-.0381**	**.00311**
Stddev	.00001	.081	.00000	.0024	.00001
%RSD	117.87	.30175	1.2060	6.180	.22428
#1	.00002	26.796	.00014	-.0364	.00310
#2	.00000	26.910	.00014	-.0398	.00311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00180**	**.00205**	**40.307**	**4.3871**	**.00391**
Stddev	.00014	.00030	.041	.0113	.00053
%RSD	7.7119	14.543	.10047	.25840	13.635
#1	.00190	.00184	40.279	4.3951	.00429
#2	.00170	.00226	40.336	4.3791	.00354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193367-D-4-A Acquired: 12/15/2021 17:37:41 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7942**	**.43991**	**-.00137**	**3.2414**	**.00114**
Stddev	.0072	.00093	.00023	.0304	.00034
%RSD	.39871	.21050	16.776	.93680	29.531
#1	1.7891	.43926	-.00121	3.2199	.00137
#2	1.7992	.44057	-.00154	3.2629	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.01198**	**3.6990**	**.00259**	**.00160**
Stddev	.00	.00135	.0034	.00154	.00442
%RSD	.0048	11.292	.09060	59.692	275.72
#1	25.04	.01294	3.7014	.00150	.00473
#2	25.04	.01103	3.6966	.00368	-.00152
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6321**	**.00101**	**.09869**	**1.015**	**.08992**
Stddev	.0288	.00018	.00050	.007	.00135
%RSD	.43423	18.040	.50194	.6852	1.5046
#1	6.6525	.00088	.09834	1.010	.08896
#2	6.6118	.00114	.09904	1.020	.09087
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193367-D-4-A Acquired: 12/15/2021 17:37:41 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00208**	**.00878**	**.9994**
Stddev	.00145	.00047	.00032	.0007
%RSD	420.62	22.432	3.6518	.0737
#1	.00068	.00175	.00901	.9988
#2	-.00137	.00241	.00855	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3364.8**	**3096.8**	**27461.**	**3141.0**
Stddev	1.0	2.7	115.	2.7
%RSD	.03006	.08709	.41928	.08600
#1	3365.5	3094.9	27543.	3142.9
#2	3364.1	3098.7	27380.	3139.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.055%	101.24%	102.54%	106.41%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 17:41:27 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0225**	**49.848**	**.95573**	**1.0414**	**.95816**
Stddev	.0003	.063	.00051	.0002	.00128
%RSD	.02578	.12609	.05326	.01708	.13327
#1	1.0223	49.804	.95609	1.0415	.95725
#2	1.0227	49.893	.95537	1.0413	.95906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95978**	**49.590**	**.96420**	**1.004**	**1.0183**
Stddev	.00088	.063	.00108	.046	.0008
%RSD	.09206	.12658	.11223	4.553	.08097
#1	.95915	49.545	.96344	1.037	1.0189
#2	.96040	49.634	.96497	.9721	1.0177
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98732**	**1.0225**	**49.775**	**48.791**	**.96575**
Stddev	.00107	.0008	.000	.141	.00218
%RSD	.10801	.08194	.00068	.28840	.22528
#1	.98656	1.0219	49.776	48.692	.96421
#2	.98807	1.0231	49.775	48.891	.96729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 17:41:27 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.403**	**.96558**	**1.0156**	**47.196**	**.95900**
Stddev	.156	.00163	.0006	.084	.00185
%RSD	.33577	.16909	.05953	.17758	.19265
#1	46.293	.96442	1.0152	47.137	.95769
#2	46.513	.96673	1.0160	47.256	.96030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.69**	**1.0086**	**25.555**	**.96254**	**.99155**
Stddev	.02	.0004	.011	.00296	.00200
%RSD	.0457	.03826	.04256	.30760	.20151
#1	37.70	1.0084	25.563	.96463	.99297
#2	37.67	1.0089	25.548	.96045	.99014
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8660**	**1.0049**	**.94645**	**1.512**	**1.0175**
Stddev	.0751	.0003	.00112	.007	.0006
%RSD	.76170	.02629	.11860	.4556	.06289
#1	9.8129	1.0051	.94566	1.517	1.0170
#2	9.9191	1.0047	.94725	1.508	1.0180
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 17:41:27 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98979**	**.99829**	**1.0084**	**1.504**
Stddev	.00237	.00021	.0001	.003
%RSD	.23945	.02130	.01219	.1932
#1	.99146	.99814	1.0083	1.502
#2	.98811	.99844	1.0084	1.506
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3013.7**	**2981.8**	**25856.**	**3020.3**
Stddev	.1	.4	109.	1.6
%RSD	.00306	.01408	.42134	.05330
#1	3013.6	2981.5	25933.	3019.2
#2	3013.8	2982.1	25779.	3021.4

Sample Name: CCB-6810114 Acquired: 12/15/2021 17:44:59 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.04243**	**.00143**	**-.00021**	**.00008**
Stddev	.00022	.02326	.00061	.00037	.00005
%RSD	97.196	54.820	42.953	174.49	59.676
#1	.00038	.05888	.00100	.00005	.00011
#2	.00007	.02598	.00187	-.00047	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.01835**	**.00000**	**-.0524**	**-.00015**
Stddev	.00012	.00279	.00003	.0334	.00035
%RSD	189.69	15.195	1893.2	63.73	236.10
#1	.00015	.01638	.00002	-.0288	-.00040
#2	-.00002	.02032	-.00002	-.0760	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00075**	**.00659**	**.04936**	**.00141**
Stddev	.00032	.00015	.00335	.01536	.00237
%RSD	1356.2	19.692	50.847	31.120	167.68
#1	-.00020	.00086	.00896	.03850	.00309
#2	.00025	.00065	.00422	.06022	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 17:44:59 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00319**	**-.00001**	**.00028**	**.03119**	**.00052**
Stddev	.00538	.00004	.00009	.00059	.00003
%RSD	168.56	365.36	33.620	1.8909	4.9625
#1	.00699	.00002	.00035	.03077	.00054
#2	-.00061	-.00004	.00021	.03161	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00170**	**.01096**	**.00080**	**.00220**
Stddev	.00	.00071	.00089	.00053	.00322
%RSD	.0024	41.480	8.1388	66.061	146.30
#1	25.01	.00220	.01033	.00117	.00448
#2	25.01	.00120	.01159	.00042	-.00008
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00568**	**.00011**	**.00013**	**.9951**	**-.00028**
Stddev	.00561	.00073	.00004	.0030	.00026
%RSD	98.727	692.75	33.232	.2969	93.049
#1	.00172	.00063	.00016	.9930	-.00046
#2	.00965	-.00041	.00010	.9972	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 17:44:59 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00043**	**.00017**	**.9980**
Stddev	.00038	.00006	.00020	.0004
%RSD	1848.0	14.870	114.63	.0411
#1	-.00029	-.00039	.00031	.9983
#2	.00025	-.00048	.00003	.9977
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3487.1**	**3076.9**	**27439.**	**3041.8**
Stddev	2.0	1.1	88.	7.4
%RSD	.05871	.03492	.32129	.24351
#1	3488.5	3076.1	27377.	3047.0
#2	3485.6	3077.6	27502.	3036.5

Sample Name: CCVL-6811103 Acquired: 12/15/2021 17:48:50 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00539**	**.20566**	**.01509**	**.01958**	**.00204**
Stddev	.00036	.03967	.00012	.00021	.00002
%RSD	6.6707	19.290	.82389	1.0637	.97703
#1	.00564	.17761	.01501	.01973	.00203
#2	.00513	.23371	.01518	.01944	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00189**	**.50121**	**.00188**	**-.0441**	**.00370**
Stddev	.00000	.00013	.00007	.0215	.00018
%RSD	.11439	.02597	3.7758	48.80	4.9948
#1	.00189	.50112	.00183	-.0594	.00383
#2	.00189	.50130	.00194	-.0289	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00352**	**.00985**	**.05108**	**.47437**	**.03103**
Stddev	.00014	.00036	.00289	.07377	.00011
%RSD	3.8382	3.7013	5.6569	15.551	.35896
#1	.00342	.01011	.05312	.42221	.03111
#2	.00362	.00959	.04903	.52654	.03095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 17:48:50 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18544**	**.00285**	**.00938**	**.95075**	**.00941**
Stddev	.00108	.00006	.00011	.00409	.00005
%RSD	.58253	2.0316	1.1984	.43020	.53250
#1	.18620	.00281	.00930	.94786	.00938
#2	.18468	.00289	.00946	.95365	.00945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01063**	**.19792**	**.01835**	**.02233**
Stddev	.00	.00002	.00218	.00008	.00019
%RSD	.0043	.19210	1.1016	.44304	.84646
#1	25.00	.01062	.19638	.01840	.02247
#2	25.00	.01065	.19946	.01829	.02220
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47170**	**.00900**	**.00482**	F **.9942**	**.00485**
Stddev	.00392	.00024	.00004	.0063	.00002
%RSD	.83039	2.7050	.81553	.6319	.42292
#1	.46893	.00917	.00479	.9897	.00486
#2	.47447	.00883	.00485	.9986	.00483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 17:48:50 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01888**	**.00439**	**.01018**	F **.9997**
Stddev	.00039	.00034	.00017	.0008
%RSD	2.0890	7.6895	1.7020	.0776
#1	.01860	.00415	.01031	.9991
#2	.01916	.00462	.01006	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3487.1**	**3091.4**	**27484.**	**3088.3**
Stddev	9.3	8.0	41.	4.6
%RSD	.26705	.25974	.15015	.15044
#1	3493.7	3097.0	27455.	3085.1
#2	3480.6	3085.7	27513.	3091.6

Sample Name: 480-193367-D-5-A Acquired: 12/15/2021 17:52:36 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00181**	**44.911**	**.00639**	**.01027**	**.32744**
Stddev	.00027	.035	.00211	.00021	.00032
%RSD	14.917	.07771	33.003	2.0733	.09786
#1	-.00162	44.886	.00788	.01012	.32767
#2	-.00200	44.936	.00490	.01042	.32722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**21.824**	**.00039**	**.2222**	**.01574**
Stddev	.00009	.035	.00029	.0162	.00002
%RSD	6.4384	.15867	73.692	7.295	.15465
#1	.00145	21.799	.00060	.2107	.01575
#2	.00132	21.848	.00019	.2336	.01572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02757**	**.01908**	**48.814**	**10.001**	**.03173**
Stddev	.00020	.00009	.233	.014	.00044
%RSD	.73738	.46478	.47798	.13732	1.3913
#1	.02742	.01914	48.649	10.010	.03204
#2	.02771	.01901	48.979	9.9909	.03142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193367-D-5-A Acquired: 12/15/2021 17:52:36 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.389**	**.83555**	**-.00063**	**6.3699**	**.02024**
Stddev	.041	.00010	.00009	.0103	.00018
%RSD	.39832	.01187	13.539	.16170	.90251
#1	10.359	.83548	-.00057	6.3626	.02011
#2	10.418	.83563	-.00069	6.3772	.02037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.77**	**.03132**	**1.2092**	**.00094**	**.00287**
Stddev	.00	.00166	.0014	.00038	.00196
%RSD	.0175	5.3152	.11442	40.731	68.338
#1	27.77	.03014	1.2082	.00122	.00426
#2	27.77	.03249	1.2102	.00067	.00148
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.857**	**.00153**	**.07716**	**1.034**	**4.5815**
Stddev	.105	.00031	.00050	.003	.0195
%RSD	.23868	20.307	.64400	.2803	.42566
#1	43.783	.00131	.07681	1.036	4.5953
#2	43.931	.00174	.07751	1.032	4.5677
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193367-D-5-A Acquired: 12/15/2021 17:52:36 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00236**	**.06820**	**.10370**	**1.004**
Stddev	.00196	.00046	.00013	.001
%RSD	82.712	.67063	.12377	.1228
#1	-.00098	.06853	.10379	1.005
#2	-.00375	.06788	.10361	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3241.5**	**3325.8**	**29295.**	**3405.2**
Stddev	.0	2.1	6.	17.8
%RSD	.00140	.06277	.01898	.52276
#1	3241.5	3327.3	29291.	3417.8
#2	3241.4	3324.3	29299.	3392.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.497%	108.72%	109.39%	115.36%
Range				

Sample Name: 480-193384-D-1-A Acquired: 12/15/2021 17:56:16 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**.11687**	**.00241**	**.01012**	**.01010**
Stddev	.00020	.00142	.00127	.00013	.00003
%RSD	23.184	1.2182	52.572	1.3175	.26130
#1	-.00099	.11787	.00151	.01022	.01009
#2	-.00071	.11586	.00330	.01003	.01012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**5.0079**	**.00008**	**-.0105**	**.00025**
Stddev	.00006	.0086	.00008	.0382	.00002
%RSD	566.05	.17088	106.08	363.5	6.4166
#1	-.00005	5.0019	.00014	-.0375	.00026
#2	.00003	5.0140	.00002	.0165	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00044**	**2.3639**	**1.6965**	**.00451**
Stddev	.00013	.00083	.0127	.0103	.00214
%RSD	39.904	188.74	.53849	.60716	47.434
#1	-.00023	.00103	2.3549	1.7038	.00602
#2	-.00041	-.00015	2.3729	1.6892	.00300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193384-D-1-A Acquired: 12/15/2021 17:56:16 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7325**	**.09701**	**-.00117**	**14.915**	**.00093**
Stddev	.0035	.00025	.00009	.025	.00002
%RSD	.20190	.26249	7.8787	.16803	1.8203
#1	1.7349	.09719	-.00110	14.897	.00092
#2	1.7300	.09683	-.00123	14.932	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00283**	**2.2127**	**-.00261**	**.00238**
Stddev	.00	.00045	.0049	.00295	.00092
%RSD	.0032	15.853	.21948	113.33	38.812
#1	25.04	.00251	2.2093	-.00469	.00303
#2	25.04	.00315	2.2161	-.00052	.00172
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8545**	**-.00017**	**.02990**	**1.001**	**.00237**
Stddev	.0002	.00063	.00009	.004	.00040
%RSD	.00426	381.65	.29880	.4396	17.030
#1	3.8544	-.00061	.02983	.9977	.00266
#2	3.8546	.00028	.02996	1.004	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193384-D-1-A Acquired: 12/15/2021 17:56:16 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00032**	**.00394**	**.9987**
Stddev	.00176	.00028	.00019	.0007
%RSD	1111.4	85.628	4.7810	.0691
#1	.00109	.00013	.00407	.9992
#2	-.00140	.00052	.00380	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3419.5**	**3092.8**	**27274.**	**3099.1**
Stddev	3.8	1.5	78.	14.7
%RSD	.11129	.04713	.28567	.47339
#1	3422.2	3093.8	27219.	3109.4
#2	3416.8	3091.8	27330.	3088.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.633%	101.10%	101.84%	104.99%
Range				

Sample Name: 480-193384-C-2-A Acquired: 12/15/2021 17:59:59 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.12755**	**.00056**	**.01644**	**.01084**
Stddev	.00090	.01568	.00117	.00009	.00004
%RSD	108.18	12.291	207.16	.55397	.34567
#1	-.00020	.11646	-.00026	.01637	.01081
#2	-.00147	.13863	.00139	.01650	.01086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**6.2003**	**-.00002**	**-.0356**	**.00059**
Stddev	.00003	.0059	.00007	.0031	.00015
%RSD	78.277	.09511	318.94	8.811	25.840
#1	.00002	6.1961	.00003	-.0334	.00048
#2	.00005	6.2044	-.00007	-.0378	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00208**	**2.3932**	**1.8774**	**.00359**
Stddev	.00022	.00042	.0112	.0150	.00121
%RSD	314.30	20.362	.46664	.80170	33.745
#1	.00009	.00238	2.3853	1.8881	.00273
#2	-.00023	.00178	2.4011	1.8668	.00444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193384-C-2-A Acquired: 12/15/2021 17:59:59 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1010**	**.13987**	**-.00132**	**16.284**	**.00171**
Stddev	.0056	.00018	.00000	.015	.00005
%RSD	.26745	.13137	.30137	.09177	3.1685
#1	2.1049	.14000	-.00132	16.295	.00167
#2	2.0970	.13974	-.00133	16.274	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00279**	**3.6123**	**-.00211**	**-.00165**
Stddev	.00	.00119	.0002	.00011	.00035
%RSD	.0029	42.791	.00435	5.3108	20.996
#1	25.04	.00194	3.6124	-.00219	-.00140
#2	25.04	.00363	3.6122	-.00203	-.00189
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1650**	**.00009**	**.03560**	**1.002**	**.00263**
Stddev	.0107	.00041	.00005	.001	.00002
%RSD	.25689	467.85	.14293	.0588	.71462
#1	4.1725	-.00020	.03564	1.002	.00264
#2	4.1574	.00037	.03556	1.003	.00262
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193384-C-2-A Acquired: 12/15/2021 17:59:59 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00034**	**.00476**	**.9998**
Stddev	.00011	.00022	.00059	.0008
%RSD	13.770	65.002	12.440	.0831
#1	.00088	.00050	.00434	.9992
#2	.00072	.00018	.00517	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3389.8**	**3079.4**	**27342.**	**3127.0**
Stddev	.8	2.1	19.	11.7
%RSD	.02315	.06685	.06804	.37349
#1	3390.4	3080.8	27355.	3118.8
#2	3389.3	3077.9	27329.	3135.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.776%	100.66%	102.10%	105.94%
Range				

Sample Name: 480-193384-D-3-A Acquired: 12/15/2021 18:03:43 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.66352**	**.00313**	**.02589**	**.03230**
Stddev	.00133	.01969	.00066	.00004	.00008
%RSD	1379.8	2.9671	21.153	.13668	.24225
#1	-.00103	.67744	.00359	.02592	.03235
#2	.00084	.64960	.00266	.02587	.03224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**8.4498**	**.00006**	**.0121**	**.00274**
Stddev	.00004	.0194	.00011	.0649	.00005
%RSD	496.51	.23004	206.46	538.8	1.6690
#1	.00004	8.4636	-.00003	-.0339	.00271
#2	-.00002	8.4361	.00014	.0580	.00277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00225**	**.01562**	**20.370**	**3.6299**	**.00425**
Stddev	.00023	.00024	.040	.0267	.00177
%RSD	10.246	1.5443	.19826	.73582	41.562
#1	.00241	.01545	20.398	3.6110	.00550
#2	.00208	.01579	20.341	3.6488	.00300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193384-D-3-A Acquired: 12/15/2021 18:03:43 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2914**	**.44601**	**-.00119**	**5.4065**	**.00305**
Stddev	.0008	.00004	.00027	.0201	.00044
%RSD	.03321	.00990	23.006	.37097	14.545
#1	2.2909	.44597	-.00138	5.4207	.00274
#2	2.2920	.44604	-.00100	5.3924	.00337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.19**	**.01671**	**.96758**	**.00057**	**.00095**
Stddev	.00	.00115	.00253	.00183	.00205
%RSD	.0004	6.8668	.26150	322.15	216.99
#1	25.19	.01753	.96579	-.00073	-.00051
#2	25.19	.01590	.96937	.00186	.00240
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0680**	**.00084**	**.03989**	**1.010**	**.01865**
Stddev	.0118	.00057	.00031	.008	.00053
%RSD	.29081	68.293	.77669	.8295	2.8159
#1	4.0596	.00124	.04011	1.016	.01902
#2	4.0763	.00043	.03967	1.004	.01828
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193384-D-3-A Acquired: 12/15/2021 18:03:43 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00143**	**.02827**	**.9989**
Stddev	.00084	.00023	.00018	.0007
%RSD	194.45	16.100	.65321	.0705
#1	.00016	.00127	.02840	.9984
#2	-.00103	.00160	.02814	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3399.4**	**3097.9**	**27419.**	**3125.7**
Stddev	9.0	4.5	3.	29.8
%RSD	.26361	.14610	.01098	.95337
#1	3393.1	3094.7	27422.	3104.6
#2	3405.8	3101.1	27417.	3146.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.053%	101.27%	102.38%	105.89%
Range				

Sample Name: MB 480-608733/1-A Acquired: 12/15/2021 18:07:26 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.01703**	**.00066**	**-.00150**	**-.00005**
Stddev	.00013	.01964	.00072	.00001	.00002
%RSD	21.564	115.36	108.55	.92339	37.113
#1	-.00051	.03092	.00015	-.00149	-.00007
#2	-.00069	.00314	.00117	-.00151	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.03644**	**-.00002**	**-.0352**	**-.00023**
Stddev	.00003	.00270	.00012	.0332	.00004
%RSD	37.172	7.4024	573.32	94.31	16.835
#1	-.00011	.03835	-.00010	-.0586	-.00020
#2	-.00007	.03453	.00006	-.0117	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00107**	**-.00190**	**.03255**	**.00379**
Stddev	.00004	.00017	.00291	.02316	.00101
%RSD	55.261	15.824	153.22	71.168	26.675
#1	-.00010	.00118	-.00395	.01617	.00307
#2	-.00004	.00095	.00016	.04893	.00450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608733/1-A Acquired: 12/15/2021 18:07:26 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00327**	**.00006**	**-.00129**	**.02254**	**.00027**
Stddev	.00100	.00009	.00008	.00223	.00003
%RSD	30.487	152.49	5.8887	9.9108	10.378
#1	.00256	.00013	-.00134	.02096	.00025
#2	.00397	-.00000	-.00124	.02412	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00029**	**.00856**	**-.00009**	**-.00248**
Stddev	.00	.00028	.00205	.00161	.00264
%RSD	.0003	96.182	23.963	1846.0	106.73
#1	25.01	.00009	.00711	-.00122	-.00061
#2	25.01	.00048	.01001	.00105	-.00434
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01951**	**.00076**	**.00011**	**.9990**	**-.00017**
Stddev	.01323	.00032	.00005	.0090	.00007
%RSD	67.836	41.883	43.629	.9038	39.805
#1	-.01015	.00054	.00015	1.005	-.00022
#2	-.02886	.00099	.00008	.9926	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608733/1-A Acquired: 12/15/2021 18:07:26 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00001**	**.00617**	**.9990**
Stddev	.00078	.00027	.00015	.0011
%RSD	538.54	5105.8	2.4195	.1133
#1	.00069	.00019	.00628	.9982
#2	-.00041	-.00018	.00607	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3516.2**	**3113.9**	**27735.**	**3124.3**
Stddev	.1	2.7	30.	23.8
%RSD	.00220	.08696	.10839	.76173
#1	3516.1	3115.9	27757.	3107.5
#2	3516.2	3112.0	27714.	3141.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.42%	101.80%	103.56%	105.85%
Range				

Sample Name: LCS 480-608733/2-A Acquired: 12/15/2021 18:11:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05018**	**10.076**	**.20181**	**.20629**	**.21045**
Stddev	.00014	.052	.00001	.00050	.00044
%RSD	.28753	.51251	.00413	.24307	.20746
#1	.05029	10.039	.20181	.20665	.21076
#2	.05008	10.112	.20180	.20594	.21015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20444**	**10.031**	**.19583**	**-.0956**	**.20061**
Stddev	.00051	.037	.00056	.0539	.00032
%RSD	.25089	.36524	.28509	56.38	.15827
#1	.20408	10.005	.19623	-.0575	.20084
#2	.20480	10.057	.19544	-.1338	.20039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19705**	**.20793**	**10.342**	**9.8843**	**.19555**
Stddev	.00058	.00121	.023	.0214	.00023
%RSD	.29189	.58077	.22427	.21629	.11918
#1	.19665	.20878	10.325	9.8994	.19538
#2	.19746	.20707	10.358	9.8692	.19571
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608733/2-A Acquired: 12/15/2021 18:11:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6661**	**.20033**	**.20743**	**9.4002**	**.18803**
Stddev	.0206	.00005	.00071	.0387	.00062
%RSD	.21283	.02272	.34143	.41140	.33229
#1	9.6515	.20030	.20793	9.3729	.18847
#2	9.6806	.20036	.20693	9.4276	.18759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.85**	**.20502**	**10.010**	**.20934**	**.19665**
Stddev	.00	.00111	.018	.00158	.00060
%RSD	.0002	.54234	.17936	.75469	.30547
#1	24.85	.20580	10.023	.21046	.19707
#2	24.85	.20423	9.9973	.20822	.19622
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4907**	**.19239**	**.19194**	**1.003**	**.20707**
Stddev	.0592	.00024	.00021	.001	.00004
%RSD	.62434	.12391	.11159	.0788	.02109
#1	9.4488	.19256	.19179	1.002	.20710
#2	9.5326	.19222	.19209	1.003	.20704
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608733/2-A Acquired: 12/15/2021 18:11:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20121**	**.19964**	**.20429**	**1.004**
Stddev	.00044	.00038	.00171	.000
%RSD	.21726	.19158	.83554	.0160
#1	.20090	.19937	.20550	1.004
#2	.20152	.19991	.20308	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3321.6**	**3075.5**	**27151.**	**3103.0**
Stddev	.7	2.7	117.	36.4
%RSD	.01965	.08916	.42959	1.1745
#1	3322.0	3077.5	27069.	3128.8
#2	3321.1	3073.6	27234.	3077.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.807%	100.54%	101.38%	105.13%
Range				

Sample Name: 480-193309-D-1-A Acquired: 12/15/2021 18:14:49 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**1.4757**	**.00384**	**.04583**	**.24630**
Stddev	.00085	.0211	.00209	.00004	.00065
%RSD	211.25	1.4271	54.478	.08661	.26462
#1	-.00100	1.4608	.00532	.04586	.24584
#2	.00020	1.4906	.00236	.04580	.24676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**150.96**	**.00022**	**-.0288**	**.00048**
Stddev	.00003	.36	.00006	.0471	.00012
%RSD	27.941	.23586	26.400	163.6	25.955
#1	-.00009	150.71	.00018	.0045	.00056
#2	-.00013	151.21	.00026	-.0620	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00140**	**.00359**	**4.1972**	**1.2436**	**.01130**
Stddev	.00015	.00039	.0216	.0153	.00192
%RSD	10.657	10.976	.51513	1.2279	16.959
#1	.00129	.00387	4.1819	1.2544	.00994
#2	.00151	.00331	4.2125	1.2329	.01265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-1-A Acquired: 12/15/2021 18:14:49 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.764**	**.31430**	**.00104**	**68.706**	**.00225**
Stddev	.067	.00078	.00012	.693	.00006
%RSD	.42370	.24873	11.233	1.0080	2.7757
#1	15.811	.31485	.00096	68.216	.00229
#2	15.716	.31375	.00113	69.195	.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00746**	**3.2801**	**-.00163**	**.00200**
Stddev	.00	.00137	.0027	.00106	.00102
%RSD	.0014	18.376	.08137	65.162	50.828
#1	25.07	.00843	3.2820	-.00238	.00272
#2	25.07	.00649	3.2783	-.00088	.00128
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6981**	**.00024**	**.31628**	**1.002**	**.03356**
Stddev	.1190	.00024	.00025	.001	.00152
%RSD	1.2273	96.309	.08033	.0581	4.5320
#1	9.6139	.00041	.31610	1.003	.03249
#2	9.7822	.00008	.31646	1.002	.03464
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-1-A Acquired: 12/15/2021 18:14:49 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00243**	**.00713**	**.9989**
Stddev	.00060	.00011	.00059	.0006
%RSD	86.541	4.3733	8.2539	.0594
#1	.00027	.00250	.00671	.9985
#2	.00113	.00235	.00754	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3072.0**	**2955.5**	**26056.**	**3044.6**
Stddev	2.3	2.0	43.	4.2
%RSD	.07649	.06706	.16577	.13873
#1	3070.3	2954.1	26086.	3041.6
#2	3073.6	2956.9	26025.	3047.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.609%	96.617%	97.291%	103.15%
Range				

Sample Name: 480-193309-D-2-A Acquired: 12/15/2021 18:18:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**1.9245**	**.00951**	**.04526**	**.25115**
Stddev	.00034	.0356	.00012	.00023	.00062
%RSD	47.960	1.8491	1.2165	.49746	.24497
#1	-.00046	1.8993	.00959	.04510	.25158
#2	-.00094	1.9497	.00943	.04542	.25071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**110.95**	**.00020**	**-.0024**	**.00075**
Stddev	.00005	.10	.00027	.0130	.00007
%RSD	171.04	.09151	135.55	538.8	9.6106
#1	.00007	111.03	.00039	.0068	.00080
#2	-.00001	110.88	.00001	-.0116	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00279**	**.00314**	**6.0598**	**2.1956**	**.00664**
Stddev	.00005	.00002	.0014	.0736	.00098
%RSD	1.8490	.73818	.02370	3.3547	14.701
#1	.00283	.00315	6.0588	2.2477	.00733
#2	.00275	.00312	6.0609	2.1435	.00595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-2-A Acquired: 12/15/2021 18:18:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.428**	**.35374**	**.00375**	**93.798**	**.00464**
Stddev	.006	.00074	.00003	.058	.00003
%RSD	.04537	.20816	.79386	.06188	.66406
#1	13.432	.35426	.00373	93.840	.00462
#2	13.424	.35322	.00377	93.757	.00467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.11**	**.00914**	**4.5514**	**.00018**	**-.00013**
Stddev	.00	.00075	.0057	.00068	.00053
%RSD	.0007	8.2098	.12524	369.74	405.94
#1	25.11	.00967	4.5474	.00067	-.00050
#2	25.11	.00861	4.5554	-.00030	.00024
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3815**	**.00049**	**.23506**	**1.002**	**.04037**
Stddev	.0706	.00039	.00055	.001	.00071
%RSD	.84226	78.470	.23472	.1363	1.7534
#1	8.3316	.00022	.23467	1.003	.03987
#2	8.4314	.00076	.23545	1.001	.04087
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-2-A Acquired: 12/15/2021 18:18:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00302**	**.02527**	**.9994**
Stddev	.00050	.00025	.00018	.0008
%RSD	52.602	8.1564	.73034	.0825
#1	.00060	.00320	.02540	1.0000
#2	.00130	.00285	.02514	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3084.4**	**2967.8**	**26161.**	**3054.6**
Stddev	5.0	1.3	55.	5.2
%RSD	.16087	.04233	.21214	.17046
#1	3087.9	2966.9	26122.	3058.3
#2	3080.9	2968.7	26201.	3051.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.966%	97.019%	97.686%	103.49%
Range				

Sample Name: 480-193309-D-3-A Acquired: 12/15/2021 18:22:15 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.09977**	**.00166**	**.03326**	**.11826**
Stddev	.00018	.00149	.00181	.00021	.00006
%RSD	87.759	1.4980	108.80	.63374	.05206
#1	.00008	.10083	.00038	.03311	.11822
#2	.00034	.09872	.00294	.03341	.11830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**81.320**	**.00002**	**-.0243**	**-.00012**
Stddev	.00002	.496	.00002	.0619	.00009
%RSD	70.597	.60965	105.16	254.7	75.992
#1	.00001	81.670	.00004	.0195	-.00018
#2	.00003	80.969	.00001	-.0680	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00181**	**1.5531**	**3.0548**	**.00566**
Stddev	.00005	.00087	.0030	.0199	.00088
%RSD	34.602	48.114	.19561	.65065	15.532
#1	.00018	.00120	1.5553	3.0408	.00628
#2	.00011	.00243	1.5510	3.0689	.00503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-3-A Acquired: 12/15/2021 18:22:15 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7153**	**.13934**	**-.00110**	**71.215**	**.00060**
Stddev	.0252	.00086	.00017	.750	.00014
%RSD	.25982	.61537	15.100	1.0526	23.375
#1	9.6974	.13994	-.00121	71.745	.00070
#2	9.7331	.13873	-.00098	70.685	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.08**	**.00139**	**2.0192**	**-.00131**	**-.00053**
Stddev	.00	.00067	.0016	.00186	.00010
%RSD	.0006	48.180	.07960	142.49	19.527
#1	25.08	.00187	2.0181	.00001	-.00060
#2	25.08	.00092	2.0203	-.00262	-.00045
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2498**	**.00041**	**.22255**	**.9968**	**.00235**
Stddev	.0075	.00034	.00160	.0070	.00003
%RSD	.17733	82.993	.72083	.6992	1.1417
#1	4.2551	.00066	.22369	.9919	.00233
#2	4.2445	.00017	.22142	1.002	.00236
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-3-A Acquired: 12/15/2021 18:22:15 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00035**	**.00112**	**1.000**
Stddev	.00187	.00018	.00044	.001
%RSD	393.36	50.428	39.054	.0467
#1	.00180	.00023	.00144	.9998
#2	-.00085	.00048	.00081	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3138.6**	**2983.2**	**26186.**	**3079.5**
Stddev	1.2	.4	68.	41.1
%RSD	.03854	.01495	.26114	1.3350
#1	3137.7	2983.5	26234.	3050.4
#2	3139.4	2982.9	26137.	3108.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.530%	97.521%	97.777%	104.33%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 18:26:01 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0247**	**50.293**	**.96314**	**1.0419**	**.97209**
Stddev	.0039	.109	.00282	.0013	.00217
%RSD	.37588	.21668	.29266	.12289	.22337
#1	1.0220	50.370	.96513	1.0410	.97363
#2	1.0275	50.216	.96115	1.0428	.97056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97000**	**49.971**	**.96869**	**.9901**	**1.0206**
Stddev	.00499	.204	.00076	.0613	.0008
%RSD	.51412	.40832	.07812	6.190	.07524
#1	.97353	50.116	.96816	1.033	1.0200
#2	.96648	49.827	.96923	.9467	1.0211
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99232**	**1.0204**	**49.965**	**49.079**	**.97207**
Stddev	.00024	.0018	.153	.214	.00329
%RSD	.02392	.17988	.30540	.43520	.33796
#1	.99249	1.0217	50.073	49.230	.97440
#2	.99215	1.0191	49.857	48.928	.96975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 18:26:01 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.873**	**.97325**	**1.0193**	**47.679**	**.96055**
Stddev	.305	.00369	.0010	.207	.00084
%RSD	.65071	.37965	.10067	.43400	.08790
#1	46.657	.97064	1.0186	47.825	.95995
#2	47.089	.97586	1.0201	47.532	.96115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.73**	**1.0133**	**25.620**	**.96564**	**.99666**
Stddev	.02	.0015	.013	.00311	.00385
%RSD	.0444	.14395	.05215	.32157	.38654
#1	37.72	1.0123	25.611	.96344	.99938
#2	37.75	1.0143	25.629	.96784	.99394
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9362**	**1.0080**	**.94950**	**1.506**	**1.0170**
Stddev	.0167	.0006	.00444	.009	.0010
%RSD	.16801	.05881	.46788	.6188	.10071
#1	9.9480	1.0084	.95264	1.499	1.0177
#2	9.9244	1.0075	.94636	1.513	1.0163
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 18:26:01 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99312**	**1.0010**	**1.0153**	**1.505**
Stddev	.00343	.0027	.0037	.000
%RSD	.34535	.27399	.36109	.0174
#1	.99555	.99909	1.0127	1.505
#2	.99070	1.0030	1.0179	1.505
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3022.6**	**2990.2**	**25940.**	**3026.1**
Stddev	9.0	11.8	11.	35.8
%RSD	.29900	.39375	.04068	1.1822
#1	3029.0	2998.6	25932.	3000.8
#2	3016.2	2981.9	25947.	3051.4

Sample Name: CCB-6810114 Acquired: 12/15/2021 18:29:35 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00929**	**.00249**	**-.00075**	**-.00001**
Stddev	.00083	.00093	.00118	.00014	.00004
%RSD	543.99	10.014	47.527	18.223	301.78
#1	.00074	-.00863	.00333	-.00065	-.00004
#2	-.00043	-.00994	.00165	-.00085	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00365**	**-.00004**	**-.0183**	**-.00013**
Stddev	.00000	.00174	.00000	.0047	.00013
%RSD	13.726	47.710	2.0896	25.94	104.05
#1	.00003	.00489	-.00004	-.0216	-.00003
#2	.00003	.00242	-.00004	-.0149	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00027**	**.00091**	**-.01977**	**.00204**
Stddev	.00009	.00042	.00143	.01063	.00170
%RSD	340.07	155.37	156.57	53.767	83.636
#1	.00009	.00057	-.00010	-.01225	.00324
#2	-.00004	-.00003	.00192	-.02729	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 18:29:35 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**-.00006**	**.00036**	**.02351**	**.00052**
Stddev	.00315	.00000	.00020	.00643	.00017
%RSD	387.12	.47513	56.507	27.356	32.896
#1	.00304	-.00006	.00022	.02805	.00040
#2	-.00141	-.00006	.00050	.01896	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00127**	**.00190**	**.00017**	**.00282**
Stddev	.00	.00070	.00081	.00017	.00195
%RSD	.0065	54.977	42.780	101.28	69.034
#1	25.01	.00176	.00133	.00029	.00144
#2	25.01	.00078	.00248	.00005	.00419
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00452**	**.00005**	**.00011**	**1.010**	**-.00001**
Stddev	.00898	.00019	.00002	.004	.00039
%RSD	198.44	394.21	21.494	.3885	5144.7
#1	.00182	.00019	.00013	1.007	-.00028
#2	-.01087	-.00009	.00009	1.013	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 18:29:35 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00042**	**-.00008**	**-.00023**	**.9994**
Stddev	.00052	.00029	.00074	.0000
%RSD	125.31	367.58	328.12	.0026
#1	.00079	.00013	.00030	.9994
#2	.00005	-.00028	-.00075	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3477.5**	**3069.9**	**27369.**	**3052.2**
Stddev	3.4	1.7	5.	13.6
%RSD	.09876	.05446	.01920	.44539
#1	3480.0	3071.1	27365.	3042.6
#2	3475.1	3068.8	27372.	3061.8

Sample Name: CCVL-6811103 Acquired: 12/15/2021 18:33:24 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00552**	**.21514**	**.01411**	**.01880**	**.00205**
Stddev	.00011	.01507	.00200	.00027	.00003
%RSD	1.9379	7.0062	14.181	1.4414	1.6602
#1	.00544	.22580	.01270	.01899	.00208
#2	.00560	.20448	.01553	.01860	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00192**	**.50117**	**.00199**	**-.0754**	**.00356**
Stddev	.00004	.00193	.00002	.0740	.00005
%RSD	1.8769	.38488	1.2503	98.12	1.5387
#1	.00190	.50253	.00197	-.0231	.00352
#2	.00195	.49981	.00201	-.1278	.00360
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00373**	**.01074**	**.04735**	**.45834**	**.02926**
Stddev	.00050	.00013	.00070	.00477	.00128
%RSD	13.363	1.2349	1.4859	1.0408	4.3833
#1	.00408	.01064	.04685	.46172	.03017
#2	.00338	.01083	.04785	.45497	.02836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 18:33:24 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18055**	**.00291**	**.00941**	**.93940**	**.00923**
Stddev	.00054	.00003	.00005	.00448	.00011
%RSD	.30075	1.0354	.48575	.47728	1.1503
#1	.18093	.00293	.00944	.93623	.00930
#2	.18016	.00289	.00938	.94257	.00915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01074**	**.19698**	**.01961**	**.02109**
Stddev	.00	.00080	.00109	.00084	.00103
%RSD	.0016	7.4691	.55413	4.2651	4.9064
#1	25.00	.01131	.19621	.01902	.02183
#2	25.00	.01017	.19775	.02020	.02036
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46955**	**.00943**	**.00477**	F **1.004**	**.00473**
Stddev	.01478	.00031	.00001	.004	.00008
%RSD	3.1467	3.3402	.15075	.4272	1.6285
#1	.48000	.00921	.00477	1.007	.00467
#2	.45910	.00965	.00478	1.001	.00478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 18:33:24 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01866**	**.00457**	**.00980**	F **.9994**
Stddev	.00029	.00005	.00006	.0009
%RSD	1.5540	1.0313	.65174	.0895
#1	.01887	.00460	.00975	.9988
#2	.01846	.00454	.00984	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3474.3**	**3088.2**	**27386.**	**3036.9**
Stddev	10.0	8.0	8.	10.9
%RSD	.28672	.25789	.03099	.35984
#1	3467.3	3082.5	27392.	3044.7
#2	3481.4	3093.8	27380.	3029.2

Sample Name: 480-193309-D-3-ASD@5 Acquired: 12/15/2021 18:37:11 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00133**	**.03431**	**.00193**	**.00521**	**.02361**
Stddev	.00023	.00873	.00060	.00081	.00003
%RSD	17.072	25.447	30.985	15.574	.10780
#1	-.00117	.04049	.00151	.00579	.02363
#2	-.00149	.02814	.00236	.00464	.02359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**16.114**	**.00011**	**-.0729**	**-.00019**
Stddev	.00003	.071	.00003	.0429	.00010
%RSD	36.629	.44038	31.778	58.82	50.558
#1	-.00007	16.064	.00013	-.0426	-.00026
#2	-.00011	16.164	.00009	-.1032	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00071**	**.31151**	**.60431**	**.00370**
Stddev	.00049	.00066	.00399	.02653	.00049
%RSD	98.091	92.906	1.2809	4.3897	13.120
#1	-.00015	.00118	.30869	.62307	.00336
#2	-.00084	.00024	.31434	.58555	.00404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-3-ASD@5 Acquired: 12/15/2021 18:37:11 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9765**	**.02814**	**-.00097**	**13.522**	**.00033**
Stddev	.0092	.00006	.00015	.065	.00014
%RSD	.46764	.21113	15.940	.47791	42.110
#1	1.9830	.02810	-.00108	13.476	.00023
#2	1.9700	.02818	-.00086	13.568	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00018**	**.38336**	**.00010**	**-.00128**
Stddev	.00	.00026	.00093	.00013	.00027
%RSD	.0042	147.22	.24380	126.97	20.843
#1	25.02	.00036	.38270	.00001	-.00109
#2	25.02	-.00001	.38402	.00019	-.00147
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.83665**	**-.00012**	**.04540**	**.9973**	**.00063**
Stddev	.00306	.00057	.00006	.0031	.00084
%RSD	.36516	487.21	.14109	.3138	133.47
#1	.83881	.00028	.04545	.9951	.00123
#2	.83449	-.00052	.04536	.9995	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-3-ASD@5 Acquired: 12/15/2021 18:37:11 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00031**	**-.00014**	**.00016**	**.9984**
Stddev	.00039	.00005	.00032	.0006
%RSD	125.06	36.560	204.77	.0646
#1	-.00058	-.00010	-.00007	.9980
#2	-.00004	-.00017	.00038	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3362.2**	**3057.8**	**27001.**	**3060.6**
Stddev	2.5	4.8	48.	18.0
%RSD	.07352	.15833	.17752	.58960
#1	3360.5	3054.4	26967.	3073.4
#2	3364.0	3061.3	27035.	3047.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.980%	99.961%	100.82%	103.69%
Range				

Sample Name: 480-193309-D-3-APDS Acquired: 12/15/2021 18:40:56 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05083**	**10.077**	**.20687**	**.23933**	**.31933**
Stddev	.00099	.009	.00161	.00008	.00018
%RSD	1.9565	.08748	.77936	.03399	.05674
#1	.05012	10.071	.20801	.23928	.31920
#2	.05153	10.083	.20573	.23939	.31945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20685**	**89.284**	**.19781**	**-.0464**	**.20488**
Stddev	.00124	.467	.00076	.0252	.00044
%RSD	.59918	.52315	.38506	54.38	.21426
#1	.20597	88.953	.19728	-.0286	.20519
#2	.20772	89.614	.19835	-.0642	.20457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19666**	**.20921**	**11.789**	**12.693**	**.19783**
Stddev	.00029	.00089	.026	.126	.00103
%RSD	.14908	.42378	.22473	.98895	.51841
#1	.19687	.20984	11.771	12.604	.19711
#2	.19646	.20858	11.808	12.782	.19856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-3-APDS Acquired: 12/15/2021 18:40:56 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.893**	**.33092**	**.20942**	**78.930**	**.19156**
Stddev	.101	.00128	.00008	.188	.00077
%RSD	.53661	.38671	.03692	.23850	.40276
#1	18.822	.33001	.20936	78.796	.19101
#2	18.965	.33182	.20947	79.063	.19210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.91**	**.20979**	**11.132**	**.20431**	**.20088**
Stddev	.00	.00015	.021	.00308	.00442
%RSD	.0001	.06956	.19208	1.5069	2.2022
#1	24.91	.20969	11.147	.20649	.20401
#2	24.91	.20990	11.117	.20213	.19775
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.751**	**.19855**	**.40423**	**1.009**	**.21150**
Stddev	.073	.00036	.00169	.004	.00081
%RSD	.53209	.18083	.41792	.4234	.38485
#1	13.700	.19880	.40304	1.006	.21092
#2	13.803	.19829	.40543	1.012	.21207
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-3-APDS Acquired: 12/15/2021 18:40:56 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20313**	**.20353**	**.20412**	**1.006**
Stddev	.00003	.00053	.00140	.001
%RSD	.01683	.26194	.68535	.1064
#1	.20316	.20316	.20313	1.007
#2	.20311	.20391	.20511	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3097.1**	**2996.1**	**26287.**	**3077.8**
Stddev	.3	.5	70.	21.6
%RSD	.00834	.01826	.26604	.70110
#1	3096.9	2995.7	26336.	3093.1
#2	3097.3	2996.5	26237.	3062.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.332%	97.944%	98.154%	104.27%
Range				

Sample Name: 480-193309-D-3-B MS Acquired: 12/15/2021 18:44:30 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05032**	**10.033**	**.20392**	**.23972**	**.32147**
Stddev	.00138	.052	.00157	.00029	.00025
%RSD	2.7405	.52179	.77008	.12261	.07703
#1	.05129	9.9956	.20281	.23951	.32165
#2	.04934	10.070	.20503	.23993	.32129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20036**	**90.988**	**.19303**	**-.0423**	**.20155**
Stddev	.00083	.246	.00027	.0291	.00002
%RSD	.41374	.27062	.14000	68.75	.00888
#1	.19978	90.814	.19284	-.0217	.20156
#2	.20095	91.162	.19323	-.0628	.20154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19220**	**.20429**	**11.590**	**12.743**	**.19400**
Stddev	.00006	.00010	.006	.054	.00222
%RSD	.03379	.05139	.05484	.42025	1.1428
#1	.19216	.20436	11.594	12.705	.19243
#2	.19225	.20421	11.585	12.781	.19557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-3-B MS Acquired: 12/15/2021 18:44:30 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.964**	**.32971**	**.20516**	**80.120**	**.18780**
Stddev	.004	.00001	.00023	.144	.00022
%RSD	.02224	.00158	.11329	.17979	.11623
#1	18.961	.32971	.20533	80.018	.18765
#2	18.967	.32972	.20500	80.222	.18796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.92**	**.20630**	**12.200**	**.20383**	**.19431**
Stddev	.00	.00039	.007	.00270	.00023
%RSD	.0021	.19059	.05456	1.3270	.11984
#1	24.92	.20603	12.195	.20192	.19448
#2	24.92	.20658	12.205	.20574	.19415
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.813**	**.19474**	**.40927**	**1.005**	**.20665**
Stddev	.028	.00004	.00011	.012	.00007
%RSD	.20548	.01946	.02681	1.186	.03415
#1	13.793	.19472	.40920	1.013	.20660
#2	13.833	.19477	.40935	.9966	.20670
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-3-B MS Acquired: 12/15/2021 18:44:30 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19804**	**.19776**	**.20290**	**1.002**
Stddev	.00199	.00164	.00003	.001
%RSD	1.0047	.83157	.01342	.0634
#1	.19945	.19892	.20292	1.001
#2	.19664	.19660	.20288	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3081.2**	**2987.6**	**26303.**	**3095.5**
Stddev	5.4	5.5	103.	16.9
%RSD	.17584	.18249	.39088	.54726
#1	3085.1	2991.4	26230.	3107.5
#2	3077.4	2983.7	26376.	3083.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.875%	97.665%	98.215%	104.87%
Range				

Sample Name: 480-193309-D-3-C MSD Acquired: 12/15/2021 18:48:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05180**	**10.242**	**.20501**	**.24240**	**.32446**
Stddev	.00032	.006	.00211	.00129	.00060
%RSD	.61534	.05647	1.0283	.53091	.18534
#1	.05202	10.246	.20352	.24331	.32404
#2	.05157	10.238	.20650	.24149	.32489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20503**	**91.682**	**.19604**	**-.0248**	**.20442**
Stddev	.00037	.075	.00048	.0066	.00011
%RSD	.18131	.08190	.24407	26.66	.05321
#1	.20529	91.735	.19638	-.0201	.20449
#2	.20476	91.629	.19571	-.0295	.20434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19477**	**.20733**	**11.779**	**12.894**	**.19867**
Stddev	.00079	.00202	.035	.047	.00118
%RSD	.40356	.97549	.29393	.36257	.59586
#1	.19422	.20590	11.803	12.927	.19951
#2	.19533	.20876	11.754	12.861	.19784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-3-C MSD Acquired: 12/15/2021 18:48:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.089**	**.33286**	**.20801**	**81.178**	**.19060**
Stddev	.071	.00056	.00015	.417	.00060
%RSD	.37041	.16749	.07236	.51407	.31392
#1	19.039	.33246	.20812	80.883	.19103
#2	19.139	.33325	.20790	81.473	.19018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.92**	**.20787**	**12.367**	**.20695**	**.19836**
Stddev	.00	.00027	.013	.00419	.00118
%RSD	.0029	.13031	.10689	2.0226	.59677
#1	24.92	.20806	12.376	.20991	.19920
#2	24.92	.20768	12.358	.20399	.19752
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.897**	**.19812**	**.41363**	**1.011**	**.20945**
Stddev	.003	.00016	.00235	.007	.00104
%RSD	.02080	.08214	.56705	.6924	.49429
#1	13.899	.19823	.41529	1.006	.20872
#2	13.895	.19800	.41198	1.016	.21019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193309-D-3-C MSD Acquired: 12/15/2021 18:48:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20166**	**.20028**	**.20383**	**1.001**
Stddev	.00099	.00101	.00059	.000
%RSD	.49129	.50654	.29182	.0441
#1	.20096	.19956	.20341	1.001
#2	.20237	.20099	.20425	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3086.0**	**2991.4**	**26334.**	**3082.5**
Stddev	4.1	1.3	127.	6.7
%RSD	.13326	.04331	.48326	.21835
#1	3088.9	2992.4	26424.	3087.3
#2	3083.1	2990.5	26244.	3077.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.013%	97.791%	98.332%	104.43%
Range				

Sample Name: 480-193330-C-1-A Acquired: 12/15/2021 18:51:38 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**3.0953**	**.00287**	**.88465**	**.06953**
Stddev	.00062	.0086	.00075	.00022	.00012
%RSD	1324.9	.27763	26.253	.02478	.16746
#1	.00048	3.1013	.00340	.88450	.06945
#2	-.00039	3.0892	.00234	.88481	.06961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**20.016**	**.00008**	**-.0567**	**.00066**
Stddev	.00007	.010	.00025	.0449	.00014
%RSD	54.615	.04815	334.23	79.22	20.957
#1	.00018	20.009	.00026	-.0249	.00076
#2	.00008	20.023	-.00010	-.0884	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00356**	**.00159**	**2.4069**	**2.7746**	**.01209**
Stddev	.00036	.00078	.0021	.0158	.00145
%RSD	10.064	49.061	.08883	.56811	12.021
#1	.00381	.00104	2.4054	2.7635	.01106
#2	.00330	.00214	2.4084	2.7858	.01312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-C-1-A Acquired: 12/15/2021 18:51:38 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.7489**	**.04043**	**.11838**	**73.273**	**.00293**
Stddev	.0497	.00025	.00005	.350	.00035
%RSD	.73639	.62604	.03923	.47752	11.806
#1	6.7840	.04061	.11841	73.026	.00269
#2	6.7137	.04025	.11834	73.520	.00318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00542**	**.22308**	**-.00075**	**-.00303**
Stddev	.00	.00117	.00355	.00137	.00060
%RSD	.0002	21.648	1.5915	183.02	19.750
#1	25.03	.00459	.22559	-.00172	-.00345
#2	25.03	.00625	.22057	.00022	-.00261
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.663**	**.00121**	**.70448**	**.9982**	**.10045**
Stddev	.083	.00015	.00054	.0035	.00830
%RSD	.71264	12.320	.07697	.3489	8.2650
#1	11.604	.00132	.70409	1.001	.10632
#2	11.721	.00111	.70486	.9958	.09458
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-C-1-A Acquired: 12/15/2021 18:51:38 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00127**	**.00777**	**.00610**	**1.002**
Stddev	.00180	.00058	.00031	.000
%RSD	141.55	7.4010	5.0291	.0111
#1	-.00000	.00737	.00632	1.002
#2	.00255	.00818	.00588	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3201.0**	**3034.8**	**26639.**	**3086.6**
Stddev	6.5	2.0	173.	6.8
%RSD	.20277	.06577	.64877	.22109
#1	3196.4	3033.4	26517.	3081.8
#2	3205.6	3036.2	26761.	3091.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.331%	99.207%	99.470%	104.57%
Range				

Sample Name: 480-193330-C-2-A Acquired: 12/15/2021 18:55:20 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**3.9076**	**-.00088**	**.74001**	**.05814**
Stddev	.00001	.0233	.00025	.00019	.00019
%RSD	5.0895	.59546	27.744	.02587	.33086
#1	-.00027	3.9240	-.00106	.74014	.05801
#2	-.00029	3.8911	-.00071	.73987	.05828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**14.853**	**.00011**	**-.0095**	**.00084**
Stddev	.00002	.039	.00010	.0384	.00024
%RSD	19.360	.25936	91.243	404.6	29.102
#1	.00010	14.826	.00018	.0177	.00067
#2	.00013	14.880	.00004	-.0367	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00428**	**.00277**	**2.7402**	**2.4548**	**.01332**
Stddev	.00009	.00036	.0118	.0488	.00092
%RSD	2.0935	13.013	.42917	1.9857	6.9445
#1	.00435	.00251	2.7319	2.4204	.01397
#2	.00422	.00302	2.7485	2.4893	.01267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-C-2-A Acquired: 12/15/2021 18:55:20 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6157**	**.04239**	**.06050**	**76.172**	**.00324**
Stddev	.0096	.00015	.00046	.223	.00002
%RSD	.17025	.35079	.76365	.29303	.47376
#1	5.6089	.04229	.06082	76.330	.00325
#2	5.6224	.04250	.06017	76.015	.00323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00562**	**.85529**	**-.00055**	**-.00164**
Stddev	.00	.00061	.00111	.00146	.00170
%RSD	.0001	10.882	.12955	266.00	104.04
#1	25.04	.00605	.85451	.00048	-.00284
#2	25.04	.00519	.85607	-.00158	-.00043
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.721**	**.00088**	**.45373**	**.9967**	**.10731**
Stddev	.037	.00020	.00147	.0007	.00177
%RSD	.29240	22.622	.32414	.0654	1.6462
#1	12.748	.00074	.45269	.9972	.10606
#2	12.695	.00102	.45477	.9963	.10856
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-C-2-A Acquired: 12/15/2021 18:55:20 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00813**	**.00650**	**1.000**
Stddev	.00058	.00028	.00014	.000
%RSD	390.86	3.4609	2.1939	.0291
#1	-.00055	.00794	.00640	1.000
#2	.00026	.00833	.00660	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3187.4**	**3024.8**	**26823.**	**3120.1**
Stddev	1.1	.8	26.	21.9
%RSD	.03314	.02718	.09865	.70333
#1	3188.2	3025.4	26842.	3135.6
#2	3186.7	3024.2	26804.	3104.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.939%	98.881%	100.16%	105.70%
Range				

Sample Name: 480-193330-C-3-A Acquired: 12/15/2021 18:59:03 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.02903**	**.00016**	**.17157**	**.23277**
Stddev	.00052	.03389	.00125	.00065	.00010
%RSD	215.37	116.73	789.83	.37917	.04098
#1	.00013	.00507	.00104	.17203	.23284
#2	-.00061	.05299	-.00073	.17111	.23271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**38.475**	**.00015**	**-.0266**	**-.00022**
Stddev	.00005	.008	.00011	.0413	.00007
%RSD	91.070	.01997	73.314	154.9	30.657
#1	-.00010	38.470	.00023	-.0558	-.00027
#2	-.00002	38.481	.00007	.0025	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00092**	**.35389**	**1.3112**	**.01377**
Stddev	.00007	.00062	.00372	.0283	.00073
%RSD	116.57	66.922	1.0519	2.1555	5.2918
#1	-.00012	.00136	.35652	1.3312	.01325
#2	-.00001	.00049	.35126	1.2912	.01428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-C-3-A Acquired: 12/15/2021 18:59:03 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.202**	**.01189**	**.00425**	**13.430**	**.00049**
Stddev	.067	.00007	.00025	.021	.00017
%RSD	.31419	.62070	5.9782	.15417	33.944
#1	21.155	.01184	.00407	13.445	.00061
#2	21.249	.01195	.00443	13.415	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00410**	**4.9526**	**-.00114**	**-.00307**
Stddev	.00	.00005	.0066	.00012	.00047
%RSD	.0034	1.2714	.13385	10.780	15.268
#1	25.02	.00413	4.9479	-.00105	-.00340
#2	25.02	.00406	4.9573	-.00122	-.00274
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.8308**	**.00092**	**5.3050**	**1.010**	**.00019**
Stddev	.0100	.00028	.0402	.003	.00004
%RSD	.12721	29.886	.75781	.2684	22.472
#1	7.8237	.00073	5.3334	1.009	.00016
#2	7.8378	.00112	5.2765	1.012	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-C-3-A Acquired: 12/15/2021 18:59:03 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.00051**	**.00089**	**.9983**
Stddev	.00135	.00021	.00021	.0004
%RSD	286.81	40.448	24.095	.0434
#1	-.00143	-.00036	.00104	.9986
#2	.00048	-.00065	.00074	.9979
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3243.8**	**3027.5**	**27039.**	**3123.7**
Stddev	.6	4.0	27.	2.1
%RSD	.01937	.13082	.09874	.06567
#1	3243.4	3030.3	27020.	3125.1
#2	3244.3	3024.7	27058.	3122.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.565%	98.969%	100.96%	105.82%
Range				

Sample Name: 480-193330-C-4-A Acquired: 12/15/2021 19:02:52 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.26551**	**.01156**	**.87162**	**.04620**
Stddev	.00028	.02510	.00153	.00015	.00014
%RSD	50.551	9.4541	13.198	.01693	.29818
#1	.00074	.24776	.01264	.87152	.04610
#2	.00035	.28326	.01048	.87173	.04630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**15.543**	**.00003**	**-.0607**	**-.00016**
Stddev	.00006	.040	.00007	.0938	.00012
%RSD	615.24	.25589	260.33	154.4	76.210
#1	-.00005	15.571	.00008	.0056	-.00007
#2	.00003	15.514	-.00002	-.1270	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00058**	**.39522**	**2.2802**	**.00883**
Stddev	.00035	.00071	.00014	.0845	.00142
%RSD	715.25	121.66	.03460	3.7073	16.063
#1	.00020	.00108	.39512	2.2205	.00783
#2	-.00030	.00008	.39531	2.3400	.00984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-C-4-A Acquired: 12/15/2021 19:02:52 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9682**	**.02085**	**.15884**	**69.103**	**.00060**
Stddev	.0418	.00013	.00015	.019	.00027
%RSD	.84054	.62789	.09394	.02752	44.180
#1	4.9977	.02095	.15895	69.116	.00041
#2	4.9386	.02076	.15874	69.089	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00195**	**5.5164**	**-.00104**	**-.00150**
Stddev	.00	.00050	.0061	.00053	.00010
%RSD	.0010	25.714	.11002	51.182	6.4315
#1	25.03	.00160	5.5207	-.00142	-.00156
#2	25.03	.00231	5.5121	-.00067	-.00143
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6060**	**.00104**	**.51228**	**1.001**	**.00673**
Stddev	.0357	.00002	.00150	.004	.00073
%RSD	.63712	1.4466	.29251	.3789	10.813
#1	5.6313	.00105	.51334	1.004	.00621
#2	5.5808	.00103	.51122	.9984	.00724
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-C-4-A Acquired: 12/15/2021 19:02:52 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00048**	**.00139**	**.9988**
Stddev	.00070	.00038	.00010	.0002
%RSD	451.91	77.876	6.9595	.0230
#1	.00034	.00022	.00132	.9989
#2	-.00065	.00075	.00146	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3214.8**	**3019.0**	**26878.**	**3135.4**
Stddev	5.8	7.0	39.	2.4
%RSD	.18097	.23163	.14331	.07747
#1	3219.0	3024.0	26905.	3133.7
#2	3210.7	3014.1	26851.	3137.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.729%	98.693%	100.36%	106.22%
Range				

Sample Name: 480-193330-C-5-A Acquired: 12/15/2021 19:06:34 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**1.3234**	**.00941**	**.68926**	**.07163**
Stddev	.00006	.0001	.00016	.00001	.00011
%RSD	6.6319	.00781	1.7431	.00097	.14785
#1	-.00088	1.3233	.00930	.68927	.07156
#2	-.00097	1.3234	.00953	.68926	.07171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**19.609**	**-.00010**	**-.0586**	**.00025**
Stddev	.00007	.110	.00001	.0333	.00009
%RSD	162.51	.56229	14.248	56.75	34.317
#1	-.00009	19.531	-.00011	-.0351	.00019
#2	.00001	19.687	-.00009	-.0821	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	**-.00006**	**1.0102**	**1.8108**	**.00726**
Stddev	.00006	.00089	.0233	.0137	.00141
%RSD	4.1920	1492.3	2.3020	.75661	19.381
#1	.00158	.00057	.99373	1.8011	.00826
#2	.00149	-.00069	1.0266	1.8205	.00627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-C-5-A Acquired: 12/15/2021 19:06:34 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7550**	**.04133**	**.25513**	**61.014**	**.00244**
Stddev	.0178	.00001	.00036	.393	.00037
%RSD	.30928	.01835	.14196	.64463	15.124
#1	5.7676	.04132	.25539	60.736	.00270
#2	5.7424	.04133	.25487	61.292	.00218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00369**	**2.8662**	**-.00003**	**-.00110**
Stddev	.00	.00178	.0048	.00113	.00028
%RSD	.0003	48.148	.16660	3375.2	25.628
#1	25.02	.00494	2.8695	.00076	-.00130
#2	25.02	.00243	2.8628	-.00083	-.00090
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.7672**	**.00128**	**.40702**	**1.001**	**.04232**
Stddev	.0455	.00013	.00277	.004	.00175
%RSD	.67238	9.8640	.68133	.3658	4.1281
#1	6.7350	.00119	.40506	1.004	.04355
#2	6.7994	.00137	.40898	.9989	.04108
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-C-5-A Acquired: 12/15/2021 19:06:34 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00362**	**.00536**	**.9990**
Stddev	.00053	.00026	.00042	.0001
%RSD	131.90	7.1813	7.7777	.0134
#1	-.00003	.00381	.00506	.9989
#2	-.00078	.00344	.00565	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3231.3**	**3041.9**	**26992.**	**3111.7**
Stddev	2.6	1.0	170.	18.4
%RSD	.08002	.03300	.63117	.59101
#1	3233.1	3041.2	27112.	3124.7
#2	3229.4	3042.6	26871.	3098.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.203%	99.441%	100.79%	105.42%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 19:10:18 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0416**	**50.041**	**.94395**	**1.0486**	**.94164**
Stddev	.0024	.223	.00400	.0018	.00248
%RSD	.23294	.44503	.42397	.17582	.26342
#1	1.0433	50.199	.94112	1.0473	.94340
#2	1.0398	49.884	.94678	1.0499	.93989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94515**	**49.912**	**.95509**	**1.017**	**1.0357**
Stddev	.00278	.037	.00131	.026	.0015
%RSD	.29383	.07389	.13723	2.564	.14515
#1	.94711	49.938	.95417	.9984	1.0368
#2	.94318	49.886	.95602	1.035	1.0347
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97415**	**1.0411**	**50.167**	**48.874**	**.95652**
Stddev	.00035	.0007	.008	.038	.00517
%RSD	.03614	.06435	.01544	.07751	.54022
#1	.97440	1.0416	50.172	48.847	.96018
#2	.97390	1.0406	50.161	48.901	.95287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 19:10:18 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.794**	**.95887**	**1.0224**	**46.526**	**.94953**
Stddev	.110	.00044	.0000	.012	.00077
%RSD	.23947	.04640	.00390	.02515	.08070
#1	45.872	.95919	1.0224	46.534	.95007
#2	45.717	.95856	1.0224	46.518	.94899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.85**	**1.0224**	**25.877**	**.94821**	**.99538**
Stddev	.00	.0015	.015	.00005	.00102
%RSD	.0033	.14936	.05944	.00486	.10254
#1	37.85	1.0235	25.866	.94824	.99610
#2	37.85	1.0213	25.888	.94817	.99466
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9241**	**1.0188**	**.92626**	**1.518**	**1.0239**
Stddev	.0338	.0010	.00038	.004	.0006
%RSD	.34068	.09764	.04085	.2412	.05758
#1	9.9001	1.0195	.92653	1.521	1.0243
#2	9.9480	1.0181	.92599	1.516	1.0235
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 19:10:18 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99013**	**.99389**	**1.0105**	**1.496**
Stddev	.00212	.00070	.0011	.000
%RSD	.21428	.07022	.10709	.0152
#1	.99163	.99438	1.0097	1.496
#2	.98863	.99340	1.0112	1.496
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3017.0**	**2991.6**	**26139.**	**3054.4**
Stddev	9.4	2.0	67.	19.7
%RSD	.31049	.06543	.25704	.64464
#1	3010.4	2990.3	26187.	3068.3
#2	3023.6	2993.0	26092.	3040.4

Sample Name: CCB-6810114 Acquired: 12/15/2021 19:13:51 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.03298**	**.00174**	**.00024**	**-.00003**
Stddev	.00008	.01346	.00103	.00020	.00002
%RSD	14.151	40.820	58.938	80.820	67.925
#1	-.00060	.02346	.00102	.00010	-.00004
#2	-.00049	.04250	.00247	.00038	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00200**	**.00013**	**-.0573**	**-.00018**
Stddev	.00015	.00244	.00007	.0179	.00008
%RSD	889.66	122.16	57.943	31.29	42.883
#1	.00009	-.00027	.00018	-.0447	-.00012
#2	-.00012	-.00373	.00007	-.0700	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00072**	**-.00117**	**.06827**	**.00388**
Stddev	.00006	.00025	.00006	.05754	.00002
%RSD	51.857	34.351	5.3262	84.281	.42987
#1	-.00017	.00054	-.00113	.10895	.00387
#2	-.00008	.00089	-.00121	.02758	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 19:13:51 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00355**	**-.00010**	**.00057**	**.01223**	**.00038**
Stddev	.00088	.00010	.00041	.00021	.00016
%RSD	24.856	99.648	71.684	1.7346	42.300
#1	.00417	-.00017	.00028	.01208	.00027
#2	.00292	-.00003	.00086	.01238	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00229**	**.00200**	**.00192**	**.00194**
Stddev	.00	.00030	.00201	.00142	.00010
%RSD	.0065	12.949	100.53	73.701	5.0712
#1	25.01	.00250	.00341	.00292	.00187
#2	25.01	.00208	.00058	.00092	.00201
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01137**	**-.00004**	**.00012**	**.9974**	**.00007**
Stddev	.02440	.00007	.00001	.0068	.00017
%RSD	214.49	166.46	6.7590	.6846	248.35
#1	.00588	-.00009	.00012	.9926	.00019
#2	-.02863	.00001	.00011	1.002	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 19:13:51 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00027**	**-.00006**	**.9992**
Stddev	.00008	.00022	.00009	.0002
%RSD	278.23	83.050	139.73	.0236
#1	.00003	-.00043	-.00012	.9990
#2	-.00009	-.00011	-.00000	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3510.4**	**3114.9**	**27753.**	**3124.5**
Stddev	3.4	.1	103.	5.8
%RSD	.09736	.00463	.37044	.18511
#1	3512.8	3115.0	27826.	3128.6
#2	3508.0	3114.8	27680.	3120.4

Sample Name: CCVL-6811103 Acquired: 12/15/2021 19:17:40 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00525**	**.21309**	**.01485**	**.01956**	**.00203**
Stddev	.00042	.00629	.00484	.00071	.00001
%RSD	8.0864	2.9528	32.578	3.6054	.60388
#1	.00555	.20864	.01143	.02006	.00202
#2	.00495	.21754	.01827	.01906	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**.49969**	**.00190**	**-.0385**	**.00372**
Stddev	.00004	.00562	.00005	.0024	.00012
%RSD	1.8212	1.1244	2.3993	6.285	3.0938
#1	.00202	.49572	.00193	-.0368	.00380
#2	.00197	.50366	.00187	-.0402	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00366**	**.01078**	**.04786**	**.52092**	**.03232**
Stddev	.00029	.00053	.00213	.04391	.00203
%RSD	7.8531	4.9271	4.4579	8.4291	6.2843
#1	.00386	.01041	.04635	.55197	.03376
#2	.00345	.01116	.04937	.48987	.03088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 19:17:40 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18636**	**.00288**	**.00922**	**.92381**	**.00944**
Stddev	.00289	.00007	.00015	.00938	.00052
%RSD	1.5507	2.3000	1.5928	1.0158	5.5596
#1	.18432	.00292	.00912	.93044	.00981
#2	.18841	.00283	.00933	.91717	.00907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01122**	**.19031**	**.01795**	**.02375**
Stddev	.00	.00096	.00106	.00154	.00185
%RSD	.0051	8.5157	.55960	8.5767	7.7782
#1	25.00	.01055	.18955	.01686	.02244
#2	25.00	.01190	.19106	.01904	.02506
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46912**	**.00936**	**.00480**	F **1.003**	**.00445**
Stddev	.00202	.00018	.00015	.005	.00017
%RSD	.43042	1.9268	3.0838	.4639	3.8952
#1	.47054	.00923	.00469	1.0000	.00433
#2	.46769	.00949	.00490	1.007	.00458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 19:17:40 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01919**	**.00452**	**.01021**	F **.9997**
Stddev	.00046	.00023	.00057	.0015
%RSD	2.4216	5.0979	5.6184	.1539
#1	.01952	.00435	.00980	.9986
#2	.01886	.00468	.01061	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3508.6**	**3119.1**	**27712.**	**3087.1**
Stddev	1.9	.6	61.	24.4
%RSD	.05289	.02072	.21944	.78924
#1	3507.2	3118.6	27669.	3104.3
#2	3509.9	3119.5	27755.	3069.9

Sample Name: 480-193330-C-6-A Acquired: 12/15/2021 19:21:28 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**19.688**	**.01160**	**.71620**	**.23716**
Stddev	.00062	.077	.00060	.00017	.00031
%RSD	354.49	.38981	5.2084	.02313	.13184
#1	-.00026	19.634	.01118	.71608	.23738
#2	.00061	19.743	.01203	.71631	.23694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**77.324**	**.00060**	**-.0056**	**.00984**
Stddev	.00003	.056	.00016	.0041	.00003
%RSD	3.4317	.07221	27.496	73.47	.34450
#1	.00093	77.285	.00072	-.0085	.00987
#2	.00097	77.364	.00048	-.0027	.00982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02864**	**.02145**	**21.694**	**8.7649**	**.03384**
Stddev	.00022	.00086	.043	.0410	.00078
%RSD	.77035	4.0261	.19966	.46719	2.3038
#1	.02849	.02206	21.724	8.7359	.03439
#2	.02880	.02084	21.663	8.7939	.03329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-C-6-A Acquired: 12/15/2021 19:21:28 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.151**	**.39421**	**.25841**	**84.422**	**.02940**
Stddev	.043	.00016	.00035	.367	.00014
%RSD	.19217	.04075	.13629	.43448	.46723
#1	22.121	.39410	.25866	84.162	.02949
#2	22.181	.39433	.25816	84.681	.02930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.19**	**.02299**	**10.926**	**.00072**	**.00139**
Stddev	.00	.00089	.011	.00025	.00023
%RSD	.0019	3.8539	.10340	34.778	16.219
#1	25.19	.02237	10.934	.00090	.00123
#2	25.19	.02362	10.918	.00054	.00155
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.395**	**.00165**	**.57863**	**1.014**	**.34719**
Stddev	.084	.00023	.00051	.003	.00089
%RSD	.23812	13.824	.08856	.2463	.25705
#1	35.335	.00149	.57899	1.012	.34656
#2	35.454	.00181	.57826	1.015	.34782
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-C-6-A Acquired: 12/15/2021 19:21:28 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00132**	**.05750**	**.05236**	**1.005**
Stddev	.00038	.00038	.00020	.001
%RSD	28.765	.66345	.37355	.0579
#1	-.00159	.05723	.05222	1.006
#2	-.00105	.05777	.05250	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3105.0**	**3058.7**	**26702.**	**3133.2**
Stddev	1.4	2.6	32.	12.1
%RSD	.04463	.08491	.11827	.38674
#1	3106.0	3060.6	26724.	3124.7
#2	3104.0	3056.9	26680.	3141.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.561%	99.991%	99.705%	106.15%
Range				

Sample Name: 480-193291-E-1-A Acquired: 12/15/2021 19:25:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**1.3683**	**.00352**	**.05807**	**.05145**
Stddev	.00041	.0140	.00197	.00011	.00001
%RSD	223.27	1.0237	55.863	.19008	.01938
#1	.00011	1.3782	.00492	.05814	.05144
#2	-.00048	1.3584	.00213	.05799	.05146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**113.04**	**.00024**	**-.0530**	**.00028**
Stddev	.00005	.01	.00000	.0378	.00003
%RSD	105.61	.01166	1.0231	71.38	9.2945
#1	-.00008	113.05	.00023	-.0262	.00026
#2	-.00001	113.03	.00024	-.0797	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00178**	**.00287**	**1.1316**	**4.4410**	**.01033**
Stddev	.00007	.00042	.0009	.0652	.00074
%RSD	4.1411	14.615	.07727	1.4675	7.2059
#1	.00183	.00257	1.1310	4.3949	.00980
#2	.00172	.00316	1.1323	4.4871	.01086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193291-E-1-A Acquired: 12/15/2021 19:25:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.526**	**.05116**	**.00777**	**88.715**	**.00274**
Stddev	.067	.00016	.00008	.078	.00002
%RSD	.23599	.30943	1.0872	.08756	.90528
#1	28.573	.05128	.00783	88.660	.00275
#2	28.478	.05105	.00772	88.770	.00272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00254**	**78.425**	**-.00132**	**-.00150**
Stddev	.00	.00012	.031	.00043	.00360
%RSD	.0030	4.8057	.03991	32.570	239.51
#1	25.03	.00245	78.403	-.00163	.00104
#2	25.03	.00262	78.447	-.00102	-.00405
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3380**	**.00067**	**1.5381**	**.9973**	**.03718**
Stddev	.0015	.00002	.0006	.0062	.00035
%RSD	.02873	2.4608	.03968	.6211	.93328
#1	5.3391	.00068	1.5377	1.002	.03693
#2	5.3369	.00065	1.5386	.9929	.03743
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193291-E-1-A Acquired: 12/15/2021 19:25:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00316**	**.00755**	**.9999**
Stddev	.00085	.00030	.00010	.0008
%RSD	360.29	9.4785	1.3351	.0816
#1	.00036	.00295	.00748	1.000
#2	-.00084	.00337	.00763	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3094.9**	**2959.9**	**26067.**	**3070.1**
Stddev	1.1	1.0	21.	1.6
%RSD	.03394	.03463	.08013	.05328
#1	3095.6	2960.6	26082.	3068.9
#2	3094.2	2959.1	26052.	3071.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.270%	96.758%	97.335%	104.01%
Range				

Sample Name: 480-193335-D-1-B Acquired: 12/15/2021 19:28:50 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.04459**	**.00305**	**.04772**	**.09659**
Stddev	.00079	.01854	.00033	.00023	.00008
%RSD	791.49	41.576	10.768	.48424	.08459
#1	-.00065	.03148	.00282	.04755	.09653
#2	.00046	.05770	.00329	.04788	.09665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**44.562**	**.00016**	**-.0332**	**-.00016**
Stddev	.00011	.142	.00009	.0034	.00002
%RSD	60.077	.31914	54.213	10.33	14.886
#1	-.00026	44.662	.00022	-.0356	-.00015
#2	-.00011	44.461	.00010	-.0307	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00104**	**.04714**	**1.0501**	**.01564**
Stddev	.00006	.00014	.00088	.0498	.00189
%RSD	327.63	13.211	1.8629	4.7386	12.106
#1	-.00007	.00114	.04776	1.0149	.01698
#2	.00003	.00094	.04652	1.0852	.01430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-D-1-B Acquired: 12/15/2021 19:28:50 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2147**	**.11730**	**.00006**	**21.753**	**.00059**
Stddev	.0120	.00018	.00003	.115	.00046
%RSD	.14590	.15143	56.286	.52840	78.624
#1	8.2062	.11717	.00008	21.834	.00092
#2	8.2232	.11742	.00004	21.671	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00196**	**8.2375**	**-.00289**	**-.00040**
Stddev	.00	.00020	.0052	.00123	.00322
%RSD	.0022	10.371	.06360	42.508	813.15
#1	25.02	.00182	8.2338	-.00376	-.00267
#2	25.02	.00211	8.2412	-.00202	.00188
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3276**	**.00080**	**.12517**	**1.004**	**.00058**
Stddev	.0322	.00036	.00121	.001	.00032
%RSD	.60503	44.537	.96426	.0733	54.439
#1	5.3504	.00055	.12602	1.005	.00036
#2	5.3048	.00106	.12431	1.004	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-D-1-B Acquired: 12/15/2021 19:28:50 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.00011**	**.00670**	**.9985**
Stddev	.00270	.00033	.00049	.0012
%RSD	410.41	308.01	7.2526	.1160
#1	.00257	-.00034	.00636	.9993
#2	-.00125	.00013	.00705	.9977
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3291.9**	**3047.5**	**26938.**	**3099.6**
Stddev	2.1	1.4	31.	1.4
%RSD	.06388	.04607	.11670	.04660
#1	3293.4	3046.5	26960.	3100.6
#2	3290.4	3048.5	26916.	3098.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.951%	99.623%	100.59%	105.01%
Range				

Sample Name: 480-193335-D-2-B Acquired: 12/15/2021 19:32:34 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.68188**	**-.00011**	**.05796**	**.09866**
Stddev	.00095	.00113	.00025	.00004	.00000
%RSD	151.07	.16503	219.23	.06481	.00244
#1	-.00130	.68268	-.00029	.05799	.09866
#2	.00004	.68109	.00006	.05794	.09866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**46.908**	**.00019**	**-.0535**	**.00021**
Stddev	.00005	.330	.00018	.0051	.00006
%RSD	36277.	.70393	94.395	9.469	30.837
#1	-.00003	46.674	.00006	-.0499	.00016
#2	.00003	47.141	.00032	-.0570	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00161**	**.00154**	**.94052**	**1.6805**	**.01190**
Stddev	.00012	.00030	.00447	.0063	.00375
%RSD	7.7102	19.602	.47486	.37424	31.507
#1	.00170	.00133	.93736	1.6849	.00925
#2	.00153	.00175	.94368	1.6760	.01455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-D-2-B Acquired: 12/15/2021 19:32:34 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.105**	**.77794**	**-.00055**	**17.496**	**.00120**
Stddev	.002	.00009	.00000	.099	.00064
%RSD	.01361	.01135	.07077	.56705	53.106
#1	12.106	.77800	-.00056	17.426	.00165
#2	12.103	.77788	-.00055	17.566	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00355**	**7.5224**	**-.00171**	**-.00062**
Stddev	.00	.00069	.0018	.00031	.00071
%RSD	.0029	19.402	.02425	18.134	113.90
#1	25.02	.00306	7.5237	-.00149	-.00113
#2	25.02	.00403	7.5211	-.00193	-.00012
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5733**	**.00077**	**.17478**	**1.001**	**.01674**
Stddev	.1272	.00065	.00116	.011	.00101
%RSD	2.2819	83.887	.66547	1.082	6.0200
#1	5.4834	.00123	.17396	.9930	.01603
#2	5.6633	.00031	.17560	1.008	.01746
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-D-2-B Acquired: 12/15/2021 19:32:34 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00033**	**.02365**	**.9987**
Stddev	.00006	.00033	.00048	.0021
%RSD	11.524	102.41	2.0395	.2136
#1	.00048	.00056	.02331	1.000
#2	.00057	.00009	.02399	.9972
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3277.7**	**3051.3**	**26976.**	**3121.3**
Stddev	1.7	.1	1.	14.9
%RSD	.05054	.00313	.00225	.47645
#1	3278.9	3051.2	26976.	3131.9
#2	3276.5	3051.4	26977.	3110.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.542%	99.748%	100.73%	105.75%
Range				

Sample Name: 480-193335-D-3-B Acquired: 12/15/2021 19:36:17 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00144**	**.05192**	**.00042**	**.03816**	**.14188**
Stddev	.00002	.00020	.00102	.00005	.00017
%RSD	1.0623	.37797	244.15	.11956	.11666
#1	-.00143	.05206	.00114	.03819	.14176
#2	-.00145	.05178	-.00030	.03812	.14199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**49.453**	**.00016**	**-.0543**	**-.00010**
Stddev	.00005	.386	.00000	.0078	.00009
%RSD	1982.1	.78139	1.5324	14.39	91.482
#1	-.00003	49.180	.00016	-.0488	-.00004
#2	.00004	49.726	.00017	-.0599	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00108**	**.10871**	**1.1569**	**.01234**
Stddev	.00002	.00032	.00153	.0088	.00050
%RSD	6.0231	29.231	1.4075	.75827	4.0869
#1	.00028	.00086	.10763	1.1631	.01269
#2	.00030	.00130	.10979	1.1507	.01198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-D-3-B Acquired: 12/15/2021 19:36:17 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.267**	**.35581**	**-.00071**	**13.377**	**.00085**
Stddev	.000	.00100	.00004	.143	.00000
%RSD	.00392	.28117	5.5109	1.0696	.28179
#1	10.266	.35510	-.00069	13.276	.00085
#2	10.267	.35651	-.00074	13.479	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00315**	**5.6622**	**-.00316**	**-.00272**
Stddev	.00	.00091	.0010	.00122	.00114
%RSD	.0059	28.927	.01846	38.580	41.945
#1	25.01	.00251	5.6614	-.00403	-.00352
#2	25.01	.00380	5.6629	-.00230	-.00191
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1100**	**.00094**	**.13090**	**1.002**	**.00057**
Stddev	.0415	.00009	.00108	.004	.00006
%RSD	.81272	9.8183	.82351	.3587	9.9076
#1	5.0806	.00088	.13013	1.005	.00053
#2	5.1394	.00101	.13166	.9995	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-D-3-B Acquired: 12/15/2021 19:36:17 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00085**	**-.00039**	**.00507**	**.9988**
Stddev	.00122	.00001	.00047	.0005
%RSD	143.33	3.6669	9.1668	.0510
#1	.00171	-.00040	.00475	.9991
#2	-.00001	-.00038	.00540	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3318.4**	**3075.0**	**27217.**	**3151.2**
Stddev	1.6	.9	86.	23.2
%RSD	.04787	.02851	.31524	.73472
#1	3317.3	3074.4	27278.	3167.6
#2	3319.5	3075.6	27156.	3134.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.717%	100.52%	101.63%	106.76%
Range				

Sample Name: 480-193335-D-4-B Acquired: 12/15/2021 19:40:01 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00126**	**.95840**	**.00823**	**.01894**	**.11384**
Stddev	.00005	.02941	.00029	.00042	.00001
%RSD	4.3184	3.0682	3.4751	2.2430	.00615
#1	-.00122	.97920	.00803	.01924	.11385
#2	-.00129	.93761	.00843	.01864	.11384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**122.67**	**.00008**	**-.0317**	**.00017**
Stddev	.00004	.39	.00006	.0143	.00017
%RSD	209.30	.31664	75.071	45.06	95.818
#1	-.00004	122.94	.00004	-.0216	.00029
#2	.00001	122.39	.00013	-.0418	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00194**	**.00243**	**7.9872**	**1.8614**	**.01212**
Stddev	.00009	.00075	.0015	.0241	.00136
%RSD	4.4285	30.724	.01890	1.2940	11.193
#1	.00188	.00190	7.9883	1.8784	.01116
#2	.00200	.00295	7.9862	1.8443	.01308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-D-4-B Acquired: 12/15/2021 19:40:01 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9933**	**1.9377**	**-.00123**	**1.2957**	**.00180**
Stddev	.0036	.0003	.00013	.0157	.00017
%RSD	.04469	.01507	10.212	1.2132	9.5584
#1	7.9908	1.9375	-.00132	1.2846	.00168
#2	7.9958	1.9379	-.00114	1.3069	.00193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00569**	**3.4903**	**-.00005**	**.00002**
Stddev	.00	.00038	.0008	.00023	.00198
%RSD	.0042	6.7451	.02269	472.83	12698.
#1	25.07	.00596	3.4909	.00011	.00142
#2	25.07	.00541	3.4898	-.00021	-.00139
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6895**	**.00105**	**.82759**	**1.003**	**.02427**
Stddev	.0118	.00044	.00163	.006	.01272
%RSD	.15296	41.516	.19752	.5688	52.406
#1	7.6811	.00136	.82875	.9986	.01528
#2	7.6978	.00074	.82643	1.007	.03327
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-D-4-B Acquired: 12/15/2021 19:40:01 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00152**	**.00811**	**.9990**
Stddev	.00173	.00003	.00021	.0000
%RSD	832.62	1.8933	2.6482	.0021
#1	-.00101	.00150	.00827	.9990
#2	.00143	.00154	.00796	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3265.5**	**3055.3**	**26858.**	**3098.3**
Stddev	.6	3.9	156.	24.1
%RSD	.01915	.12685	.58087	.77775
#1	3265.9	3052.6	26748.	3081.2
#2	3265.0	3058.1	26968.	3115.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.190%	99.879%	100.29%	104.96%
Range				

Sample Name: 480-193335-D-5-B Acquired: 12/15/2021 19:43:44 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.12287**	**.00039**	**.01551**	**.05582**
Stddev	.00093	.00333	.00100	.00003	.00017
%RSD	2149.6	2.7131	255.81	.20599	.30366
#1	.00062	.12051	-.00032	.01548	.05570
#2	-.00070	.12523	.00110	.01553	.05594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**28.486**	**.00024**	**.0109**	**-.00017**
Stddev	.00005	.014	.00012	.0266	.00009
%RSD	829.38	.04873	47.394	244.2	52.464
#1	.00004	28.476	.00033	-.0079	-.00011
#2	-.00003	28.496	.00016	.0297	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00105**	**.20829**	**1.1840**	**.01010**
Stddev	.00025	.00044	.00156	.0770	.00097
%RSD	1337.6	42.261	.74715	6.5048	9.6324
#1	.00019	.00074	.20939	1.2384	.00941
#2	-.00016	.00137	.20719	1.1295	.01078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-D-5-B Acquired: 12/15/2021 19:43:44 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.580**	**.04327**	**-.00059**	**12.990**	**.00047**
Stddev	.050	.00013	.00003	.027	.00010
%RSD	.32110	.30600	5.4049	.20494	21.591
#1	15.615	.04318	-.00061	12.971	.00054
#2	15.545	.04336	-.00057	13.009	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00204**	**4.8628**	**.00878**	**-.00272**
Stddev	.00	.00020	.0017	.00012	.00135
%RSD	.0000	9.6031	.03528	1.4124	49.798
#1	25.02	.00190	4.8616	.00869	-.00367
#2	25.02	.00218	4.8640	.00887	-.00176
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4959**	**-.00017**	**.07862**	**.9979**	**.00112**
Stddev	.0085	.00026	.00002	.0056	.00020
%RSD	.13067	150.81	.02863	.5652	17.755
#1	6.5019	.00001	.07864	1.002	.00126
#2	6.4899	-.00035	.07861	.9939	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-D-5-B Acquired: 12/15/2021 19:43:44 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00025**	**.02162**	**.9982**
Stddev	.00025	.00024	.00024	.0009
%RSD	51.779	96.031	1.0984	.0951
#1	.00030	-.00008	.02146	.9989
#2	.00065	-.00042	.02179	.9976
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3328.9**	**3073.7**	**27171.**	**3120.6**
Stddev	3.4	5.4	41.	3.9
%RSD	.10225	.17593	.15033	.12507
#1	3326.5	3069.8	27200.	3117.8
#2	3331.3	3077.5	27143.	3123.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.019%	100.48%	101.46%	105.72%
Range				

Sample Name: 480-193335-D-6-D Acquired: 12/15/2021 19:47:27 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**5.2852**	**.00324**	**.04296**	**.07396**
Stddev	.00036	.0041	.00108	.00095	.00027
%RSD	152.90	.07682	33.366	2.2037	.36096
#1	.00002	5.2823	.00248	.04363	.07377
#2	-.00049	5.2881	.00401	.04229	.07415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**47.583**	**.00017**	**-.0034**	**.00227**
Stddev	.00004	.103	.00017	.0472	.00023
%RSD	22.613	.21645	100.05	1400.	10.006
#1	.00015	47.656	.00028	.0300	.00243
#2	.00021	47.511	.00005	-.0368	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00617**	**.00427**	**6.3789**	**2.7703**	**.01512**
Stddev	.00005	.00010	.0004	.0338	.00083
%RSD	.80205	2.2346	.00679	1.2219	5.5149
#1	.00613	.00434	6.3792	2.7464	.01571
#2	.00620	.00421	6.3785	2.7943	.01453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-D-6-D Acquired: 12/15/2021 19:47:27 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8266**	**.29333**	**.00064**	**29.100**	**.00587**
Stddev	.0183	.00001	.00013	.019	.00012
%RSD	.18586	.00496	20.569	.06613	2.1288
#1	9.8395	.29334	.00055	29.086	.00578
#2	9.8137	.29332	.00073	29.113	.00596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00723**	**14.868**	**-.00157**	**-.00040**
Stddev	.00	.00116	.016	.00117	.00003
%RSD	.0000	16.092	.10964	74.111	7.3456
#1	25.07	.00641	14.879	-.00075	-.00042
#2	25.07	.00806	14.856	-.00240	-.00038
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.207**	**.00018**	**.11956**	**1.003**	**.08975**
Stddev	.029	.00057	.00033	.006	.00947
%RSD	.25670	316.74	.27613	.5557	10.555
#1	11.186	.00059	.11933	1.007	.09645
#2	11.227	-.00022	.11980	.9991	.08305
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-D-6-D Acquired: 12/15/2021 19:47:27 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00761**	**.04412**	**1.001**
Stddev	.00195	.00011	.00079	.000
%RSD	596.21	1.4753	1.7884	.0315
#1	.00171	.00768	.04356	1.001
#2	-.00105	.00753	.04468	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3248.4**	**3051.0**	**26861.**	**3115.9**
Stddev	2.4	.4	16.	6.2
%RSD	.07243	.01278	.06071	.20032
#1	3250.0	3051.3	26849.	3120.3
#2	3246.7	3050.7	26872.	3111.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.697%	99.737%	100.30%	105.56%
Range				

Sample Name: 480-193335-A-7-A Acquired: 12/15/2021 19:51:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**1.8452**	**.00283**	**.01763**	**.05572**
Stddev	.00052	.0005	.00100	.00031	.00017
%RSD	2772.9	.02661	35.483	1.7357	.29740
#1	.00035	1.8455	.00212	.01741	.05584
#2	-.00039	1.8449	.00354	.01785	.05560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**96.452**	**-.00000**	**.0062**	**.00004**
Stddev	.00000	.662	.00014	.0058	.00005
%RSD	3.6150	.68614	6556.9	93.88	115.50
#1	-.00010	96.920	.00010	.0021	.00001
#2	-.00010	95.984	-.00010	.0103	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**.01083**	**.17286**	**2.7793**	**.00725**
Stddev	.00004	.00008	.00229	.0393	.00026
%RSD	3.6875	.73513	1.3255	1.4122	3.6133
#1	.00121	.01089	.17124	2.8070	.00743
#2	.00115	.01077	.17448	2.7515	.00706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-A-7-A Acquired: 12/15/2021 19:51:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07375**	**.00325**	**.00998**	**15.762**	**.00323**
Stddev	.00543	.00001	.00011	.077	.00025
%RSD	7.3667	.31475	1.0835	.49156	7.7056
#1	.06991	.00324	.00990	15.817	.00341
#2	.07760	.00326	.01005	15.707	.00305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00140**	**6.8365**	**.00472**	**.00140**
Stddev	.00	.00003	.0019	.00008	.00422
%RSD	.0063	1.9953	.02807	1.7344	300.46
#1	25.02	.00138	6.8351	.00466	.00439
#2	25.02	.00142	6.8379	.00478	-.00158
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6202**	**.00024**	**.25542**	**.9989**	**.00281**
Stddev	.0319	.00046	.00065	.0040	.00029
%RSD	.87966	197.17	.25295	.4004	10.244
#1	3.6427	-.00009	.25588	.9960	.00261
#2	3.5977	.00056	.25496	1.002	.00301
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193335-A-7-A Acquired: 12/15/2021 19:51:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.00328**	**.01486**	**.9984**
Stddev	.00131	.00016	.00026	.0013
%RSD	200.15	4.9351	1.7537	.1257
#1	.00027	.00339	.01467	.9975
#2	-.00158	.00316	.01504	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3238.6**	**3012.9**	**26971.**	**3130.2**
Stddev	1.7	1.3	147.	28.9
%RSD	.05261	.04377	.54634	.92377
#1	3237.3	3012.0	26867.	3109.8
#2	3239.8	3013.9	27075.	3150.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.413%	98.493%	100.71%	106.05%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 19:54:57 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0390**	**49.989**	**.94576**	**1.0477**	**.94308**
Stddev	.0013	.357	.00065	.0003	.00505
%RSD	.12803	.71440	.06880	.03039	.53587
#1	1.0380	49.736	.94530	1.0475	.93951
#2	1.0399	50.242	.94622	1.0480	.94665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94730**	**49.823**	**.95691**	**1.025**	**1.0327**
Stddev	.00674	.333	.00014	.001	.0019
%RSD	.71120	.66905	.01438	.0974	.18424
#1	.94254	49.587	.95701	1.026	1.0314
#2	.95207	50.058	.95682	1.024	1.0341
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97845**	**1.0365**	**49.991**	**49.046**	**.96223**
Stddev	.00150	.0041	.325	.179	.00229
%RSD	.15345	.39468	.65013	.36474	.23780
#1	.97739	1.0336	49.761	48.920	.96062
#2	.97951	1.0394	50.221	49.173	.96385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 19:54:57 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.878**	**.95945**	**1.0221**	**46.793**	**.94892**
Stddev	.061	.00088	.0010	.241	.00191
%RSD	.13371	.09173	.09848	.51531	.20142
#1	45.921	.95883	1.0214	46.622	.95028
#2	45.834	.96007	1.0228	46.963	.94757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.81**	**1.0191**	**25.808**	**.94884**	**.98951**
Stddev	.01	.0023	.036	.00230	.00705
%RSD	.0200	.22763	.13899	.24197	.71214
#1	37.81	1.0175	25.782	.94721	.99449
#2	37.82	1.0208	25.833	.95046	.98453
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8778**	**1.0135**	**.93540**	**1.517**	**1.0235**
Stddev	.0605	.0003	.00170	.001	.0002
%RSD	.61217	.03015	.18220	.0369	.02059
#1	9.8350	1.0137	.93419	1.518	1.0233
#2	9.9206	1.0133	.93660	1.517	1.0236
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 19:54:57 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98817**	**.99545**	**1.0075**	**1.505**
Stddev	.00027	.00073	.0004	.002
%RSD	.02777	.07298	.03818	.1281
#1	.98837	.99494	1.0073	1.503
#2	.98798	.99596	1.0078	1.506
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3006.2**	**2975.2**	**26029.**	**3049.8**
Stddev	3.1	3.9	34.	26.3
%RSD	.10373	.13172	.13044	.86140
#1	3008.4	2978.0	26005.	3068.4
#2	3004.0	2972.5	26053.	3031.2

Sample Name: CCB-6810114 Acquired: 12/15/2021 19:58:29 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00930**	**.00312**	**-.00111**	**-.00002**
Stddev	.00061	.00852	.00078	.00044	.00001
%RSD	109.99	91.581	25.166	39.716	55.830
#1	-.00098	.01532	.00367	-.00080	-.00002
#2	-.00012	.00328	.00256	-.00142	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00332**	**-.00001**	**-.0352**	**-.00005**
Stddev	.00003	.00196	.00006	.0516	.00007
%RSD	74.292	58.842	587.51	146.8	157.39
#1	.00002	.00471	.00003	-.0717	-.00010
#2	.00005	.00194	-.00005	.0013	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00133**	**-.00060**	**-.02560**	**.00349**
Stddev	.00035	.00032	.00003	.04023	.00169
%RSD	112.22	23.685	4.6140	157.15	48.466
#1	-.00006	.00155	-.00058	.00285	.00468
#2	-.00056	.00111	-.00062	-.05405	.00229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 19:58:29 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**-.00012**	**.00038**	**-.00386**	**.00059**
Stddev	.00147	.00000	.00022	.00812	.00036
%RSD	151.20	2.2903	57.925	210.59	59.796
#1	-.00007	-.00012	.00022	.00189	.00085
#2	.00201	-.00012	.00053	-.00960	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00054**	**.00276**	**-.00261**	**.00087**
Stddev	.00	.00016	.00191	.00075	.00116
%RSD	.0116	29.781	69.052	28.577	132.53
#1	25.01	.00043	.00141	-.00208	.00005
#2	25.01	.00065	.00411	-.00313	.00169
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.00010**	**.00011**	**1.003**	**-.00015**
Stddev	.03254	.00032	.00007	.010	.00001
%RSD	9684.9	320.41	65.936	1.041	8.8113
#1	-.02335	-.00033	.00016	1.011	-.00014
#2	.02267	.00013	.00006	.9958	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 19:58:29 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.00006**	**-.00010**	**1.000**
Stddev	.00076	.00019	.00013	.001
%RSD	197.56	343.36	125.11	.0733
#1	.00015	-.00019	-.00019	1.001
#2	-.00092	.00008	-.00001	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3482.4**	**3071.8**	**27590.**	**3069.4**
Stddev	1.4	2.8	141.	2.2
%RSD	.04045	.09217	.51210	.07283
#1	3481.4	3073.8	27490.	3067.8
#2	3483.4	3069.8	27690.	3070.9

Sample Name: CCVL-6811103 Acquired: 12/15/2021 20:02:18 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00488**	**.21316**	**.01584**	**.01862**	**.00206**
Stddev	.00059	.03283	.00028	.00004	.00003
%RSD	12.116	15.404	1.7958	.22527	1.3002
#1	.00446	.18994	.01564	.01859	.00204
#2	.00530	.23637	.01604	.01865	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00186**	**.50213**	**.00180**	**-.0601**	**.00370**
Stddev	.00003	.00096	.00003	.0039	.00018
%RSD	1.6347	.19043	1.5602	6.455	4.8759
#1	.00184	.50281	.00178	-.0573	.00357
#2	.00188	.50145	.00182	-.0628	.00382
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00353**	**.01137**	**.04876**	**.46524**	**.02914**
Stddev	.00014	.00090	.00021	.02704	.00032
%RSD	4.0313	7.9053	.42137	5.8120	1.1113
#1	.00343	.01201	.04862	.48436	.02937
#2	.00363	.01073	.04891	.44612	.02891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 20:02:18 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17878**	**.00284**	**.00924**	**.92226**	**.00935**
Stddev	.00108	.00004	.00006	.01747	.00009
%RSD	.60442	1.4326	.69864	1.8947	1.0091
#1	.17954	.00287	.00920	.90991	.00942
#2	.17801	.00281	.00929	.93462	.00929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01142**	**.19542**	**.01757**	**.02371**
Stddev	.00	.00016	.00116	.00077	.00059
%RSD	.0036	1.4024	.59284	4.3882	2.4886
#1	25.00	.01153	.19460	.01812	.02329
#2	25.00	.01130	.19623	.01703	.02413
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45308**	**.00915**	**.00471**	F **1.003**	**.00449**
Stddev	.01349	.00052	.00009	.000	.00033
%RSD	2.9769	5.6363	1.9584	.0098	7.4577
#1	.46262	.00951	.00464	1.003	.00473
#2	.44354	.00878	.00477	1.003	.00425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 20:02:18 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02005**	**.00463**	**.00951**	F **1.0000**
Stddev	.00166	.00005	.00039	.0003
%RSD	8.2773	1.0788	4.1327	.0298
#1	.02123	.00466	.00923	1.000
#2	.01888	.00459	.00978	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3488.7**	**3095.5**	**27714.**	**3102.0**
Stddev	5.8	5.9	81.	24.7
%RSD	.16749	.19088	.29333	.79720
#1	3484.6	3091.3	27656.	3119.5
#2	3492.9	3099.6	27771.	3084.6

Sample Name: 480-193337-D-1-B Acquired: 12/15/2021 20:06:05 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**8.8094**	**.00406**	**.01521**	**.16655**
Stddev	.00033	.0192	.00019	.00020	.00012
%RSD	46.786	.21795	4.6619	1.3021	.07401
#1	-.00048	8.8230	.00419	.01535	.16664
#2	-.00095	8.7958	.00392	.01507	.16646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**47.704**	**.00011**	**-.0228**	**.00400**
Stddev	.00004	.036	.00001	.0659	.00030
%RSD	12.666	.07571	4.9273	289.8	7.3970
#1	.00026	47.729	.00011	.0239	.00421
#2	.00031	47.678	.00012	-.0694	.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01202**	**.01161**	**10.558**	**3.2533**	**.02446**
Stddev	.00026	.00032	.001	.0282	.00040
%RSD	2.1372	2.7657	.00522	.86537	1.6393
#1	.01184	.01184	10.558	3.2334	.02475
#2	.01221	.01139	10.559	3.2732	.02418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193337-D-1-B Acquired: 12/15/2021 20:06:05 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.087**	**1.2897**	**-.00030**	**4.3581**	**.00953**
Stddev	.024	.0024	.00004	.0147	.00062
%RSD	.21259	.18649	14.251	.33741	6.5437
#1	11.070	1.2880	-.00033	4.3685	.00909
#2	11.104	1.2914	-.00027	4.3477	.00997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.01118**	**4.8898**	**-.00051**	**-.00005**
Stddev	.00	.00009	.0002	.00053	.00069
%RSD	.0011	.83691	.00353	105.41	1441.5
#1	25.07	.01125	4.8897	-.00013	-.00054
#2	25.07	.01112	4.8900	-.00088	.00044
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.060**	**.00038**	**.07921**	**1.006**	**.11328**
Stddev	.012	.00057	.00059	.005	.00524
%RSD	.07325	150.19	.74152	.5375	4.6288
#1	16.069	.00079	.07962	1.010	.10957
#2	16.052	-.00002	.07879	1.002	.11698
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193337-D-1-B Acquired: 12/15/2021 20:06:05 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00062**	**.01266**	**.02500**	**1.0000**
Stddev	.00124	.00033	.00035	.0009
%RSD	201.20	2.5781	1.3926	.0868
#1	.00149	.01243	.02525	1.001
#2	-.00026	.01289	.02476	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3298.3**	**3077.4**	**27381.**	**3181.8**
Stddev	9.6	7.6	14.	7.9
%RSD	.29155	.24596	.05017	.24898
#1	3305.1	3082.7	27391.	3187.4
#2	3291.5	3072.0	27371.	3176.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.136%	100.60%	102.24%	107.79%
Range				

Sample Name: 480-193337-D-2-B Acquired: 12/15/2021 20:09:47 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**13.227**	**.00662**	**.01640**	**.29041**
Stddev	.00116	.127	.00098	.00008	.00013
%RSD	101.94	.96145	14.867	.49351	.04430
#1	-.00195	13.138	.00731	.01634	.29050
#2	-.00032	13.317	.00592	.01646	.29031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**55.291**	**.00039**	**-.0554**	**.00874**
Stddev	.00001	.350	.00003	.0390	.00001
%RSD	2.9164	.63337	6.5470	70.34	.16812
#1	.00046	55.043	.00037	-.0829	.00875
#2	.00048	55.539	.00041	-.0278	.00873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01637**	**.01701**	**20.313**	**3.4796**	**.03535**
Stddev	.00004	.00011	.138	.0242	.00001
%RSD	.23436	.63185	.67728	.69582	.03977
#1	.01640	.01709	20.216	3.4625	.03534
#2	.01635	.01694	20.410	3.4967	.03536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193337-D-2-B Acquired: 12/15/2021 20:09:47 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.708**	**.77848**	**-.00063**	**4.8562**	**.02026**
Stddev	.008	.00019	.00005	.0289	.00033
%RSD	.05560	.02387	8.0202	.59434	1.6508
#1	14.714	.77861	-.00066	4.8357	.02002
#2	14.702	.77835	-.00059	4.8766	.02049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.32**	**.02648**	**5.0852**	**.00057**	**.00419**
Stddev	.00	.00106	.0024	.00114	.00054
%RSD	.0057	4.0168	.04776	199.60	12.873
#1	25.32	.02723	5.0835	-.00024	.00381
#2	25.32	.02573	5.0869	.00138	.00457
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.922**	**-.00003**	**.09675**	**1.015**	**.14335**
Stddev	.280	.00014	.00068	.006	.00095
%RSD	1.3384	422.52	.70071	.6393	.66251
#1	20.724	.00007	.09627	1.010	.14402
#2	21.120	-.00014	.09723	1.020	.14268
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193337-D-2-B Acquired: 12/15/2021 20:09:47 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00004**	**.01798**	**.04996**	**1.001**
Stddev	.00102	.00003	.00089	.000
%RSD	2523.8	.16288	1.7860	.0315
#1	-.00068	.01796	.04933	1.000
#2	.00076	.01800	.05059	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3254.9**	**3077.9**	**27426.**	**3166.5**
Stddev	2.4	3.9	190.	11.5
%RSD	.07415	.12631	.69425	.36160
#1	3253.1	3080.7	27561.	3174.6
#2	3256.6	3075.2	27292.	3158.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.883%	100.62%	102.41%	107.27%
Range				

Sample Name: 480-193334-E-1-B Acquired: 12/15/2021 20:13:29 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00341**	**.31638**	**.00836**	**2.8118**	**2.4539**
Stddev	.00072	.00059	.00011	.0001	.0050
%RSD	21.019	.18639	1.2816	.00286	.20261
#1	-.00392	.31596	.00829	2.8119	2.4574
#2	-.00290	.31680	.00844	2.8118	2.4504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**127.09**	**.00088**	**-.0539**	**.04275**
Stddev	.00003	.11	.00028	.0055	.00019
%RSD	398.52	.08326	31.844	10.19	.43660
#1	-.00001	127.17	.00068	-.0578	.04261
#2	.00003	127.02	.00108	-.0500	.04288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05175**	**.01522**	**209.38**	**107.13**	**.04663**
Stddev	.00018	.00111	.49	.14	.00030
%RSD	.35645	7.2844	.23239	.13116	.63702
#1	.05188	.01444	209.73	107.23	.04684
#2	.05162	.01601	209.04	107.03	.04642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193334-E-1-B Acquired: 12/15/2021 20:13:29 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**126.14**	**.13257**	**.00212**	**410.61**	**.06261**
Stddev	.73	.00035	.00007	.41	.00016
%RSD	.58121	.26741	3.1109	.09983	.25811
#1	126.66	.13282	.00217	410.90	.06249
#2	125.63	.13232	.00208	410.32	.06272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.99**	**.10471**	**52.212**	**.02425**	**.01964**
Stddev	.00	.00053	.028	.00334	.00189
%RSD	.0004	.50723	.05317	13.789	9.6171
#1	27.99	.10433	52.232	.02662	.01830
#2	27.99	.10508	52.192	.02189	.02098
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.863**	**.02599**	**1.4252**	**1.106**	**.04732**
Stddev	.046	.00033	.0020	.002	.00030
%RSD	.33399	1.2568	.14077	.1610	.62796
#1	13.896	.02576	1.4266	1.108	.04711
#2	13.830	.02622	1.4237	1.105	.04753
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193334-E-1-B Acquired: 12/15/2021 20:13:29 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00009**	**.03256**	**.66158**	**1.006**
Stddev	.00026	.00027	.00430	.000
%RSD	290.25	.81663	.65000	.0301
#1	.00027	.03275	.66462	1.005
#2	-.00009	.03237	.65854	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2707.4**	**2820.9**	**24671.**	**3125.5**
Stddev	3.6	5.4	79.	1.0
%RSD	.13284	.19273	.31836	.03172
#1	2709.9	2824.7	24616.	3124.8
#2	2704.8	2817.0	24727.	3126.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.092%	92.214%	92.123%	105.89%
Range				

Sample Name: MB 480-608766/1-B Acquired: 12/15/2021 20:17:17 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00717**	**-.00066**	**.00177**	**.00012**
Stddev	.00088	.00320	.00041	.00027	.00004
%RSD	194.88	44.586	61.719	15.471	34.602
#1	-.00108	.00491	-.00037	.00197	.00009
#2	.00017	.00943	-.00094	.00158	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.01440**	**-.00002**	**-.0281**	**-.00019**
Stddev	.00001	.00378	.00029	.0017	.00006
%RSD	6.3959	26.259	1406.0	5.976	30.077
#1	-.00011	.01708	.00018	-.0269	-.00015
#2	-.00010	.01173	-.00022	-.0292	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00096**	**.01263**	**.03394**	**.00154**
Stddev	.00028	.00040	.00018	.03553	.00108
%RSD	184.80	41.019	1.4226	104.69	70.569
#1	-.00035	.00124	.01275	.05907	.00077
#2	.00005	.00068	.01250	.00882	.00230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608766/1-B Acquired: 12/15/2021 20:17:17 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00723**	**.00006**	**-.00137**	**.05946**	**.00003**
Stddev	.00232	.00004	.00017	.00317	.00011
%RSD	32.112	65.181	12.233	5.3310	324.52
#1	.00559	.00003	-.00125	.06170	-.00004
#2	.00888	.00009	-.00148	.05721	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00049**	**.00913**	**.00071**	**-.00075**
Stddev	.00	.00027	.00114	.00239	.00092
%RSD	.0016	55.967	12.465	339.01	121.86
#1	25.01	.00029	.00993	.00240	-.00010
#2	25.01	.00068	.00832	-.00099	-.00140
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00774**	**-.00007**	**.00005**	**.9982**	**.00001**
Stddev	.00882	.00004	.00008	.0047	.00019
%RSD	113.93	54.312	171.10	.4714	3556.9
#1	-.01397	-.00010	-.00001	.9948	-.00013
#2	-.00150	-.00004	.00011	1.001	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608766/1-B Acquired: 12/15/2021 20:17:17 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00002**	**.00417**	**.9997**
Stddev	.00006	.00064	.00009	.0001
%RSD	23.966	2913.6	2.2459	.0084
#1	-.00021	.00043	.00424	.9998
#2	-.00029	-.00047	.00410	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3506.7**	**3111.6**	**28009.**	**3148.3**
Stddev	6.9	.0	20.	13.3
%RSD	.19554	.00101	.07078	.42235
#1	3511.5	3111.5	28023.	3157.7
#2	3501.8	3111.6	27995.	3138.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.15%	101.72%	104.58%	106.66%
Range				

Sample Name: LCS 480-608766/2-B Acquired: 12/15/2021 20:21:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05012**	**9.9431**	**.19359**	**.20537**	**.20645**
Stddev	.00008	.0451	.00034	.00018	.00054
%RSD	.15545	.45312	.17519	.08873	.26135
#1	.05007	9.9750	.19335	.20524	.20683
#2	.05018	9.9113	.19383	.20550	.20607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19398**	**9.7402**	**.18831**	**-.0355**	**.19897**
Stddev	.00059	.0031	.00006	.0327	.00021
%RSD	.30576	.03133	.03418	92.18	.10591
#1	.19356	9.7424	.18836	-.0587	.19882
#2	.19440	9.7381	.18827	-.0124	.19912
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18981**	**.20628**	**10.236**	**9.6288**	**.18874**
Stddev	.00070	.00163	.019	.0036	.00113
%RSD	.36768	.78982	.18236	.03736	.59651
#1	.18932	.20743	10.249	9.6314	.18954
#2	.19031	.20513	10.223	9.6263	.18795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608766/2-B Acquired: 12/15/2021 20:21:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2375**	**.19337**	**.20458**	**8.9966**	**.18124**
Stddev	.0110	.00009	.00011	.0132	.00092
%RSD	.11949	.04798	.05335	.14686	.50972
#1	9.2297	.19330	.20450	8.9872	.18189
#2	9.2453	.19344	.20465	9.0059	.18059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.86**	**.20319**	**9.9246**	**.19858**	**.19049**
Stddev	.00	.00039	.0029	.00012	.00005
%RSD	.0004	.18951	.02873	.06287	.02765
#1	24.86	.20346	9.9266	.19849	.19046
#2	24.86	.20292	9.9226	.19867	.19053
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3102**	**.19087**	**.18324**	**1.003**	**.20362**
Stddev	.0579	.00101	.00055	.003	.00010
%RSD	.62169	.52662	.29997	.3004	.04745
#1	9.2693	.19016	.18285	1.001	.20355
#2	9.3512	.19158	.18363	1.005	.20369
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608766/2-B Acquired: 12/15/2021 20:21:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19738**	**.19421**	**.20056**	**1.004**
Stddev	.00255	.00037	.00042	.000
%RSD	1.2896	.19195	.21095	.0432
#1	.19918	.19447	.20026	1.003
#2	.19558	.19394	.20086	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3321.1**	**3073.0**	**27408.**	**3158.2**
Stddev	6.6	10.0	52.	1.0
%RSD	.19781	.32531	.18852	.03292
#1	3316.4	3066.0	27371.	3158.9
#2	3325.7	3080.1	27444.	3157.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.793%	100.46%	102.34%	106.99%
Range				

Sample Name: 480-193322-E-1-B Acquired: 12/15/2021 20:24:39 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00154**	**.02073**	**.00299**	**.20392**	**.15974**
Stddev	.00133	.02669	.00071	.00042	.00038
%RSD	86.116	128.76	23.606	.20479	.23857
#1	-.00248	.03960	.00249	.20362	.16001
#2	-.00060	.00186	.00349	.20421	.15947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**229.98**	**.00023**	**-.0523**	**.00095**
Stddev	.00008	.99	.00014	.0099	.00006
%RSD	73.032	.43000	58.719	19.01	6.4104
#1	-.00005	230.67	.00014	-.0594	.00099
#2	-.00017	229.28	.00033	-.0453	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00070**	**.00799**	**7.8046**	**.04770**
Stddev	.00038	.00052	.00286	.0653	.00162
%RSD	299.48	74.827	35.777	.83642	3.4055
#1	.00040	.00107	.01001	7.8508	.04656
#2	-.00014	.00033	.00597	7.7584	.04885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193322-E-1-B Acquired: 12/15/2021 20:24:39 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.359**	**.56593**	**.00203**	**25.287**	**.00374**
Stddev	.096	.00060	.00007	.143	.00037
%RSD	.24398	.10605	3.4045	.56736	9.9079
#1	39.291	.56550	.00198	25.388	.00348
#2	39.427	.56635	.00208	25.185	.00400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00396**	**12.150**	**.00012**	**.00111**
Stddev	.00	.00110	.008	.00025	.00341
%RSD	.0064	27.921	.06211	202.04	307.86
#1	25.01	.00474	12.155	-.00005	.00352
#2	25.01	.00317	12.145	.00030	-.00130
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.267**	**-.00006**	**1.4530**	**1.000**	**.00130**
Stddev	.079	.00027	.0090	.003	.00023
%RSD	.64107	461.12	.61732	.2568	18.028
#1	12.323	.00013	1.4593	.9985	.00147
#2	12.212	-.00024	1.4467	1.002	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193322-E-1-B Acquired: 12/15/2021 20:24:39 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00114**	**-.00068**	**.01920**	**.9986**
Stddev	.00009	.00001	.00002	.0011
%RSD	7.5608	1.3575	.08809	.1084
#1	.00108	-.00068	.01919	.9978
#2	.00120	-.00067	.01922	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3021.3**	**2915.5**	**25994.**	**3080.2**
Stddev	1.2	1.0	17.	9.6
%RSD	.03944	.03586	.06594	.31075
#1	3020.4	2916.2	26006.	3073.4
#2	3022.1	2914.7	25981.	3086.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.146%	95.307%	97.060%	104.35%
Range				

Sample Name: 480-193322-E-2-B Acquired: 12/15/2021 20:28:21 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**-.01838**	**-.00059**	**.23707**	**.07120**
Stddev	.00100	.02420	.00019	.00036	.00003
%RSD	157.22	131.71	32.077	.15325	.04711
#1	.00007	-.03549	-.00072	.23681	.07123
#2	-.00135	-.00126	-.00046	.23733	.07118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**159.26**	**.00086**	**-.0021**	**.00053**
Stddev	.00001	.08	.00004	.0035	.00022
%RSD	20.548	.05108	4.9130	164.4	42.184
#1	-.00008	159.32	.00089	.0003	.00069
#2	-.00006	159.20	.00083	-.0046	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00127**	**.00233**	**8.0146**	**.14726**
Stddev	.00026	.00070	.00056	.0224	.00191
%RSD	1718.4	55.041	23.896	.27929	1.2958
#1	.00017	.00078	.00193	7.9988	.14591
#2	-.00020	.00177	.00272	8.0304	.14861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193322-E-2-B Acquired: 12/15/2021 20:28:21 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**272.67**	**.12015**	**.00388**	**229.09**	**.00128**
Stddev	.37	.00048	.00014	.20	.00021
%RSD	.13589	.40272	3.6975	.08911	16.258
#1	272.41	.12049	.00378	228.95	.00113
#2	272.93	.11981	.00399	229.24	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00276**	F **103.10**	**-.00352**	**-.00304**
Stddev	.00	.00151	.04	.00293	.00160
%RSD	.0018	54.623	.03835	83.432	52.676
#1	25.01	.00169	103.07	-.00559	-.00191
#2	25.01	.00382	103.13	-.00144	-.00418
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.0538**	**.00006**	F **9.6976**	**.9935**	**.00105**
Stddev	.0187	.00020	.0345	.0033	.00034
%RSD	.26586	312.54	.35601	.3353	31.974
#1	7.0670	.00020	9.6732	.9912	.00081
#2	7.0405	-.00008	9.7220	.9959	.00129
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-193322-E-2-B Acquired: 12/15/2021 20:28:21 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00054**	**.00486**	**.9987**
Stddev	.00252	.00030	.00040	.0010
%RSD	2567.8	56.428	8.1490	.0965
#1	-.00168	.00075	.00458	.9980
#2	.00188	.00032	.00514	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2776.1**	**2788.9**	**24884.**	**3026.7**
Stddev	1.1	1.5	60.	19.5
%RSD	.03906	.05200	.24037	.64349
#1	2776.9	2787.9	24841.	3040.5
#2	2775.3	2789.9	24926.	3012.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.074%	91.169%	92.915%	102.54%
Range				

Sample Name: 480-193322-E-3-B Acquired: 12/15/2021 20:32:21 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.02515**	**.00233**	**.31127**	**.03241**
Stddev	.00095	.02234	.00021	.00068	.00009
%RSD	142.02	88.827	8.8876	.21840	.27105
#1	-.00135	.00935	.00247	.31175	.03247
#2	.00000	.04094	.00218	.31078	.03234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**228.73**	**.00085**	**-.0313**	**.00123**
Stddev	.00011	.65	.00010	.0023	.00022
%RSD	107.43	.28280	11.767	7.407	17.622
#1	-.00018	229.18	.00092	-.0329	.00107
#2	-.00002	228.27	.00077	-.0297	.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00242**	**-.00249**	**13.758**	**.15109**
Stddev	.00000	.00179	.00368	.018	.00061
%RSD	56.861	74.074	147.84	.13052	.40093
#1	-.00000	.00368	.00011	13.771	.15066
#2	-.00001	.00115	-.00509	13.745	.15151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193322-E-3-B Acquired: 12/15/2021 20:32:21 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**431.23**	**.13361**	**.00359**	**159.24**	**.00293**
Stddev	2.65	.00028	.00021	.48	.00039
%RSD	.61423	.20659	5.7571	.30327	13.450
#1	429.36	.13380	.00374	159.58	.00265
#2	433.10	.13341	.00344	158.89	.00321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00247**	F **677.48**	**-.00147**	**-.00320**
Stddev	.00	.00123	.78	.00236	.00005
%RSD	.0022	49.681	.11467	160.52	1.6921
#1	25.01	.00334	678.03	.00020	-.00316
#2	25.01	.00160	676.93	-.00314	-.00324
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.0253**	**.00311**	**7.6908**	**.9924**	**.00136**
Stddev	.0015	.00025	.1157	.0113	.00015
%RSD	.01618	8.0174	1.5047	1.138	11.190
#1	9.0263	.00329	7.6089	.9844	.00125
#2	9.0242	.00294	7.7726	1.000	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193322-E-3-B Acquired: 12/15/2021 20:32:21 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00017**	**.02877**	**.9995**
Stddev	.00034	.00086	.00013	.0007
%RSD	101.63	510.95	.46385	.0743
#1	-.00057	.00078	.02887	.9989
#2	-.00009	-.00044	.02868	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2764.3**	**2771.0**	**24684.**	**3013.6**
Stddev	5.5	1.1	49.	13.2
%RSD	.19808	.03826	.19684	.43886
#1	2768.2	2771.7	24650.	3004.2
#2	2760.5	2770.2	24719.	3022.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.735%	90.583%	92.171%	102.09%
Range				

Sample Name: 480-193322-E-4-B Acquired: 12/15/2021 20:36:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00847**	**.00445**	**.33288**	**.02461**
Stddev	.00049	.02483	.00122	.00024	.00006
%RSD	146.85	293.26	27.533	.07083	.25831
#1	-.00068	-.00909	.00531	.33272	.02466
#2	.00001	.02602	.00358	.33305	.02457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**248.81**	**.00075**	**.0020**	**.00171**
Stddev	.00004	3.91	.00016	.0375	.00011
%RSD	123.45	1.5701	21.747	1899.	6.4760
#1	-.00006	246.05	.00063	-.0245	.00179
#2	-.00000	251.58	.00086	.0285	.00164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00236**	**.00399**	**12.609**	**.14103**
Stddev	.00033	.00083	.00182	.051	.00126
%RSD	115.01	35.337	45.496	.40382	.89062
#1	.00052	.00294	.00528	12.573	.14192
#2	.00005	.00177	.00271	12.645	.14014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193322-E-4-B Acquired: 12/15/2021 20:36:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**399.47**	**.36480**	**.00412**	**154.59**	**.00206**
Stddev	1.99	.00205	.00004	.29	.00035
%RSD	.49847	.56253	.97383	.18955	17.182
#1	400.88	.36625	.00409	154.80	.00231
#2	398.07	.36335	.00415	154.38	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00296**	F **649.98**	**-.00305**	**-.00225**
Stddev	.00	.00233	.61	.00076	.00721
%RSD	.0062	78.959	.09399	24.832	320.52
#1	25.01	.00461	650.41	-.00251	-.00735
#2	25.01	.00131	649.55	-.00358	.00285
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2410**	**-.00021**	F **9.6621**	**.9960**	**.00200**
Stddev	.0010	.00023	.0506	.0028	.00012
%RSD	.01039	112.38	.52401	.2810	5.9268
#1	9.2417	-.00037	9.6263	.9940	.00208
#2	9.2404	-.00004	9.6979	.9979	.00191
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-193322-E-4-B Acquired: 12/15/2021 20:36:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00093**	**.00519**	**.9992**
Stddev	.00038	.00006	.00007	.0026
%RSD	1434.6	6.9381	1.3932	.2560
#1	.00030	-.00088	.00513	1.001
#2	-.00024	-.00097	.00524	.9974
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2748.2**	**2753.2**	**24637.**	**3012.9**
Stddev	3.3	4.3	76.	8.4
%RSD	.12146	.15527	.30987	.27787
#1	2745.8	2750.2	24583.	3018.8
#2	2750.5	2756.2	24690.	3006.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.268%	90.002%	91.993%	102.07%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 20:40:15 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0387**	**50.219**	**.94473**	**1.0492**	**.93978**
Stddev	.0011	.055	.00204	.0021	.00055
%RSD	.10550	.10996	.21598	.20085	.05885
#1	1.0395	50.258	.94329	1.0477	.93938
#2	1.0380	50.180	.94618	1.0507	.94017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94343**	**50.117**	**.95067**	**.9696**	**1.0401**
Stddev	.00003	.061	.00191	.0081	.0007
%RSD	.00269	.12227	.20104	.8393	.06302
#1	.94342	50.160	.94932	.9753	1.0405
#2	.94345	50.073	.95202	.9638	1.0396
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97566**	**1.0360**	**50.165**	**48.842**	**.95671**
Stddev	.00120	.0034	.187	.065	.00247
%RSD	.12293	.32657	.37199	.13379	.25863
#1	.97651	1.0384	50.297	48.796	.95496
#2	.97482	1.0336	50.033	48.888	.95845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 20:40:15 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.500**	**.95395**	**1.0220**	**46.517**	**.94570**
Stddev	.002	.00039	.0015	.007	.00281
%RSD	.00343	.04061	.14276	.01523	.29730
#1	45.501	.95423	1.0231	46.512	.94371
#2	45.499	.95368	1.0210	46.522	.94768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.89**	**1.0273**	**26.023**	**.94030**	**.98951**
Stddev	.00	.0021	.014	.00033	.00269
%RSD	.0060	.20711	.05482	.03526	.27196
#1	37.89	1.0288	26.033	.94006	.98760
#2	37.89	1.0258	26.013	.94053	.99141
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9175**	**1.0213**	**.92137**	**1.522**	**1.0254**
Stddev	.0241	.0007	.00075	.000	.0013
%RSD	.24327	.07118	.08099	.0292	.12309
#1	9.9005	1.0218	.92084	1.522	1.0263
#2	9.9346	1.0208	.92190	1.521	1.0245
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 20:40:15 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98888**	**.99427**	**1.0104**	**1.500**
Stddev	.00222	.00216	.0018	.002
%RSD	.22433	.21717	.18007	.0973
#1	.98731	.99579	1.0091	1.499
#2	.99045	.99274	1.0116	1.501
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3013.1**	**2987.2**	**26203.**	**3033.6**
Stddev	1.6	3.4	58.	6.7
%RSD	.05452	.11532	.22088	.21962
#1	3011.9	2984.8	26244.	3028.9
#2	3014.3	2989.6	26162.	3038.4

Sample Name: CCB-6810114 Acquired: 12/15/2021 20:43:47 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.01953**	**.00220**	**-.00000**	**.00005**
Stddev	.00015	.00795	.00026	.00018	.00001
%RSD	15.214	40.707	12.018	3921.2	18.984
#1	-.00090	.02515	.00201	.00013	.00004
#2	-.00112	.01391	.00239	-.00013	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.01628**	**.00003**	**-.0214**	**-.00025**
Stddev	.00003	.00213	.00002	.0247	.00015
%RSD	211.17	13.097	77.533	115.5	59.610
#1	.00001	.01779	.00001	-.0039	-.00014
#2	-.00003	.01477	.00005	-.0388	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00072**	**-.00159**	**.01137**	**.00042**
Stddev	.00039	.00021	.00104	.01079	.00141
%RSD	1198.8	28.893	65.478	94.877	339.21
#1	-.00031	.00057	-.00233	.01900	-.00058
#2	.00025	.00087	-.00086	.00374	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 20:43:47 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02610**	**-.00008**	**.00024**	**.02675**	**.00078**
Stddev	.00187	.00005	.00004	.03035	.00010
%RSD	7.1649	62.082	18.339	113.43	13.049
#1	.02478	-.00004	.00027	.00529	.00071
#2	.02742	-.00011	.00021	.04821	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00027**	**.07691**	**.00120**	**-.00208**
Stddev	.00	.00086	.00511	.00046	.00090
%RSD	.0010	321.34	6.6376	38.600	43.260
#1	25.01	-.00034	.08052	.00087	-.00144
#2	25.01	.00088	.07330	.00152	-.00271
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01299**	**.00043**	**.00090**	**1.001**	**-.00003**
Stddev	.00943	.00025	.00003	.012	.00001
%RSD	72.600	58.780	3.0289	1.214	36.478
#1	-.01966	.00025	.00088	1.009	-.00003
#2	-.00632	.00060	.00092	.9921	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 20:43:47 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.00010**	**.00015**	**.9987**
Stddev	.00142	.00038	.00029	.0012
%RSD	372.93	379.07	195.33	.1167
#1	-.00139	.00017	-.00006	.9979
#2	.00062	-.00037	.00035	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3467.4**	**3073.1**	**27515.**	**3064.6**
Stddev	6.8	2.3	31.	7.4
%RSD	.19520	.07485	.11400	.24101
#1	3472.2	3074.7	27493.	3069.9
#2	3462.6	3071.5	27537.	3059.4

Sample Name: CCVL-6811103 Acquired: 12/15/2021 20:47:36 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00547**	**.20427**	**.01501**	**.01926**	**.00201**
Stddev	.00013	.02043	.00029	.00052	.00005
%RSD	2.4599	9.9993	1.9104	2.6797	2.6527
#1	.00557	.18983	.01521	.01962	.00205
#2	.00538	.21871	.01481	.01889	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.50855**	**.00186**	**-.0250**	**.00374**
Stddev	.00001	.00070	.00006	.0002	.00003
%RSD	.52202	.13734	3.3310	.8584	.89221
#1	.00197	.50904	.00190	-.0249	.00376
#2	.00198	.50805	.00181	-.0252	.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00384**	**.01121**	**.04923**	**.47938**	**.02978**
Stddev	.00014	.00003	.00234	.00724	.00157
%RSD	3.5665	.23804	4.7558	1.5100	5.2690
#1	.00394	.01119	.04758	.48449	.03089
#2	.00375	.01123	.05089	.47426	.02867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 20:47:36 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20041**	**.00282**	**.00936**	**.92055**	**.00933**
Stddev	.00302	.00001	.00005	.00782	.00012
%RSD	1.5047	.44820	.58416	.84910	1.3117
#1	.20254	.00283	.00939	.92607	.00941
#2	.19828	.00281	.00932	.91502	.00924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01098**	**.25068**	**.01743**	**.02511**
Stddev	.00	.00029	.00287	.00089	.00231
%RSD	.0031	2.6743	1.1435	5.0912	9.2028
#1	25.00	.01077	.25271	.01805	.02674
#2	25.00	.01119	.24865	.01680	.02347
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45552**	**.00953**	**.00525**	F **.9907**	**.00478**
Stddev	.00818	.00028	.00009	.0071	.00068
%RSD	1.7960	2.9436	1.6317	.7140	14.204
#1	.46130	.00972	.00519	.9957	.00430
#2	.44973	.00933	.00531	.9857	.00526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 20:47:36 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01838**	**.00466**	**.01045**	F **1.000**
Stddev	.00037	.00073	.00024	.001
%RSD	2.0345	15.615	2.2549	.0465
#1	.01864	.00517	.01028	1.000
#2	.01812	.00414	.01061	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3467.8**	**3085.9**	**27685.**	**3087.6**
Stddev	11.1	9.5	57.	13.1
%RSD	.31898	.30671	.20600	.42285
#1	3460.0	3079.2	27644.	3096.8
#2	3475.6	3092.6	27725.	3078.3

Sample Name: 480-193322-E-5-B Acquired: 12/15/2021 20:51:23 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00662**	**.00448**	**.21622**	**.02683**
Stddev	.00060	.04284	.00060	.00093	.00007
%RSD	1141.8	647.18	13.349	.42804	.24546
#1	-.00037	.02367	.00406	.21556	.02678
#2	.00047	-.03691	.00491	.21687	.02687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**158.57**	**.00080**	**-.0306**	**-.00007**
Stddev	.00003	.26	.00008	.0362	.00035
%RSD	586.97	.16575	9.3720	118.4	498.03
#1	.00002	158.38	.00085	-.0562	.00017
#2	-.00003	158.75	.00075	-.0050	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00152**	**-.00380**	**11.356**	**.08617**
Stddev	.00002	.00045	.00272	.008	.00203
%RSD	8.1869	29.725	71.716	.06997	2.3553
#1	-.00023	.00120	-.00187	11.361	.08760
#2	-.00026	.00184	-.00572	11.350	.08473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193322-E-5-B Acquired: 12/15/2021 20:51:23 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**290.91**	**.01331**	**.00717**	**85.503**	**.00180**
Stddev	3.20	.00005	.00002	.107	.00016
%RSD	1.0986	.38908	.30905	.12456	8.7887
#1	293.17	.01334	.00715	85.427	.00191
#2	288.65	.01327	.00718	85.578	.00169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00156**	F **448.93**	**-.00025**	**-.00011**
Stddev	.00	.00231	.30	.00188	.00281
%RSD	.0001	147.64	.06731	739.19	2639.6
#1	25.01	-.00007	449.14	-.00159	.00188
#2	25.01	.00320	448.72	.00108	-.00210
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.5693**	**-.00008**	**5.3763**	**.9891**	**.00091**
Stddev	.0098	.00012	.0107	.0052	.00005
%RSD	.12899	163.14	.19870	.5260	5.0408
#1	7.5762	.00001	5.3688	.9928	.00087
#2	7.5624	-.00016	5.3839	.9854	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193322-E-5-B Acquired: 12/15/2021 20:51:23 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00082**	**-.00013**	**.00421**	**.9991**
Stddev	.00069	.00051	.00053	.0005
%RSD	84.509	390.66	12.634	.0528
#1	.00130	-.00050	.00383	.9988
#2	.00033	.00023	.00459	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2885.9**	**2836.7**	**25195.**	**3051.3**
Stddev	4.7	.4	93.	.9
%RSD	.16327	.01387	.36791	.02820
#1	2889.2	2837.0	25130.	3050.7
#2	2882.6	2836.4	25261.	3051.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.241%	92.731%	94.079%	103.37%
Range				

Sample Name: 480-193322-A-6-B Acquired: 12/15/2021 20:55:18 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.03591**	**.00210**	**.47828**	**.01947**
Stddev	.00033	.01797	.00104	.00018	.00002
%RSD	64.667	50.033	49.751	.03807	.11623
#1	-.00028	.04861	.00284	.47815	.01945
#2	-.00074	.02320	.00136	.47841	.01948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**402.42**	**.00075**	**-.0177**	**.00008**
Stddev	.00007	1.33	.00017	.0165	.00010
%RSD	49.988	.32989	22.760	93.32	130.04
#1	-.00009	403.36	.00063	-.0060	.00015
#2	-.00019	401.48	.00087	-.0294	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00195**	**.01127**	**.00239**	**15.356**	**.27452**
Stddev	.00013	.00057	.00075	.134	.00082
%RSD	6.4563	5.0990	31.267	.87473	.29843
#1	.00204	.01087	.00186	15.261	.27394
#2	.00186	.01168	.00292	15.451	.27510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193322-A-6-B Acquired: 12/15/2021 20:55:18 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **696.92**	**.00964**	**.01681**	**240.51**	**.00436**
Stddev	1.68	.00007	.00034	.30	.00018
%RSD	.24055	.67907	2.0169	.12430	4.0279
#1	698.10	.00960	.01705	240.29	.00448
#2	695.73	.00969	.01657	240.72	.00423
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	450.00				
Low Limit	-.20000				

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.01158**	F **1354.5**	**-.00151**	**-.00082**
Stddev	.00	.00030	.4	.00166	.00493
%RSD	.0062	2.5915	.02589	109.93	599.89
#1	25.12	.01137	1354.8	-.00034	-.00431
#2	25.12	.01180	1354.3	-.00268	.00266
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1205**	**.00017**	**6.8488**	**.9935**	**.00302**
Stddev	.0066	.00013	.0398	.0067	.00006
%RSD	.07289	76.040	.58119	.6785	1.8894
#1	9.1158	.00026	6.8769	.9888	.00298
#2	9.1252	.00008	6.8206	.9983	.00306
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193322-A-6-B Acquired: 12/15/2021 20:55:18 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00166**	**.09927**	**.9989**
Stddev	.00038	.00006	.00013	.0014
%RSD	1075.2	3.6157	.12652	.1353
#1	.00030	.00171	.09936	.9999
#2	-.00023	.00162	.09918	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2633.6**	**2671.6**	**23843.**	**2977.9**
Stddev	.1	.4	57.	4.3
%RSD	.00283	.01603	.23950	.14533
#1	2633.5	2671.3	23803.	2981.0
#2	2633.7	2671.9	23884.	2974.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.964%	87.334%	89.030%	100.89%
Range				

Sample Name: 480-193206-R-2-B Acquired: 12/15/2021 20:59:23 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.02263**	**.00063**	**.00886**	**.13965**
Stddev	.00076	.00713	.00248	.00003	.00010
%RSD	325.23	31.497	394.87	.34736	.07455
#1	-.00077	.02767	-.00112	.00888	.13958
#2	.00030	.01759	.00238	.00884	.13973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**79.428**	**.00004**	**-.0252**	**-.00022**
Stddev	.00006	.305	.00016	.0019	.00000
%RSD	77.803	.38401	390.76	7.453	2.0727
#1	-.00004	79.212	-.00007	-.0266	-.00022
#2	-.00013	79.643	.00016	-.0239	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00238**	**-.00366**	**.81242**	**.01157**
Stddev	.00003	.00096	.00116	.06990	.00057
%RSD	6.5098	40.411	31.661	8.6036	4.9370
#1	.00041	.00170	-.00284	.76300	.01198
#2	.00045	.00306	-.00447	.86185	.01117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-2-B Acquired: 12/15/2021 20:59:23 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.324**	**-.00002**	**-.00118**	**2.3028**	**.00054**
Stddev	.016	.00006	.00003	.0185	.00030
%RSD	.15192	238.33	2.5967	.80351	56.336
#1	10.312	-.00006	-.00120	2.2897	.00032
#2	10.335	.00002	-.00116	2.3159	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00070**	**1.4278**	**-.00274**	**-.00007**
Stddev	.00	.00024	.0153	.00051	.00514
%RSD	.0031	33.849	1.0711	18.736	7811.6
#1	25.01	.00053	1.4386	-.00237	-.00370
#2	25.01	.00087	1.4169	-.00310	.00357
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9842**	**-.00029**	**.14182**	**.9998**	**.00013**
Stddev	.0061	.00000	.00079	.0091	.00121
%RSD	.20364	.04261	.56003	.9137	946.21
#1	2.9885	-.00029	.14126	1.006	-.00073
#2	2.9799	-.00029	.14238	.9933	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-2-B Acquired: 12/15/2021 20:59:23 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00115**	**.00001**	**.00310**	**.9990**
Stddev	.00087	.00019	.00018	.0001
%RSD	75.508	2134.5	5.7362	.0091
#1	.00054	-.00012	.00297	.9991
#2	.00177	.00014	.00322	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3250.4**	**3020.3**	**27012.**	**3116.0**
Stddev	.5	1.2	19.	6.3
%RSD	.01585	.03824	.06915	.20197
#1	3250.7	3021.2	27025.	3111.5
#2	3250.0	3019.5	26999.	3120.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.754%	98.736%	100.86%	105.56%
Range				

Sample Name: 480-193206-R-6-B Acquired: 12/15/2021 21:03:10 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.01800**	**.00248**	**.02519**	**.22415**
Stddev	.00100	.00020	.00152	.00011	.00017
%RSD	141.86	1.0997	61.288	.44875	.07394
#1	.00000	.01786	.00356	.02511	.22403
#2	-.00141	.01814	.00141	.02527	.22427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**155.77**	**.00017**	**-.0362**	**-.00021**
Stddev	.00009	.20	.00008	.0181	.00007
%RSD	106.00	.12674	49.170	50.00	31.776
#1	-.00014	155.91	.00011	-.0234	-.00016
#2	-.00002	155.63	.00023	-.0491	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00233**	**.03930**	**2.7954**	**.01421**
Stddev	.00015	.00053	.00135	.0374	.00015
%RSD	47.204	22.635	3.4437	1.3378	1.0857
#1	.00021	.00270	.03834	2.7690	.01410
#2	.00042	.00195	.04026	2.8219	.01432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-6-B Acquired: 12/15/2021 21:03:10 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.902**	**.00163**	**-.00037**	**21.083**	**.00089**
Stddev	.052	.00004	.00018	.016	.00072
%RSD	.20022	2.3536	49.358	.07550	81.558
#1	25.939	.00160	-.00050	21.094	.00038
#2	25.866	.00165	-.00024	21.072	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00129**	**7.3407**	**-.00099**	**.00119**
Stddev	.00	.00008	.0058	.00146	.00082
%RSD	.0024	6.2495	.07941	147.71	68.787
#1	25.01	.00135	7.3448	-.00202	.00177
#2	25.01	.00124	7.3366	.00004	.00061
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5363**	**-.00026**	**.29114**	**1.001**	**.00051**
Stddev	.0207	.00040	.00005	.001	.00019
%RSD	.45555	157.35	.01606	.1035	37.620
#1	4.5216	.00003	.29111	1.001	.00038
#2	4.5509	-.00054	.29118	1.002	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-6-B Acquired: 12/15/2021 21:03:10 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00085**	**.01120**	**.9990**
Stddev	.00023	.00004	.00021	.0003
%RSD	78.591	4.2718	1.8596	.0309
#1	-.00045	-.00088	.01105	.9992
#2	-.00013	-.00082	.01135	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3091.7**	**2946.0**	**26295.**	**3083.7**
Stddev	.8	.0	101.	5.5
%RSD	.02489	.00090	.38437	.17891
#1	3091.1	2946.1	26366.	3087.6
#2	3092.2	2946.0	26223.	3079.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.177%	96.307%	98.185%	104.47%
Range				

Sample Name: 480-193206-R-6-BSD@5 Acquired: 12/15/2021 21:06:54 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.02241**	**.00292**	**.00351**	**.04424**
Stddev	.00059	.00572	.00385	.00004	.00003
%RSD	121.64	25.531	131.73	1.1540	.06868
#1	-.00091	.02645	.00020	.00354	.04426
#2	-.00007	.01836	.00564	.00348	.04422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**30.827**	**.00006**	**.0095**	**-.00021**
Stddev	.00004	.022	.00018	.0731	.00008
%RSD	63.374	.07108	318.37	769.9	39.657
#1	-.00003	30.811	.00018	.0612	-.00026
#2	-.00008	30.842	-.00007	-.0422	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00223**	**.00432**	**.52019**	**.00385**
Stddev	.00002	.00055	.00074	.04061	.00261
%RSD	12.745	24.746	17.082	7.8068	67.957
#1	-.00017	.00184	.00380	.49147	.00569
#2	-.00014	.00262	.00484	.54890	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-6-BSD@5 Acquired: 12/15/2021 21:06:54 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2303**	**.00040**	**-.00135**	**4.1605**	**.00042**
Stddev	.0193	.00006	.00003	.0117	.00007
%RSD	.36983	14.333	2.1070	.27995	16.516
#1	5.2439	.00044	-.00133	4.1688	.00047
#2	5.2166	.00036	-.00137	4.1523	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00077**	**1.4867**	**-.00124**	**-.00011**
Stddev	.00	.00059	.0070	.00008	.00260
%RSD	.0023	77.007	.46943	6.2789	2427.7
#1	25.01	.00035	1.4916	-.00129	.00173
#2	25.01	.00119	1.4817	-.00118	-.00195
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.88155**	**-.00039**	**.05874**	**.9971**	**.00000**
Stddev	.00065	.00059	.00019	.0087	.00027
%RSD	.07362	150.91	.31869	.8706	16948.
#1	.88201	.00003	.05861	1.003	-.00019
#2	.88110	-.00080	.05888	.9909	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-6-BSD@5 Acquired: 12/15/2021 21:06:54 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00118**	**-.00037**	**.00185**	**.9989**
Stddev	.00073	.00031	.00021	.0004
%RSD	62.301	83.332	11.430	.0441
#1	.00170	-.00015	.00200	.9986
#2	.00066	-.00059	.00170	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3336.4**	**3045.1**	**27209.**	**3098.0**
Stddev	5.9	3.8	159.	6.4
%RSD	.17816	.12362	.58350	.20571
#1	3340.6	3047.8	27097.	3102.5
#2	3332.2	3042.4	27321.	3093.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.236%	99.545%	101.60%	104.95%
Range				

Sample Name: 480-193206-R-6-BPDS Acquired: 12/15/2021 21:10:40 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05212**	**9.9081**	**.20535**	**.23273**	**.42047**
Stddev	.00109	.0481	.00077	.00013	.00120
%RSD	2.0932	.48531	.37348	.05650	.28628
#1	.05289	9.9421	.20589	.23282	.41962
#2	.05135	9.8741	.20480	.23264	.42132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20092**	**160.74**	**.19699**	**-.0827**	**.21043**
Stddev	.00028	.21	.00039	.0043	.00023
%RSD	.13888	.13119	.19640	5.192	.11015
#1	.20112	160.59	.19726	-.0797	.21027
#2	.20072	160.89	.19671	-.0858	.21059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19593**	**.21545**	**10.497**	**12.397**	**.19813**
Stddev	.00056	.00026	.028	.047	.00051
%RSD	.28430	.12173	.26299	.38083	.25735
#1	.19554	.21564	10.478	12.363	.19777
#2	.19632	.21527	10.517	12.430	.19849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-6-BPDS Acquired: 12/15/2021 21:10:40 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.607**	**.19727**	**.21285**	**29.331**	**.18988**
Stddev	.040	.00026	.00062	.046	.00049
%RSD	.11461	.13104	.28957	.15801	.25557
#1	34.635	.19708	.21328	29.298	.19022
#2	34.579	.19745	.21241	29.364	.18954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.86**	**.21595**	**17.621**	**.20279**	**.20003**
Stddev	.00	.00115	.012	.00054	.00218
%RSD	.0027	.53459	.07038	.26693	1.0877
#1	24.86	.21677	17.630	.20241	.19849
#2	24.86	.21513	17.612	.20318	.20157
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.929**	**.20780**	**.45948**	**1.009**	**.21398**
Stddev	.034	.00033	.00116	.013	.00053
%RSD	.24154	.15817	.25250	1.278	.24933
#1	13.905	.20757	.45865	1.018	.21360
#2	13.953	.20803	.46030	.9997	.21436
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-6-BPDS Acquired: 12/15/2021 21:10:40 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20548**	**.20243**	**.21312**	**1.005**
Stddev	.00079	.00130	.00187	.001
%RSD	.38251	.64237	.87643	.1191
#1	.20493	.20151	.21180	1.006
#2	.20604	.20335	.21444	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3020.4**	**2945.0**	**26202.**	**3094.5**
Stddev	1.3	4.8	151.	13.2
%RSD	.04139	.16295	.57713	.42710
#1	3021.3	2941.6	26309.	3103.8
#2	3019.5	2948.4	26095.	3085.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.121%	96.274%	97.838%	104.84%
Range				

Sample Name: 480-193206-R-6-C MS Acquired: 12/15/2021 21:14:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05162**	**9.9806**	**.19879**	**.23473**	**.42877**
Stddev	.00094	.0417	.00098	.00047	.00046
%RSD	1.8252	.41824	.49405	.20109	.10723
#1	.05095	9.9511	.19949	.23439	.42909
#2	.05228	10.010	.19810	.23506	.42844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19762**	**165.86**	**.19235**	**-.0545**	**.20514**
Stddev	.00117	.80	.00049	.0282	.00036
%RSD	.59303	.48235	.25635	51.83	.17789
#1	.19845	166.43	.19270	-.0345	.20489
#2	.19679	165.30	.19200	-.0744	.20540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19039**	**.21078**	**10.185**	**12.568**	**.19918**
Stddev	.00013	.00160	.018	.082	.00113
%RSD	.06768	.76089	.17662	.65354	.56605
#1	.19048	.21191	10.198	12.626	.19998
#2	.19029	.20964	10.172	12.509	.19838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-6-C MS Acquired: 12/15/2021 21:14:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.266**	**.19268**	**.20872**	**30.265**	**.18550**
Stddev	.034	.00017	.00007	.119	.00023
%RSD	.09613	.09062	.03279	.39156	.12486
#1	35.242	.19256	.20867	30.349	.18534
#2	35.290	.19280	.20877	30.181	.18567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.87**	**.20939**	**17.676**	**.20309**	**.19798**
Stddev	.00	.00161	.007	.00099	.00114
%RSD	.0011	.77122	.04239	.48820	.57724
#1	24.87	.20824	17.671	.20238	.19718
#2	24.87	.21053	17.681	.20379	.19879
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.007**	**.19854**	**.47209**	**1.001**	**.20850**
Stddev	.017	.00070	.00004	.007	.00032
%RSD	.11784	.35357	.00944	.7473	.15373
#1	14.019	.19804	.47206	1.007	.20827
#2	13.995	.19903	.47212	.9961	.20872
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-6-C MS Acquired: 12/15/2021 21:14:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19955**	**.19642**	**.20770**	**.9995**
Stddev	.00054	.00007	.00007	.0005
%RSD	.27029	.03528	.03431	.0519
#1	.19917	.19637	.20765	.9992
#2	.19994	.19647	.20775	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3017.0**	**2942.7**	**26265.**	**3082.3**
Stddev	1.9	5.0	27.	6.2
%RSD	.06252	.17003	.10253	.20154
#1	3018.3	2946.2	26246.	3077.9
#2	3015.7	2939.2	26284.	3086.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.023%	96.197%	98.072%	104.42%
Range				

Sample Name: 480-193206-R-6-D MSD Acquired: 12/15/2021 21:17:49 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05161**	**9.9405**	**.19736**	**.23405**	**.42762**
Stddev	.00010	.0081	.00011	.00036	.00035
%RSD	.18632	.08131	.05826	.15458	.08281
#1	.05168	9.9348	.19728	.23431	.42787
#2	.05155	9.9462	.19744	.23379	.42737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19621**	**164.75**	**.19092**	**-.0430**	**.20584**
Stddev	.00020	.18	.00021	.0072	.00027
%RSD	.10331	.11081	.11021	16.68	.13356
#1	.19607	164.88	.19077	-.0379	.20603
#2	.19636	164.62	.19107	-.0481	.20564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18992**	**.21062**	**10.135**	**12.483**	**.19827**
Stddev	.00036	.00002	.015	.018	.00015
%RSD	.18859	.01088	.15140	.14267	.07734
#1	.18966	.21064	10.146	12.495	.19816
#2	.19017	.21061	10.124	12.470	.19837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-6-D MSD Acquired: 12/15/2021 21:17:49 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.995**	**.19144**	**.20773**	**30.061**	**.18512**
Stddev	.053	.00014	.00009	.004	.00072
%RSD	.15027	.07511	.04189	.01187	.39149
#1	34.957	.19134	.20779	30.058	.18563
#2	35.032	.19154	.20767	30.063	.18461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.87**	**.20991**	**17.928**	**.20228**	**.19592**
Stddev	.00	.00191	.025	.00126	.00015
%RSD	.0048	.90852	.14008	.62414	.07745
#1	24.87	.20856	17.946	.20139	.19602
#2	24.87	.21126	17.911	.20317	.19581
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.964**	**.19788**	**.46879**	**1.003**	**.20805**
Stddev	.047	.00047	.00003	.003	.00041
%RSD	.33856	.23900	.00716	.3245	.19869
#1	13.930	.19821	.46877	1.005	.20834
#2	13.997	.19754	.46882	1.000	.20776
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-6-D MSD Acquired: 12/15/2021 21:17:49 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19635**	**.19420**	**.20670**	**.9998**
Stddev	.00091	.00020	.00057	.0002
%RSD	.46096	.10281	.27807	.0234
#1	.19571	.19434	.20711	1.000
#2	.19699	.19406	.20630	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3021.7**	**2954.8**	**26261.**	**3105.3**
Stddev	.4	1.9	55.	20.6
%RSD	.01218	.06293	.20928	.66279
#1	3022.0	2953.5	26222.	3090.7
#2	3021.4	2956.1	26300.	3119.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.158%	96.594%	98.059%	105.20%
Range				

Sample Name: 480-193206-R-9-B Acquired: 12/15/2021 21:21:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.01542**	**.00145**	**.00307**	**.08849**
Stddev	.00075	.04247	.00166	.00024	.00019
%RSD	1928.8	275.38	113.77	7.8239	.21050
#1	-.00049	.04545	.00028	.00324	.08863
#2	.00057	-.01461	.00263	.00290	.08836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**30.584**	**.00019**	**.0012**	**.00013**
Stddev	.00005	.113	.00018	.0037	.00001
%RSD	194.57	.36936	97.166	307.8	8.8493
#1	.00001	30.664	.00006	.0038	.00014
#2	-.00006	30.504	.00032	-.0014	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00185**	**-.00150**	**.38447**	**.00450**
Stddev	.00015	.00028	.00051	.02373	.00215
%RSD	36.307	15.175	34.350	6.1710	47.715
#1	-.00031	.00205	-.00113	.36769	.00602
#2	-.00053	.00165	-.00186	.40124	.00298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-9-B Acquired: 12/15/2021 21:21:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4636**	**.08106**	**-.00084**	**1.9406**	**.00082**
Stddev	.0105	.00021	.00001	.0038	.00001
%RSD	.23466	.25885	.62244	.19704	1.2859
#1	4.4562	.08091	-.00085	1.9379	.00083
#2	4.4710	.08121	-.00084	1.9433	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00334**	**2.8499**	**-.00072**	**.00051**
Stddev	.00	.00133	.0069	.00146	.00284
%RSD	.0022	39.960	.24038	201.06	555.62
#1	25.01	.00239	2.8451	.00031	.00252
#2	25.01	.00428	2.8548	-.00176	-.00150
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8716**	**-.00023**	**.04760**	**.9969**	**.00052**
Stddev	.0199	.00005	.00010	.0042	.00009
%RSD	.69463	23.338	.21633	.4233	17.913
#1	2.8858	-.00019	.04752	.9939	.00058
#2	2.8575	-.00027	.04767	.9998	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-9-B Acquired: 12/15/2021 21:21:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00040**	**.00858**	**.9986**
Stddev	.00018	.00049	.00004	.0008
%RSD	596.06	121.37	.43616	.0756
#1	.00010	-.00074	.00861	.9991
#2	-.00016	-.00006	.00855	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3375.7**	**3067.9**	**27468.**	**3131.0**
Stddev	11.4	5.3	198.	28.1
%RSD	.33717	.17333	.72028	.89740
#1	3367.7	3064.2	27328.	3111.1
#2	3383.8	3071.7	27608.	3150.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.369%	100.29%	102.56%	106.07%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 21:25:11 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0433**	**50.374**	**.94678**	**1.0509**	**.94485**
Stddev	.0006	.028	.00116	.0012	.00088
%RSD	.05395	.05483	.12265	.11208	.09278
#1	1.0437	50.354	.94760	1.0518	.94423
#2	1.0429	50.393	.94596	1.0501	.94547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94732**	**50.259**	**.95323**	**.9961**	**1.0457**
Stddev	.00163	.068	.00125	.0614	.0008
%RSD	.17201	.13449	.13088	6.163	.07390
#1	.94847	50.211	.95411	1.040	1.0462
#2	.94617	50.307	.95235	.9527	1.0451
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98322**	**1.0437**	**50.254**	**48.990**	**.95823**
Stddev	.00218	.0022	.079	.104	.00071
%RSD	.22135	.20908	.15736	.21206	.07440
#1	.98476	1.0452	50.309	48.916	.95773
#2	.98169	1.0421	50.198	49.063	.95874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 21:25:11 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.797**	**.96002**	**1.0264**	**46.644**	**.95094**
Stddev	.026	.00098	.0007	.061	.00352
%RSD	.05656	.10221	.06912	.13038	.36967
#1	45.815	.96071	1.0259	46.687	.95343
#2	45.778	.95933	1.0269	46.601	.94845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.94**	**1.0338**	**26.065**	**.94556**	**.99469**
Stddev	.01	.0020	.017	.00578	.00255
%RSD	.0374	.18967	.06550	.61088	.25679
#1	37.93	1.0324	26.053	.94965	.99289
#2	37.95	1.0351	26.077	.94148	.99650
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.006**	**1.0282**	**.92459**	**1.517**	**1.0308**
Stddev	.054	.0013	.00229	.001	.0010
%RSD	.53545	.12267	.24781	.0463	.09471
#1	9.9678	1.0291	.92621	1.517	1.0315
#2	10.044	1.0273	.92297	1.518	1.0301
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 21:25:11 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99372**	**1.0009**	**1.0144**	**1.497**
Stddev	.00043	.0006	.0024	.001
%RSD	.04336	.06336	.23328	.0335
#1	.99403	1.0014	1.0127	1.497
#2	.99342	1.0005	1.0160	1.498
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3000.4**	**2979.0**	**26087.**	**3042.2**
Stddev	7.2	3.3	65.	1.0
%RSD	.24070	.11083	.24744	.03366
#1	2995.3	2976.6	26041.	3041.5
#2	3005.5	2981.3	26133.	3043.0

Sample Name: CCB-6810114 Acquired: 12/15/2021 21:28:43 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**.02286**	**.00145**	**-.00121**	**.00002**
Stddev	.00085	.01569	.00206	.00021	.00004
%RSD	69.116	68.635	142.41	17.591	159.79
#1	-.00063	.01177	.00290	-.00136	.00005
#2	-.00183	.03395	-.00001	-.00106	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00941**	**-.00015**	**-.0216**	**-.00015**
Stddev	.00009	.00134	.00017	.0616	.00008
%RSD	150.92	14.218	109.42	284.8	50.860
#1	.00000	.00846	-.00003	.0219	-.00010
#2	-.00012	.01036	-.00027	-.0652	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00113**	**.00269**	**-.01343**	**.00252**
Stddev	.00023	.00039	.00181	.02617	.00052
%RSD	359.44	34.775	67.175	194.89	20.623
#1	-.00023	.00141	.00398	.00508	.00215
#2	.00010	.00085	.00141	-.03193	.00289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 21:28:43 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00535**	**-.00005**	**.00041**	**-.00475**	**.00078**
Stddev	.00074	.00003	.00002	.00564	.00037
%RSD	13.739	65.887	5.9895	118.74	47.436
#1	.00588	-.00007	.00039	-.00874	.00052
#2	.00483	-.00003	.00043	-.00076	.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00127**	**.03375**	**-.00097**	**.00318**
Stddev	.00	.00058	.00251	.00008	.00007
%RSD	.0038	45.422	7.4474	8.2487	2.0608
#1	25.01	.00168	.03553	-.00103	.00323
#2	25.01	.00086	.03197	-.00091	.00314
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00784**	**-.00009**	**.00016**	**1.001**	**-.00007**
Stddev	.00962	.00024	.00008	.008	.00060
%RSD	122.74	264.19	51.009	.7740	831.17
#1	-.00103	-.00026	.00022	1.006	.00035
#2	-.01464	.00008	.00010	.9954	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 21:28:43 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00001**	**-.00018**	**.9993**
Stddev	.00079	.00007	.00002	.0002
%RSD	373.71	482.91	9.8986	.0189
#1	.00077	-.00003	-.00017	.9994
#2	-.00035	.00006	-.00019	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3479.6**	**3076.8**	**27685.**	**3062.6**
Stddev	.8	.1	98.	1.3
%RSD	.02438	.00473	.35472	.04387
#1	3480.2	3076.7	27754.	3061.7
#2	3479.0	3076.9	27615.	3063.6

Sample Name: CCVL-6811103 Acquired: 12/15/2021 21:32:33 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00638**	**.20195**	**.01463**	**.01856**	**.00201**
Stddev	.00026	.00473	.00004	.00021	.00001
%RSD	4.0767	2.3406	.27909	1.1433	.49419
#1	.00657	.19861	.01466	.01841	.00201
#2	.00620	.20530	.01460	.01871	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.50155**	**.00182**	**.0083**	**.00363**
Stddev	.00003	.00451	.00006	.0282	.00005
%RSD	1.4180	.89877	3.3518	340.5	1.3522
#1	.00188	.49836	.00187	.0282	.00360
#2	.00185	.50473	.00178	-.0117	.00367
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00351**	**.01141**	**.04853**	**.44349**	**.02862**
Stddev	.00013	.00065	.00386	.00495	.00047
%RSD	3.8226	5.6836	7.9512	1.1170	1.6336
#1	.00341	.01095	.04580	.43999	.02829
#2	.00360	.01187	.05125	.44700	.02895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 21:32:33 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17957**	**.00272**	**.00929**	**.89731**	**.00937**
Stddev	.00198	.00006	.00006	.00629	.00021
%RSD	1.1022	2.1557	.68991	.70087	2.2813
#1	.17817	.00277	.00925	.89286	.00952
#2	.18097	.00268	.00934	.90176	.00922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01113**	**.22139**	**.01765**	**.02105**
Stddev	.00	.00040	.00311	.00342	.00166
%RSD	.0021	3.5772	1.4063	19.359	7.8761
#1	25.00	.01141	.22359	.01524	.02222
#2	25.00	.01085	.21919	.02007	.01988
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47606**	**.00902**	**.00452**	F **.9996**	**.00483**
Stddev	.00498	.00037	.00002	.0077	.00043
%RSD	1.0469	4.0981	.44123	.7716	8.8156
#1	.47254	.00928	.00454	.9941	.00453
#2	.47959	.00876	.00451	1.005	.00514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 21:32:33 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01758**	**.00445**	**.01001**	F **.9989**
Stddev	.00062	.00022	.00018	.0010
%RSD	3.5182	4.9266	1.7635	.0973
#1	.01802	.00461	.00989	.9996
#2	.01714	.00430	.01013	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3481.7**	**3091.9**	**27711.**	**3098.6**
Stddev	.7	3.7	56.	4.4
%RSD	.01916	.12074	.20091	.14086
#1	3481.3	3089.3	27671.	3101.7
#2	3482.2	3094.6	27750.	3095.5

Sample Name: 480-193206-R-11-B Acquired: 12/15/2021 21:36:20 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**-.01877**	**.00159**	**.02774**	**.09050**
Stddev	.00024	.00673	.00203	.00040	.00019
%RSD	115.54	35.871	127.93	1.4365	.21475
#1	-.00038	-.02353	.00302	.02802	.09064
#2	-.00004	-.01401	.00015	.02746	.09036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**53.877**	**.00017**	**-.0424**	**-.00014**
Stddev	.00000	.108	.00007	.0335	.00004
%RSD	3.3258	.20026	39.530	78.98	27.799
#1	-.00014	53.954	.00021	-.0661	-.00011
#2	-.00013	53.801	.00012	-.0187	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00141**	**.00087**	**.91720**	**.00630**
Stddev	.00013	.00101	.00088	.07583	.00143
%RSD	31.336	72.083	101.85	8.2672	22.781
#1	-.00049	.00212	.00024	.86359	.00528
#2	-.00031	.00069	.00149	.97082	.00731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-11-B Acquired: 12/15/2021 21:36:20 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.253**	**.12481**	**.00010**	**12.510**	**.00084**
Stddev	.034	.00030	.00020	.001	.00001
%RSD	.30535	.24126	201.10	.00992	.99723
#1	11.228	.12460	-.00004	12.509	.00084
#2	11.277	.12502	.00024	12.511	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00220**	**6.1418**	**-.00083**	**.00072**
Stddev	.00	.00018	.0011	.00087	.00307
%RSD	.0029	8.2978	.01808	104.49	424.17
#1	25.01	.00233	6.1425	-.00022	-.00145
#2	25.01	.00207	6.1410	-.00145	.00289
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6352**	**-.00012**	**.15244**	**1.002**	**-.00005**
Stddev	.0057	.00030	.00015	.008	.00016
%RSD	.15590	249.22	.10112	.7841	353.66
#1	3.6311	-.00033	.15255	1.007	-.00016
#2	3.6392	.00009	.15233	.9961	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193206-R-11-B Acquired: 12/15/2021 21:36:20 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00033**	**-.00009**	**.00725**	**.9984**
Stddev	.00109	.00084	.00023	.0002
%RSD	334.29	950.41	3.1730	.0240
#1	.00110	-.00068	.00741	.9985
#2	-.00045	.00050	.00709	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3281.1**	**3040.1**	**27145.**	**3149.3**
Stddev	6.7	2.7	32.	11.6
%RSD	.20301	.08931	.11900	.36701
#1	3276.4	3042.1	27122.	3141.2
#2	3285.8	3038.2	27168.	3157.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.639%	99.382%	101.36%	106.69%
Range				

Sample Name: 480-193337-E-2-B Acquired: 12/15/2021 21:40:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.03848**	**.00139**	**.00885**	**.15515**
Stddev	.00017	.04880	.00006	.00024	.00062
%RSD	79.989	126.81	4.1825	2.6876	.40154
#1	-.00033	.00397	.00143	.00868	.15471
#2	-.00009	.07298	.00135	.00902	.15559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**41.524**	**.00019**	**-.0205**	**-.00028**
Stddev	.00000	.057	.00017	.0067	.00001
%RSD	5.0187	.13716	88.411	32.50	3.5040
#1	-.00009	41.484	.00031	-.0158	-.00028
#2	-.00008	41.564	.00007	-.0252	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00158**	**.00174**	**.70848**	**.00797**
Stddev	.00003	.00053	.00101	.08514	.00021
%RSD	63.041	33.825	58.219	12.018	2.6177
#1	-.00002	.00120	.00246	.64827	.00783
#2	-.00006	.00196	.00103	.76868	.00812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193337-E-2-B Acquired: 12/15/2021 21:40:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.7394**	**.14306**	**-.00052**	**4.4644**	**.00034**
Stddev	.0027	.00002	.00026	.0056	.00003
%RSD	.03060	.01686	50.639	.12646	8.6435
#1	8.7413	.14304	-.00070	4.4605	.00032
#2	8.7375	.14307	-.00033	4.4684	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00278**	**4.7781**	**-.00190**	**.00111**
Stddev	.00	.00009	.0007	.00081	.00162
%RSD	.0038	3.0747	.01510	42.760	145.45
#1	25.01	.00272	4.7786	-.00248	.00226
#2	25.01	.00284	4.7776	-.00133	-.00003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6841**	**-.00014**	**.07122**	**1.005**	**.00075**
Stddev	.0016	.00068	.00013	.003	.00058
%RSD	.03470	479.41	.18060	.3305	77.943
#1	4.6853	-.00062	.07131	1.007	.00033
#2	4.6830	.00034	.07113	1.003	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193337-E-2-B Acquired: 12/15/2021 21:40:04 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.00002**	**.00594**	**.9995**
Stddev	.00056	.00018	.00020	.0007
%RSD	154.12	1056.4	3.2910	.0677
#1	-.00076	.00014	.00581	.9991
#2	.00003	-.00011	.00608	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3343.3**	**3061.8**	**27375.**	**3150.7**
Stddev	3.6	.7	42.	19.5
%RSD	.10861	.02184	.15336	.61940
#1	3345.9	3062.3	27345.	3164.5
#2	3340.7	3061.3	27405.	3136.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.435%	100.09%	102.22%	106.74%
Range				

Sample Name: 480-193337-E-1-B Acquired: 12/15/2021 21:43:48 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.02499**	**.00065**	**.00769**	**.06429**
Stddev	.00003	.00966	.00162	.00038	.00008
%RSD	9.5041	38.670	249.72	4.9593	.12306
#1	-.00031	.01816	.00179	.00742	.06434
#2	-.00035	.03182	-.00050	.00796	.06423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**41.255**	**.00006**	**-.0458**	**-.00023**
Stddev	.00012	.034	.00008	.0067	.00025
%RSD	2548.3	.08128	130.18	14.60	112.86
#1	-.00009	41.231	.00000	-.0410	-.00005
#2	.00008	41.278	.00011	-.0505	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.00155**	**.00683**	**.86142**	**.01040**
Stddev	.00019	.00057	.00045	.03016	.00165
%RSD	41.791	37.166	6.5513	3.5013	15.858
#1	-.00059	.00195	.00651	.88275	.00923
#2	-.00032	.00114	.00714	.84009	.01156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193337-E-1-B Acquired: 12/15/2021 21:43:48 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6506**	**.00027**	**-.00047**	**3.9828**	**.00035**
Stddev	.0039	.00003	.00031	.0139	.00007
%RSD	.04540	10.587	67.154	.34908	20.049
#1	8.6478	.00025	-.00069	3.9730	.00030
#2	8.6534	.00029	-.00024	3.9926	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00260**	**4.6760**	**-.00005**	**-.00182**
Stddev	.00	.00057	.0008	.00078	.00381
%RSD	.0078	22.024	.01633	1573.3	209.06
#1	25.01	.00219	4.6765	-.00060	-.00452
#2	25.01	.00300	4.6754	.00050	.00087
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4282**	**.00001**	**.06624**	**1.000**	**.00041**
Stddev	.0323	.00011	.00010	.002	.00028
%RSD	.72961	744.49	.14709	.2289	67.944
#1	4.4511	-.00006	.06631	1.002	.00022
#2	4.4054	.00009	.06618	.9986	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193337-E-1-B Acquired: 12/15/2021 21:43:48 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00067**	**-.00005**	**.00967**	**.9978**
Stddev	.00105	.00021	.00004	.0007
%RSD	156.21	406.19	.36444	.0674
#1	-.00141	-.00020	.00965	.9973
#2	.00007	.00010	.00970	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3323.0**	**3047.0**	**27362.**	**3152.7**
Stddev	.9	5.7	46.	3.9
%RSD	.02839	.18545	.16837	.12213
#1	3322.4	3043.0	27330.	3149.9
#2	3323.7	3051.0	27395.	3155.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.850%	99.605%	102.17%	106.81%
Range				

Sample Name: LB 480-608769/1-B Acquired: 12/15/2021 21:47:33 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00104**	**-.00124**	**.00123**	**.01222**	**.00482**
Stddev	.00091	.02834	.00115	.00029	.00000
%RSD	87.228	2279.7	93.600	2.3321	.02615
#1	-.00040	.01880	.00204	.01242	.00482
#2	-.00168	-.02128	.00042	.01202	.00482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.24097**	**-.00006**	**-.0524**	**-.00073**
Stddev	.00001	.00489	.00009	.0342	.00010
%RSD	3.5769	2.0278	138.94	65.20	13.048
#1	-.00019	.24443	-.00000	-.0766	-.00080
#2	-.00018	.23752	-.00013	-.0283	-.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00144**	**-.00171**	**.16387**	**.00214**
Stddev	.00042	.00050	.00089	.00830	.00053
%RSD	52.819	34.565	52.102	5.0623	24.796
#1	.00110	.00109	-.00108	.15800	.00177
#2	.00050	.00179	-.00233	.16974	.00252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-608769/1-B Acquired: 12/15/2021 21:47:33 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04206**	**.00036**	**-.00120**	F **1123.4**	**.00019**
Stddev	.00373	.00003	.00005	2.5	.00081
%RSD	8.8765	8.7492	3.9140	.21933	430.88
#1	.03942	.00034	-.00124	1125.2	-.00038
#2	.04470	.00038	-.00117	1121.7	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00092**	**.05213**	**-.00407**	**-.00338**
Stddev	.00	.00031	.00265	.00170	.00128
%RSD	.0046	33.459	5.0901	41.709	38.010
#1	25.01	-.00070	.05026	-.00287	-.00428
#2	25.01	-.00114	.05401	-.00526	-.00247
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00048**	**.00064**	**.9942**	**-.00078**
Stddev	.01474	.00084	.00002	.0027	.00012
%RSD	3352.4	175.86	2.3330	.2707	15.196
#1	-.01086	-.00012	.00066	.9961	-.00070
#2	.00998	.00107	.00063	.9923	-.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-608769/1-B Acquired: 12/15/2021 21:47:33 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00056**	**-.00034**	**.00600**	**.9987**
Stddev	.00072	.00039	.00018	.0013
%RSD	129.07	113.59	3.0222	.1293
#1	.00005	-.00007	.00588	.9997
#2	.00107	-.00062	.00613	.9978
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2727.7**	**2792.1**	**23988.**	**3023.9**
Stddev	.8	2.5	30.	5.2
%RSD	.02765	.09125	.12516	.17274
#1	2727.2	2790.3	23967.	3027.6
#2	2728.2	2793.9	24010.	3020.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.678%	91.275%	89.573%	102.44%
Range				

Sample Name: MB 480-608963/2-A Acquired: 12/15/2021 21:51:26 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.01475**	**.00256**	**-.00171**	**-.00008**
Stddev	.00016	.00137	.00028	.00010	.00003
%RSD	27.146	9.2632	10.800	6.0839	42.776
#1	-.00047	.01571	.00276	-.00164	-.00005
#2	-.00070	.01378	.00237	-.00179	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00373**	**-.00003**	**.0105**	**-.00024**
Stddev	.00007	.00019	.00012	.0071	.00019
%RSD	143.92	5.1649	416.76	67.62	76.245
#1	-.00010	.00359	.00005	.0055	-.00011
#2	.00000	.00387	-.00011	.0156	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00100**	**-.00502**	**.01612**	**.00173**
Stddev	.00000	.00106	.00174	.02178	.00023
%RSD	3.2024	105.94	34.593	135.13	13.107
#1	-.00004	.00176	-.00379	.00072	.00157
#2	-.00003	.00025	-.00625	.03152	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608963/2-A Acquired: 12/15/2021 21:51:26 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.00009**	**-.00141**	**.13026**	**.00056**
Stddev	.00253	.00004	.00011	.00004	.00019
%RSD	332.74	40.576	7.9291	.03019	33.636
#1	.00103	.00007	-.00149	.13023	.00069
#2	-.00254	.00012	-.00133	.13029	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00172**	**.01596**	**.00015**	**-.00145**
Stddev	.00	.00158	.00058	.00244	.00105
%RSD	.0026	92.313	3.6201	1646.8	71.975
#1	25.01	.00060	.01637	-.00158	-.00071
#2	25.01	.00284	.01555	.00187	-.00219
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00359**	**-.00022**	**-.00007**	**1.001**	**-.00044**
Stddev	.00337	.00009	.00004	.005	.00032
%RSD	93.896	40.335	60.267	.5108	71.706
#1	.00597	-.00016	-.00004	1.005	-.00022
#2	.00121	-.00028	-.00010	.9973	-.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608963/2-A Acquired: 12/15/2021 21:51:26 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00035**	**.00334**	**.9992**
Stddev	.00075	.00082	.00036	.0005
%RSD	336.27	236.77	10.787	.0464
#1	-.00075	.00023	.00359	.9989
#2	.00031	-.00092	.00309	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3513.2**	**3112.0**	**27889.**	**3118.1**
Stddev	3.9	5.7	131.	.4
%RSD	.11175	.18398	.46853	.01227
#1	3510.5	3107.9	27796.	3117.8
#2	3516.0	3116.0	27981.	3118.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.34%	101.73%	104.14%	105.64%
Range				

Sample Name: LCS 480-608963/3-A Acquired: 12/15/2021 21:55:12 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1048**	**-.02306**	**1.0357**	**.01967**	**.96224**
Stddev	.0027	.00276	.0008	.00017	.00275
%RSD	.24207	11.973	.07924	.88186	.28555
#1	1.1029	-.02501	1.0352	.01955	.96419
#2	1.1067	-.02111	1.0363	.01979	.96030
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96486**	**.23697**	**.99115**	**-.0608**	**1.0583**
Stddev	.00078	.00546	.00227	.0225	.0014
%RSD	.08033	2.3059	.22941	36.95	.12728
#1	.96541	.24084	.99275	-.0449	1.0573
#2	.96431	.23311	.98954	-.0767	1.0592
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97953**	**1.0365**	**-.00377**	**.17079**	**.00209**
Stddev	.00113	.0002	.00140	.03812	.00062
%RSD	.11512	.02185	37.065	22.323	29.464
#1	.97873	1.0366	-.00278	.19774	.00166
#2	.98032	1.0363	-.00476	.14383	.00253
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: LCS 480-608963/3-A Acquired: 12/15/2021 21:55:12 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02196**	**.96980**	**1.0347**	**1126.6**	**.97667**
Stddev	.00265	.00033	.0026	2.1	.00082
%RSD	12.073	.03356	.25441	.18803	.08400
#1	.02008	.96957	1.0366	1128.1	.97725
#2	.02383	.97003	1.0329	1125.1	.97609
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **24.30**	**1.0581**	**.04827**	**1.0225**	**1.0482**
Stddev	.00	.0011	.00007	.0032	.0064
%RSD	.0180	.10611	.13508	.31538	.60796
#1	24.30	1.0573	.04831	1.0248	1.0527
#2	24.30	1.0589	.04822	1.0203	1.0437
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit	1.200				
Low Limit	.8000				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02069**	**.00007**	**.09217**	**.9994**	**-.00002**
Stddev	.00525	.00036	.00031	.0002	.00002
%RSD	25.357	517.92	.33190	.0238	120.30
#1	.02440	-.00019	.09238	.9996	-.00003
#2	.01698	.00032	.09195	.9992	-.00000
Check ?	None	None	None	Chk Pass	None
High Limit					
Low Limit					

Sample Name: LCS 480-608963/3-A Acquired: 12/15/2021 21:55:12 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.97714**	**1.0133**	**1.0786**	**.9984**
Stddev	.00107	.0007	.0043	.0000
%RSD	.10916	.06529	.39624	.0030
#1	.97639	1.0128	1.0816	.9985
#2	.97790	1.0138	1.0756	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2714.5**	**2784.5**	**23947.**	**2969.6**
Stddev	.6	2.3	58.	2.9
%RSD	.02338	.08143	.24398	.09849
#1	2714.0	2782.8	23906.	2967.5
#2	2714.9	2786.1	23988.	2971.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.297%	91.024%	89.418%	100.60%
Range				

Sample Name: 480-193346-A-1-C Acquired: 12/15/2021 21:58:58 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.02542**	**.00177**	**.02475**	**.43400**
Stddev	.00049	.04577	.00134	.00038	.00002
%RSD	242.15	180.06	75.731	1.5308	.00519
#1	-.00054	-.00694	.00082	.02502	.43398
#2	.00014	.05778	.00272	.02448	.43402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**612.68**	**.00017**	**-.0671**	**-.00054**
Stddev	.00004	1.67	.00001	.0409	.00004
%RSD	35.669	.27295	4.3432	60.97	7.9685
#1	-.00014	613.86	.00016	-.0960	-.00057
#2	-.00008	611.49	.00017	-.0382	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00479**	**.00955**	**2.9049**	**.01827**
Stddev	.00008	.00132	.00266	.0191	.00029
%RSD	11.800	27.462	27.877	.65785	1.6005
#1	.00071	.00572	.00767	2.9184	.01806
#2	.00060	.00386	.01144	2.8914	.01847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193346-A-1-C Acquired: 12/15/2021 21:58:58 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.331**	**.36541**	**.00073**	F **1172.5**	**.00389**
Stddev	.008	.00056	.00027	7.5	.00010
%RSD	.07541	.15354	37.470	.63681	2.5557
#1	10.337	.36581	.00053	1167.2	.00382
#2	10.326	.36501	.00092	1177.7	.00396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00126**	**1.8097**	**.00105**	**.00445**
Stddev	.00	.00001	.0062	.00298	.00482
%RSD	.0046	.87558	.34045	284.09	108.27
#1	25.01	-.00125	1.8141	-.00106	.00786
#2	25.01	-.00127	1.8054	.00315	.00104
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7759**	**-.00020**	**1.3904**	**1.005**	**.00410**
Stddev	.0091	.00017	.0037	.000	.00010
%RSD	.51471	83.413	.26279	.0139	2.4577
#1	1.7823	-.00032	1.3878	1.005	.00417
#2	1.7694	-.00008	1.3930	1.005	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193346-A-1-C Acquired: 12/15/2021 21:58:58 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00007**	**.00683**	**.9983**
Stddev	.00126	.00012	.00001	.0010
%RSD	1421.6	163.96	.14922	.1021
#1	.00098	.00001	.00683	.9976
#2	-.00080	-.00016	.00682	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2525.0**	**2641.6**	**23053.**	**2948.0**
Stddev	4.4	4.5	4.	6.2
%RSD	.17282	.16886	.01717	.20948
#1	2528.1	2644.8	23055.	2952.4
#2	2521.9	2638.5	23050.	2943.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.830%	86.355%	86.078%	99.875%
Range				

Sample Name: 240-161159-H-1-C Acquired: 12/15/2021 22:02:54 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.08024**	**.00338**	**.06978**	**.19743**
Stddev	.00022	.02679	.00016	.00048	.00002
%RSD	60.748	33.382	4.6657	.68390	.01035
#1	-.00053	.09918	.00349	.06944	.19742
#2	-.00021	.06130	.00327	.07012	.19745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**4.0970**	**.00014**	**-.0180**	**.00170**
Stddev	.00003	.0058	.00006	.0032	.00018
%RSD	16.800	.14136	39.999	17.86	10.578
#1	.00017	4.0929	.00018	-.0158	.00158
#2	.00021	4.1011	.00010	-.0203	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00974**	**.00187**	**.52779**	**.69297**	**.00383**
Stddev	.00028	.00037	.00237	.04395	.00016
%RSD	2.8455	19.956	.44914	6.3424	4.1816
#1	.00994	.00160	.52612	.72405	.00372
#2	.00954	.00213	.52947	.66189	.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161159-H-1-C Acquired: 12/15/2021 22:02:54 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5870**	**.01734**	**.00251**	F **1110.8**	**.00254**
Stddev	.0030	.00004	.00022	2.0	.00009
%RSD	.11543	.21025	8.6985	.18192	3.5683
#1	2.5849	.01731	.00235	1109.3	.00248
#2	2.5892	.01736	.00266	1112.2	.00261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.01873**	**12.401**	**-.00274**	**-.00053**
Stddev	.00	.00075	.012	.00313	.00228
%RSD	.0022	3.9976	.09656	114.00	432.78
#1	25.03	.01820	12.409	-.00495	.00109
#2	25.03	.01926	12.392	-.00053	-.00214
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.052**	**.00060**	**.11442**	**1.001**	**.00497**
Stddev	.246	.00094	.00029	.003	.00052
%RSD	.52300	155.20	.25485	.2719	10.561
#1	47.226	-.00006	.11463	.9991	.00460
#2	46.878	.00127	.11422	1.003	.00534
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161159-H-1-C Acquired: 12/15/2021 22:02:54 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00159**	**.00014**	**.01622**	**.9981**
Stddev	.00143	.00001	.00002	.0012
%RSD	90.161	8.1940	.14963	.1242
#1	-.00261	.00015	.01620	.9972
#2	-.00058	.00013	.01624	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2719.3**	**2824.4**	**24175.**	**3049.0**
Stddev	2.9	3.8	94.	27.3
%RSD	.10515	.13449	.38730	.89491
#1	2721.4	2827.1	24241.	3068.3
#2	2717.3	2821.7	24109.	3029.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.437%	92.329%	90.270%	103.30%
Range				

Sample Name: 240-161159-H-1-CSD@5 Acquired: 12/15/2021 22:06:43 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00092**	**.01779**	**-.00047**	**.01236**	**.03985**
Stddev	.00039	.02971	.00013	.00039	.00014
%RSD	42.625	166.99	28.237	3.1175	.36283
#1	-.00064	-.00322	-.00057	.01263	.03995
#2	-.00120	.03880	-.00038	.01209	.03975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.83313**	**-.00017**	**-.0113**	**.00024**
Stddev	.00000	.00926	.00017	.0329	.00008
%RSD	.74021	1.1118	102.33	290.4	32.743
#1	-.00012	.83968	-.00029	.0119	.00030
#2	-.00012	.82658	-.00005	-.0346	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00140**	**.00019**	**.09749**	**.10782**	**.00151**
Stddev	.00025	.00044	.00259	.01957	.00400
%RSD	17.510	227.89	2.6520	18.152	264.73
#1	.00157	-.00012	.09932	.12166	-.00132
#2	.00123	.00051	.09566	.09398	.00434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161159-H-1-CSD@5 Acquired: 12/15/2021 22:06:43 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51661**	**.00353**	**-.00035**	**219.70**	**.00048**
Stddev	.00242	.00005	.00041	.39	.00018
%RSD	.46863	1.4716	116.71	.17853	37.480
#1	.51833	.00356	-.00064	219.97	.00061
#2	.51490	.00349	-.00006	219.42	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00473**	**2.3751**	**-.00168**	**.00345**
Stddev	.00	.00160	.0040	.00082	.00129
%RSD	.0008	33.959	.16748	48.502	37.275
#1	25.01	.00586	2.3723	-.00226	.00436
#2	25.01	.00359	2.3779	-.00111	.00254
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7154**	**-.00010**	**.02264**	**1.002**	**.00048**
Stddev	.0305	.00024	.00007	.006	.00028
%RSD	.31361	244.45	.31163	.5630	58.378
#1	9.7369	.00007	.02269	.9977	.00028
#2	9.6938	-.00027	.02259	1.006	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161159-H-1-CSD@5 Acquired: 12/15/2021 22:06:43 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00033**	**.00264**	**.9984**
Stddev	.00148	.00025	.00033	.0009
%RSD	272.02	78.396	12.346	.0878
#1	-.00159	.00051	.00241	.9978
#2	.00050	.00014	.00287	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3035.8**	**2950.8**	**25913.**	**3042.2**
Stddev	10.4	6.1	50.	10.3
%RSD	.34330	.20794	.19192	.33798
#1	3028.4	2946.4	25878.	3034.9
#2	3043.2	2955.1	25948.	3049.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.565%	96.461%	96.760%	103.06%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 22:10:36 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0417**	**50.156**	**.94339**	**1.0478**	**.93834**
Stddev	.0014	.042	.00280	.0011	.00131
%RSD	.13127	.08408	.29638	.10522	.13980
#1	1.0427	50.186	.94142	1.0470	.93742
#2	1.0407	50.127	.94537	1.0486	.93927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94335**	**50.186**	**.95164**	**1.024**	**1.0418**
Stddev	.00228	.083	.00032	.017	.0011
%RSD	.24149	.16495	.03360	1.655	.10149
#1	.94174	50.128	.95186	1.036	1.0425
#2	.94497	50.245	.95141	1.012	1.0410
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97657**	**1.0403**	**50.289**	**48.900**	**.95658**
Stddev	.00324	.0000	.006	.043	.00027
%RSD	.33215	.00294	.01104	.08852	.02837
#1	.97427	1.0403	50.285	48.931	.95639
#2	.97886	1.0402	50.293	48.870	.95678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 22:10:36 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.558**	**.95540**	**1.0241**	**46.645**	**.94996**
Stddev	.039	.00075	.0016	.017	.00330
%RSD	.08528	.07825	.15686	.03671	.34716
#1	45.530	.95487	1.0253	46.657	.95229
#2	45.585	.95593	1.0230	46.633	.94763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.92**	**1.0300**	**26.021**	**.94313**	**.99248**
Stddev	.00	.0007	.003	.00388	.00167
%RSD	.0097	.07110	.01050	.41091	.16789
#1	37.92	1.0295	26.019	.94587	.99366
#2	37.92	1.0305	26.023	.94039	.99130
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.139**	**1.0233**	**.92312**	**1.517**	**1.0271**
Stddev	.062	.0036	.00196	.004	.0003
%RSD	.61148	.35334	.21204	.2694	.03270
#1	10.095	1.0258	.92450	1.520	1.0269
#2	10.182	1.0207	.92173	1.514	1.0274
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 22:10:36 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99133**	**.99637**	**1.0148**	**1.504**
Stddev	.00038	.00185	.0007	.000
%RSD	.03858	.18530	.07207	.0109
#1	.99160	.99506	1.0143	1.504
#2	.99106	.99767	1.0153	1.504
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3001.9**	**2975.8**	**26108.**	**3024.8**
Stddev	8.2	4.7	37.	12.1
%RSD	.27167	.15879	.14273	.40160
#1	2996.2	2972.5	26082.	3033.4
#2	3007.7	2979.1	26135.	3016.2

Sample Name: CCB-6810114 Acquired: 12/15/2021 22:14:09 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.01089**	**.00128**	**-.00117**	**.00004**
Stddev	.00054	.00643	.00060	.00025	.00002
%RSD	76.061	59.104	46.589	21.339	57.148
#1	-.00033	.01544	.00170	-.00135	.00005
#2	-.00109	.00634	.00086	-.00100	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00603**	**-.00008**	**-.0540**	**-.00001**
Stddev	.00004	.00367	.00009	.0616	.00005
%RSD	228.66	60.838	114.51	114.1	714.60
#1	.00001	.00863	-.00002	-.0104	-.00004
#2	-.00004	.00344	-.00015	-.0975	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00139**	**-.00205**	**.01693**	**.00090**
Stddev	.00018	.00044	.00379	.02976	.00081
%RSD	501.77	31.621	184.82	175.78	90.206
#1	.00017	.00108	.00063	-.00411	.00033
#2	-.00009	.00170	-.00473	.03797	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 22:14:09 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00233**	**-.00010**	**.00037**	**.14888**	**.00021**
Stddev	.00043	.00001	.00006	.00841	.00007
%RSD	18.388	5.7565	16.363	5.6512	31.883
#1	.00263	-.00011	.00033	.14293	.00016
#2	.00202	-.00010	.00041	.15483	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00095**	**.01077**	**-.00098**	**-.00011**
Stddev	.00	.00123	.00031	.00298	.00437
%RSD	.0026	129.57	2.8826	306.06	3854.0
#1	25.01	.00183	.01055	-.00309	-.00320
#2	25.01	.00008	.01099	.00114	.00297
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02800**	**.00024**	**.00010**	**.9971**	**-.00042**
Stddev	.00516	.00026	.00007	.0092	.00016
%RSD	18.426	106.86	67.749	.9217	38.430
#1	.02435	.00043	.00005	.9906	-.00054
#2	.03165	.00006	.00015	1.004	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 22:14:09 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00044**	**-.00015**	**.9987**
Stddev	.00123	.00022	.00013	.0004
%RSD	427.74	50.496	92.078	.0399
#1	-.00115	-.00028	-.00024	.9984
#2	.00058	-.00060	-.00005	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3470.2**	**3066.8**	**27496.**	**3081.8**
Stddev	1.1	1.7	5.	10.3
%RSD	.03219	.05691	.01954	.33515
#1	3471.0	3065.6	27499.	3089.1
#2	3469.4	3068.0	27492.	3074.5

Sample Name: CCVL-6811103 Acquired: 12/15/2021 22:17:59 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00596**	**.20109**	**.01238**	**.01822**	**.00203**
Stddev	.00071	.02159	.00157	.00055	.00002
%RSD	11.837	10.737	12.692	3.0140	.82446
#1	.00546	.21636	.01127	.01861	.00204
#2	.00645	.18582	.01350	.01783	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00181**	**.49534**	**.00208**	**-.0304**	**.00377**
Stddev	.00002	.00285	.00004	.0182	.00005
%RSD	.96117	.57627	2.0952	59.75	1.3287
#1	.00180	.49332	.00211	-.0176	.00373
#2	.00182	.49735	.00205	-.0433	.00380
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00391**	**.01170**	**.04784**	**.43397**	**.02768**
Stddev	.00016	.00020	.00003	.03883	.00212
%RSD	4.0188	1.7424	.07036	8.9475	7.6729
#1	.00380	.01184	.04786	.40652	.02918
#2	.00403	.01155	.04782	.46143	.02618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 22:17:59 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17802**	**.00282**	**.00935**	**1.0197**	**.00915**
Stddev	.00103	.00001	.00012	.0183	.00021
%RSD	.57805	.24244	1.3021	1.7977	2.2588
#1	.17875	.00281	.00927	1.0068	.00929
#2	.17729	.00282	.00944	1.0327	.00900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01087**	**.20245**	**.02023**	**.02388**
Stddev	.00	.00056	.00088	.00005	.00141
%RSD	.0008	5.1806	.43545	.24690	5.9070
#1	25.00	.01048	.20183	.02026	.02288
#2	25.00	.01127	.20307	.02019	.02487
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48959**	**.00932**	**.00448**	F **1.003**	**.00451**
Stddev	.00940	.00028	.00016	.002	.00017
%RSD	1.9197	3.0428	3.6184	.2079	3.8575
#1	.48295	.00952	.00437	1.002	.00464
#2	.49624	.00912	.00460	1.005	.00439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 22:17:59 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01933**	**.00456**	**.01018**	F **.9997**
Stddev	.00004	.00011	.00001	.0004
%RSD	.19798	2.4891	.11398	.0410
#1	.01936	.00464	.01019	1.000
#2	.01931	.00448	.01017	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3465.0**	**3079.7**	**27703.**	**3085.8**
Stddev	4.8	5.6	14.	11.8
%RSD	.13732	.18275	.05150	.38377
#1	3461.6	3075.7	27713.	3094.2
#2	3468.4	3083.7	27693.	3077.4

Sample Name: 240-161159-H-1-CPDS Acquired: 12/15/2021 22:21:46 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0795**	**.09747**	**1.0222**	**.07821**	**1.1319**
Stddev	.0026	.01467	.0028	.00016	.0045
%RSD	.23926	15.054	.27685	.20679	.39829
#1	1.0777	.10785	1.0202	.07833	1.1351
#2	1.0813	.08710	1.0242	.07810	1.1287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96810**	**4.0845**	**.96839**	**-.0708**	**1.0600**
Stddev	.00279	.0164	.00071	.0045	.0002
%RSD	.28859	.40240	.07351	6.337	.02123
#1	.97008	4.0961	.96889	-.0676	1.0602
#2	.96613	4.0728	.96788	-.0739	1.0598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97371**	**1.0220**	**.53094**	**.64388**	**.00521**
Stddev	.00286	.0013	.00540	.00643	.00169
%RSD	.29362	.12186	1.0174	.99876	32.369
#1	.97573	1.0211	.52712	.63934	.00641
#2	.97168	1.0229	.53476	.64843	.00402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161159-H-1-CPDS Acquired: 12/15/2021 22:21:46 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5681**	**.98526**	**1.0165**	F **1109.4**	**.97537**
Stddev	.0029	.00030	.0016	3.0	.00179
%RSD	.11421	.03034	.16074	.26656	.18400
#1	2.5701	.98505	1.0176	1111.5	.97664
#2	2.5660	.98547	1.0153	1107.3	.97411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.33**	**1.0674**	**12.307**	**.99535**	**1.0189**
Stddev	.00	.0007	.001	.00286	.0010
%RSD	.0063	.06248	.01167	.28722	.09540
#1	24.33	1.0669	12.308	.99737	1.0196
#2	24.33	1.0678	12.306	.99333	1.0182
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.222**	**.00105**	**.11415**	**.9987**	**.00516**
Stddev	.312	.00003	.00063	.0008	.00037
%RSD	.63348	2.9143	.55329	.0836	7.2600
#1	49.443	.00108	.11460	.9981	.00542
#2	49.002	.00103	.11370	.9993	.00489
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161159-H-1-CPDS Acquired: 12/15/2021 22:21:46 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.96547**	**.99612**	**1.0735**	**.9976**
Stddev	.00029	.00049	.0045	.0002
%RSD	.02964	.04920	.42299	.0169
#1	.96567	.99647	1.0767	.9977
#2	.96527	.99578	1.0703	.9975
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2717.3**	**2834.1**	**24286.**	**3022.2**
Stddev	4.2	1.6	103.	5.4
%RSD	.15276	.05595	.42555	.17705
#1	2714.4	2832.9	24213.	3018.4
#2	2720.3	2835.2	24360.	3026.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.379%	92.646%	90.685%	102.39%
Range				

Sample Name: 240-161159-H-1-D MS Acquired: 12/15/2021 22:25:29 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0599**	**.05584**	**.98974**	**.07737**	**1.1041**
Stddev	.0032	.03009	.00040	.00018	.0017
%RSD	.29835	53.875	.04029	.23849	.14994
#1	1.0621	.07712	.98946	.07724	1.1053
#2	1.0577	.03457	.99002	.07750	1.1029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94522**	**4.0308**	**.94977**	**-.0110**	**1.0417**
Stddev	.00307	.0239	.00057	.0222	.0021
%RSD	.32503	.59216	.06015	201.0	.20219
#1	.94740	4.0477	.95017	.0046	1.0432
#2	.94305	4.0139	.94937	-.0267	1.0403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95260**	**.99834**	**.52482**	**.64822**	**.00417**
Stddev	.00117	.00507	.00687	.01937	.00022
%RSD	.12277	.50763	1.3084	2.9876	5.2459
#1	.95177	1.0019	.52967	.66191	.00402
#2	.95343	.99476	.51996	.63452	.00433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161159-H-1-D MS Acquired: 12/15/2021 22:25:29 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5310**	**.96411**	**1.0007**	F **1092.7**	**.95587**
Stddev	.0159	.00316	.0006	1.8	.00267
%RSD	.62816	.32739	.05522	.16686	.27906
#1	2.5422	.96634	1.0011	1094.0	.95775
#2	2.5197	.96188	1.0003	1091.4	.95398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.34**	**1.0499**	**13.118**	**.96828**	**.82522**
Stddev	.00	.0038	.023	.00076	.00078
%RSD	.0012	.36598	.17729	.07873	.09420
#1	24.34	1.0526	13.135	.96774	.82577
#2	24.34	1.0472	13.102	.96882	.82467
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.512**	**.00080**	**.20008**	**.9966**	**.00445**
Stddev	.095	.00023	.00104	.0008	.00075
%RSD	.19279	29.201	.52031	.0759	16.952
#1	49.580	.00096	.20082	.9961	.00499
#2	49.445	.00063	.19935	.9972	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161159-H-1-D MS Acquired: 12/15/2021 22:25:29 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.94634**	**.97661**	**1.0533**	**.9987**
Stddev	.00143	.00046	.0022	.0017
%RSD	.15146	.04663	.20540	.1740
#1	.94735	.97628	1.0549	.9975
#2	.94532	.97693	1.0518	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2717.2**	**2831.0**	**24372.**	**3040.8**
Stddev	3.1	.5	85.	11.8
%RSD	.11495	.01744	.34927	.38641
#1	2715.0	2831.3	24312.	3032.5
#2	2719.4	2830.6	24432.	3049.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.375%	92.546%	91.006%	103.02%
Range				

Sample Name: 240-161159-H-1-E MSD Acquired: 12/15/2021 22:29:13 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0204**	**.06453**	**.96742**	**.07501**	**1.0782**
Stddev	.0073	.01403	.00073	.00035	.0037
%RSD	.71401	21.737	.07554	.46695	.34433
#1	1.0153	.07444	.96690	.07525	1.0755
#2	1.0256	.05461	.96794	.07476	1.0808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92117**	**3.9194**	**.92309**	**-.0485**	**1.0151**
Stddev	.00310	.0180	.00231	.0184	.0002
%RSD	.33656	.46025	.25022	37.95	.02057
#1	.91897	3.9066	.92146	-.0355	1.0152
#2	.92336	3.9321	.92472	-.0616	1.0149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93079**	**.96974**	**.51457**	**.61687**	**.00687**
Stddev	.00077	.00246	.00347	.02182	.00046
%RSD	.08250	.25333	.67503	3.5378	6.7584
#1	.93025	.96800	.51702	.60144	.00654
#2	.93133	.97147	.51211	.63230	.00720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161159-H-1-E MSD Acquired: 12/15/2021 22:29:13 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4713**	**.94019**	**.97474**	F **1066.7**	**.92932**
Stddev	.0165	.00314	.00010	4.4	.00177
%RSD	.66954	.33430	.00996	.41580	.19006
#1	2.4596	.93797	.97481	1063.6	.92807
#2	2.4830	.94241	.97467	1069.8	.93057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.44**	**1.0226**	**12.866**	**.93668**	**.79949**
Stddev	.00	.0012	.016	.00562	.00030
%RSD	.0029	.11566	.12639	.60020	.03733
#1	24.45	1.0234	12.855	.94066	.79970
#2	24.44	1.0217	12.878	.93271	.79928
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.171**	**.00095**	**.19479**	**1.002**	**.00421**
Stddev	.171	.00044	.00024	.000	.00037
%RSD	.35550	46.110	.12258	.0408	8.6654
#1	48.050	.00064	.19462	1.001	.00447
#2	48.292	.00126	.19496	1.002	.00396
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161159-H-1-E MSD Acquired: 12/15/2021 22:29:13 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.92473**	**.95200**	**1.0241**	**.9975**
Stddev	.00145	.00053	.0027	.0005
%RSD	.15727	.05571	.26533	.0549
#1	.92370	.95237	1.0221	.9979
#2	.92576	.95162	1.0260	.9971
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2723.9**	**2834.2**	**24430.**	**3069.1**
Stddev	.9	1.1	79.	26.5
%RSD	.03321	.04001	.32135	.86294
#1	2723.2	2835.0	24375.	3087.8
#2	2724.5	2833.4	24486.	3050.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.568%	92.649%	91.222%	103.98%
Range				

Sample Name: 240-161140-H-1-B Acquired: 12/15/2021 22:32:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00148**	**.09781**	**.05755**	**1.3204**	**.03741**
Stddev	.00053	.01293	.00272	.0003	.00016
%RSD	35.635	13.223	4.7276	.02434	.43096
#1	-.00185	.08867	.05563	1.3207	.03752
#2	-.00111	.10696	.05948	1.3202	.03730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**14.694**	**.00095**	**-.0216**	**.00010**
Stddev	.00001	.108	.00005	.0257	.00003
%RSD	14.526	.73157	5.5599	118.7	28.958
#1	.00005	14.618	.00099	-.0397	.00012
#2	.00006	14.770	.00092	-.0035	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00723**	**.01000**	**12.153**	**26.493**	**.00927**
Stddev	.00007	.00093	.075	.199	.00020
%RSD	.96129	9.3309	.61658	.75164	2.1742
#1	.00718	.01066	12.100	26.352	.00912
#2	.00728	.00934	12.206	26.634	.00941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161140-H-1-B Acquired: 12/15/2021 22:32:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9650**	**.11026**	**.00237**	F **1230.4**	**.01162**
Stddev	.0025	.00024	.00004	8.5	.00011
%RSD	.08318	.21842	1.5573	.69426	.95754
#1	2.9668	.11043	.00240	1224.4	.01154
#2	2.9633	.11009	.00235	1236.5	.01170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.48**	**.00253**	**56.196**	**.01560**	**.00431**
Stddev	.00	.00092	.089	.00130	.00215
%RSD	.0064	36.447	.15837	8.3569	49.814
#1	25.48	.00318	56.259	.01467	.00583
#2	25.48	.00188	56.133	.01652	.00279
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1248**	**.00136**	**.14016**	**1.006**	**.00449**
Stddev	.0169	.00006	.00051	.005	.00079
%RSD	1.5064	4.1042	.36284	.5077	17.691
#1	1.1128	.00140	.13980	1.010	.00505
#2	1.1367	.00132	.14052	1.002	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161140-H-1-B Acquired: 12/15/2021 22:32:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.00044**	**.95532**	**.9991**
Stddev	.00111	.00033	.00332	.0004
%RSD	131.87	76.005	.34787	.0418
#1	-.00163	.00067	.95767	.9988
#2	-.00006	.00020	.95297	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2694.6**	**2771.3**	**23863.**	**3010.1**
Stddev	1.4	.6	73.	15.8
%RSD	.05280	.02138	.30716	.52329
#1	2693.6	2770.8	23812.	3021.2
#2	2695.6	2771.7	23915.	2998.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.725%	90.593%	89.106%	101.98%
Range				

Sample Name: 240-161144-C-1-E Acquired: 12/15/2021 22:36:43 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.05170**	**.00511**	**1.4144**	**.11402**
Stddev	.00023	.00313	.00302	.0001	.00037
%RSD	28.720	6.0525	59.146	.00423	.32841
#1	-.00096	.04948	.00725	1.4145	.11376
#2	-.00063	.05391	.00297	1.4144	.11429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**14.989**	**.00008**	**-.0467**	**-.00065**
Stddev	.00002	.010	.00012	.0135	.00004
%RSD	128.86	.06991	149.52	28.85	5.7344
#1	-.00003	14.981	.00016	-.0562	-.00067
#2	-.00000	14.996	-.00000	-.0372	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.00470**	**1.5905**	**2.3736**	**.00484**
Stddev	.00012	.00071	.0093	.0391	.00189
%RSD	5.8358	15.081	.58392	1.6453	39.104
#1	.00199	.00420	1.5971	2.3460	.00350
#2	.00217	.00520	1.5840	2.4012	.00618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161144-C-1-E Acquired: 12/15/2021 22:36:43 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1124**	**.02785**	**-.00006**	F **1236.4**	**.00327**
Stddev	.0034	.00000	.00016	1.4	.00014
%RSD	.30362	.01592	290.97	.11237	4.3309
#1	1.1148	.02786	.00006	1237.4	.00317
#2	1.1100	.02785	-.00017	1235.4	.00337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00204**	**48.483**	**.00138**	**.00178**
Stddev	.00	.00098	.063	.00033	.00035
%RSD	.0056	47.901	.12992	24.014	19.422
#1	25.07	.00274	48.527	.00162	.00203
#2	25.07	.00135	48.438	.00115	.00154
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.87385**	**-.00021**	**.13212**	**1.006**	**.00088**
Stddev	.00181	.00017	.00027	.003	.00025
%RSD	.20715	82.698	.20755	.2513	28.199
#1	.87257	-.00033	.13192	1.004	.00070
#2	.87513	-.00009	.13231	1.008	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161144-C-1-E Acquired: 12/15/2021 22:36:43 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00038**	**.92607**	**.9993**
Stddev	.00045	.00017	.00116	.0007
%RSD	101.75	44.931	.12524	.0749
#1	.00077	.00050	.92525	.9987
#2	.00013	.00026	.92689	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2703.1**	**2765.6**	**23689.**	**3002.6**
Stddev	.9	2.3	17.	7.0
%RSD	.03340	.08228	.07361	.23197
#1	2703.8	2767.3	23702.	2997.7
#2	2702.5	2764.0	23677.	3007.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.970%	90.409%	88.455%	101.72%
Range				

Sample Name: 480-193329-A-1-D Acquired: 12/15/2021 22:40:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.63649**	**.00286**	**.02677**	**.12205**
Stddev	.00073	.02803	.00060	.00064	.00045
%RSD	244.31	4.4045	20.780	2.3829	.36808
#1	.00081	.65632	.00244	.02722	.12173
#2	-.00022	.61667	.00328	.02632	.12236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**13.385**	**.01262**	**-.0304**	**.03386**
Stddev	.00012	.012	.00002	.0051	.00004
%RSD	209.83	.08649	.17028	16.73	.10756
#1	.00015	13.377	.01261	-.0268	.03389
#2	-.00003	13.393	.01264	-.0340	.03383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04187**	**.06037**	**.26902**	**2.4972**	**.00151**
Stddev	.00030	.00075	.00191	.0538	.00188
%RSD	.70705	1.2425	.71038	2.1540	124.61
#1	.04208	.06090	.27037	2.4592	.00018
#2	.04166	.05984	.26766	2.5353	.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193329-A-1-D Acquired: 12/15/2021 22:40:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.456**	**.36314**	**.01733**	F **1087.5**	**.27798**
Stddev	.012	.00021	.00015	.6	.00081
%RSD	.11052	.05902	.88444	.05718	.29116
#1	10.464	.36330	.01722	1087.0	.27741
#2	10.448	.36299	.01744	1087.9	.27855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.28748**	**4.1456**	**-.00158**	**.00272**
Stddev	.00	.00198	.0047	.00130	.00146
%RSD	.0005	.68834	.11244	82.365	53.792
#1	25.12	.28608	4.1423	-.00250	.00169
#2	25.12	.28888	4.1489	-.00066	.00376
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49282**	**-.00039**	**.04133**	**1.006**	**.00034**
Stddev	.01795	.00016	.00016	.006	.00011
%RSD	3.6424	40.936	.37818	.5705	33.921
#1	.48013	-.00051	.04144	1.002	.00042
#2	.50552	-.00028	.04122	1.011	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193329-A-1-D Acquired: 12/15/2021 22:40:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00140**	**.00276**	**4.1499**	**.9991**
Stddev	.00055	.00011	.0068	.0007
%RSD	39.442	3.9841	.16444	.0719
#1	-.00179	.00268	4.1451	.9996
#2	-.00101	.00283	4.1548	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2725.3**	**2803.8**	**24130.**	**3033.7**
Stddev	.3	.3	41.	1.7
%RSD	.01266	.01133	.17047	.05708
#1	2725.0	2804.1	24101.	3034.9
#2	2725.5	2803.6	24159.	3032.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.608%	91.658%	90.100%	102.78%
Range				

Sample Name: 480-193329-A-2-D Acquired: 12/15/2021 22:44:17 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00335**	**.77360**	**.00138**	**.01835**	**.17432**
Stddev	.00111	.03002	.00114	.00003	.00042
%RSD	32.970	3.8810	82.814	.16816	.23884
#1	-.00414	.75237	.00057	.01833	.17462
#2	-.00257	.79483	.00218	.01837	.17403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**16.708**	**.04827**	**.0095**	**.07382**
Stddev	.00015	.038	.00013	.0453	.00026
%RSD	385.36	.22619	.27435	478.0	.34873
#1	.00014	16.734	.04818	-.0225	.07363
#2	-.00007	16.681	.04836	.0415	.07400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02569**	**.07589**	**231.13**	**2.4358**	**.00260**
Stddev	.00009	.00092	.98	.0239	.00002
%RSD	.34563	1.2159	.42402	.98184	.66105
#1	.02563	.07524	231.83	2.4527	.00259
#2	.02576	.07654	230.44	2.4189	.00261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193329-A-2-D Acquired: 12/15/2021 22:44:17 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.139**	**1.5100**	**-.00065**	F **1071.1**	**.42572**
Stddev	.083	.0057	.00004	1.4	.00012
%RSD	.68226	.38012	6.9034	.12937	.02827
#1	12.197	1.5141	-.00068	1072.0	.42580
#2	12.080	1.5060	-.00062	1070.1	.42563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.87**	**.11364**	**5.0986**	**.02463**	**.02601**
Stddev	.00	.00187	.0002	.00009	.00044
%RSD	.0059	1.6425	.00478	.34904	1.6735
#1	24.87	.11496	5.0984	.02469	.02631
#2	24.87	.11232	5.0988	.02457	.02570
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.79122**	**.00169**	**.05234**	**1.117**	**-.00084**
Stddev	.01874	.00020	.00023	.011	.00002
%RSD	2.3688	11.865	.44103	.9700	1.8242
#1	.80447	.00154	.05218	1.109	-.00083
#2	.77797	.00183	.05251	1.125	-.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193329-A-2-D Acquired: 12/15/2021 22:44:17 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00719**	**.00237**	F **21.468**	**1.001**
Stddev	.00241	.00028	.097	.001
%RSD	33.475	11.961	.45088	.0773
#1	-.00549	.00257	21.536	1.002
#2	-.00889	.00217	21.400	1.000
Check ?	Chk Pass	Chk Pass	Chk Fail	None
High Limit			18.000	
Low Limit			-.01000	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2628.7**	**2797.0**	**24051.**	**3072.8**
Stddev	1.0	.9	101.	26.2
%RSD	.03826	.03321	.42077	.85423
#1	2629.4	2796.3	23979.	3054.3
#2	2628.0	2797.6	24122.	3091.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.823%	91.433%	89.805%	104.10%
Range				

Sample Name: MB 480-608141/1-A Acquired: 12/15/2021 22:48:01 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00259**	**.00126**	**-.00122**	**-.00001**
Stddev	.00090	.02467	.00017	.00038	.00001
%RSD	187.62	952.41	13.393	31.056	69.512
#1	.00016	-.01486	.00114	-.00095	-.00001
#2	-.00112	.02004	.00138	-.00149	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00179**	**-.00001**	**-.0390**	**-.00010**
Stddev	.00001	.00009	.00018	.0040	.00004
%RSD	6.1694	4.9587	1415.4	10.32	44.358
#1	-.00009	.00172	-.00014	-.0418	-.00013
#2	-.00008	.00185	.00012	-.0361	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00090**	**.01007**	**.00357**	**.00054**
Stddev	.00017	.00081	.00038	.01153	.00055
%RSD	69.450	90.310	3.7980	322.98	101.65
#1	-.00012	.00032	.01034	-.00458	.00092
#2	-.00036	.00147	.00980	.01172	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608141/1-A Acquired: 12/15/2021 22:48:01 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00391**	**.00017**	**-.00127**	**.30334**	**.00022**
Stddev	.00110	.00003	.00017	.01808	.00019
%RSD	28.058	19.477	13.239	5.9612	89.510
#1	.00313	.00015	-.00139	.31613	.00008
#2	.00468	.00019	-.00116	.29055	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00135**	**.01058**	**-.00178**	**-.00065**
Stddev	.00	.00124	.00005	.00121	.00222
%RSD	.0025	91.802	.48904	67.853	340.63
#1	25.01	.00047	.01062	-.00264	.00092
#2	25.01	.00223	.01055	-.00093	-.00222
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01067**	**.00001**	**.00002**	**1.005**	**-.00011**
Stddev	.01867	.00028	.00011	.005	.00034
%RSD	174.94	2374.0	730.76	.4890	320.65
#1	-.00253	-.00018	-.00006	1.001	.00013
#2	.02387	.00021	.00009	1.008	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608141/1-A Acquired: 12/15/2021 22:48:01 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.00016**	**.00263**	**.9992**
Stddev	.00223	.00001	.00038	.0003
%RSD	687.06	5.4907	14.342	.0344
#1	.00125	-.00017	.00289	.9994
#2	-.00190	-.00015	.00236	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3518.8**	**3114.6**	**27989.**	**3161.4**
Stddev	1.3	.3	130.	.4
%RSD	.03660	.00994	.46388	.01235
#1	3517.9	3114.8	27897.	3161.1
#2	3519.7	3114.4	28081.	3161.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.50%	101.82%	104.51%	107.10%
Range				

Sample Name: LCS 480-608141/2-A Acquired: 12/15/2021 22:51:48 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05090**	**10.035**	**.19654**	**.20654**	**.20870**
Stddev	.00050	.010	.00045	.00043	.00013
%RSD	.97911	.10214	.22644	.20692	.06261
#1	.05055	10.028	.19686	.20624	.20860
#2	.05125	10.042	.19623	.20684	.20879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19665**	**9.9302**	**.19123**	**-.0738**	**.20301**
Stddev	.00015	.0109	.00035	.0637	.00023
%RSD	.07784	.10986	.18085	86.25	.11345
#1	.19654	9.9379	.19098	-.1188	.20285
#2	.19676	9.9225	.19147	-.0288	.20318
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19366**	**.20811**	**10.465**	**9.6650**	**.18976**
Stddev	.00049	.00055	.023	.0015	.00130
%RSD	.25283	.26343	.22048	.01572	.68545
#1	.19331	.20850	10.481	9.6639	.18884
#2	.19401	.20772	10.449	9.6660	.19068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608141/2-A Acquired: 12/15/2021 22:51:48 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3695**	**.19523**	**.20708**	**9.2416**	**.18397**
Stddev	.0119	.00012	.00013	.0102	.00039
%RSD	.12740	.05992	.06243	.11054	.20980
#1	9.3780	.19515	.20699	9.2344	.18424
#2	9.3611	.19531	.20717	9.2488	.18370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.86**	**.20759**	**10.135**	**.19996**	**.19628**
Stddev	.00	.00288	.015	.00301	.00332
%RSD	.0033	1.3863	.15128	1.5037	1.6939
#1	24.86	.20962	10.125	.20208	.19393
#2	24.86	.20555	10.146	.19783	.19863
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3502**	**.19371**	**.18374**	**1.007**	**.20782**
Stddev	.0403	.00038	.00024	.007	.00095
%RSD	.43120	.19867	.13304	.6908	.45827
#1	9.3217	.19343	.18357	1.012	.20715
#2	9.3787	.19398	.18392	1.002	.20850
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608141/2-A Acquired: 12/15/2021 22:51:48 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19900**	**.19851**	**.20328**	**1.003**
Stddev	.00178	.00079	.00079	.001
%RSD	.89332	.39997	.38955	.0575
#1	.20026	.19795	.20384	1.003
#2	.19774	.19907	.20272	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3319.2**	**3072.3**	**27456.**	**3143.9**
Stddev	3.5	3.7	59.	3.0
%RSD	.10444	.11904	.21572	.09578
#1	3321.6	3074.9	27415.	3141.8
#2	3316.7	3069.7	27498.	3146.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.738%	100.43%	102.52%	106.51%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 22:55:24 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0414**	**50.290**	**.94091**	**1.0486**	**.93930**
Stddev	.0008	.011	.00248	.0006	.00128
%RSD	.08169	.02259	.26341	.05741	.13600
#1	1.0420	50.282	.93916	1.0490	.94021
#2	1.0408	50.298	.94267	1.0481	.93840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94345**	**50.229**	**.94853**	**.9804**	**1.0447**
Stddev	.00146	.080	.00034	.0090	.0011
%RSD	.15449	.15977	.03563	.9198	.10422
#1	.94448	50.286	.94829	.9868	1.0455
#2	.94242	50.173	.94877	.9740	1.0440
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97515**	**1.0452**	**50.492**	**49.043**	**.95588**
Stddev	.00192	.0011	.087	.106	.00070
%RSD	.19693	.10379	.17266	.21600	.07300
#1	.97651	1.0460	50.554	49.118	.95538
#2	.97379	1.0444	50.431	48.968	.95637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 22:55:24 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.337**	**.95192**	**1.0250**	**46.665**	**.94409**
Stddev	.072	.00144	.0009	.043	.00072
%RSD	.15809	.15152	.08408	.09227	.07582
#1	45.387	.95294	1.0256	46.695	.94359
#2	45.286	.95090	1.0244	46.634	.94460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.95**	**1.0329**	**26.101**	**.93748**	**.99545**
Stddev	.00	.0003	.001	.00093	.00105
%RSD	.0071	.03139	.00336	.09946	.10546
#1	37.95	1.0331	26.101	.93814	.99619
#2	37.95	1.0327	26.102	.93682	.99471
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.131**	**1.0244**	**.92232**	**1.522**	**1.0259**
Stddev	.060	.0012	.00038	.007	.0016
%RSD	.59181	.11349	.04081	.4354	.15197
#1	10.089	1.0252	.92259	1.526	1.0270
#2	10.174	1.0235	.92205	1.517	1.0248
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 22:55:24 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98771**	**.99592**	**1.0134**	**1.500**
Stddev	.00172	.00002	.0018	.001
%RSD	.17436	.00154	.17850	.0763
#1	.98893	.99593	1.0147	1.501
#2	.98649	.99591	1.0122	1.499
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3005.6**	**2978.0**	**26188.**	**3036.6**
Stddev	7.4	6.3	153.	7.3
%RSD	.24532	.21263	.58390	.23898
#1	3000.4	2973.6	26080.	3031.4
#2	3010.8	2982.5	26296.	3041.7

Sample Name: CCB-6810114 Acquired: 12/15/2021 22:58:57 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.01918**	**.00263**	**-.00078**	**.00001**
Stddev	.00031	.02861	.00091	.00001	.00001
%RSD	46.692	149.14	34.686	1.5772	86.253
#1	-.00044	.03941	.00199	-.00078	.00001
#2	-.00087	-.00105	.00328	-.00077	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00308**	**.00000**	**-.0482**	**-.00020**
Stddev	.00010	.00312	.00002	.0574	.00002
%RSD	842.11	101.45	2605.9	119.1	10.968
#1	-.00006	-.00528	.00002	-.0076	-.00018
#2	.00008	-.00087	-.00001	-.0888	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00101**	**.00390**	**.03130**	**.00326**
Stddev	.00002	.00098	.00277	.02744	.00144
%RSD	8.2941	97.007	71.116	87.683	44.103
#1	-.00021	.00171	.00194	.01189	.00225
#2	-.00023	.00032	.00586	.05071	.00428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 22:58:57 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00375**	**-.00004**	**.00053**	**.14103**	**.00019**
Stddev	.00260	.00005	.00005	.00292	.00009
%RSD	69.311	103.63	9.0186	2.0733	47.490
#1	-.00191	-.00001	.00050	.13896	.00012
#2	-.00559	-.00008	.00057	.14310	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00100**	**.00876**	**-.00053**	**-.00063**
Stddev	.00	.00013	.00149	.00004	.00037
%RSD	.0034	12.796	17.015	7.7716	59.409
#1	25.01	.00109	.00981	-.00056	-.00089
#2	25.01	.00091	.00771	-.00050	-.00036
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01548**	**.00003**	**.00003**	**.9993**	**-.00043**
Stddev	.00411	.00001	.00015	.0095	.00009
%RSD	26.565	25.444	466.04	.9458	21.310
#1	.01839	.00002	-.00008	1.006	-.00037
#2	.01257	.00003	.00014	.9927	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 22:58:57 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00102**	**-.00021**	**.00099**	**.9985**
Stddev	.00054	.00023	.00030	.0005
%RSD	52.414	107.55	29.998	.0470
#1	.00140	-.00005	.00078	.9988
#2	.00064	-.00037	.00120	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3480.7**	**3075.5**	**27726.**	**3079.0**
Stddev	5.2	2.1	123.	4.3
%RSD	.14809	.06696	.44215	.13973
#1	3484.3	3076.9	27813.	3075.9
#2	3477.0	3074.0	27639.	3082.0

Sample Name: CCVL-6811103 Acquired: 12/15/2021 23:02:46 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00520**	**.19693**	**.01399**	**.01873**	**.00204**
Stddev	.00066	.01598	.00030	.00003	.00005
%RSD	12.731	8.1158	2.1504	.15196	2.6693
#1	.00473	.20824	.01378	.01871	.00200
#2	.00566	.18563	.01420	.01875	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00181**	**.49948**	**.00179**	**-.0952**	**.00370**
Stddev	.00005	.00237	.00003	.0080	.00006
%RSD	3.0193	.47496	1.6139	8.443	1.7046
#1	.00185	.50116	.00182	-.0895	.00374
#2	.00178	.49780	.00177	-.1009	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00375**	**.01156**	**.05210**	**.46136**	**.02860**
Stddev	.00013	.00073	.00207	.01206	.00027
%RSD	3.5929	6.3476	3.9781	2.6135	.93617
#1	.00385	.01208	.05357	.46989	.02842
#2	.00366	.01104	.05064	.45284	.02879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 23:02:46 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17831**	**.00280**	**.00952**	**1.0229**	**.00921**
Stddev	.00256	.00002	.00014	.0136	.00037
%RSD	1.4347	.54196	1.4709	1.3325	3.9667
#1	.18012	.00281	.00942	1.0132	.00947
#2	.17650	.00278	.00962	1.0325	.00895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01088**	**.20186**	**.01690**	**.02399**
Stddev	.00	.00021	.00224	.00006	.00174
%RSD	.0021	1.9152	1.1111	.38045	7.2467
#1	25.00	.01073	.20345	.01685	.02522
#2	25.00	.01103	.20028	.01694	.02276
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47247**	**.00972**	**.00454**	F **1.004**	**.00536**
Stddev	.00587	.00012	.00006	.006	.00013
%RSD	1.2427	1.2631	1.4188	.5973	2.4090
#1	.46832	.00964	.00450	1.008	.00527
#2	.47663	.00981	.00459	.9994	.00545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 23:02:46 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01933**	**.00487**	**.01002**	F **.9997**
Stddev	.00018	.00001	.00018	.0013
%RSD	.94109	.14028	1.7568	.1251
#1	.01946	.00487	.01015	1.001
#2	.01920	.00486	.00990	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3474.7**	**3089.8**	**27585.**	**3081.8**
Stddev	4.1	2.9	106.	4.5
%RSD	.11938	.09367	.38469	.14439
#1	3477.7	3091.8	27660.	3085.0
#2	3471.8	3087.7	27510.	3078.7

Sample Name: 480-193126-B-21-A Acquired: 12/15/2021 23:06:33 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**-.00075**	**.00851**	**.07401**	**.17143**
Stddev	.00078	.01802	.00292	.00050	.00031
%RSD	93.844	2387.1	34.331	.67100	.18328
#1	-.00139	.01199	.00644	.07436	.17121
#2	-.00028	-.01349	.01057	.07365	.17165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**58.391**	**.00045**	**-.1046**	**-.00036**
Stddev	.00003	.027	.00001	.0058	.00001
%RSD	38.117	.04571	2.7449	5.559	2.7286
#1	-.00009	58.372	.00044	-.1005	-.00035
#2	-.00005	58.410	.00046	-.1088	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00068**	**.01103**	**1.6678**	**.01520**
Stddev	.00019	.00012	.00143	.0468	.00171
%RSD	298.60	17.560	12.965	2.8046	11.281
#1	-.00007	.00059	.01204	1.7009	.01398
#2	.00019	.00076	.01002	1.6348	.01641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193126-B-21-A Acquired: 12/15/2021 23:06:33 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**54.181**	**.01250**	**.00154**	**14.040**	**.00049**
Stddev	.069	.00003	.00016	.039	.00030
%RSD	.12755	.20302	10.309	.27878	60.739
#1	54.230	.01252	.00143	14.012	.00028
#2	54.132	.01248	.00166	14.068	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00647**	**16.927**	**-.00108**	**-.00314**
Stddev	.00	.00044	.012	.00027	.00042
%RSD	.0046	6.7932	.06955	24.629	13.375
#1	25.01	.00616	16.918	-.00089	-.00284
#2	25.01	.00678	16.935	-.00126	-.00344
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.083**	**.00004**	**1.0167**	**.9944**	**.00063**
Stddev	.032	.00005	.0012	.0071	.00043
%RSD	.17889	140.25	.11503	.7145	67.736
#1	18.060	.00000	1.0159	.9893	.00094
#2	18.106	.00008	1.0175	.9994	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193126-B-21-A Acquired: 12/15/2021 23:06:33 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00036**	**-.00106**	**.00052**	**.9987**
Stddev	.00015	.00008	.00005	.0015
%RSD	42.961	7.0661	9.0958	.1491
#1	-.00025	-.00101	.00049	.9997
#2	-.00047	-.00112	.00056	.9976
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3194.1**	**3011.3**	**26787.**	**3106.6**
Stddev	1.2	.4	60.	2.1
%RSD	.03733	.01210	.22255	.06854
#1	3193.2	3011.6	26744.	3105.1
#2	3194.9	3011.1	26829.	3108.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.130%	98.441%	100.02%	105.25%
Range				

Sample Name: 193126-B-21-ASD@5 Acquired: 12/15/2021 23:10:17 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**.00807**	**.00342**	**.01308**	**.03358**
Stddev	.00039	.01143	.00009	.00035	.00006
%RSD	31.126	141.67	2.5186	2.7107	.18117
#1	-.00151	.01615	.00348	.01333	.03354
#2	-.00097	-.00001	.00336	.01283	.03363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**11.495**	**.00012**	**-.0324**	**-.00002**
Stddev	.00003	.036	.00016	.0197	.00010
%RSD	1125.9	.30896	138.01	60.73	635.97
#1	-.00003	11.470	.00023	-.0185	.00005
#2	.00002	11.520	.00000	-.0463	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.00133**	**-.00168**	**.33615**	**.00433**
Stddev	.00011	.00000	.00014	.06831	.00096
%RSD	30.534	.20458	8.1828	20.323	22.167
#1	-.00027	.00133	-.00178	.38445	.00365
#2	-.00042	.00134	-.00158	.28784	.00501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 193126-B-21-ASD@5 Acquired: 12/15/2021 23:10:17 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.475**	**.00254**	**-.00061**	**2.8365**	**.00051**
Stddev	.029	.00007	.00033	.0056	.00046
%RSD	.27371	2.7359	54.139	.19849	90.258
#1	10.455	.00259	-.00084	2.8325	.00018
#2	10.496	.00249	-.00038	2.8405	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00120**	**3.2244**	**-.00136**	**-.00010**
Stddev	.00	.00214	.0040	.00071	.00341
%RSD	.0041	178.96	.12409	51.966	3538.7
#1	25.01	.00271	3.2272	-.00186	-.00251
#2	25.01	-.00032	3.2215	-.00086	.00231
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5340**	**.00003**	**.20125**	**.9982**	**-.00042**
Stddev	.0049	.00014	.00095	.0030	.00066
%RSD	.13811	414.31	.47282	.3043	155.29
#1	3.5306	-.00006	.20058	.9961	.00004
#2	3.5375	.00013	.20192	1.000	-.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 193126-B-21-ASD@5 Acquired: 12/15/2021 23:10:17 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00013**	**-.00004**	**.9994**
Stddev	.00078	.00037	.00055	.0000
%RSD	424.03	288.48	1274.6	.0049
#1	-.00074	-.00039	.00034	.9994
#2	.00037	.00013	-.00043	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3377.5**	**3063.3**	**27419.**	**3096.6**
Stddev	4.3	3.5	41.	7.5
%RSD	.12706	.11302	.15013	.24074
#1	3374.5	3060.8	27390.	3101.9
#2	3380.6	3065.7	27448.	3091.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.422%	100.14%	102.38%	104.91%
Range				

Sample Name: 193126-B-21-APDS Acquired: 12/15/2021 23:14:01 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05145**	**9.8893**	**.20841**	**.27945**	**.37166**
Stddev	.00101	.0212	.00186	.00025	.00014
%RSD	1.9619	.21417	.89466	.09109	.03892
#1	.05074	9.8743	.20973	.27963	.37176
#2	.05216	9.9042	.20709	.27927	.37155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19955**	**66.336**	**.19532**	**-.0419**	**.20792**
Stddev	.00067	.067	.00071	.0149	.00014
%RSD	.33448	.10109	.36417	35.61	.06803
#1	.19908	66.288	.19482	-.0314	.20782
#2	.20002	66.383	.19583	-.0525	.20802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19516**	**.21187**	**10.435**	**11.258**	**.20285**
Stddev	.00019	.00019	.003	.029	.00155
%RSD	.09752	.09009	.02463	.25401	.76216
#1	.19503	.21201	10.437	11.278	.20176
#2	.19530	.21174	10.434	11.237	.20394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 193126-B-21-APDS Acquired: 12/15/2021 23:14:01 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**62.510**	**.20740**	**.21220**	**22.491**	**.18736**
Stddev	.215	.00043	.00009	.014	.00077
%RSD	.34395	.20864	.04199	.06389	.40877
#1	62.358	.20710	.21214	22.481	.18790
#2	62.662	.20771	.21227	22.501	.18682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.86**	**.21801**	**26.725**	**.19680**	**.20225**
Stddev	.00	.00022	.040	.00112	.00452
%RSD	.0039	.10139	.14799	.56728	2.2340
#1	24.86	.21817	26.697	.19759	.20545
#2	24.86	.21786	26.753	.19601	.19906
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.747**	**.20140**	**1.1655**	**1.009**	**.21187**
Stddev	.010	.00078	.0008	.006	.00034
%RSD	.03625	.38841	.07134	.6188	.16233
#1	26.740	.20195	1.1661	1.005	.21162
#2	26.754	.20085	1.1650	1.014	.21211
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 193126-B-21-APDS Acquired: 12/15/2021 23:14:01 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20424**	**.20160**	**.20439**	**1.005**
Stddev	.00196	.00057	.00151	.001
%RSD	.96060	.28468	.73847	.0779
#1	.20285	.20201	.20333	1.005
#2	.20562	.20120	.20546	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3095.9**	**2986.3**	**26449.**	**3130.6**
Stddev	1.4	.3	54.	24.4
%RSD	.04417	.00873	.20499	.77933
#1	3096.9	2986.2	26488.	3147.9
#2	3094.9	2986.5	26411.	3113.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.299%	97.624%	98.761%	106.06%
Range				

Sample Name: 480-193126-B-21-B MS Acquired: 12/15/2021 23:17:36 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05088**	**10.176**	**.20646**	**.28302**	**.38174**
Stddev	.00054	.021	.00074	.00090	.00134
%RSD	1.0609	.21037	.36002	.31641	.35109
#1	.05050	10.191	.20593	.28366	.38269
#2	.05126	10.161	.20698	.28239	.38079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19832**	**68.514**	**.19282**	**-.0659**	**.20513**
Stddev	.00053	.020	.00078	.0353	.00048
%RSD	.26556	.02895	.40438	53.66	.23237
#1	.19794	68.500	.19337	-.0409	.20480
#2	.19869	68.528	.19227	-.0908	.20547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19222**	**.20918**	**10.278**	**11.554**	**.20353**
Stddev	.00021	.00043	.005	.024	.00103
%RSD	.10743	.20781	.04764	.20591	.50586
#1	.19208	.20887	10.282	11.571	.20426
#2	.19237	.20949	10.275	11.537	.20280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193126-B-21-B MS Acquired: 12/15/2021 23:17:36 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**64.301**	**.20569**	**.21062**	**23.240**	**.18531**
Stddev	.096	.00036	.00014	.010	.00046
%RSD	.14915	.17421	.06541	.04377	.24892
#1	64.233	.20544	.21072	23.233	.18498
#2	64.368	.20594	.21052	23.247	.18563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.87**	**.21601**	**27.415**	**.19860**	**.19947**
Stddev	.00	.00146	.034	.00013	.00603
%RSD	.0015	.67387	.12314	.06478	3.0229
#1	24.87	.21498	27.439	.19870	.20373
#2	24.87	.21704	27.391	.19851	.19521
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.031**	**.20015**	**1.2041**	**1.005**	**.20996**
Stddev	.025	.00014	.0014	.009	.00068
%RSD	.09971	.06841	.11754	.8676	.32595
#1	25.048	.20006	1.2051	1.012	.21044
#2	25.013	.20025	1.2031	.9992	.20947
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193126-B-21-B MS Acquired: 12/15/2021 23:17:36 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20075**	**.19832**	**.20173**	**1.001**
Stddev	.00138	.00052	.00061	.001
%RSD	.68523	.26100	.30238	.0550
#1	.20172	.19868	.20216	1.001
#2	.19977	.19795	.20130	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3103.6**	**2998.0**	**26598.**	**3097.2**
Stddev	5.5	4.8	33.	23.7
%RSD	.17703	.15997	.12582	.76553
#1	3107.5	3001.3	26622.	3080.4
#2	3099.7	2994.6	26574.	3114.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.520%	98.004%	99.316%	104.93%
Range				

Sample Name: 193126-B-21-C MSD Acquired: 12/15/2021 23:21:10 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05175**	**10.158**	**.20661**	**.28388**	**.38436**
Stddev	.00076	.032	.00091	.00052	.00069
%RSD	1.4633	.31677	.43874	.18191	.17856
#1	.05122	10.181	.20725	.28352	.38485
#2	.05229	10.135	.20597	.28425	.38388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19920**	**68.739**	**.19386**	**-.0452**	**.20656**
Stddev	.00047	.068	.00036	.0337	.00014
%RSD	.23808	.09925	.18748	74.51	.06661
#1	.19886	68.691	.19412	-.0214	.20666
#2	.19954	68.787	.19360	-.0690	.20646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19258**	**.21058**	**10.345**	**11.541**	**.20430**
Stddev	.00021	.00142	.008	.014	.00034
%RSD	.10831	.67290	.07938	.12365	.16783
#1	.19243	.21158	10.351	11.531	.20406
#2	.19272	.20958	10.339	11.551	.20454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 193126-B-21-C MSD Acquired: 12/15/2021 23:21:10 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**63.981**	**.20575**	**.21216**	**23.293**	**.18652**
Stddev	.023	.00036	.00065	.002	.00008
%RSD	.03557	.17370	.30536	.00718	.04340
#1	63.997	.20600	.21170	23.292	.18657
#2	63.965	.20550	.21262	23.295	.18646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.87**	**.21538**	**27.558**	**.20282**	**.19707**
Stddev	.00	.00168	.026	.00266	.00276
%RSD	.0044	.78064	.09315	1.3099	1.3998
#1	24.87	.21657	27.540	.20095	.19902
#2	24.87	.21419	27.577	.20470	.19512
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.621**	**.20135**	**1.2093**	**1.003**	**.21094**
Stddev	.077	.00052	.0007	.006	.00040
%RSD	.29957	.25684	.05874	.5769	.19006
#1	25.675	.20099	1.2098	.9991	.21065
#2	25.567	.20172	1.2088	1.007	.21122
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 193126-B-21-C MSD Acquired: 12/15/2021 23:21:10 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20099**	**.20026**	**.20320**	**.9998**
Stddev	.00160	.00019	.00059	.0002
%RSD	.79646	.09704	.29052	.0182
#1	.19986	.20012	.20278	.9999
#2	.20212	.20039	.20361	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3092.9**	**2985.2**	**26576.**	**3108.8**
Stddev	.9	3.3	24.	15.4
%RSD	.02947	.11061	.08862	.49420
#1	3093.6	2987.5	26593.	3119.6
#2	3092.3	2982.8	26559.	3097.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.213%	97.586%	99.234%	105.32%
Range				

Sample Name: 480-193175-B-1-A Acquired: 12/15/2021 23:24:45 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**-.00578**	**.00332**	**.14721**	**.08168**
Stddev	.00028	.01592	.00144	.00026	.00008
%RSD	105.36	275.35	43.407	.17711	.09287
#1	-.00047	-.01704	.00434	.14740	.08162
#2	-.00007	.00548	.00230	.14703	.08173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**118.35**	**.00028**	**-.0204**	**-.00017**
Stddev	.00005	.24	.00006	.0107	.00003
%RSD	31.728	.19874	20.629	52.52	16.614
#1	-.00013	118.18	.00024	-.0280	-.00015
#2	-.00020	118.52	.00032	-.0128	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00093**	**1.3458**	**3.6328**	**.00557**
Stddev	.00022	.00096	.0013	.0611	.00199
%RSD	85.023	103.13	.09862	1.6816	35.673
#1	.00042	.00025	1.3448	3.5896	.00416
#2	.00010	.00162	1.3467	3.6760	.00697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-1-A Acquired: 12/15/2021 23:24:45 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.060**	**.14971**	**.00108**	**6.8780**	**.00031**
Stddev	.022	.00007	.00010	.0297	.00008
%RSD	.05855	.04951	9.1783	.43167	27.563
#1	37.076	.14965	.00101	6.8570	.00025
#2	37.045	.14976	.00115	6.8990	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00387**	**8.8400**	**.00032**	**.00182**
Stddev	.00	.00039	.0089	.00110	.00247
%RSD	.0064	10.060	.10092	343.77	135.75
#1	25.01	.00359	8.8463	.00110	.00356
#2	25.01	.00415	8.8337	-.00046	.00007
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3731**	**.00002**	**.18877**	**1.005**	**.00131**
Stddev	.0190	.00024	.00045	.008	.00028
%RSD	.22696	1215.9	.23883	.8236	21.080
#1	8.3865	-.00015	.18845	.9987	.00150
#2	8.3596	.00019	.18909	1.010	.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-1-A Acquired: 12/15/2021 23:24:45 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00065**	**.00161**	**.9995**
Stddev	.00103	.00046	.00022	.0001
%RSD	207.56	71.018	13.818	.0141
#1	.00023	-.00098	.00177	.9996
#2	-.00122	-.00032	.00145	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3156.5**	**2977.4**	**26525.**	**3115.7**
Stddev	2.0	2.8	92.	.7
%RSD	.06254	.09306	.34855	.02265
#1	3157.9	2979.3	26460.	3115.2
#2	3155.1	2975.4	26590.	3116.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.048%	97.330%	99.044%	105.56%
Range				

Sample Name: 480-193175-B-2-A Acquired: 12/15/2021 23:28:28 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.01273**	**.00360**	**.02420**	**.07542**
Stddev	.00067	.03274	.00034	.00113	.00001
%RSD	371.86	257.13	9.4455	4.6843	.01044
#1	-.00065	-.03588	.00384	.02500	.07541
#2	.00029	.01042	.00336	.02340	.07542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**49.201**	**.00023**	**.0465**	**-.00027**
Stddev	.00005	.043	.00017	.0259	.00013
%RSD	456.32	.08771	74.073	55.70	46.298
#1	-.00005	49.231	.00035	.0282	-.00018
#2	.00003	49.170	.00011	.0649	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00163**	**1.9754**	**6.9000**	**.00431**
Stddev	.00011	.00004	.0050	.0768	.00118
%RSD	70.379	2.6025	.25350	1.1127	27.467
#1	.00008	.00166	1.9719	6.9543	.00348
#2	.00024	.00160	1.9790	6.8457	.00515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-2-A Acquired: 12/15/2021 23:28:28 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.101**	**.13442**	**-.00047**	**202.24**	**.00129**
Stddev	.008	.00017	.00007	.99	.00003
%RSD	.04027	.12754	14.940	.48725	2.2564
#1	20.096	.13454	-.00052	202.94	.00127
#2	20.107	.13430	-.00042	201.54	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00152**	**.79722**	**-.00153**	**-.00210**
Stddev	.00	.00062	.00047	.00038	.00245
%RSD	.0050	40.442	.05949	24.873	116.62
#1	25.01	.00196	.79689	-.00126	-.00037
#2	25.01	.00109	.79756	-.00180	-.00384
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.7732**	**-.00007**	**.12370**	**1.003**	**.00003**
Stddev	.0191	.00010	.00074	.003	.00008
%RSD	.50663	149.16	.60092	.3372	316.58
#1	3.7868	.00000	.12423	1.001	.00008
#2	3.7597	-.00014	.12318	1.005	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-2-A Acquired: 12/15/2021 23:28:28 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.00001**	**.00185**	**.9990**
Stddev	.00008	.00012	.00005	.0003
%RSD	8.9222	1674.7	2.9677	.0252
#1	-.00090	-.00008	.00181	.9992
#2	-.00079	.00010	.00189	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3006.5**	**2937.2**	**25890.**	**3106.0**
Stddev	2.4	1.3	110.	3.5
%RSD	.08068	.04547	.42610	.11353
#1	3008.2	2938.1	25968.	3108.5
#2	3004.7	2936.2	25812.	3103.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.719%	96.016%	96.672%	105.23%
Range				

Sample Name: 480-193175-B-3-A Acquired: 12/15/2021 23:32:16 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.01271**	**.00245**	**.08715**	**.07477**
Stddev	.00084	.00791	.00037	.00001	.00013
%RSD	16809.	62.263	14.986	.00619	.17553
#1	.00059	.01831	.00271	.08715	.07468
#2	-.00060	.00711	.00219	.08715	.07486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**26.765**	**.00035**	**-.0654**	**-.00016**
Stddev	.00012	.009	.00016	.0238	.00023
%RSD	141.10	.03462	43.902	36.46	146.98
#1	-.00017	26.771	.00046	-.0485	.00001
#2	-.00000	26.758	.00024	-.0822	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00205**	**.00789**	**2.9545**	**.00913**
Stddev	.00012	.00107	.00050	.0468	.00090
%RSD	22.178	52.248	6.3147	1.5835	9.9139
#1	-.00064	.00281	.00754	2.9215	.00849
#2	-.00047	.00130	.00824	2.9876	.00977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-3-A Acquired: 12/15/2021 23:32:16 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.546**	**.04205**	**.00469**	**22.517**	**.00121**
Stddev	.025	.00009	.00011	.031	.00003
%RSD	.06229	.20997	2.2778	.13726	2.2427
#1	39.528	.04211	.00462	22.538	.00119
#2	39.563	.04199	.00477	22.495	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00344**	**12.808**	**-.00193**	**-.00173**
Stddev	.00	.00052	.006	.00017	.00106
%RSD	.0020	15.091	.04518	8.7656	61.589
#1	25.06	.00307	12.812	-.00205	-.00098
#2	25.06	.00381	12.804	-.00181	-.00248
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6132**	**-.00022**	**1.3613**	**.9935**	**.00024**
Stddev	.0231	.00077	.0025	.0085	.00002
%RSD	.26865	358.61	.18081	.8596	10.248
#1	8.6295	-.00076	1.3630	.9996	.00022
#2	8.5968	.00033	1.3595	.9875	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-3-A Acquired: 12/15/2021 23:32:16 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00024**	**.00137**	**.9993**
Stddev	.00070	.00054	.00011	.0003
%RSD	310.65	222.85	7.8763	.0338
#1	-.00072	-.00014	.00145	.9995
#2	.00027	.00062	.00130	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3224.4**	**3029.0**	**26978.**	**3132.2**
Stddev	2.8	.3	34.	1.2
%RSD	.08628	.00913	.12680	.03972
#1	3226.3	3029.2	26954.	3133.1
#2	3222.4	3028.8	27002.	3131.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.004%	99.017%	100.74%	106.11%
Range				

Sample Name: 480-193175-B-4-A Acquired: 12/15/2021 23:35:59 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00461**	**.00543**	**.22121**	**.11894**
Stddev	.00060	.03876	.00304	.00024	.00027
%RSD	147.35	840.19	55.903	.10833	.22581
#1	-.00084	-.02280	.00329	.22138	.11876
#2	.00002	.03202	.00758	.22104	.11913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**80.433**	**.00026**	**-.0414**	**-.00005**
Stddev	.00011	.189	.00014	.0447	.00015
%RSD	224.36	.23443	55.617	108.0	325.27
#1	-.00013	80.300	.00016	-.0098	.00006
#2	.00003	80.567	.00036	-.0730	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00128**	**.15464**	**4.3945**	**.01278**
Stddev	.00014	.00040	.00169	.0021	.00023
%RSD	47.823	31.603	1.0941	.04670	1.7865
#1	-.00039	.00099	.15345	4.3959	.01262
#2	-.00019	.00157	.15584	4.3930	.01294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-4-A Acquired: 12/15/2021 23:35:59 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.598**	**.01806**	**.00010**	**22.498**	**.00189**
Stddev	.060	.00015	.00010	.082	.00047
%RSD	.16002	.80405	108.71	.36624	25.034
#1	37.555	.01795	.00017	22.440	.00156
#2	37.640	.01816	.00002	22.556	.00223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00243**	**38.059**	**-.00369**	**.00097**
Stddev	.00	.00014	.067	.00194	.00096
%RSD	.0053	5.8067	.17710	52.495	98.813
#1	25.01	.00253	38.107	-.00506	.00165
#2	25.01	.00233	38.012	-.00232	.00029
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3839**	**-.00018**	F **24.809**	**1.001**	**.00064**
Stddev	.0647	.00029	.031	.009	.00045
%RSD	1.2011	163.19	.12567	.8708	69.599
#1	5.3382	-.00039	24.831	.9949	.00096
#2	5.4296	.00003	24.787	1.007	.00033
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-193175-B-4-A Acquired: 12/15/2021 23:35:59 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00088**	**-.00046**	**.00271**	**.9984**
Stddev	.00029	.00024	.00003	.0000
%RSD	32.918	51.434	1.1751	.0033
#1	-.00067	-.00029	.00273	.9984
#2	-.00108	-.00062	.00268	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3118.6**	**2969.2**	**26556.**	**3097.6**
Stddev	1.3	2.1	51.	7.9
%RSD	.04182	.07076	.19254	.25553
#1	3117.7	2967.8	26592.	3103.2
#2	3119.5	2970.7	26520.	3092.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.953%	97.065%	99.160%	104.94%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 23:39:49 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0529**	**50.559**	**.94678**	**1.0573**	**.94727**
Stddev	.0022	.067	.00014	.0002	.00226
%RSD	.20839	.13286	.01452	.01886	.23875
#1	1.0545	50.606	.94668	1.0574	.94887
#2	1.0514	50.511	.94687	1.0571	.94567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94910**	**50.419**	**.95521**	**.9916**	**1.0501**
Stddev	.00061	.027	.00043	.0169	.0025
%RSD	.06395	.05324	.04552	1.701	.23784
#1	.94953	50.400	.95490	.9797	1.0518
#2	.94867	50.438	.95552	1.004	1.0483
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98527**	**1.0508**	**50.529**	**49.298**	**.96507**
Stddev	.00142	.0027	.003	.055	.00324
%RSD	.14375	.25871	.00641	.11102	.33582
#1	.98627	1.0527	50.531	49.260	.96737
#2	.98427	1.0489	50.526	49.337	.96278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 23:39:49 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.982**	**.96603**	**1.0299**	**46.835**	**.95015**
Stddev	.017	.00047	.0006	.114	.00158
%RSD	.03748	.04836	.06134	.24314	.16655
#1	45.969	.96636	1.0303	46.915	.95127
#2	45.994	.96570	1.0295	46.754	.94903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.03**	**1.0362**	**26.267**	**.94650**	**1.0020**
Stddev	.00	.0020	.024	.00021	.0006
%RSD	.0107	.19378	.08963	.02175	.06380
#1	38.02	1.0348	26.284	.94665	1.0024
#2	38.03	1.0376	26.250	.94636	1.0015
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.160**	**1.0316**	**.93071**	**1.522**	**1.0381**
Stddev	.036	.0020	.00249	.012	.0024
%RSD	.35514	.19765	.26707	.8020	.23101
#1	10.134	1.0330	.93247	1.531	1.0397
#2	10.186	1.0302	.92896	1.513	1.0364
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/15/2021 23:39:49 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99297**	**1.0056**	**1.0210**	**1.501**
Stddev	.00120	.0008	.0017	.001
%RSD	.12083	.08179	.16359	.0897
#1	.99381	1.0062	1.0222	1.500
#2	.99212	1.0050	1.0198	1.502
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3006.1**	**2976.9**	**26051.**	**3037.0**
Stddev	7.8	4.3	71.	3.3
%RSD	.25911	.14565	.27256	.11018
#1	3000.6	2973.9	26000.	3039.3
#2	3011.6	2980.0	26101.	3034.6

Sample Name: CCB-6810114 Acquired: 12/15/2021 23:43:21 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**-.00433**	**.00046**	**-.00062**	**.00002**
Stddev	.00079	.02960	.00123	.00039	.00001
%RSD	350.38	683.99	264.74	62.977	65.029
#1	.00033	-.02526	.00133	-.00035	.00003
#2	-.00079	.01660	-.00041	-.00090	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00029**	**-.00010**	**-.0224**	**-.00024**
Stddev	.00002	.00280	.00009	.0592	.00010
%RSD	35.289	955.58	92.364	263.7	41.474
#1	.00008	.00169	-.00003	.0194	-.00031
#2	.00005	-.00227	-.00016	-.0643	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00067**	**-.00160**	**.01598**	**.00279**
Stddev	.00023	.00029	.00171	.01011	.00416
%RSD	593.51	43.330	107.20	63.261	149.18
#1	-.00020	.00088	-.00281	.00883	.00573
#2	.00012	.00047	-.00039	.02313	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 23:43:21 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00625**	**-.00006**	**.00063**	**.04529**	**.00073**
Stddev	.00057	.00007	.00018	.00512	.00011
%RSD	9.0425	124.44	28.336	11.303	14.718
#1	.00585	-.00011	.00050	.04167	.00081
#2	.00665	-.00001	.00076	.04891	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00099**	**.00865**	**-.00025**	**.00170**
Stddev	.00	.00000	.00040	.00245	.00419
%RSD	.0047	.47292	4.6604	988.47	245.88
#1	25.01	.00099	.00837	.00148	-.00126
#2	25.01	.00099	.00894	-.00198	.00466
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01035**	**.00031**	**.00077**	**1.003**	**-.00017**
Stddev	.00024	.00039	.00007	.001	.00003
%RSD	2.3011	125.12	9.3492	.1026	19.308
#1	.01018	.00004	.00083	1.004	-.00014
#2	.01052	.00058	.00072	1.002	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/15/2021 23:43:21 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00056**	**-.00013**	**.9987**
Stddev	.00024	.00007	.00009	.0001
%RSD	266.61	12.322	68.261	.0118
#1	.00008	-.00061	-.00007	.9986
#2	-.00026	-.00051	-.00020	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3469.4**	**3068.0**	**27557.**	**3064.3**
Stddev	8.8	6.2	112.	26.3
%RSD	.25488	.20274	.40632	.85856
#1	3475.7	3072.4	27636.	3045.7
#2	3463.2	3063.6	27478.	3083.0

Sample Name: CCVL-6811103 Acquired: 12/15/2021 23:47:10 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00544**	**.18076**	**.01368**	**.01849**	**.00206**
Stddev	.00020	.01720	.00019	.00041	.00003
%RSD	3.6015	9.5131	1.4080	2.2203	1.4772
#1	.00558	.19292	.01355	.01820	.00208
#2	.00530	.16860	.01382	.01878	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.49542**	**.00195**	**-.0206**	**.00367**
Stddev	.00012	.00238	.00003	.0113	.00013
%RSD	6.2420	.48068	1.7867	54.81	3.5915
#1	.00184	.49373	.00197	-.0286	.00376
#2	.00202	.49710	.00192	-.0126	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00391**	**.01210**	**.04907**	**.49787**	**.02977**
Stddev	.00014	.00085	.00348	.01946	.00204
%RSD	3.5331	7.0199	7.0829	3.9078	6.8615
#1	.00381	.01150	.05153	.51163	.02832
#2	.00400	.01270	.04662	.48412	.03121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/15/2021 23:47:10 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17791**	**.00282**	**.00942**	**.94534**	**.00965**
Stddev	.00235	.00003	.00025	.01046	.00009
%RSD	1.3193	.92936	2.7046	1.1060	.96201
#1	.17625	.00280	.00924	.95274	.00972
#2	.17957	.00284	.00960	.93795	.00959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01174**	**.19900**	**.01929**	**.02493**
Stddev	.00	.00035	.00105	.00008	.00338
%RSD	.0008	3.0026	.52813	.40734	13.539
#1	25.00	.01150	.19826	.01923	.02254
#2	25.00	.01199	.19974	.01935	.02732
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47795**	**.00927**	**.00525**	F **1.001**	**.00500**
Stddev	.00290	.00023	.00009	.003	.00013
%RSD	.60631	2.4423	1.7979	.3122	2.5808
#1	.47590	.00911	.00518	1.003	.00491
#2	.48000	.00943	.00532	.9985	.00509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/15/2021 23:47:10 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02008**	**.00479**	**.00990**	F **.9997**
Stddev	.00070	.00050	.00027	.0013
%RSD	3.5106	10.383	2.7504	.1262
#1	.01958	.00444	.01009	1.001
#2	.02058	.00514	.00970	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3467.5**	**3082.3**	**27785.**	**3083.9**
Stddev	.5	1.9	81.	6.4
%RSD	.01526	.06314	.28995	.20605
#1	3467.9	3080.9	27842.	3079.4
#2	3467.1	3083.6	27728.	3088.4

Sample Name: 480-193175-B-5-A Acquired: 12/15/2021 23:50:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.02052**	**.00598**	**.09475**	**.11345**
Stddev	.00044	.02602	.00074	.00005	.00017
%RSD	204.89	126.78	12.356	.04759	.14928
#1	.00010	.00212	.00650	.09479	.11333
#2	-.00053	.03892	.00546	.09472	.11357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**39.934**	**.00034**	**-.0572**	**-.00016**
Stddev	.00008	.074	.00000	.0092	.00002
%RSD	178.42	.18524	.48732	16.11	14.625
#1	.00001	39.882	.00034	-.0637	-.00018
#2	-.00010	39.987	.00034	-.0507	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00062**	**.05963**	**3.6003**	**.00686**
Stddev	.00000	.00019	.00015	.0150	.00063
%RSD	1.5086	30.831	.25385	.41734	9.2495
#1	-.00026	.00049	.05974	3.5897	.00641
#2	-.00027	.00076	.05952	3.6110	.00730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-5-A Acquired: 12/15/2021 23:50:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.815**	**.01838**	**.00088**	**19.327**	**.00052**
Stddev	.059	.00005	.00006	.024	.00018
%RSD	.26966	.26730	7.1016	.12233	35.203
#1	21.773	.01834	.00083	19.344	.00039
#2	21.856	.01841	.00092	19.310	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00302**	**9.9318**	**-.00094**	**-.00173**
Stddev	.00	.00027	.0066	.00092	.00059
%RSD	.0015	8.8485	.06621	97.481	34.316
#1	25.01	.00283	9.9271	-.00029	-.00131
#2	25.01	.00321	9.9364	-.00159	-.00215
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.0973**	**-.00050**	**1.3677**	**.9892**	**.00060**
Stddev	.0167	.00028	.0020	.0036	.00009
%RSD	.18381	56.480	.14481	.3674	14.281
#1	9.0855	-.00070	1.3663	.9918	.00054
#2	9.1091	-.00030	1.3691	.9866	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-5-A Acquired: 12/15/2021 23:50:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00058**	**.00235**	**.9983**
Stddev	.00036	.00013	.00032	.0004
%RSD	187.13	22.420	13.630	.0405
#1	.00006	-.00049	.00257	.9980
#2	-.00045	-.00067	.00212	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3253.8**	**3034.6**	**27107.**	**3126.9**
Stddev	5.4	4.4	78.	2.7
%RSD	.16731	.14611	.28704	.08566
#1	3249.9	3031.4	27162.	3128.7
#2	3257.6	3037.7	27052.	3125.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.852%	99.200%	101.22%	105.93%
Range				

Sample Name: 480-193175-B-6-A Acquired: 12/15/2021 23:54:40 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**.02391**	**.00134**	**.11691**	**.04708**
Stddev	.00027	.01667	.00032	.00025	.00011
%RSD	30.146	69.719	23.989	.21552	.22629
#1	.00107	.01212	.00111	.11709	.04716
#2	.00069	.03569	.00156	.11673	.04701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**104.07**	**.00049**	**-.0205**	**-.00003**
Stddev	.00002	.05	.00006	.0734	.00015
%RSD	104.44	.04676	12.090	358.0	482.97
#1	-.00000	104.04	.00045	.0314	-.00014
#2	-.00003	104.11	.00054	-.0724	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00206**	**.00056**	**3.8300**	**.01438**
Stddev	.00013	.00029	.00245	.0017	.00060
%RSD	2442.7	14.042	433.53	.04351	4.1901
#1	.00009	.00226	.00229	3.8312	.01396
#2	-.00010	.00185	-.00117	3.8288	.01481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-6-A Acquired: 12/15/2021 23:54:40 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**62.708**	**.00788**	**.00248**	**34.841**	**.00142**
Stddev	.042	.00005	.00014	.112	.00051
%RSD	.06704	.59277	5.4915	.32154	36.154
#1	62.738	.00791	.00239	34.762	.00106
#2	62.678	.00785	.00258	34.920	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00241**	F **96.352**	**-.00236**	**.00064**
Stddev	.00	.00040	.027	.00089	.00006
%RSD	.0025	16.474	.02784	37.618	9.8454
#1	25.02	.00270	96.371	-.00299	.00060
#2	25.02	.00213	96.333	-.00173	.00069
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8734**	**-.00027**	**.92261**	**.9985**	**.00111**
Stddev	.0195	.00038	.00198	.0014	.00005
%RSD	.40008	138.00	.21483	.1354	4.1614
#1	4.8596	-.00054	.92121	.9976	.00114
#2	4.8872	-.00001	.92401	.9995	.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-6-A Acquired: 12/15/2021 23:54:40 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00049**	**-.00100**	**.00214**	**.9987**
Stddev	.00149	.00014	.00007	.0010
%RSD	306.94	13.651	3.1741	.0960
#1	.00154	-.00110	.00219	.9994
#2	-.00057	-.00090	.00209	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3098.4**	**2955.9**	**26392.**	**3067.0**
Stddev	2.6	3.2	60.	4.3
%RSD	.08410	.10861	.22922	.14143
#1	3096.5	2953.6	26349.	3063.9
#2	3100.2	2958.1	26435.	3070.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.370%	96.628%	98.548%	103.90%
Range				

Sample Name: 480-193175-B-7-A Acquired: 12/15/2021 23:58:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**-.00399**	**.00016**	**-.00138**	**.00007**
Stddev	.00001	.00149	.00014	.00019	.00001
%RSD	2.3541	37.374	89.075	13.713	9.2932
#1	-.00058	-.00505	.00006	-.00125	.00007
#2	-.00060	-.00294	.00025	-.00151	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.07492**	**-.00012**	**-.0168**	**-.00023**
Stddev	.00012	.00009	.00000	.0335	.00012
%RSD	217.53	.12014	.91354	199.2	52.420
#1	-.00014	.07486	-.00012	.0069	-.00015
#2	.00003	.07499	-.00012	-.0405	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00165**	**-.00238**	**.00823**	**.00270**
Stddev	.00033	.00061	.00028	.04374	.00190
%RSD	978.83	36.988	11.845	531.46	70.160
#1	-.00027	.00208	-.00258	.03916	.00405
#2	.00020	.00122	-.00218	-.02270	.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-7-A Acquired: 12/15/2021 23:58:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03018**	**.00008**	**-.00133**	**.26445**	**.00016**
Stddev	.00183	.00001	.00000	.00464	.00002
%RSD	6.0690	7.0911	.28929	1.7535	12.668
#1	.03148	.00009	-.00133	.26773	.00015
#2	.02889	.00008	-.00132	.26117	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00079**	**.06755**	**-.00200**	**-.00206**
Stddev	.00	.00017	.00050	.00249	.00041
%RSD	.0028	22.104	.73876	124.57	19.716
#1	25.01	.00091	.06791	-.00024	-.00177
#2	25.01	.00066	.06720	-.00376	-.00235
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01435**	**.00008**	**.00127**	**.9971**	**-.00031**
Stddev	.00006	.00022	.00007	.0049	.00044
%RSD	.40505	266.66	5.2162	.4891	142.90
#1	.01431	.00024	.00132	.9937	-.00062
#2	.01439	-.00007	.00122	1.001	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-7-A Acquired: 12/15/2021 23:58:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00065**	**-.00009**	**.00110**	**.9996**
Stddev	.00128	.00004	.00022	.0009
%RSD	195.03	38.062	19.932	.0899
#1	.00156	-.00007	.00125	.9989
#2	-.00025	-.00012	.00094	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3546.8**	**3129.2**	**28041.**	**3145.7**
Stddev	5.6	7.8	101.	2.5
%RSD	.15718	.24847	.36155	.07842
#1	3542.9	3123.7	27969.	3144.0
#2	3550.8	3134.7	28112.	3147.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.30%	102.29%	104.70%	106.57%
Range				

Sample Name: 480-193175-B-9-A Acquired: 12/16/2021 0:02:11 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.03486**	**.02288**	**.15637**	**.31713**
Stddev	.00087	.02767	.00198	.00111	.00086
%RSD	117.43	79.367	8.6309	.71123	.27052
#1	-.00136	.05442	.02149	.15558	.31773
#2	-.00013	.01530	.02428	.15715	.31652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**58.408**	**.00064**	**-.0928**	**-.00016**
Stddev	.00010	.144	.00001	.0503	.00004
%RSD	41.524	.24594	1.9721	54.17	23.601
#1	-.00016	58.510	.00065	-.1284	-.00019
#2	-.00030	58.307	.00063	-.0573	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00158**	**1.4581**	**2.5409**	**.04976**
Stddev	.00003	.00047	.0014	.0132	.00148
%RSD	5.8553	30.019	.09354	.52066	2.9793
#1	-.00046	.00191	1.4572	2.5315	.04871
#2	-.00049	.00124	1.4591	2.5502	.05081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-9-A Acquired: 12/16/2021 0:02:11 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**137.83**	**.01568**	**.00583**	**19.372**	**.00085**
Stddev	.41	.00007	.00001	.068	.00011
%RSD	.29661	.43285	.14109	.34916	12.719
#1	137.54	.01564	.00583	19.419	.00092
#2	138.12	.01573	.00584	19.324	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00697**	**7.1375**	**-.00287**	**-.00285**
Stddev	.00	.00034	.0048	.00049	.00221
%RSD	.0034	4.8133	.06665	17.064	77.403
#1	25.01	.00673	7.1341	-.00253	-.00441
#2	25.01	.00721	7.1408	-.00322	-.00129
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.275**	**-.00062**	**2.9396**	**.9993**	**.00116**
Stddev	.064	.00001	.0150	.0061	.00088
%RSD	.39031	2.3743	.51071	.6087	75.841
#1	16.320	-.00061	2.9503	.9950	.00054
#2	16.230	-.00064	2.9290	1.004	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-9-A Acquired: 12/16/2021 0:02:11 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00048**	**-.00162**	**.00397**	**.9991**
Stddev	.00167	.00024	.00026	.0002
%RSD	346.17	14.997	6.5505	.0198
#1	.00070	-.00145	.00379	.9989
#2	-.00166	-.00180	.00416	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3064.7**	**2949.4**	**26319.**	**3096.3**
Stddev	4.1	2.1	101.	2.6
%RSD	.13442	.07170	.38282	.08470
#1	3067.6	2950.9	26390.	3098.1
#2	3061.8	2947.9	26248.	3094.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.398%	96.417%	98.275%	104.90%
Range				

Sample Name: 480-193175-B-10-A Acquired: 12/16/2021 0:05:55 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.01370**	**.00223**	**.16878**	**.22135**
Stddev	.00015	.03304	.00242	.00071	.00002
%RSD	61.252	241.17	108.43	.42171	.01043
#1	.00035	-.00966	.00052	.16827	.22137
#2	.00014	.03706	.00394	.16928	.22133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**108.22**	**.00038**	**-.0477**	**-.00008**
Stddev	.00009	.01	.00013	.0219	.00020
%RSD	110.23	.01149	34.064	45.82	242.59
#1	-.00002	108.21	.00047	-.0322	.00006
#2	-.00015	108.22	.00029	-.0632	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00295**	**-.00006**	**2.9463**	**.01005**
Stddev	.00082	.00086	.00301	.0088	.00151
%RSD	8767.6	29.169	5353.8	.29976	15.000
#1	.00059	.00356	.00207	2.9400	.01111
#2	-.00057	.00234	-.00218	2.9525	.00898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-10-A Acquired: 12/16/2021 0:05:55 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.055**	**.00222**	**-.00054**	**48.330**	**.00232**
Stddev	.043	.00009	.00003	.025	.00002
%RSD	.06543	3.8804	4.7607	.05168	1.0266
#1	65.085	.00216	-.00056	48.313	.00234
#2	65.025	.00228	-.00052	48.348	.00231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00378**	**21.466**	**-.00312**	**-.00123**
Stddev	.00	.00063	.014	.00236	.00141
%RSD	.0035	16.560	.06495	75.650	114.04
#1	25.02	.00422	21.475	-.00479	-.00024
#2	25.02	.00334	21.456	-.00145	-.00223
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4777**	**-.00059**	F **10.222**	**1.002**	**.00083**
Stddev	.0226	.00004	.113	.007	.00008
%RSD	.23812	6.8017	1.1049	.7127	9.3582
#1	9.4618	-.00056	10.142	.9967	.00089
#2	9.4937	-.00062	10.302	1.007	.00078
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-193175-B-10-A Acquired: 12/16/2021 0:05:55 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00024**	**.03487**	**.9985**
Stddev	.00003	.00011	.00054	.0004
%RSD	5.7533	46.044	1.5500	.0386
#1	.00062	.00016	.03525	.9983
#2	.00058	.00032	.03448	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3048.0**	**2935.0**	**26259.**	**3079.3**
Stddev	4.6	3.9	19.	3.4
%RSD	.14989	.13323	.07355	.11178
#1	3051.2	2937.8	26273.	3081.7
#2	3044.8	2932.2	26245.	3076.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.917%	95.945%	98.051%	104.32%
Range				

Sample Name: 480-193175-B-11-A Acquired: 12/16/2021 0:09:44 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.01840**	**.00358**	**.04536**	**.17534**
Stddev	.00006	.01475	.00121	.00055	.00106
%RSD	9.1855	80.193	33.869	1.2155	.60382
#1	-.00070	.00796	.00444	.04497	.17460
#2	-.00062	.02883	.00272	.04575	.17609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**108.36**	**.00037**	**-.0996**	**.00219**
Stddev	.00009	.21	.00001	.0573	.00010
%RSD	128.78	.19245	2.0979	57.57	4.7582
#1	-.00013	108.21	.00038	-.1401	.00211
#2	-.00001	108.50	.00036	-.0590	.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00163**	**.31062**	**1.4421**	**.01244**
Stddev	.00002	.00019	.00185	.0325	.00063
%RSD	6.2604	11.837	.59611	2.2543	5.1009
#1	-.00038	.00150	.31193	1.4651	.01288
#2	-.00035	.00177	.30932	1.4192	.01199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-11-A Acquired: 12/16/2021 0:09:44 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.798**	**.18214**	**-.00016**	**34.434**	**.00350**
Stddev	.246	.00099	.00015	.012	.00068
%RSD	.37360	.54455	93.664	.03398	19.489
#1	65.625	.18144	-.00026	34.426	.00398
#2	65.972	.18284	-.00005	34.442	.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00525**	**42.522**	**-.00431**	**-.00325**
Stddev	.00	.00062	.004	.00149	.00493
%RSD	.0024	11.840	.00881	34.610	151.57
#1	25.01	.00481	42.525	-.00325	-.00673
#2	25.01	.00569	42.519	-.00536	.00023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.034**	**-.00041**	**4.3271**	**1.007**	**.00080**
Stddev	.004	.00022	.0012	.003	.00037
%RSD	.03191	52.541	.02687	.3289	45.936
#1	13.037	-.00026	4.3279	1.004	.00106
#2	13.031	-.00056	4.3263	1.009	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193175-B-11-A Acquired: 12/16/2021 0:09:44 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00099**	**-.00106**	**.00150**	**.9985**
Stddev	.00014	.00006	.00048	.0012
%RSD	13.720	5.3998	31.897	.1216
#1	.00109	-.00110	.00116	.9977
#2	.00090	-.00101	.00184	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3082.0**	**2950.2**	**26413.**	**3105.7**
Stddev	3.4	7.7	128.	8.0
%RSD	.11147	.26104	.48643	.25808
#1	3084.4	2955.6	26504.	3111.3
#2	3079.6	2944.7	26322.	3100.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.897%	96.442%	98.626%	105.21%
Range				

Sample Name: 480-193176-B-1-A Acquired: 12/16/2021 0:13:27 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**-.00837**	**.00052**	**-.00159**	**.00017**
Stddev	.00051	.00136	.00030	.00013	.00001
%RSD	173.00	16.298	57.752	7.9429	4.3929
#1	.00065	-.00934	.00073	-.00168	.00017
#2	-.00007	-.00741	.00031	-.00150	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.16773**	**-.00002**	**-.0345**	**-.00034**
Stddev	.00000	.00062	.00004	.0432	.00008
%RSD	2.9604	.37173	191.21	125.2	24.145
#1	-.00008	.16817	-.00005	-.0039	-.00039
#2	-.00008	.16729	.00001	-.0651	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00007**	**-.00153**	**-.04460**	**.00166**
Stddev	.00026	.00051	.00042	.01440	.00217
%RSD	90.362	694.14	27.574	32.293	130.73
#1	-.00010	-.00043	-.00124	-.05479	.00319
#2	-.00047	.00029	-.00183	-.03442	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-1-A Acquired: 12/16/2021 0:13:27 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10332**	**.00015**	**-.00120**	**.06366**	**.00047**
Stddev	.00253	.00007	.00026	.01051	.00028
%RSD	2.4449	47.776	22.061	16.509	59.556
#1	.10511	.00010	-.00138	.05623	.00067
#2	.10153	.00020	-.00101	.07110	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00168**	**.13886**	**.00084**	**-.00149**
Stddev	.00	.00206	.00190	.00155	.00002
%RSD	.0028	122.86	1.3657	183.97	1.3671
#1	25.01	.00314	.14020	.00194	-.00151
#2	25.01	.00022	.13752	-.00025	-.00148
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04353**	**-.00009**	**.00271**	**.9992**	**-.00014**
Stddev	.01084	.00015	.00017	.0042	.00027
%RSD	24.908	169.76	6.1005	.4194	190.46
#1	.03586	.00002	.00282	.9962	-.00033
#2	.05120	-.00019	.00259	1.002	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-1-A Acquired: 12/16/2021 0:13:27 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.00034**	**.00061**	**.9991**
Stddev	.00122	.00003	.00015	.0001
%RSD	393.48	8.5132	25.073	.0053
#1	.00118	-.00036	.00071	.9991
#2	-.00055	-.00032	.00050	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3544.8**	**3126.1**	**28130.**	**3158.6**
Stddev	3.1	2.2	108.	13.1
%RSD	.08722	.07079	.38227	.41471
#1	3547.0	3127.6	28206.	3167.9
#2	3542.7	3124.5	28054.	3149.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.25%	102.19%	105.04%	107.01%
Range				

Sample Name: 480-193176-B-2-A Acquired: 12/16/2021 0:17:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.01463**	**.00907**	**.12377**	**.09459**
Stddev	.00107	.00326	.00180	.00031	.00011
%RSD	1017.2	22.257	19.863	.25346	.11552
#1	-.00065	.01233	.00779	.12355	.09466
#2	.00086	.01693	.01034	.12399	.09451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**66.685**	**.00054**	**-.0445**	**.00036**
Stddev	.00006	.008	.00003	.0443	.00005
%RSD	521.14	.01126	4.7452	99.46	15.117
#1	-.00006	66.679	.00056	-.0759	.00039
#2	.00003	66.690	.00052	-.0132	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00161**	**.02077**	**1.5595**	**.02994**
Stddev	.00016	.00049	.00364	.0449	.00172
%RSD	58.778	30.521	17.542	2.8810	5.7579
#1	-.00039	.00195	.01819	1.5913	.02872
#2	-.00016	.00126	.02335	1.5277	.03116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-2-A Acquired: 12/16/2021 0:17:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**98.546**	**.01677**	**.00196**	**13.053**	**.00149**
Stddev	.172	.00000	.00001	.024	.00036
%RSD	.17467	.02669	.74190	.18008	24.311
#1	98.425	.01677	.00197	13.070	.00174
#2	98.668	.01677	.00195	13.036	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00431**	**80.808**	**-.00082**	**.00086**
Stddev	.00	.00066	.038	.00208	.00211
%RSD	.0042	15.267	.04676	252.50	246.77
#1	25.01	.00478	80.781	-.00229	-.00064
#2	25.02	.00385	80.835	.00065	.00235
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.698**	**-.00026**	**1.5959**	**1.006**	**.00102**
Stddev	.024	.00022	.0032	.009	.00021
%RSD	.18833	85.330	.20075	.9487	20.971
#1	12.715	-.00042	1.5982	1.013	.00087
#2	12.681	-.00010	1.5937	.9996	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-2-A Acquired: 12/16/2021 0:17:14 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00043**	**.03242**	**.9988**
Stddev	.00158	.00040	.00042	.0007
%RSD	2611.6	92.608	1.3039	.0692
#1	.00106	-.00015	.03272	.9983
#2	-.00118	-.00071	.03212	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3133.6**	**2972.3**	**26535.**	**3079.3**
Stddev	1.0	.6	81.	1.9
%RSD	.03269	.02067	.30659	.06239
#1	3132.9	2972.7	26593.	3080.7
#2	3134.3	2971.8	26478.	3078.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.386%	97.164%	99.083%	104.32%
Range				

Sample Name: 480-193176-B-3-A Acquired: 12/16/2021 0:20:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.03717**	**.00031**	**.04586**	**.09944**
Stddev	.00044	.02917	.00046	.00015	.00002
%RSD	78.336	78.466	151.24	.33684	.01942
#1	-.00088	.01655	.00064	.04597	.09943
#2	-.00025	.05780	-.00002	.04576	.09945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**70.971**	**.00049**	**-.0556**	**-.00028**
Stddev	.00000	.325	.00001	.0082	.00012
%RSD	1.3255	.45727	1.9843	14.67	43.277
#1	-.00020	71.200	.00050	-.0498	-.00036
#2	-.00021	70.741	.00049	-.0614	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00256**	**.03171**	**1.0922**	**.01915**
Stddev	.00017	.00052	.00268	.1288	.00006
%RSD	32.787	20.339	8.4570	11.794	.29932
#1	.00041	.00219	.03360	1.1833	.01911
#2	.00065	.00293	.02981	1.0011	.01919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-3-A Acquired: 12/16/2021 0:20:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**62.158**	**.00417**	**.00145**	**10.345**	**.00117**
Stddev	.054	.00009	.00023	.059	.00027
%RSD	.08638	2.2548	16.223	.57128	23.441
#1	62.120	.00410	.00161	10.386	.00136
#2	62.196	.00423	.00128	10.303	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00193**	**30.307**	**-.00208**	**-.00060**
Stddev	.00	.00038	.006	.00004	.00116
%RSD	.0063	19.863	.02011	2.1291	193.65
#1	25.01	.00220	30.302	-.00205	-.00142
#2	25.01	.00166	30.311	-.00211	.00022
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3879**	**-.00054**	**.78711**	**1.001**	**.00105**
Stddev	.0198	.00025	.00206	.006	.00062
%RSD	.23593	46.471	.26216	.5831	59.099
#1	8.4019	-.00071	.78857	1.005	.00149
#2	8.3739	-.00036	.78565	.9972	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-3-A Acquired: 12/16/2021 0:20:57 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00016**	**.00966**	**.9993**
Stddev	.00111	.00013	.00060	.0015
%RSD	540.43	76.661	6.1983	.1547
#1	-.00058	-.00025	.01008	.9982
#2	.00099	-.00008	.00923	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3168.4**	**2983.0**	**26689.**	**3109.4**
Stddev	6.3	.2	26.	22.0
%RSD	.19781	.00517	.09596	.70710
#1	3172.8	2982.9	26707.	3093.8
#2	3163.9	2983.1	26671.	3124.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.389%	97.514%	99.657%	105.34%
Range				

Sample Name: CCV-6817081 Acquired: 12/16/2021 0:24:42 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0476**	**50.489**	**.94951**	**1.0603**	**.94626**
Stddev	.0042	.013	.00027	.0004	.00233
%RSD	.40149	.02576	.02881	.03505	.24671
#1	1.0506	50.498	.94932	1.0601	.94791
#2	1.0446	50.480	.94971	1.0606	.94461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94744**	**50.347**	**.95610**	**.9960**	**1.0533**
Stddev	.00323	.156	.00102	.0371	.0008
%RSD	.34134	.31046	.10654	3.727	.07129
#1	.94973	50.458	.95538	1.022	1.0538
#2	.94516	50.237	.95682	.9697	1.0528
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98392**	**1.0525**	**50.597**	**49.214**	**.96299**
Stddev	.00159	.0038	.118	.193	.00751
%RSD	.16189	.36358	.23393	.39273	.77943
#1	.98505	1.0552	50.680	49.350	.96830
#2	.98279	1.0498	50.513	49.077	.95769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/16/2021 0:24:42 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.693**	**.96059**	**1.0318**	**46.744**	**.95147**
Stddev	.231	.00575	.0006	.155	.00006
%RSD	.50464	.59851	.06236	.33112	.00613
#1	45.856	.96465	1.0313	46.854	.95143
#2	45.530	.95652	1.0322	46.635	.95151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.05**	**1.0387**	**26.349**	**.94738**	**1.0034**
Stddev	.00	.0042	.005	.00094	.0020
%RSD	.0126	.39951	.02059	.09912	.19859
#1	38.05	1.0416	26.346	.94805	1.0020
#2	38.05	1.0357	26.353	.94672	1.0048
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.086**	**1.0327**	**.93013**	**1.527**	**1.0359**
Stddev	.044	.0009	.00340	.004	.0032
%RSD	.43245	.08922	.36601	.2353	.30637
#1	10.117	1.0334	.93254	1.529	1.0381
#2	10.055	1.0321	.92772	1.524	1.0337
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/16/2021 0:24:42 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99435**	**1.0041**	**1.0184**	**1.507**
Stddev	.00084	.0033	.0088	.002
%RSD	.08465	.33281	.86682	.1268
#1	.99494	1.0065	1.0247	1.508
#2	.99375	1.0017	1.0122	1.505
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2996.5**	**2968.4**	**26146.**	**3067.7**
Stddev	1.1	.2	147.	8.0
%RSD	.03695	.00663	.56252	.26156
#1	2995.7	2968.6	26042.	3062.1
#2	2997.3	2968.3	26250.	3073.4

Sample Name: CCB-6810114 Acquired: 12/16/2021 0:28:13 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**-.01250**	**.00273**	**-.00099**	**-.00002**
Stddev	.00037	.01732	.00189	.00025	.00002
%RSD	42.904	138.58	69.136	25.303	124.08
#1	-.00114	-.00025	.00139	-.00081	-.00000
#2	-.00061	-.02475	.00406	-.00117	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00316**	**.00004**	**-.0293**	**-.00015**
Stddev	.00010	.00069	.00016	.0063	.00014
%RSD	139.40	21.846	387.17	21.62	87.889
#1	-.00000	.00267	-.00007	-.0248	-.00006
#2	-.00014	.00365	.00015	-.0338	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00080**	**-.00308**	**.01402**	**.00112**
Stddev	.00010	.00029	.00032	.02199	.00046
%RSD	34.880	36.184	10.411	156.87	41.317
#1	-.00036	.00060	-.00286	.02957	.00145
#2	-.00022	.00101	-.00331	-.00153	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/16/2021 0:28:13 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00263**	**-.00010**	**.00036**	**.01237**	**.00060**
Stddev	.00089	.00005	.00022	.00383	.00002
%RSD	33.938	45.224	63.163	30.982	2.5429
#1	.00200	-.00007	.00020	.00966	.00061
#2	.00326	-.00013	.00051	.01508	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00091**	**.01006**	**-.00081**	**.00224**
Stddev	.00	.00022	.00093	.00137	.00380
%RSD	.0021	24.699	9.2025	167.90	169.32
#1	25.01	.00075	.01071	.00015	-.00044
#2	25.01	.00107	.00940	-.00178	.00493
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00518**	**-.00006**	**.00023**	**1.003**	**.00015**
Stddev	.01432	.00033	.00010	.002	.00011
%RSD	276.31	597.35	42.929	.1521	78.051
#1	-.01531	-.00029	.00030	1.004	.00023
#2	.00494	.00018	.00016	1.002	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/16/2021 0:28:13 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00076**	**-.00017**	**.00004**	**.9989**
Stddev	.00059	.00019	.00044	.0002
%RSD	77.473	111.20	987.54	.0231
#1	-.00118	-.00031	.00035	.9988
#2	-.00035	-.00004	-.00026	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3471.8**	**3065.1**	**27527.**	**3084.3**
Stddev	5.0	.6	134.	16.4
%RSD	.14289	.02095	.48757	.53189
#1	3475.3	3064.6	27622.	3072.7
#2	3468.3	3065.5	27432.	3095.9

Sample Name: CCVL-6811103 Acquired: 12/16/2021 0:32:01 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**.22080**	**.01421**	**.01780**	**.00201**
Stddev	.00055	.01818	.00043	.00041	.00002
%RSD	10.916	8.2343	3.0161	2.2803	.81368
#1	.00462	.20795	.01391	.01751	.00202
#2	.00540	.23366	.01451	.01809	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00186**	**.49879**	**.00186**	**-.0262**	**.00370**
Stddev	.00006	.00006	.00004	.0230	.00021
%RSD	3.1235	.01279	2.3143	87.71	5.7237
#1	.00190	.49884	.00189	-.0425	.00385
#2	.00182	.49875	.00183	-.0100	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00386**	**.01161**	**.04732**	**.42519**	**.02850**
Stddev	.00018	.00004	.00098	.00553	.00234
%RSD	4.7611	.31108	2.0655	1.3000	8.2111
#1	.00399	.01158	.04801	.42910	.03015
#2	.00373	.01163	.04663	.42128	.02684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/16/2021 0:32:01 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17735**	**.00279**	**.00953**	**.91355**	**.00954**
Stddev	.00155	.00001	.00004	.00610	.00032
%RSD	.87392	.22385	.46381	.66746	3.3707
#1	.17626	.00278	.00956	.91786	.00931
#2	.17845	.00279	.00950	.90924	.00977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01055**	**.19964**	**.01823**	**.02234**
Stddev	.00	.00089	.00093	.00119	.00217
%RSD	.0008	8.4123	.46646	6.5023	9.7129
#1	25.00	.01117	.19898	.01739	.02387
#2	25.00	.00992	.20030	.01907	.02080
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48473**	**.00967**	**.00479**	F **1.004**	**.00434**
Stddev	.01580	.00022	.00009	.007	.00031
%RSD	3.2603	2.2877	1.7865	.7251	7.0470
#1	.47356	.00983	.00485	.9993	.00456
#2	.49591	.00952	.00473	1.010	.00413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/16/2021 0:32:01 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01929**	**.00500**	**.00991**	F **.9985**
Stddev	.00049	.00005	.00005	.0007
%RSD	2.5381	1.0966	.46073	.0704
#1	.01963	.00504	.00988	.9980
#2	.01894	.00496	.00994	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3467.1**	**3075.7**	**27566.**	**3081.8**
Stddev	3.6	1.3	130.	2.4
%RSD	.10440	.04284	.47310	.07890
#1	3469.6	3076.6	27474.	3083.5
#2	3464.5	3074.8	27658.	3080.0

Sample Name: 480-193176-B-4-A Acquired: 12/16/2021 0:35:48 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**.02401**	**.02464**	**.04268**	**.15201**
Stddev	.00128	.02054	.00082	.00058	.00026
%RSD	135.19	85.545	3.3432	1.3525	.17256
#1	-.00185	.00949	.02523	.04227	.15220
#2	-.00004	.03854	.02406	.04309	.15183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**116.72**	**.00029**	**-.0429**	**.00052**
Stddev	.00002	.09	.00002	.0493	.00010
%RSD	24.352	.07543	7.2548	114.8	19.802
#1	-.00009	116.78	.00027	-.0778	.00059
#2	-.00007	116.66	.00030	-.0081	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00198**	**6.9507**	**4.5899**	**.01314**
Stddev	.00005	.00030	.0179	.0418	.00014
%RSD	17.537	15.238	.25770	.91036	1.0574
#1	-.00025	.00177	6.9380	4.5604	.01324
#2	-.00032	.00220	6.9633	4.6195	.01304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-4-A Acquired: 12/16/2021 0:35:48 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.635**	**.17810**	**-.00041**	**10.718**	**.00172**
Stddev	.084	.00033	.00040	.032	.00007
%RSD	.16316	.18291	98.774	.29868	3.9162
#1	51.694	.17833	-.00069	10.741	.00167
#2	51.575	.17787	-.00012	10.695	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00549**	**38.267**	**.00088**	**.00239**
Stddev	.00	.00110	.029	.00112	.00247
%RSD	.0042	20.007	.07493	126.95	103.43
#1	25.00	.00627	38.287	.00168	.00064
#2	25.00	.00471	38.247	.00009	.00414
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.154**	**-.00017**	**.12790**	**1.009**	**.00072**
Stddev	.036	.00046	.00001	.007	.00001
%RSD	.29347	268.40	.00577	.7026	2.0238
#1	12.179	-.00050	.12789	1.004	.00071
#2	12.129	.00015	.12790	1.014	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-4-A Acquired: 12/16/2021 0:35:48 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00093**	**-.00041**	**.01132**	**.9992**
Stddev	.00067	.00006	.00004	.0004
%RSD	71.778	14.452	.32350	.0367
#1	.00141	-.00037	.01129	.9994
#2	.00046	-.00045	.01134	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3121.7**	**2961.9**	**26507.**	**3105.3**
Stddev	7.5	9.9	34.	19.5
%RSD	.24095	.33444	.12925	.62844
#1	3116.4	2954.9	26531.	3091.5
#2	3127.1	2968.9	26483.	3119.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.044%	96.824%	98.977%	105.20%
Range				

Sample Name: 480-193176-B-5-A Acquired: 12/16/2021 0:39:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**-.01600**	**.00096**	**.05690**	**.04385**
Stddev	.00096	.01806	.00110	.00024	.00013
%RSD	78.159	112.89	114.80	.41389	.29417
#1	-.00190	-.00323	.00174	.05674	.04376
#2	-.00055	-.02877	.00018	.05707	.04394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**270.02**	**.00064**	**-.0717**	**-.00016**
Stddev	.00010	.53	.00008	.0293	.00004
%RSD	56.547	.19693	12.469	40.88	24.610
#1	-.00010	269.65	.00070	-.0510	-.00014
#2	-.00024	270.40	.00058	-.0924	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00990**	**.01415**	**2.5684**	**.01861**
Stddev	.00019	.00156	.00107	.0254	.00211
%RSD	237.08	15.771	7.5549	.98949	11.336
#1	-.00021	.01101	.01491	2.5504	.01712
#2	.00005	.00880	.01340	2.5864	.02010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-5-A Acquired: 12/16/2021 0:39:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**157.15**	**.00303**	**-.00002**	**21.528**	**.00316**
Stddev	.20	.00005	.00021	.057	.00021
%RSD	.12960	1.7947	884.11	.26475	6.5964
#1	157.01	.00299	-.00017	21.488	.00331
#2	157.29	.00306	.00013	21.569	.00301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00179**	F **378.88**	**-.00187**	**-.00085**
Stddev	.00	.00178	.23	.00180	.00090
%RSD	.0012	99.506	.05959	95.806	106.55
#1	25.01	.00305	379.04	-.00314	-.00021
#2	25.01	.00053	378.72	-.00060	-.00149
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3402**	**-.00075**	**1.1679**	**1.008**	**.00162**
Stddev	.0037	.00039	.0028	.006	.00002
%RSD	.08421	52.159	.23858	.5538	1.2896
#1	4.3376	-.00103	1.1659	1.004	.00160
#2	4.3428	-.00047	1.1699	1.012	.00163
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-5-A Acquired: 12/16/2021 0:39:32 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00055**	**-.00086**	**.02079**	**.9993**
Stddev	.00108	.00018	.00021	.0004
%RSD	195.82	20.891	.99569	.0377
#1	-.00131	-.00073	.02094	.9991
#2	.00021	-.00099	.02065	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2955.0**	**2851.6**	**25562.**	**3053.2**
Stddev	4.5	5.6	34.	11.0
%RSD	.15236	.19755	.13385	.36085
#1	2951.8	2847.7	25586.	3061.0
#2	2958.1	2855.6	25538.	3045.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.233%	93.221%	95.448%	103.44%
Range				

Sample Name: 480-193176-B-6-A Acquired: 12/16/2021 0:43:22 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**-.00376**	**.00266**	**.05247**	**.04567**
Stddev	.00011	.01400	.00011	.00031	.00004
%RSD	12.089	371.94	4.0590	.58153	.08592
#1	-.00102	.00614	.00258	.05268	.04570
#2	-.00086	-.01366	.00273	.05225	.04565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**120.04**	**.00059**	**-.0613**	**.00035**
Stddev	.00004	.45	.00005	.0789	.00023
%RSD	39.082	.37727	8.0218	128.7	65.171
#1	-.00007	119.72	.00055	-.0055	.00052
#2	-.00012	120.36	.00062	-.1171	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00317**	**.00059**	**2.8297**	**.02021**
Stddev	.00002	.00021	.00076	.0029	.00136
%RSD	4.7312	6.6350	129.21	.10182	6.7358
#1	-.00046	.00302	.00112	2.8277	.01924
#2	-.00049	.00332	.00005	2.8317	.02117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-6-A Acquired: 12/16/2021 0:43:22 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**97.515**	**.04088**	**.00283**	**21.123**	**.00352**
Stddev	.239	.00012	.00008	.086	.00060
%RSD	.24532	.28724	2.6878	.40786	16.918
#1	97.684	.04097	.00288	21.062	.00394
#2	97.345	.04080	.00278	21.184	.00310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00241**	F **152.00**	**-.00197**	**.00511**
Stddev	.00	.00016	.02	.00144	.00604
%RSD	.0019	6.5531	.01140	72.956	118.13
#1	25.01	.00229	151.99	-.00095	.00084
#2	25.01	.00252	152.02	-.00298	.00938
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8950**	**-.00037**	**.99888**	**1.001**	**.00167**
Stddev	.0308	.00015	.00169	.003	.00011
%RSD	.44660	40.530	.16899	.2542	6.8420
#1	6.8732	-.00027	.99769	1.003	.00159
#2	6.9168	-.00048	1.0001	.9993	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-6-A Acquired: 12/16/2021 0:43:22 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00123**	**-.00041**	**.01131**	**.9986**
Stddev	.00072	.00049	.00010	.0011
%RSD	58.762	119.74	.86301	.1149
#1	.00173	-.00075	.01124	.9994
#2	.00072	-.00006	.01138	.9978
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3085.0**	**2939.4**	**26289.**	**3116.3**
Stddev	3.0	1.6	17.	13.7
%RSD	.09814	.05511	.06432	.44078
#1	3082.8	2938.3	26301.	3126.0
#2	3087.1	2940.6	26277.	3106.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.983%	96.090%	98.163%	105.58%
Range				

Sample Name: 480-193176-B-7-A Acquired: 12/16/2021 0:47:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.02108**	**.00341**	**.16398**	**.58202**
Stddev	.00049	.02561	.00009	.00082	.00201
%RSD	509.86	121.51	2.6342	.49845	.34498
#1	.00025	.03919	.00348	.16340	.58344
#2	-.00044	.00297	.00335	.16456	.58060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**112.53**	**.00068**	**-.0358**	**-.00007**
Stddev	.00009	.35	.00001	.0191	.00008
%RSD	90.423	.31438	1.4927	53.27	113.50
#1	-.00003	112.28	.00069	-.0494	-.00001
#2	-.00016	112.78	.00067	-.0223	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.00141**	**6.1042**	**4.0216**	**.02987**
Stddev	.00005	.00020	.0293	.0132	.00267
%RSD	9.4549	13.844	.47985	.32832	8.9371
#1	.00054	.00128	6.0835	4.0309	.02798
#2	.00047	.00155	6.1250	4.0122	.03176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-7-A Acquired: 12/16/2021 0:47:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**131.42**	**.15328**	**.00037**	**77.266**	**.01103**
Stddev	.55	.00018	.00001	.127	.00003
%RSD	.41700	.11436	3.0972	.16426	.29015
#1	131.04	.15316	.00036	77.177	.01105
#2	131.81	.15341	.00038	77.356	.01101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00682**	**2.1031**	**.00004**	**.00035**
Stddev	.00	.00200	.0037	.00116	.00205
%RSD	.0020	29.281	.17821	2598.5	591.08
#1	25.01	.00824	2.1004	-.00077	-.00110
#2	25.01	.00541	2.1057	.00086	.00179
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.160**	**.00010**	**1.2208**	**1.000**	**.00105**
Stddev	.004	.00010	.0070	.001	.00009
%RSD	.02566	95.732	.57662	.1160	8.7849
#1	15.157	.00003	1.2159	.9993	.00111
#2	15.163	.00017	1.2258	1.001	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-7-A Acquired: 12/16/2021 0:47:06 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00118**	**-.00096**	**.05254**	**.9983**
Stddev	.00087	.00009	.00030	.0010
%RSD	73.849	9.1693	.57341	.1001
#1	.00056	-.00102	.05233	.9990
#2	.00179	-.00090	.05275	.9976
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2982.8**	**2910.0**	**25876.**	**3078.7**
Stddev	1.9	4.2	124.	7.8
%RSD	.06318	.14324	.47976	.25326
#1	2981.5	2913.0	25789.	3073.2
#2	2984.2	2907.1	25964.	3084.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.037%	95.129%	96.622%	104.30%
Range				

Sample Name: 480-193176-B-8-A Acquired: 12/16/2021 0:50:54 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.02737**	**.00540**	**.07350**	**.04749**
Stddev	.00049	.00033	.00010	.00030	.00007
%RSD	124.65	1.1958	1.8613	.40421	.15596
#1	-.00005	.02714	.00533	.07371	.04744
#2	-.00074	.02760	.00548	.07329	.04755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**104.32**	**.00035**	**-.0502**	**-.00001**
Stddev	.00003	.21	.00003	.0153	.00001
%RSD	21.029	.20286	7.5651	30.53	109.71
#1	-.00011	104.47	.00033	-.0394	-.00002
#2	-.00014	104.17	.00037	-.0610	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00137**	**1.6694**	**1.3379**	**.01243**
Stddev	.00002	.00021	.0040	.0690	.00018
%RSD	7.3974	15.177	.23877	5.1574	1.4183
#1	.00023	.00151	1.6722	1.2891	.01256
#2	.00021	.00122	1.6666	1.3867	.01231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-8-A Acquired: 12/16/2021 0:50:54 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.398**	**.10905**	**.00034**	**13.208**	**.00217**
Stddev	.243	.00044	.00005	.017	.00003
%RSD	.54691	.40092	13.195	.13148	1.4627
#1	44.226	.10874	.00038	13.220	.00219
#2	44.570	.10936	.00031	13.195	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00491**	**25.885**	**-.00111**	**-.00483**
Stddev	.00	.00002	.062	.00022	.00115
%RSD	.0040	.31596	.24016	19.748	23.779
#1	25.01	.00490	25.841	-.00096	-.00402
#2	25.01	.00492	25.929	-.00127	-.00565
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9879**	**-.00015**	F **12.775**	**.9941**	**.00086**
Stddev	.0472	.00001	.209	.0057	.00002
%RSD	.52531	3.5306	1.6322	.5724	2.5841
#1	9.0213	-.00015	12.627	.9901	.00087
#2	8.9545	-.00014	12.922	.9981	.00084
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-193176-B-8-A Acquired: 12/16/2021 0:50:54 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00092**	**-.00085**	**.44495**	**.9986**
Stddev	.00018	.00039	.00027	.0018
%RSD	19.045	45.263	.05969	.1802
#1	-.00080	-.00058	.44476	.9999
#2	-.00105	-.00112	.44513	.9973
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3131.8**	**2965.9**	**26594.**	**3105.1**
Stddev	8.2	6.6	99.	23.4
%RSD	.26061	.22097	.37321	.75246
#1	3126.1	2961.3	26664.	3088.6
#2	3137.6	2970.6	26524.	3121.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.335%	96.957%	99.302%	105.20%
Range				

Sample Name: 480-193176-B-9-A Acquired: 12/16/2021 0:54:42 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00096**	**.05261**	**.00636**	**.14077**	**.13838**
Stddev	.00049	.02221	.00235	.00083	.00022
%RSD	51.378	42.220	36.938	.58875	.16023
#1	-.00061	.06831	.00802	.14136	.13822
#2	-.00130	.03690	.00470	.14019	.13854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**170.54**	**.00019**	**.0261**	**.00217**
Stddev	.00004	.00	.00003	.0017	.00011
%RSD	23.822	.00094	17.446	6.345	5.1184
#1	-.00019	170.54	.00017	.0249	.00209
#2	-.00014	170.54	.00021	.0273	.00225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00189**	**1.7455**	**4.9479**	**.00867**
Stddev	.00001	.00054	.0006	.0178	.00124
%RSD	5.6244	28.653	.03482	.35892	14.351
#1	-.00019	.00227	1.7459	4.9604	.00955
#2	-.00017	.00151	1.7450	4.9353	.00779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-9-A Acquired: 12/16/2021 0:54:42 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**59.037**	**.63705**	**-.00093**	**7.6537**	**.00711**
Stddev	.200	.00068	.00025	.0029	.00038
%RSD	.33820	.10632	27.240	.03803	5.2786
#1	59.179	.63753	-.00111	7.6517	.00738
#2	58.896	.63657	-.00075	7.6558	.00685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00439**	**28.903**	**-.00252**	**-.00400**
Stddev	.00	.00134	.085	.00060	.00009
%RSD	.0088	30.564	.29274	23.784	2.2128
#1	25.01	.00344	28.963	-.00295	-.00406
#2	25.01	.00534	28.843	-.00210	-.00394
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.4381**	**.00011**	**.27638**	**1.002**	**.00227**
Stddev	.0104	.00048	.00073	.004	.00023
%RSD	.12297	419.99	.26291	.3585	10.137
#1	8.4454	.00046	.27690	1.005	.00210
#2	8.4307	-.00023	.27587	.9998	.00243
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193176-B-9-A Acquired: 12/16/2021 0:54:42 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00098**	**.00489**	**.9983**
Stddev	.00095	.00061	.00024	.0002
%RSD	387.93	62.363	4.9772	.0212
#1	.00092	-.00140	.00506	.9985
#2	-.00043	-.00055	.00471	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3065.6**	**2922.4**	**26293.**	**3066.1**
Stddev	1.2	2.1	154.	8.2
%RSD	.03982	.07323	.58711	.26780
#1	3064.7	2920.9	26184.	3071.9
#2	3066.4	2923.9	26402.	3060.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.423%	95.534%	98.177%	103.87%
Range				

Sample Name: 192096-4 tot Acquired: 12/16/2021 0:58:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.03260**	**.00134**	**.02190**	**.02690**
Stddev	.00019	.01753	.00078	.00070	.00006
%RSD	23.894	53.783	58.022	3.1917	.22910
#1	-.00095	.04500	.00079	.02141	.02695
#2	-.00067	.02020	.00189	.02240	.02686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**200.75**	**.00015**	**-.0262**	**-.00013**
Stddev	.00011	.12	.00009	.0289	.00012
%RSD	116.05	.06150	60.069	110.2	89.233
#1	-.00002	200.67	.00009	-.0467	-.00005
#2	-.00017	200.84	.00021	-.0058	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00331**	**.06809**	**2.0900**	**.01045**
Stddev	.00013	.00080	.00300	.0400	.00487
%RSD	210.53	24.199	4.4058	1.9123	46.584
#1	.00015	.00275	.07021	2.0618	.00701
#2	-.00003	.00388	.06597	2.1183	.01389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 192096-4 tot Acquired: 12/16/2021 0:58:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.695**	**.01449**	**-.00130**	**3.5047**	**.00073**
Stddev	.054	.00007	.00004	.0189	.00007
%RSD	.14718	.51220	3.2135	.53888	10.090
#1	36.734	.01444	-.00127	3.4914	.00068
#2	36.657	.01455	-.00133	3.5181	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00157**	**86.802**	**-.00325**	**-.00197**
Stddev	.00	.00019	.134	.00081	.00095
%RSD	.0042	11.836	.15411	24.896	48.236
#1	25.01	.00170	86.708	-.00383	-.00264
#2	25.01	.00144	86.897	-.00268	-.00130
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0482**	**-.00032**	**.45970**	**.9942**	**.00119**
Stddev	.0036	.00105	.00018	.0011	.00007
%RSD	.08783	331.13	.03988	.1152	6.2576
#1	4.0457	-.00106	.45957	.9934	.00114
#2	4.0507	.00043	.45982	.9950	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 192096-4 tot Acquired: 12/16/2021 0:58:24 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00058**	**-.00068**	**.00118**	**.9982**
Stddev	.00117	.00036	.00050	.0002
%RSD	201.18	52.488	42.028	.0232
#1	-.00025	-.00093	.00153	.9980
#2	.00141	-.00043	.00083	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3170.6**	**2982.3**	**26566.**	**3100.5**
Stddev	7.7	2.4	23.	18.7
%RSD	.24398	.07915	.08484	.60255
#1	3176.1	2983.9	26581.	3113.7
#2	3165.1	2980.6	26550.	3087.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.454%	97.490%	99.196%	105.04%
Range				

Sample Name: 192096-5 tot Acquired: 12/16/2021 1:02:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.01964**	**.00252**	**.05030**	**.09296**
Stddev	.00080	.02057	.00004	.00009	.00022
%RSD	198.75	104.70	1.6447	.17676	.23192
#1	.00016	.03419	.00249	.05037	.09281
#2	-.00097	.00510	.00255	.05024	.09311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**98.353**	**.00027**	**-.0614**	**-.00013**
Stddev	.00003	.140	.00006	.0143	.00005
%RSD	29.191	.14263	24.053	23.31	42.926
#1	-.00007	98.253	.00022	-.0513	-.00017
#2	-.00011	98.452	.00031	-.0715	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00136**	**1.6399**	**1.2621**	**.02020**
Stddev	.00021	.00076	.0019	.0166	.00006
%RSD	5278.9	55.618	.11697	1.3148	.30197
#1	-.00015	.00082	1.6385	1.2738	.02024
#2	.00015	.00189	1.6412	1.2504	.02016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 192096-5 tot Acquired: 12/16/2021 1:02:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.865**	**.09258**	**.00068**	**7.4921**	**-.00013**
Stddev	.043	.00013	.00006	.0245	.00008
%RSD	.13641	.13621	9.4280	.32760	59.044
#1	31.835	.09267	.00072	7.4747	-.00008
#2	31.896	.09249	.00063	7.5095	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00268**	**34.952**	**-.00242**	**-.00086**
Stddev	.00	.00000	.016	.00444	.00360
%RSD	.0023	.04993	.04524	183.89	419.76
#1	25.01	.00268	34.963	-.00556	-.00340
#2	25.01	.00269	34.940	.00073	.00169
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8403**	**-.00075**	**.55490**	**1.004**	**.00077**
Stddev	.0050	.00007	.00298	.005	.00033
%RSD	.07329	8.7108	.53702	.4605	42.534
#1	6.8439	-.00070	.55279	1.001	.00054
#2	6.8368	-.00079	.55701	1.007	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 192096-5 tot Acquired: 12/16/2021 1:02:09 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00131**	**-.00070**	**.00106**	**.9986**
Stddev	.00021	.00040	.00009	.0009
%RSD	15.688	56.532	8.3310	.0886
#1	.00146	-.00098	.00100	.9992
#2	.00117	-.00042	.00112	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3256.2**	**3024.2**	**26865.**	**3083.4**
Stddev	2.4	1.9	100.	15.3
%RSD	.07298	.06369	.37280	.49637
#1	3257.8	3025.5	26936.	3094.2
#2	3254.5	3022.8	26794.	3072.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.921%	98.860%	100.31%	104.46%
Range				

Sample Name: 192096-8 tot Acquired: 12/16/2021 1:05:53 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**.12258**	**.00271**	**.02602**	**.05044**
Stddev	.00037	.02423	.00014	.00040	.00015
%RSD	43.488	19.763	5.1163	1.5258	.29867
#1	-.00059	.10545	.00280	.02574	.05033
#2	-.00112	.13971	.00261	.02630	.05054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**160.89**	**.00024**	**-.0232**	**.00012**
Stddev	.00011	1.18	.00014	.0473	.00011
%RSD	111.16	.73454	59.070	204.0	97.385
#1	-.00017	160.06	.00014	.0103	.00004
#2	-.00002	161.73	.00035	-.0566	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00397**	**.22534**	**3.7166**	**.01668**
Stddev	.00018	.00083	.00258	.0125	.00012
%RSD	543.71	20.963	1.1447	.33557	.73107
#1	.00009	.00456	.22716	3.7254	.01676
#2	-.00016	.00338	.22351	3.7077	.01659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 192096-8 tot Acquired: 12/16/2021 1:05:53 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.582**	**.05367**	**-.00094**	**4.3761**	**.00237**
Stddev	.028	.00019	.00010	.0407	.00009
%RSD	.10857	.34739	10.495	.93024	3.7141
#1	25.601	.05380	-.00101	4.3473	.00243
#2	25.562	.05354	-.00087	4.4049	.00230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00279**	**27.244**	**-.00466**	**.00036**
Stddev	.00	.00006	.010	.00030	.00285
%RSD	.0059	1.9731	.03692	6.5299	782.93
#1	25.01	.00283	27.236	-.00487	-.00165
#2	25.01	.00276	27.251	-.00444	.00238
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7945**	**-.00050**	**.27263**	**1.004**	**.00283**
Stddev	.0216	.00063	.00184	.008	.00047
%RSD	.37238	126.48	.67366	.8121	16.783
#1	5.7793	-.00094	.27133	.9981	.00316
#2	5.8098	-.00005	.27393	1.010	.00249
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 192096-8 tot Acquired: 12/16/2021 1:05:53 Type: Unk
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00138**	**-.00040**	**.00155**	**.9990**
Stddev	.00181	.00008	.00035	.0010
%RSD	131.41	19.802	22.490	.0984
#1	.00010	-.00045	.00180	.9997
#2	.00266	-.00034	.00130	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3195.0**	**2986.8**	**26452.**	**3101.3**
Stddev	2.2	.3	32.	8.2
%RSD	.06885	.01028	.12241	.26496
#1	3196.6	2987.0	26475.	3107.2
#2	3193.5	2986.6	26430.	3095.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.157%	97.640%	98.773%	105.07%
Range				

Sample Name: CCV-6817081 Acquired: 12/16/2021 1:09:39 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0552**	**50.270**	**.95096**	**1.0605**	**.94316**
Stddev	.0009	.099	.00039	.0012	.00413
%RSD	.08437	.19689	.04074	.11132	.43813
#1	1.0558	50.200	.95069	1.0597	.94024
#2	1.0546	50.340	.95123	1.0614	.94608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94555**	**50.256**	**.95968**	**1.023**	**1.0523**
Stddev	.00239	.060	.00032	.018	.0004
%RSD	.25226	.11975	.03375	1.744	.04225
#1	.94386	50.213	.95991	1.011	1.0527
#2	.94723	50.298	.95945	1.036	1.0520
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98606**	**1.0547**	**50.374**	**49.374**	**.96190**
Stddev	.00184	.0009	.054	.078	.00137
%RSD	.18627	.08921	.10809	.15866	.14243
#1	.98736	1.0541	50.335	49.318	.96287
#2	.98476	1.0554	50.412	49.429	.96093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/16/2021 1:09:39 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.024**	**.96601**	**1.0324**	**46.643**	**.95388**
Stddev	.152	.00211	.0011	.100	.00011
%RSD	.33090	.21888	.10228	.21402	.01190
#1	46.132	.96750	1.0331	46.573	.95379
#2	45.916	.96451	1.0316	46.714	.95396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.06**	**1.0387**	**26.400**	**.94776**	**1.0021**
Stddev	.00	.0019	.016	.00141	.0030
%RSD	.0058	.18764	.06059	.14851	.29509
#1	38.06	1.0401	26.412	.94876	1.0042
#2	38.06	1.0374	26.389	.94677	1.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.082**	**1.0335**	**.93143**	**1.510**	**1.0377**
Stddev	.025	.0005	.00093	.001	.0005
%RSD	.24767	.04949	.09959	.0675	.04856
#1	10.064	1.0331	.93078	1.511	1.0374
#2	10.100	1.0339	.93209	1.510	1.0381
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/16/2021 1:09:39 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99600**	**1.0060**	**1.0184**	**1.507**
Stddev	.00143	.0008	.0011	.002
%RSD	.14342	.08480	.11100	.1056
#1	.99701	1.0066	1.0192	1.506
#2	.99499	1.0054	1.0176	1.508
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2986.7**	**2958.4**	**25945.**	**3055.3**
Stddev	.4	.9	117.	9.4
%RSD	.01187	.03082	.45147	.30608
#1	2986.9	2959.0	25862.	3062.0
#2	2986.4	2957.7	26028.	3048.7

Sample Name: CCB-6810114 Acquired: 12/16/2021 1:13:11 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.01290**	**.00154**	**-.00062**	**-.00001**
Stddev	.00032	.00146	.00008	.00012	.00002
%RSD	63.833	11.319	5.1469	19.718	190.43
#1	-.00027	.01393	.00148	-.00054	.00000
#2	-.00072	.01187	.00159	-.00071	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.01067**	**.00002**	**-.0016**	**-.00021**
Stddev	.00005	.00078	.00005	.0543	.00012
%RSD	85.806	7.3223	288.99	3338.	55.496
#1	-.00002	.01012	.00006	.0368	-.00030
#2	-.00009	.01122	-.00002	-.0400	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00124**	**-.00006**	**.02394**	**.00277**
Stddev	.00054	.00049	.00212	.10320	.00075
%RSD	925.48	39.334	3445.0	431.11	26.993
#1	-.00033	.00159	.00144	.09691	.00224
#2	.00044	.00090	-.00156	-.04904	.00330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/16/2021 1:13:11 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00390**	**-.00005**	**.00058**	**.00309**	**.00021**
Stddev	.00557	.00001	.00019	.00228	.00033
%RSD	142.99	10.759	32.700	73.696	156.47
#1	-.00004	-.00005	.00045	.00148	-.00002
#2	.00784	-.00004	.00072	.00471	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00122**	**.01914**	**.00078**	**.00065**
Stddev	.00	.00055	.00247	.00091	.00223
%RSD	.0082	45.254	12.902	116.99	344.32
#1	25.01	.00083	.01739	.00143	.00222
#2	25.01	.00161	.02089	.00013	-.00093
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00609**	**-.00020**	**.00014**	**1.005**	**-.00007**
Stddev	.00845	.00001	.00003	.003	.00017
%RSD	138.84	2.7149	21.708	.2475	250.85
#1	.01207	-.00020	.00012	1.007	.00005
#2	.00011	-.00020	.00017	1.003	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/16/2021 1:13:11 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00094**	**-.00058**	**-.00014**	**.9998**
Stddev	.00014	.00017	.00018	.0004
%RSD	14.809	28.877	131.77	.0383
#1	.00084	-.00046	-.00001	.9995
#2	.00104	-.00070	-.00027	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3456.1**	**3051.3**	**27461.**	**3074.8**
Stddev	2.4	5.6	206.	10.6
%RSD	.06947	.18493	.74886	.34527
#1	3454.4	3047.3	27607.	3082.3
#2	3457.8	3055.3	27316.	3067.3

Sample Name: CCVL-6811103 Acquired: 12/16/2021 1:17:00 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00566**	**.22423**	**.01377**	**.01856**	**.00208**
Stddev	.00003	.02861	.00157	.00022	.00003
%RSD	.60911	12.759	11.424	1.2045	1.3540
#1	.00569	.20400	.01489	.01841	.00206
#2	.00564	.24446	.01266	.01872	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.50776**	**.00188**	**-.0037**	**.00366**
Stddev	.00002	.00381	.00000	.0191	.00008
%RSD	.94476	.75066	.15998	517.7	2.1708
#1	.00189	.50507	.00188	-.0172	.00360
#2	.00186	.51046	.00188	.0098	.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00367**	**.01204**	**.04915**	**.43974**	**.02987**
Stddev	.00017	.00024	.00222	.00244	.00269
%RSD	4.5055	1.9548	4.5154	.55537	9.0049
#1	.00378	.01187	.04759	.43801	.03177
#2	.00355	.01220	.05072	.44147	.02797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6811103 Acquired: 12/16/2021 1:17:00 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18033**	**.00285**	**.00948**	**.90562**	**.00942**
Stddev	.00285	.00011	.00029	.00614	.00006
%RSD	1.5830	3.7939	3.0260	.67847	.67270
#1	.17831	.00277	.00928	.90127	.00946
#2	.18235	.00293	.00968	.90996	.00937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00996**	**.20732**	**.01898**	**.02426**
Stddev	.00	.00073	.00053	.00307	.00191
%RSD	.0010	7.3176	.25443	16.178	7.8705
#1	25.00	.00945	.20769	.02115	.02561
#2	25.00	.01048	.20695	.01681	.02291
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48663**	**.00954**	**.00462**	F **.9989**	**.00485**
Stddev	.01258	.00021	.00006	.0056	.00002
%RSD	2.5843	2.1686	1.2190	.5617	.44025
#1	.47773	.00969	.00466	1.003	.00483
#2	.49552	.00939	.00458	.9950	.00486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6811103 Acquired: 12/16/2021 1:17:00 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01884**	**.00532**	**.00993**	F **.9987**
Stddev	.00002	.00022	.00039	.0005
%RSD	.09096	4.1111	3.8892	.0532
#1	.01885	.00516	.00966	.9983
#2	.01883	.00547	.01021	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3446.1**	**3057.1**	**27567.**	**3088.6**
Stddev	3.9	1.9	57.	1.6
%RSD	.11261	.06309	.20798	.05084
#1	3443.4	3055.8	27527.	3087.5
#2	3448.9	3058.5	27608.	3089.7

Sample Name: CCV-6817081 Acquired: 12/16/2021 1:20:49 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0565**	**50.429**	**.94068**	**1.0616**	**.94245**
Stddev	.0005	.006	.00489	.0006	.00152
%RSD	.04705	.01238	.52006	.06042	.16092
#1	1.0562	50.424	.94414	1.0611	.94137
#2	1.0569	50.433	.93722	1.0620	.94352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94222**	**50.316**	**.95512**	**.9940**	**1.0540**
Stddev	.00096	.042	.00169	.0016	.0017
%RSD	.10231	.08285	.17695	.1659	.16158
#1	.94154	50.287	.95631	.9928	1.0528
#2	.94290	50.345	.95392	.9952	1.0552
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97692**	**1.0560**	**50.443**	**49.226**	**.96328**
Stddev	.00253	.0006	.065	.142	.00117
%RSD	.25942	.05604	.12802	.28748	.12177
#1	.97513	1.0556	50.489	49.126	.96245
#2	.97871	1.0564	50.397	49.326	.96411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/16/2021 1:20:49 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.483**	**.95881**	**1.0350**	**46.574**	**.94844**
Stddev	.012	.00046	.0017	.033	.00202
%RSD	.02738	.04804	.16344	.07063	.21277
#1	45.474	.95849	1.0362	46.551	.94987
#2	45.492	.95914	1.0338	46.597	.94701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.01**	**1.0359**	**26.273**	**.94011**	**.99072**
Stddev	.01	.0000	.014	.00390	.00440
%RSD	.0157	.00381	.05404	.41461	.44415
#1	38.01	1.0359	26.263	.93736	.98761
#2	38.02	1.0359	26.283	.94287	.99383
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.041**	**1.0310**	**.92454**	**1.520**	**1.0347**
Stddev	.012	.0001	.00342	.004	.0013
%RSD	.11830	.01157	.36968	.2903	.12208
#1	10.050	1.0311	.92212	1.523	1.0338
#2	10.033	1.0309	.92695	1.517	1.0356
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/16/2021 1:20:49 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99017**	**1.0001**	**1.0118**	**1.508**
Stddev	.00062	.0006	.0027	.001
%RSD	.06309	.05481	.26454	.0441
#1	.99061	1.0004	1.0099	1.507
#2	.98973	.99966	1.0137	1.508
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2968.1**	**2935.6**	**25969.**	**3034.0**
Stddev	2.0	2.8	151.	4.9
%RSD	.06615	.09680	.58303	.16073
#1	2966.8	2933.6	26076.	3037.4
#2	2969.5	2937.6	25862.	3030.5

Sample Name: CCB-6810114 Acquired: 12/16/2021 1:24:21 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.00963**	**.00012**	**-.00112**	**-.00002**
Stddev	.00000	.04272	.00121	.00041	.00001
%RSD	.13579	443.81	991.37	36.701	26.876
#1	-.00101	.03983	.00098	-.00083	-.00002
#2	-.00101	-.02058	-.00073	-.00141	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00395**	**.00001**	**-.0464**	**-.00008**
Stddev	.00006	.00182	.00012	.0500	.00002
%RSD	207.71	46.035	1920.9	107.6	23.854
#1	-.00007	-.00524	.00009	-.0818	-.00006
#2	.00001	-.00267	-.00008	-.0111	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00254**	**.00068**	**-.00034**	**.00178**
Stddev	.00003	.00014	.00082	.00027	.00006
%RSD	44.449	5.5703	121.64	78.019	3.3755
#1	.00005	.00244	.00009	-.00015	.00182
#2	.00009	.00264	.00126	-.00053	.00174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/16/2021 1:24:21 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00166**	**-.00010**	**.00037**	**.00967**	**.00037**
Stddev	.00187	.00010	.00027	.00624	.00000
%RSD	112.31	99.462	72.114	64.496	.99874
#1	-.00298	-.00017	.00018	.00526	.00037
#2	-.00034	-.00003	.00056	.01409	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00165**	**.00931**	**-.00032**	**.00368**
Stddev	.00	.00028	.00170	.00034	.00387
%RSD	.0067	17.044	18.272	107.02	105.14
#1	25.01	.00145	.00811	-.00008	.00094
#2	25.01	.00185	.01051	-.00057	.00642
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00261**	**.00030**	**.00006**	**1.006**	**.00000**
Stddev	.01272	.00023	.00003	.012	.00040
%RSD	487.35	75.494	43.561	1.208	8417.3
#1	-.01160	.00047	.00004	1.014	.00028
#2	.00638	.00014	.00008	.9970	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6810114 Acquired: 12/16/2021 1:24:21 Type: QC
Method: ICAP2 New stds DEC2019(v783) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00024**	**.00009**	**.9995**
Stddev	.00067	.00025	.00015	.0007
%RSD	1114.0	103.01	155.27	.0705
#1	.00053	-.00007	.00020	1.000
#2	-.00041	-.00041	-.00001	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3432.4**	**3034.0**	**27673.**	**3098.0**
Stddev	4.7	.8	121.	6.7
%RSD	.13819	.02523	.43676	.21637
#1	3429.0	3034.6	27588.	3102.7
#2	3435.7	3033.5	27759.	3093.2

Report Generated By Teledyne Leeman QuickTrace

Analyst: BufHG5

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\L20211213B.wszf

Creation Date: 12/13/2021 4:47:43 PM

Comment:

Results

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Single: icv		UNK	12/13/21 04:49:21 pm	0.00	44347	1.74			1.0000	N/A
Replicates	44510.0	45094.2	44523.4	43262.2						
Calibration Blank		STD	12/13/21 04:50:52 pm	0.00	8	93.31	-9.11		1.0000	N/A
Replicates	-0.4	5.3	11.0	18.0						
Standard #1 (0.1 ug/L)		STD	12/13/21 04:52:11 pm	0.10	1612	1.59	5.29		1.0000	N/A
Replicates	1599.1	1650.2	1598.0	1599.5						
Standard #2 (0.5 ug/L)		STD	12/13/21 04:53:29 pm	0.50	7927	1.38	55.90		1.0000	N/A
Replicates	7948.5	8030.2	7954.7	7772.7						
Standard #3 (2.0 ug/L)		STD	12/13/21 04:54:48 pm	2.00	30213	1.19	146.19		1.0000	N/A
Replicates	30315.6	30532.1	30309.6	29694.6						
Standard #4 (10. ug/L)		STD	12/13/21 04:56:07 pm	10.00	144803	1.33	322.98		1.0000	N/A
Replicates	145602.8	146436.1	145133.1	142039.9						
Standard #5 (20. ug/L)		STD	12/13/21 04:57:26 pm	20.00	274954	1.02	-389.87		1.0000	N/A
Replicates	275795.7	277453.3	275651.8	270913.3						

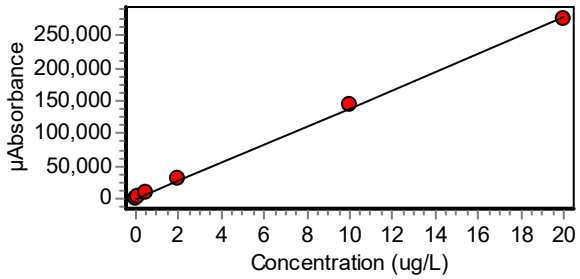
Calibration

Equation: Abs = 14014.055x + 136.138

R2: 0.99912

SEE: 3713.8890

Flags:



ICV		ICV	12/13/21 04:58:47 pm	3.14	44174	2.65			1.0000	104.75
Replicates	45160.7	44935.2	44011.7	42587.2						
ICB		ICB	12/13/21 05:00:05 pm	-0.01	-25	3.91			1.0000	N/A
Replicates	-27.0	-32.8	-21.1	-18.8						
ICVL		CRDL	12/13/21 05:01:25 pm	0.20	2957	0.92			1.0000	100.63
Replicates	2977.7	2978.5	2945.2	2925.5						
CCV		CCV	12/13/21 05:02:45 pm	2.07	29153	1.08			1.0000	103.53
Replicates	28977.8	29407.9	29426.9	28800.9						
CCB		CCB	12/13/21 05:04:03 pm	-0.01	1	27.00			1.0000	N/A
Replicates	47.6	11.1	-23.1	-33.1						
MB 480-608603/1-A		UNK	12/13/21 05:05:20 pm	-0.01	27	12.78			1.0000	N/A
Replicates	44.6	10.6	26.4	28.4						

Sample Name			Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
LCS 480-608603/2-A			UNK	12/13/21 05:06:37 pm	4.11	57667	1.56		1.0000	N/A
Replicates	58175.3	58401.5	57700.0	56391.0						
480-193155-A-1-A			UNK	12/13/21 05:07:55 pm	-0.01	-3	15.90		1.0000	N/A
Replicates	3.6	19.6	-33.2	-1.4						
480-193155-C-2-A			UNK	12/13/21 05:09:13 pm	-0.01	29	22.20		1.0000	N/A
Replicates	-2.0	26.2	40.9	52.9						
480-193300-A-1-C			UNK	12/13/21 05:10:31 pm	-0.01	42	22.66		1.0000	N/A
Replicates	38.6	17.6	69.3	43.6						
480-193300-A-2-C			UNK	12/13/21 05:11:49 pm	-0.01	35	9.96		1.0000	N/A
Replicates	40.3	42.4	20.2	36.4						
480-193300-A-3-C			UNK	12/13/21 05:13:07 pm	-0.01	65	9.41		1.0000	N/A
Replicates	57.4	73.7	63.4	63.7						
480-193300-A-4-C			UNK	12/13/21 05:14:25 pm	0.00	92	40.47		1.0000	N/A
Replicates	97.0	92.2	110.4	67.4						
480-193300-A-5-C			UNK	12/13/21 05:15:44 pm	-0.01	1	21.97		1.0000	N/A
Replicates	-33.3	27.6	-13.9	24.1						
480-193300-A-6-G			UNK	12/13/21 05:17:02 pm	0.00	111	35.92		1.0000	N/A
Replicates	119.7	116.6	99.9	106.6						
CCV			CCV	12/13/21 05:18:22 pm	2.06	29069	1.67		1.0000	103.23
Replicates	29301.4	29501.9	29080.9	28393.1						
CCB			CCB	12/13/21 05:19:40 pm	-0.01	-10	15.70		1.0000	N/A
Replicates	21.0	-25.2	-29.4	-6.7						
480-193300-A-6-Gsd@5			UNK	12/13/21 05:20:58 pm	-0.01	61	19.79		1.0000	N/A
Replicates	58.5	47.1	57.1	82.1						
480-193300-A-6-H MS			UNK	12/13/21 05:22:17 pm	4.01	56341	1.38		1.0000	N/A
Replicates	56464.8	57111.0	56529.3	55260.5						
480-193300-A-6-I MSD			UNK	12/13/21 05:23:35 pm	3.95	55543	1.41		1.0000	N/A
Replicates	55639.6	56273.9	55812.6	54445.6						
480-193300-A-7-C			UNK	12/13/21 05:24:52 pm	0.00	116	92.65		1.0000	N/A
Replicates	114.7	103.5	142.8	103.3						
480-193300-A-9-C			UNK	12/13/21 05:26:10 pm	0.00	68	15.93		1.0000	N/A
Replicates	79.7	68.5	53.2	69.2						
480-193300-A-10-C			UNK	12/13/21 05:27:27 pm	-0.01	59	21.96		1.0000	N/A
Replicates	78.9	67.1	43.1	46.8						
480-193300-A-11-C			UNK	12/13/21 05:28:45 pm	0.00	74	42.21		1.0000	N/A
Replicates	92.1	99.6	44.8	57.8						
480-193300-A-12-C			UNK	12/13/21 05:30:03 pm	-0.01	48	6.09		1.0000	N/A
Replicates	53.0	41.5	47.2	52.2						

Sample Name			Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-193300-A-13-C			UNK	12/13/21 05:31:21 pm	-0.01	53	11.68			1.0000	N/A
Replicates	43.9	66.7	49.7	52.7							
480-193300-A-19-C			UNK	12/13/21 05:32:40 pm	0.11	1631	1.16			1.0000	N/A
Replicates	1626.2	1656.4	1621.1	1619.4							
CCV			CCV	12/13/21 05:34:00 pm	2.03	28648	0.60			1.0000	101.72
Replicates	28643.1	28802.6	28735.6	28408.9							
CCB			CCB	12/13/21 05:35:17 pm	-0.01	-7	4.94			1.0000	N/A
Replicates	-7.8	-15.6	1.4	-4.9							
480-193300-A-20-C			UNK	12/13/21 05:36:36 pm	0.00	146	105.37			1.0000	N/A
Replicates	157.7	146.3	132.0	149.0							
480-193289-G-1-C			UNK	12/13/21 05:37:54 pm	-0.01	33	10.86			1.0000	N/A
Replicates	33.7	22.3	48.3	27.8							
480-193289-G-2-C			UNK	12/13/21 05:39:13 pm	-0.01	58	14.07			1.0000	N/A
Replicates	50.0	59.6	73.1	49.9							
480-193301-D-1-C			UNK	12/13/21 05:40:32 pm	0.00	103	46.71			1.0000	N/A
Replicates	122.6	101.3	84.3	102.3							
480-193301-D-2-C			UNK	12/13/21 05:41:49 pm	0.00	67	19.14			1.0000	N/A
Replicates	55.4	72.9	56.4	82.7							
MB 480-608604/1-A			UNK	12/13/21 05:43:07 pm	-0.01	18	9.31			1.0000	N/A
Replicates	16.4	8.9	14.2	34.2							
LCS 480-608604/2-A			UNK	12/13/21 05:44:25 pm	3.93	55246	1.60			1.0000	N/A
Replicates	55645.8	56015.6	55327.9	53995.9							
480-193301-D-3-C			UNK	12/13/21 05:45:43 pm	-0.01	46	25.49			1.0000	N/A
Replicates	32.0	24.8	49.8	76.5							
480-193301-D-4-C			UNK	12/13/21 05:47:00 pm	0.01	251	19.45			1.0000	N/A
Replicates	281.1	229.8	239.3	255.3							
480-193307-D-1-A			UNK	12/13/21 05:48:19 pm	0.00	79	14.86			1.0000	N/A
Replicates	73.0	84.8	88.1	71.1							
CCV			CCV	12/13/21 05:49:38 pm	2.06	29045	0.39			1.0000	103.14
Replicates	29024.5	29137.3	29125.0	28893.3							
CCB			CCB	12/13/21 05:50:56 pm	-0.01	9	30.06			1.0000	N/A
Replicates	57.7	-5.8	15.5	-33.3							
480-193307-D-2-A			UNK	12/13/21 05:52:14 pm	0.01	286	19.06			1.0000	N/A
Replicates	329.3	272.4	270.9	272.9							
480-193307-D-3-A			UNK	12/13/21 05:53:33 pm	0.00	73	25.69			1.0000	N/A
Replicates	88.9	84.3	59.3	57.8							
480-193307-D-4-A			UNK	12/13/21 05:54:51 pm	0.00	139	853.72			1.0000	N/A
Replicates	152.6	113.8	125.6	163.3							

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
480-193307-D-5-A		UNK	12/13/21 05:56:10 pm	0.00	169	27.44		1.0000	N/A
Replicates	160.3	175.2	162.4	178.4					
480-193310-C-8-A		UNK	12/13/21 05:57:28 pm	-0.01	35	14.29		1.0000	N/A
Replicates	44.8	24.6	50.1	21.1					
480-193316-C-5-A		UNK	12/13/21 05:58:47 pm	0.01	237	17.18		1.0000	N/A
Replicates	223.7	231.5	262.7	231.0					
480-193322-F-1-A		UNK	12/13/21 06:00:05 pm	0.00	72	7.83		1.0000	N/A
Replicates	75.0	70.9	75.7	64.7					
480-193322-F-3-A		UNK	12/13/21 06:01:23 pm	0.00	72	18.24		1.0000	N/A
Replicates	76.7	65.4	85.4	58.9					
480-193322-F-3-Asd@5		UNK	12/13/21 06:02:40 pm	-0.01	29	13.25		1.0000	N/A
Replicates	30.8	27.0	46.8	12.3					
480-193322-F-3-B MS		UNK	12/13/21 06:03:58 pm	4.08	57278	1.64		1.0000	N/A
Replicates	57705.2	58067.0	57407.8	55931.5					
CCV		CCV	12/13/21 06:05:18 pm	2.05	28929	1.48		1.0000	102.73
Replicates	29102.6	29307.3	28982.3	28323.3					
CCB		CCB	12/13/21 06:06:35 pm	-0.01	-2	8.48		1.0000	N/A
Replicates	11.6	-1.0	-17.0	-2.0					
480-193322-F-3-C MSD		UNK	12/13/21 06:07:53 pm	4.11	57684	1.58		1.0000	N/A
Replicates	58049.8	58504.2	57784.4	56399.4					
480-193322-F-4-A		UNK	12/13/21 06:09:11 pm	0.00	109	13.99		1.0000	N/A
Replicates	114.8	107.9	106.4	107.9					
480-193322-F-5-A		UNK	12/13/21 06:10:29 pm	-0.01	57	17.96		1.0000	N/A
Replicates	67.8	36.6	65.1	59.1					
480-193333-E-2-A		UNK	12/13/21 06:11:48 pm	-0.01	57	28.16		1.0000	N/A
Replicates	50.5	59.5	31.0	85.0					
480-193334-E-1-A		UNK	12/13/21 06:13:06 pm	0.02	439	2.18		1.0000	N/A
Replicates	437.8	447.5	431.5	438.2					
480-193335-D-1-A		UNK	12/13/21 06:14:25 pm	-0.01	15	19.71		1.0000	N/A
Replicates	36.3	31.5	9.7	-15.8					
480-193335-D-2-A		UNK	12/13/21 06:15:44 pm	-0.01	61	59.14		1.0000	N/A
Replicates	123.7	19.3	53.1	49.8					
480-193335-D-3-A		UNK	12/13/21 06:17:02 pm	-0.01	44	16.81		1.0000	N/A
Replicates	62.8	25.4	47.1	42.1					
480-193335-D-4-A		UNK	12/13/21 06:18:20 pm	-0.01	46	34.73		1.0000	N/A
Replicates	70.7	62.0	1.0	51.5					
480-193335-D-5-A		UNK	12/13/21 06:19:38 pm	-0.01	46	20.09		1.0000	N/A
Replicates	59.0	22.1	42.8	61.1					

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
CCV				CCV	12/13/21 06:20:58 pm	2.14	30110	1.94			1.0000	106.94
	Replicates	30408.0	30615.9	30126.1	29291.4							
CCB				CCB	12/13/21 06:22:16 pm	-0.01	-3	7.76			1.0000	N/A
	Replicates	12.1	-2.0	-13.3	-6.8							
CCVL				CRDL	12/13/21 06:23:36 pm	0.20	2955	1.55			1.0000	100.56
	Replicates	2959.4	2977.5	2989.5	2891.8							
MB 480-608605/1-A				UNK	12/13/21 06:24:54 pm	-0.01	33	10.35			1.0000	N/A
	Replicates	40.9	22.4	43.9	26.1							
LCS 480-608605/2-A				UNK	12/13/21 06:26:12 pm	4.10	57637	1.65			1.0000	N/A
	Replicates	58096.0	58445.6	57723.4	56282.1							
480-193335-D-6-A				UNK	12/13/21 06:27:30 pm	0.00	68	38.03			1.0000	N/A
	Replicates	69.2	97.3	34.3	71.6							
480-193335-D-6-Asd@5				UNK	12/13/21 06:28:48 pm	-0.01	43	28.77			1.0000	N/A
	Replicates	46.1	58.2	64.2	4.9							
480-193335-D-6-B MS				UNK	12/13/21 06:30:06 pm	4.14	58132	1.52			1.0000	N/A
	Replicates	58444.3	58923.4	58290.9	56870.2							
480-193335-D-6-C MSD				UNK	12/13/21 06:31:24 pm	4.12	57898	1.59			1.0000	N/A
	Replicates	58299.7	58681.5	58030.0	56581.8							
480-193336-F-1-A				UNK	12/13/21 06:32:43 pm	-0.01	20	14.52			1.0000	N/A
	Replicates	38.8	-2.0	21.0	23.3							
480-193336-F-2-A				UNK	12/13/21 06:34:01 pm	0.00	80	7.64			1.0000	N/A
	Replicates	76.7	78.9	78.7	86.4							
480-193336-F-3-A				UNK	12/13/21 06:35:20 pm	-0.01	49	12.22			1.0000	N/A
	Replicates	34.9	47.3	53.3	60.0							
480-193337-D-1-A				UNK	12/13/21 06:36:39 pm	-0.01	48	20.55			1.0000	N/A
	Replicates	62.2	55.5	52.7	21.5							
CCV				CCV	12/13/21 06:37:59 pm	2.07	29094	1.33			1.0000	103.32
	Replicates	29182.2	29457.5	29188.2	28549.2							
CCB				CCB	12/13/21 06:39:16 pm	-0.01	-8	4.74			1.0000	N/A
	Replicates	-6.7	-16.7	-0.2	-9.7							
480-193337-D-2-A				UNK	12/13/21 06:40:35 pm	0.00	82	55.07			1.0000	N/A
	Replicates	57.0	120.9	90.1	61.1							
MB 480-608575/1-D				UNK	12/13/21 06:41:53 pm	-0.01	48	29.94			1.0000	N/A
	Replicates	71.9	64.3	44.3	13.0							
LCS 480-608575/2-D				UNK	12/13/21 06:43:11 pm	3.97	55792	1.59			1.0000	N/A
	Replicates	56135.8	56583.9	55912.9	54536.2							
480-193099-C-2-C				UNK	12/13/21 06:44:29 pm	-0.01	25	22.01			1.0000	N/A
	Replicates	36.4	53.8	1.5	8.0							

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-193099-C-3-C		UNK	12/13/21 06:45:48 pm	-0.01	3	18.65			1.0000	N/A
Replicates	-25.2	15.8	30.3	-9.2						
480-193099-C-4-E		UNK	12/13/21 06:47:06 pm	-0.01	40	9.12			1.0000	N/A
Replicates	29.6	39.5	40.8	51.0						
480-193099-C-4-Esd@5		UNK	12/13/21 06:48:24 pm	-0.01	34	33.25			1.0000	N/A
Replicates	11.0	3.3	45.8	76.8						
480-193099-C-4-F MS		UNK	12/13/21 06:49:42 pm	3.90	54736	1.43			1.0000	N/A
Replicates	55103.8	55435.4	54765.9	53638.1						
480-193099-C-4-G MSD		UNK	12/13/21 06:51:01 pm	3.87	54392	1.46			1.0000	N/A
Replicates	54750.2	55098.9	54448.1	53269.1						
480-193099-C-5-C		UNK	12/13/21 06:52:19 pm	-0.01	19	11.96			1.0000	N/A
Replicates	4.1	24.8	12.8	36.0						
CCV		CCV	12/13/21 06:53:39 pm	2.07	29093	1.49			1.0000	103.31
Replicates	29249.5	29476.7	29172.9	28473.7						
CCB		CCB	12/13/21 06:54:57 pm	-0.01	20	13.47			1.0000	N/A
Replicates	33.7	32.6	6.8	5.1						
480-193099-C-6-C		UNK	12/13/21 06:56:16 pm	-0.01	49	15.45			1.0000	N/A
Replicates	58.3	45.1	60.8	31.6						
480-193099-C-7-C		UNK	12/13/21 06:57:35 pm	-0.01	4	8.92			1.0000	N/A
Replicates	-3.2	7.6	-7.2	19.1						
480-193099-C-8-C		UNK	12/13/21 06:58:53 pm	-0.01	55	30.28			1.0000	N/A
Replicates	49.9	70.6	22.4	76.9						
480-193099-C-9-C		UNK	12/13/21 07:00:11 pm	-0.01	30	12.54			1.0000	N/A
Replicates	14.2	32.1	46.3	26.3						
CCV		CCV	12/13/21 07:01:31 pm	2.05	28925	1.36			1.0000	102.72
Replicates	29056.3	29308.3	28953.3	28384.0						
CCB		CCB	12/13/21 07:02:49 pm	-0.01	32	20.08			1.0000	N/A
Replicates	44.4	21.1	53.4	7.6						
CCVL		CRDL	12/13/21 07:04:09 pm	0.20	2930	1.32			1.0000	99.70
Replicates	2947.9	2973.4	2908.4	2892.1						

Report Generated By Teledyne Leeman QuickTrace

Analyst: BufHG5

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\L20211215A.wszf

Creation Date: 12/15/2021 1:02:10 PM

Comment:

Results

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Single: icv					UNK	12/15/21 03:17:30 pm	0.00	42905	1.34			1.0000	N/A
	Replicates	43253.2	43361.3	42911.1	42094.3								
Calibration Blank					STD	12/15/21 03:19:31 pm	0.00	47	86.49	-11.40		1.0000	N/A
	Replicates	101.3	3.7	36.2	46.5								
Standard #1 (0.1 ug/L)					STD	12/15/21 03:20:49 pm	0.10	1594	0.67	-4.11		1.0000	N/A
	Replicates	1606.1	1598.4	1592.6	1580.6								
Standard #2 (0.5 ug/L)					STD	12/15/21 03:22:08 pm	0.50	7962	1.63	37.39		1.0000	N/A
	Replicates	8057.2	8044.1	7972.6	7775.9								
Standard #3 (2.0 ug/L)					STD	12/15/21 03:23:26 pm	2.00	30860	1.32	124.91		1.0000	N/A
	Replicates	30975.2	31224.7	30965.7	30275.7								
Standard #4 (10. ug/L)					STD	12/15/21 03:24:46 pm	10.00	150070	1.24	389.74		1.0000	N/A
	Replicates	150581.5	151782.0	150496.0	147419.2								
Standard #5 (20. ug/L)					STD	12/15/21 03:26:05 pm	20.00	281220	1.31	-517.57		1.0000	N/A
	Replicates	283493.6	284044.5	281364.8	275976.3								

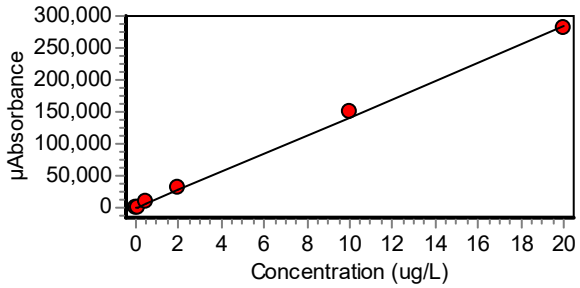
Calibration

Equation: Abs = 14423.689x + 211.288

R2: 0.99861

SEE: 4767.0640

Flags:



ICV					ICV	12/15/21 03:27:30 pm	2.98	43221	1.34			1.0000	99.40
	Replicates	43446.7	43757.1	43264.6	42413.9								
ICB					ICB	12/15/21 03:28:48 pm	-0.02	-13	8.18			1.0000	N/A
	Replicates	-7.8	1.6	-40.1	-6.9								
ICVL					CRDL	12/15/21 03:30:08 pm	0.19	2960	1.30			1.0000	95.29
	Replicates	2949.5	2997.8	2978.3	2915.6								
CCV					CCV	12/15/21 03:31:28 pm	1.98	28830	1.23			1.0000	99.21
	Replicates	28905.4	29155.9	28926.9	28332.2								
CCB					CCB	12/15/21 03:32:45 pm	-0.01	28	12.21			1.0000	N/A
	Replicates	44.4	38.2	33.2	-5.3								
MB 480-608975/1-A					UNK	12/15/21 03:34:03 pm	-0.01	40	16.87			1.0000	N/A
	Replicates	52.5	74.4	20.9	11.6								

Sample Name			Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
LCS 480-608975/2-A			UNK	12/15/21 03:35:20 pm	4.01	58045	1.47			1.0000	N/A
Replicates	58308.7	58836.0	58192.8	56841.0							
480-193300-B-13-C			UNK	12/15/21 03:36:38 pm	-0.01	10	8.71			1.0000	N/A
Replicates	5.7	24.9	-13.6	21.4							
480-193300-B-19-C			UNK	12/15/21 03:37:56 pm	-0.01	48	6.78			1.0000	N/A
Replicates	32.8	52.7	58.7	46.4							
480-193310-C-1-C			UNK	12/15/21 03:39:13 pm	-0.01	48	8.73			1.0000	N/A
Replicates	28.6	60.8	47.8	56.1							
480-193310-C-2-C			UNK	12/15/21 03:40:31 pm	-0.01	59	6.21			1.0000	N/A
Replicates	48.4	71.1	59.4	55.9							
480-193310-C-3-C			UNK	12/15/21 03:41:50 pm	-0.01	42	7.95			1.0000	N/A
Replicates	33.4	46.0	59.7	30.2							
480-193310-C-4-C			UNK	12/15/21 03:43:08 pm	-0.01	47	6.99			1.0000	N/A
Replicates	59.3	36.5	38.5	54.7							
480-193310-C-5-C			UNK	12/15/21 03:44:26 pm	-0.01	17	10.17			1.0000	N/A
Replicates	10.0	2.6	46.1	8.6							
480-193310-C-6-C			UNK	12/15/21 03:45:45 pm	-0.01	66	4.64			1.0000	N/A
Replicates	72.2	70.2	57.2	64.2							
CCV			CCV	12/15/21 03:47:05 pm	1.96	28540	1.30			1.0000	98.20
Replicates	28616.6	28887.9	28636.4	28017.9							
CCB			CCB	12/15/21 03:48:22 pm	-0.01	3	7.50			1.0000	N/A
Replicates	0.2	-18.0	10.3	18.3							
480-193310-C-7-C			UNK	12/15/21 03:49:41 pm	-0.01	14	3.21			1.0000	N/A
Replicates	15.9	15.1	18.9	4.4							
480-193042-E-7-D			UNK	12/15/21 03:51:00 pm	-0.01	18	9.57			1.0000	N/A
Replicates	16.5	-1.7	42.8	13.1							
480-193042-E-7-Dsd@5			UNK	12/15/21 03:52:17 pm	-0.01	61	12.47			1.0000	N/A
Replicates	45.5	44.0	82.0	70.5							
480-193042-E-7-E MS			UNK	12/15/21 03:53:35 pm	3.98	57642	1.58			1.0000	N/A
Replicates	57985.2	58448.6	57791.8	56344.1							
480-193042-E-7-F MSD			UNK	12/15/21 03:54:52 pm	3.97	57424	1.61			1.0000	N/A
Replicates	57791.8	58258.0	57530.0	56118.0							
480-193322-F-2-B			UNK	12/15/21 03:56:10 pm	-0.01	-2	8.24			1.0000	N/A
Replicates	-23.0	0.8	-6.0	19.5							
480-193238-D-1-C			UNK	12/15/21 03:57:28 pm	-0.01	118	16.33			1.0000	N/A
Replicates	120.1	135.7	98.7	118.9							
480-193241-C-1-E			UNK	12/15/21 03:58:46 pm	-0.01	29	3.77			1.0000	N/A
Replicates	19.8	30.2	27.9	36.4							

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-193335-A-7-B					UNK	12/15/21 04:00:04 pm	-0.01	47	8.08			1.0000	N/A
Replicates	57.3	60.4	35.6	36.4									
480-193336-F-5-B					UNK	12/15/21 04:01:23 pm	0.04	815	4.04			1.0000	N/A
Replicates	818.6	845.6	808.6	786.9									
CCV					CCV	12/15/21 04:02:42 pm	2.00	29039	1.22			1.0000	99.93
Replicates	29074.7	29391.6	29136.9	28552.9									
CCB					CCB	12/15/21 04:04:00 pm	-0.01	9	5.13			1.0000	N/A
Replicates	9.0	19.8	-4.8	13.3									
480-193336-F-6-B					UNK	12/15/21 04:05:19 pm	-0.01	47	17.03			1.0000	N/A
Replicates	50.6	68.5	6.0	61.2									
480-193336-F-7-B					UNK	12/15/21 04:06:37 pm	-0.01	12	4.94			1.0000	N/A
Replicates	24.8	5.1	15.1	3.6									
MB 480-608976/1-A					UNK	12/15/21 04:07:56 pm	-0.01	41	3.97			1.0000	N/A
Replicates	50.8	36.1	37.3	38.8									
LCS 480-608976/2-A					UNK	12/15/21 04:09:15 pm	3.89	56326	1.41			1.0000	N/A
Replicates	56597.2	57048.7	56454.4	55201.9									
LCSD 480-608976/3-A					UNK	12/15/21 04:10:33 pm	3.95	57220	1.63			1.0000	N/A
Replicates	57570.9	58024.6	57397.6	55887.9									
480-193367-D-1-C					UNK	12/15/21 04:11:50 pm	-0.01	46	6.89			1.0000	N/A
Replicates	54.2	30.7	44.9	55.2									
480-193367-D-2-C					UNK	12/15/21 04:13:08 pm	-0.01	83	13.28			1.0000	N/A
Replicates	93.7	83.8	94.8	58.0									
480-193367-D-3-C					UNK	12/15/21 04:14:26 pm	0.29	4399	1.51			1.0000	N/A
Replicates	4396.4	4446.9	4442.1	4310.4									
480-193367-D-4-E					UNK	12/15/21 04:15:44 pm	0.00	150	45.50			1.0000	N/A
Replicates	184.6	147.0	116.2	151.2									
480-193367-D-5-C					UNK	12/15/21 04:17:02 pm	-0.01	137	29.36			1.0000	N/A
Replicates	143.9	141.2	157.0	106.0									
CCV					CCV	12/15/21 04:18:21 pm	1.99	28853	1.20			1.0000	99.29
Replicates	28919.3	29155.1	28978.4	28359.1									
CCB					CCB	12/15/21 04:19:39 pm	-0.01	1	3.55			1.0000	N/A
Replicates	6.9	0.6	5.3	-9.7									
480-193369-D-1-B					UNK	12/15/21 04:20:57 pm	-0.01	24	8.27			1.0000	N/A
Replicates	23.4	40.8	28.3	3.6									
480-193369-D-1-Bsd@5					UNK	12/15/21 04:22:16 pm	-0.01	60	10.27			1.0000	N/A
Replicates	55.4	81.3	44.3	60.5									
480-193369-D-1-C MS					UNK	12/15/21 04:23:34 pm	3.97	57489	1.35			1.0000	N/A
Replicates	57646.7	58219.7	57694.7	56396.7									

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-193369-D-1-D MSD		UNK	12/15/21 04:24:53 pm	4.01	57988	1.37			1.0000	N/A
Replicates	58182.2	58715.5	58188.5	56864.0						
480-193369-D-2-B		UNK	12/15/21 04:26:11 pm	-0.01	8	15.69			1.0000	N/A
Replicates	30.5	-39.0	16.0	24.5						
480-193369-D-3-B		UNK	12/15/21 04:27:30 pm	-0.01	53	11.72			1.0000	N/A
Replicates	52.1	28.3	73.3	56.8						
480-193369-D-4-B		UNK	12/15/21 04:28:48 pm	-0.01	20	14.95			1.0000	N/A
Replicates	32.5	52.8	4.3	-11.4						
480-193369-D-5-B		UNK	12/15/21 04:30:06 pm	-0.01	24	10.04			1.0000	N/A
Replicates	30.4	48.2	9.7	9.0						
480-193384-D-1-C		UNK	12/15/21 04:31:23 pm	-0.01	45	10.42			1.0000	N/A
Replicates	54.7	61.5	40.5	22.2						
480-193384-C-2-C		UNK	12/15/21 04:32:41 pm	-0.01	58	13.07			1.0000	N/A
Replicates	83.4	44.3	64.1	39.6						
CCV		CCV	12/15/21 04:34:01 pm	2.01	29248	2.35			1.0000	100.66
Replicates	29780.0	29752.9	29127.4	28332.2						
CCB		CCB	12/15/21 04:35:18 pm	-0.01	19	2.05			1.0000	N/A
Replicates	14.0	19.7	23.2	21.2						
480-193384-D-3-C		UNK	12/15/21 04:36:36 pm	0.00	184	47.95			1.0000	N/A
Replicates	168.2	178.2	193.7	195.7						
480-193385-G-1-C		UNK	12/15/21 04:37:54 pm	-0.01	44	7.83			1.0000	N/A
Replicates	44.4	28.3	60.3	41.8						
MB 480-608766/1-C		UNK	12/15/21 04:39:13 pm	-0.01	33	6.92			1.0000	N/A
Replicates	42.1	21.8	45.8	23.8						
LCS 480-608766/2-C		UNK	12/15/21 04:40:31 pm	3.96	57278	1.48			1.0000	N/A
Replicates	57505.5	58063.3	57464.8	56077.3						
480-193322-E-1-C		UNK	12/15/21 04:41:49 pm	-0.01	7	13.02			1.0000	N/A
Replicates	40.0	-16.9	17.6	-11.6						
480-193322-E-2-C		UNK	12/15/21 04:43:08 pm	-0.01	36	6.77			1.0000	N/A
Replicates	18.6	41.1	38.4	45.4						
480-193322-E-3-C		UNK	12/15/21 04:44:27 pm	-0.01	16	4.65			1.0000	N/A
Replicates	16.6	4.1	25.6	19.6						
480-193322-E-4-C		UNK	12/15/21 04:45:46 pm	-0.01	28	8.63			1.0000	N/A
Replicates	35.2	44.6	7.9	23.9						
480-193322-E-5-C		UNK	12/15/21 04:47:03 pm	-0.01	41	8.43			1.0000	N/A
Replicates	31.9	59.9	27.9	43.9						
480-193322-A-6-C		UNK	12/15/21 04:48:21 pm	-0.01	51	5.36			1.0000	N/A
Replicates	51.1	44.9	63.6	46.1						

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
CCV				CCV	12/15/21 04:49:41 pm	1.98	28743	1.77			1.0000	98.91
	Replicates	28878.8	29171.4	28909.4	28013.9							
CCB				CCB	12/15/21 04:50:59 pm	-0.01	-4	2.40			1.0000	N/A
	Replicates	0.0	-4.0	-11.7	-1.7							
CCVL				CRDL	12/15/21 04:52:19 pm	0.19	2963	3.42			1.0000	95.38
	Replicates	3084.7	2974.5	2932.2	2859.5							
480-193206-R-2-C				UNK	12/15/21 04:53:37 pm	-0.01	24	5.28			1.0000	N/A
	Replicates	14.3	23.8	19.0	37.3							
480-193206-R-2-Csd@5				UNK	12/15/21 04:54:55 pm	-0.01	44	18.34			1.0000	N/A
	Replicates	65.6	17.9	75.9	18.6							
480-193206-R-2-D MS				UNK	12/15/21 04:56:13 pm	3.85	55683	1.51			1.0000	N/A
	Replicates	55906.8	56464.5	55867.0	54492.8							
480-193206-R-2-E MSD				UNK	12/15/21 04:57:31 pm	3.84	55561	1.51			1.0000	N/A
	Replicates	55853.8	56314.0	55706.3	54368.8							
480-193206-R-6-E				UNK	12/15/21 04:58:49 pm	-0.01	8	13.04			1.0000	N/A
	Replicates	21.6	29.2	11.0	-30.3							
480-193206-R-9-C				UNK	12/15/21 05:00:07 pm	-0.01	28	5.38			1.0000	N/A
	Replicates	24.3	17.5	27.8	41.0							
480-193206-R-11-C				UNK	12/15/21 05:01:26 pm	-0.01	13	11.89			1.0000	N/A
	Replicates	-0.8	7.1	-1.4	48.1							
480-193337-E-2-C				UNK	12/15/21 05:02:44 pm	-0.01	20	5.88			1.0000	N/A
	Replicates	18.2	34.9	18.2	7.7							
480-193337-E-1-C				UNK	12/15/21 05:04:03 pm	-0.01	34	2.80			1.0000	N/A
	Replicates	35.0	27.2	33.4	39.2							
LB 480-608769/1-C				UNK	12/15/21 05:05:22 pm	-0.01	90	9.20			1.0000	N/A
	Replicates	83.7	106.8	85.8	84.3							
CCV				CCV	12/15/21 05:06:42 pm	1.97	28666	1.58			1.0000	98.64
	Replicates	28769.6	29050.5	28829.5	28016.0							
CCB				CCB	12/15/21 05:08:00 pm	-0.01	29	10.10			1.0000	N/A
	Replicates	36.9	22.8	6.5	49.3							
MB 480-608978/2-A				UNK	12/15/21 05:09:18 pm	-0.01	13	7.23			1.0000	N/A
	Replicates	9.9	8.9	-0.6	33.2							
LCS 480-608978/3-A				UNK	12/15/21 05:10:36 pm	3.74	54203	1.63			1.0000	N/A
	Replicates	54495.3	54993.5	54376.0	52948.7							
480-193346-A-1-D				UNK	12/15/21 05:11:54 pm	-0.01	13	4.36			1.0000	N/A
	Replicates	16.3	12.2	0.7	21.0							
240-161159-H-1-F				UNK	12/15/21 05:13:12 pm	-0.01	109	14.45			1.0000	N/A
	Replicates	90.3	124.9	115.1	104.4							

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
240-161159-H-1-Fsd@5					UNK	12/15/21 05:14:31 pm	-0.01	67	12.02			1.0000	N/A
	Replicates	48.2	90.1	65.6	62.9								
240-161159-H-1-G MS					UNK	12/15/21 05:15:49 pm	3.06	44371	1.43			1.0000	N/A
	Replicates	44502.1	44949.7	44558.9	43471.4								
240-161159-H-1-H MSD					UNK	12/15/21 05:17:07 pm	3.00	43508	1.60			1.0000	N/A
	Replicates	43710.4	44142.2	43661.7	42519.5								
240-161140-H-1-C					UNK	12/15/21 05:18:25 pm	0.01	308	16.83			1.0000	N/A
	Replicates	319.8	300.9	322.4	288.1								
240-161144-C-1-F					UNK	12/15/21 05:19:44 pm	-0.01	108	12.74			1.0000	N/A
	Replicates	112.7	101.3	124.0	94.0								
480-193343-A-1-C					UNK	12/15/21 05:21:02 pm	0.75	11051	1.54			1.0000	N/A
	Replicates	11100.1	11202.1	11087.6	10813.4								
CCV					CCV	12/15/21 05:22:22 pm	1.98	28699	1.36			1.0000	98.75
	Replicates	28853.0	29037.3	28761.3	28145.1								
CCB					CCB	12/15/21 05:23:40 pm	-0.01	8	8.23			1.0000	N/A
	Replicates	29.1	-11.7	6.5	8.8								
480-193343-A-2-C					UNK	12/15/21 05:24:59 pm	0.14	2274	1.08			1.0000	N/A
	Replicates	2293.6	2282.1	2278.6	2242.1								
480-193343-A-3-C					UNK	12/15/21 05:26:18 pm	O/R	443415	1.11		O	1.0000	N/A
	Replicates	444997.1	447889.8	444345.8	436427.3								
480-193343-A-4-C					UNK	12/15/21 05:28:48 pm	0.80	11805	1.39			1.0000	N/A
	Replicates	11871.4	11949.2	11824.7	11575.2								
480-193343-A-5-C					UNK	12/15/21 05:30:06 pm	0.32	4842	1.07			1.0000	N/A
	Replicates	4850.1	4879.2	4870.0	4770.7								
480-193329-A-1-E					UNK	12/15/21 05:31:24 pm	-0.01	115	13.85			1.0000	N/A
	Replicates	118.3	105.2	105.0	133.0								
480-193329-A-2-E					UNK	12/15/21 05:32:43 pm	-0.01	58	16.07			1.0000	N/A
	Replicates	61.0	86.6	59.1	26.6								
480-193343-A-6-C					UNK	12/15/21 05:34:01 pm	0.00	205	219.45			1.0000	N/A
	Replicates	221.6	196.2	189.7	211.2								
480-193343-A-3-C@5					UNK	12/15/21 05:35:19 pm	7.24	104632	1.04			1.0000	N/A
	Replicates	104275.7	105773.5	105182.3	103295.0								
CCV					CCV	12/15/21 05:36:39 pm	1.97	28558	1.43			1.0000	98.26
	Replicates	28682.8	28923.8	28643.0	27981.0								
CCB					CCB	12/15/21 05:37:57 pm	-0.01	5	5.21			1.0000	N/A
	Replicates	19.6	-2.8	7.3	-3.3								
CCVL					CRDL	12/15/21 05:39:17 pm	0.18	2863	1.32			1.0000	91.93
	Replicates	2884.5	2897.7	2850.4	2820.2								

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608733 Batch Start Date: 12/15/21 08:44 Batch Analyst: Stone, Natalie B

Batch Method: 3005A Batch End Date: 12/15/21 12:16

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00159	MED_01_W1 00069	MED_02_W2 00067	MED_03_Ag 00174
MB 480-608733/1		3005A, 6010C		50 mL	50 mL				
LCS 480-608733/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-193337-D-1	CD-1	3005A, 6010C	T	50 mL	50 mL				
480-193337-D-2	CD-1RA	3005A, 6010C	T	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00162	MED_05_S 00119				
MB 480-608733/1		3005A, 6010C							
LCS 480-608733/2		3005A, 6010C		0.25 mL	0.25 mL				
480-193337-D-1	CD-1	3005A, 6010C	T						
480-193337-D-2	CD-1RA	3005A, 6010C	T						

Batch Notes	
pH Indicator ID	HC911298
Digestion Tube/Cup ID	2106023
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	AM
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	6795030
Nitric Acid ID	6814356
Digestion Unit ID	H
Thermometer ID	210702965
Thermometer Location ID	A5
Temperature - Uncorrected - Start	94.9 Degrees C
Temperature - Corrected - Start	94.9 Degrees C
Digestion Start Time	12/15/2021 08:44
Digestion End Time	12/15/2021 12:16
Temperature - Uncorrected - End	93.9 Degrees C
Temperature - Corrected - End	93.9 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608733 Batch Start Date: 12/15/21 08:44 Batch Analyst: Stone, Natalie B

Batch Method: 3005A Batch End Date: 12/15/21 12:16

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608771 Batch Start Date: 12/15/21 08:40 Batch Analyst: Stone, Natalie B

Batch Method: 3005A Batch End Date: 12/15/21 12:26

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00159	MED_01_W1 00069	MED_02_W2 00067	MED_03_Ag 00174
MB 480-608766/1-A		3005A, 6010C		50 mL	50 mL				
LCS 480-608766/2-A		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-193337-E-2-A	CD-1RA	3005A, 6010C	D	50 mL	50 mL				
480-193337-E-1-A	CD-1	3005A, 6010C	D	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00162	MED_05_S 00119				
MB 480-608766/1-A		3005A, 6010C							
LCS 480-608766/2-A		3005A, 6010C		0.25 mL	0.25 mL				
480-193337-E-2-A	CD-1RA	3005A, 6010C	D						
480-193337-E-1-A	CD-1	3005A, 6010C	D						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608771 Batch Start Date: 12/15/21 08:40 Batch Analyst: Stone, Natalie B

Batch Method: 3005A Batch End Date: 12/15/21 12:26

Batch Notes	
pH Indicator ID	HC911298
Digestion Tube/Cup ID	2106023
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	AM
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	6795030
Nitric Acid ID	6814356
Digestion Unit ID	D
Thermometer ID	210702965
Thermometer Location ID	A5
Temperature - Uncorrected - Start	96.5 Degrees C
Temperature - Corrected - Start	96.5 Degrees C
Digestion Start Time	12/15/2021 08:40
Digestion End Time	12/15/2021 12:26
Temperature - Uncorrected - End	93.4 Degrees C
Temperature - Corrected - End	93.4 Degrees C

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608605 Batch Start Date: 12/13/21 13:55 Batch Analyst: Booth, Bryan M

Batch Method: 7470A Batch End Date: 12/13/21 15:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 02635			
MB 480-608605/1		7470A, 7470A		30 mL	50 mL				
LCS 480-608605/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-193337-D-1	CD-1	7470A, 7470A	T	30 mL	50 mL				
480-193337-D-2	CD-1RA	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Digestion Tube/Cup ID	2008043
Pipette/Syringe/Dispenser ID	Hg 8
Analyst ID - Spike Analyst	BB
Nitric Acid ID	6763740
Sulfuric Acid ID	6759394
Potassium Permanganate ID	6773789
Potassium Persulfate ID	6774849
Digestion Unit ID	HG-B
Thermometer ID	170435802
Temperature - Uncorrected - Start	93.4 Degrees C
Temperature - Corrected - Start	94.4 Degrees C
Digestion Start Time	1355
Digestion End Time	1555
Temperature - Uncorrected - End	93.1 Degrees C
Temperature - Corrected - End	94.1 Degrees C
Hydroxylamine ID	6770557
Batch Comment	1 & 2 Prep 1331

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608977 Batch Start Date: 12/15/21 12:48 Batch Analyst: Booth, Bryan M

Batch Method: 7470A Batch End Date: 12/15/21 14:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG1_WKG 02731			
MB 480-608766/1-A		7470A, 7470A		30 mL	50 mL				
LCS 480-608766/2-A		7470A, 7470A		30 mL	50 mL	2 mL			
480-193337-E-2-A	CD-1RA	7470A, 7470A	D	30 mL	50 mL				
480-193337-E-1-A	CD-1	7470A, 7470A	D	30 mL	50 mL				

Batch Notes	
Digestion Tube/Cup ID	2008043
Pipette/Syringe/Dispenser ID	Hg 8
Analyst ID - Spike Analyst	BB
Nitric Acid ID	6763740
Sulfuric Acid ID	6759394
Potassium Permanganate ID	6773789
Potassium Persulfate ID	6774849
Digestion Unit ID	HG-B
Thermometer ID	170435802
Temperature - Uncorrected - Start	93.0 Degrees C
Temperature - Corrected - Start	94.0 Degrees C
Digestion Start Time	1248
Digestion End Time	1448
Temperature - Uncorrected - End	92.8 Degrees C
Temperature - Corrected - End	93.8 Degrees C
Hydroxylamine ID	6770557
Batch Comment	1 & 2 Prep 1220

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG No.: 193337

Project: Towslee Landfill - Baseline

Client Sample ID	Lab Sample ID
CD-1	480-193337-1
CD-1RA	480-193337-2

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1 | Lab Sample ID: 480-193337-1

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-193337-1

SDG ID.: 193337

Matrix: Water | Date Sampled: 12/09/2021 11:45

Reporting Basis: WET | Date Received: 12/11/2021 11:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	138	20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.022	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.45	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L		H	1	353.2
14808-79-8	Sulfate	17.3	5.0		mg/L			1	9038
	Total Dissolved Solids	206	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	2.0	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		H	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1 | Lab Sample ID: 480-193337-1

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-193337-1

SDG ID.: 193337

Matrix: Water | Date Sampled: 12/09/2021 11:45

Reporting Basis: WET | Date Received: 12/11/2021 11:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	5.00	5.00		Color Units		H	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1RA
Lab Sample ID: 480-193337-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193337-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/09/2021 11:15
Reporting Basis: WET
Date Received: 12/11/2021 11:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	144	20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L		F1	1	350.1
	Total Kjeldahl Nitrogen	0.65	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L		H H3	1	353.2
14808-79-8	Sulfate	17.8	5.0		mg/L			1	9038
	Total Dissolved Solids	212	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	2.0	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		H H3	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CD-1RA
Lab Sample ID: 480-193337-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193337-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/09/2021 11:15
Reporting Basis: WET
Date Received: 12/11/2021 11:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	ND	5.00		Color Units		H H3	1	SM 2120B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Analyst: SRW Batch Start Date: 11/22/2021

Reporting Units: mg/L Analytical Batch No.: 609054

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICB	19:45	Alkalinity, Total	ND					
9	ICV	18:05	Alkalinity, Total	33.69	32.3	104	90-110		Minerals_00024
42	CCB	19:18	Alkalinity, Total	ND					
43	CCV	19:18	Alkalinity, Total	52.42	50.0	105	90-110		WC_50ppmALK_00180
52	CCB	19:21	Alkalinity, Total	ND					
53	CCV	19:22	Alkalinity, Total	53.77	50.0	108	90-110		WC_50ppmALK_00180
61	CCB	19:25	Alkalinity, Total	ND					
62	CCV	19:26	Alkalinity, Total	49.84	50.0	100	90-110		WC_50ppmALK_00180
116	CCB	19:41	Alkalinity, Total	ND					
117	CCV	19:41	Alkalinity, Total	48.43	50.0	97	90-110		WC_50ppmALK_00180
124	CCB	19:44	Alkalinity, Total	ND					
125	CCV	19:44	Alkalinity, Total	50.76	50.0	102	90-110		WC_50ppmALK_00180
136	CCB	19:55	Alkalinity, Total	ND					
137	CCV	19:55	Alkalinity, Total	49.77	50.0	100	90-110		WC_50ppmALK_00180
148	CCB	19:58	Alkalinity, Total	ND					
149	CCV	19:59	Alkalinity, Total	48.73	50.0	97	90-110		WC_50ppmALK_00180
200	CCB	21:08	Alkalinity, Total	ND					
201	CCV	21:08	Alkalinity, Total	51.66	50.0	103	90-110		WC_50ppmALK_00180
212	CCB	21:13	Alkalinity, Total	ND					
213	CCV	21:13	Alkalinity, Total	50.75	50.0	102	90-110		WC_50ppmALK_00180
224	CCB	21:16	Alkalinity, Total	ND					
225	CCV	21:16	Alkalinity, Total	50.28	50.0	101	90-110		WC_50ppmALK_00180
262	CCB	21:38	Alkalinity, Total	ND					
263	CCV	21:38	Alkalinity, Total	53.66	50.0	107	90-110		WC_50ppmALK_00180
272	CCB	21:41	Alkalinity, Total	ND					
273	CCV	21:41	Alkalinity, Total	54.83	50.0	110	90-110		WC_50ppmALK_00180
283	CCB	21:47	Alkalinity, Total	ND					
284	CCV	21:47	Alkalinity, Total	53.64	50.0	107	90-110		WC_50ppmALK_00180

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Analyst: JGO Batch Start Date: 12/14/2021

Reporting Units: mg/L Analytical Batch No.: 608835

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:11	Cyanide, Total	0.255	0.250	102	90-110		CN CCV_01608
2	CCB	13:13	Cyanide, Total	ND					
13	CCV	13:29	Cyanide, Total	0.257	0.250	103	90-110		CN CCV_01608
14	CCB	13:30	Cyanide, Total	ND					
25	CCV	13:46	Cyanide, Total	0.254	0.250	102	90-110		CN CCV_01608
26	CCB	13:47	Cyanide, Total	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Analyst: CLT Batch Start Date: 12/13/2021

Reporting Units: mg/L Analytical Batch No.: 608583

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
73	CCV	09:33	Ammonia	1.01	1.00	101	90-110		NH3 CCV_01457
74	CCB	09:34	Ammonia	ND					
85	CCV	09:46	Ammonia	1.01	1.00	101	90-110		NH3 CCV_01457
86	CCB	09:47	Ammonia	ND					
97	CCV	10:00	Ammonia	1.01	1.00	101	90-110		NH3 CCV_01457
98	CCB	10:01	Ammonia	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Analyst: CLT Batch Start Date: 12/13/2021

Reporting Units: mg/L Analytical Batch No.: 608564

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	07:40	Total Kjeldahl Nitrogen	2.63	2.50	105	90-110		TKN CCV_01304
2	CCB	07:40	Total Kjeldahl Nitrogen	ND					
7	CCV	07:43	Total Kjeldahl Nitrogen	2.62	2.50	105	90-110		TKN CCV_01304
8	CCB	07:43	Total Kjeldahl Nitrogen	ND					
26	CCV	08:23	Total Kjeldahl Nitrogen	2.56	2.50	102	90-110		TKN CCV_01304
27	CCB	08:23	Total Kjeldahl Nitrogen	ND					
38	CCV	08:31	Total Kjeldahl Nitrogen	2.57	2.50	103	90-110		TKN CCV_01304
39	CCB	08:31	Total Kjeldahl Nitrogen	ND					
47	CCV	08:45	Total Kjeldahl Nitrogen	2.61	2.50	104	90-110		TKN CCV_01304
48	CCB	08:45	Total Kjeldahl Nitrogen	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Analyst: CSS Batch Start Date: 12/15/2021

Reporting Units: mg/L Analytical Batch No.: 609052

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
73	CCV	18:00	Chemical Oxygen Demand	74.90	75.0	100	90-110		COD 75 PPM_00045
74	CCB	18:00	Chemical Oxygen Demand	ND					
85	CCV	18:00	Chemical Oxygen Demand	75.58	75.0	101	90-110		COD 75 PPM_00045
86	CCB	18:00	Chemical Oxygen Demand	ND					
97	CCV	18:00	Chemical Oxygen Demand	75.58	75.0	101	90-110		COD 75 PPM_00045
98	CCB	18:00	Chemical Oxygen Demand	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Analyst: CLT Batch Start Date: 12/13/2021

Reporting Units: mg/L Analytical Batch No.: 608634

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	ICV	07:23	Phenolics, Total Recoverable	0.100	0.100	100	90-110		Phenol ICV_00334
11	ICB	07:27	Phenolics, Total Recoverable	ND					
68	CCV	10:56	Phenolics, Total Recoverable	0.0962	0.100	96	90-110		WC_Phenol_CCV_00467
69	CCB	10:59	Phenolics, Total Recoverable	ND					
83	CCV	11:51	Phenolics, Total Recoverable	0.0981	0.100	98	90-110		WC_Phenol_CCV_00467
84	CCB	11:54	Phenolics, Total Recoverable	ND					
97	CCV	12:42	Phenolics, Total Recoverable	0.0988	0.100	99	90-110		WC_Phenol_CCV_00467
98	CCB	12:49	Phenolics, Total Recoverable	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Analyst: RJM Batch Start Date: 12/11/2021

Reporting Units: mg/L Analytical Batch No.: 608495

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	15:30	Chromium, hexavalent	0.0565	0.0500	113	85-115		HEX INT STD_00109
2	CCB	15:30	Chromium, hexavalent	ND					
13	CCV	15:30	Chromium, hexavalent	0.0552	0.0500	110	85-115		HEX INT STD_00109
14	CCB	15:30	Chromium, hexavalent	ND					
21	CCV	15:30	Chromium, hexavalent	0.0565	0.0500	113	85-115		HEX INT STD_00109
22	CCB	15:30	Chromium, hexavalent	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Analyst: RJM Batch Start Date: 12/14/2021

Reporting Units: mg/L Analytical Batch No.: 608880

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:36	Chromium, hexavalent	0.0539	0.0500	108	85-115		HEX INT STD_00109
2	CCB	14:36	Chromium, hexavalent	ND					
13	CCV	14:36	Chromium, hexavalent	0.0539	0.0500	108	85-115		HEX INT STD_00109
14	CCB	14:36	Chromium, hexavalent	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Analyst: MJB Batch Start Date: 12/12/2021

Reporting Units: Color Units Analytical Batch No.: 608517

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	08:48	Color	30.00	30.0	100	90-110		Color Std-2_00020
2	CCB	08:48	Color	ND					
13	CCV	08:48	Color	30.00	30.0	100	90-110		Color Std-2_00020
14	CCB	08:48	Color	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Analyst: IMZ Batch Start Date: 12/17/2021

Reporting Units: mg/L Analytical Batch No.: 609280

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:48	Bromide	4.95	5.00	99	90-110		IC_ANION_LCS__00395
2	CCB	14:07	Bromide	ND					
13	CCV	17:42	Bromide	4.91	5.00	98	90-110		IC_ANION_LCS__00395
14	CCB	18:02	Bromide	ND					
25	CCV	21:36	Bromide	4.88	5.00	98	90-110		IC_ANION_LCS__00395
26	CCB	21:56	Bromide	ND					
37	CCV	01:31	Bromide	4.88	5.00	98	90-110		IC_ANION_LCS__00395
38	CCB	01:51	Bromide	ND					
49	CCV	05:26	Bromide	4.89	5.00	98	90-110		IC_ANION_LCS__00395
50	CCB	05:45	Bromide	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Analyst: SRW Batch Start Date: 12/16/2021

Reporting Units: mg/L Analytical Batch No.: 609236

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
9	ICB	19:01	Sulfate	ND					
10	ICV	19:01	Sulfate	31.04	30.0	103	90-110		Sulf 30ppm_00185
160	CCB	21:14	Sulfate	ND					
161	CCV	21:14	Sulfate	29.50	30.0	98	90-110		Sulf 30ppm_00184
164	CCB	01:46	Sulfate	ND					
165	CCV	01:46	Sulfate	28.36	30.0	95	90-110		Sulf 30ppm_00184
184	CCB	02:48	Sulfate	ND					
185	CCV	02:48	Sulfate	27.99	30.0	93	90-110		Sulf 30ppm_00184
189	CCB	02:50	Sulfate	ND					
190	CCV	02:51	Sulfate	27.24	30.0	91	90-110		Sulf 30ppm_00184
194	CCB	02:53	Sulfate	ND					
195	CCV	02:53	Sulfate	28.61	30.0	95	90-110		Sulf 30ppm_00184
199	CCB	02:55	Sulfate	ND					
200	CCV	02:56	Sulfate	27.82	30.0	93	90-110		Sulf 30ppm_00184
320	CCB	03:58	Sulfate	ND					
321	CCV	03:58	Sulfate	29.96	30.0	100	90-110		Sulf 30ppm_00184
323	CCB	03:59	Sulfate	ND					
324	CCV	03:59	Sulfate	30.40	30.0	101	90-110		Sulf 30ppm_00184

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Analyst: KEB Batch Start Date: 12/13/2021

Reporting Units: mg/L Analytical Batch No.: 608717

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICB	17:59	Chloride	ND					
236	CCB	06:56	Chloride	ND					
237	CCV	06:57	Chloride	26.70	25.0	107	90-110		WC25ppmChlInt_00155
245	CCB	07:02	Chloride	ND					
246	CCV	07:02	Chloride	26.67	25.0	107	90-110		WC25ppmChlInt_00155
257	CCB	07:08	Chloride	ND					
258	CCV	07:08	Chloride	26.90	25.0	108	90-110		WC25ppmChlInt_00155
269	CCB	07:16	Chloride	ND					
270	CCV	07:17	Chloride	26.50	25.0	106	90-110		WC25ppmChlInt_00155

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Analyst: IMZ Batch Start Date: 12/14/2021

Reporting Units: mg/L Analytical Batch No.: 608965

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	16:23	Total Organic Carbon - Duplicates	63.23	60.0	105	90-110		TOC_CCV_00190
			TOC Result 1	64.10	60.0	107	90-110		TOC_CCV_00190
			TOC Result 2	62.35	60.0	104	90-110		TOC_CCV_00190
3	CCB	16:38	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
14	CCV	19:26	Total Organic Carbon - Duplicates	62.66	60.0	104	90-110		TOC_CCV_00190
			TOC Result 1	62.33	60.0	104	90-110		TOC_CCV_00190
			TOC Result 2	62.99	60.0	105	90-110		TOC_CCV_00190
15	CCB	19:42	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
26	CCV	22:30	Total Organic Carbon - Duplicates	63.56	60.0	106	90-110		TOC_CCV_00190
			TOC Result 1	62.83	60.0	105	90-110		TOC_CCV_00190
			TOC Result 2	64.28	60.0	107	90-110		TOC_CCV_00190
27	CCB	22:45	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 609280 Date: 12/17/2021 14:46							
300.0	MB 480-609280/4	Bromide	ND		mg/L	0.20	1
Batch ID: 609280 Date: 12/17/2021 22:35							
300.0	MB 480-609280/28	Bromide	ND		mg/L	0.20	1
Batch ID: 609054 Date: 12/15/2021 19:18							
310.2	MB 480-609054/45	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 19:23							
310.2	MB 480-609054/55	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 19:41							
310.2	MB 480-609054/119	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 19:44							
310.2	MB 480-609054/127	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 19:56							
310.2	MB 480-609054/139	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 21:08							
310.2	MB 480-609054/203	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 21:14							
310.2	MB 480-609054/215	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 21:38							
310.2	MB 480-609054/265	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 21:41							
310.2	MB 480-609054/275	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 608835 Date: 12/14/2021 13:14 Prep Batch: 608774 Date: 12/14/2021 10:51							
335.4	MB 480-608774/1-A	Cyanide, Total	ND		mg/L	0.010	1
Batch ID: 608583 Date: 12/13/2021 09:35							
350.1	MB 480-608583/75	Ammonia	ND		mg/L	0.020	1
Batch ID: 608564 Date: 12/13/2021 07:40 Prep Batch: 608523 Date: 12/12/2021 17:51							
351.2	MB 480-608523/1-A	Total Kjeldahl Nitrogen	ND		mg/L	0.20	1
Batch ID: 609052 Date: 12/15/2021 18:00							
410.4	MB 480-609052/75	Chemical Oxygen Demand	ND		mg/L	10.0	1
Batch ID: 608634 Date: 12/13/2021 11:11							
420.4	MB 480-608634/72	Phenolics, Total Recoverable	ND		mg/L	0.010	1
Batch ID: 608495 Date: 12/11/2021 15:30							
7196A	MB 480-608495/3	Chromium, hexavalent	ND		mg/L	0.010	1
Batch ID: 608880 Date: 12/14/2021 14:36							
7196A	MB 480-608880/3	Chromium, hexavalent	ND		mg/L	0.010	1
Batch ID: 609236 Date: 12/16/2021 21:16							
9038	MB 480-609236/162	Sulfate	ND		mg/L	5.0	1
Batch ID: 608517 Date: 12/12/2021 08:48							
SM 2120B	MB 480-608517/3	Color	ND		Color Units	5.00	1
Batch ID: 608781 Date: 12/14/2021 11:17							
SM 2540C	MB 480-608781/1	Total Dissolved Solids	ND		mg/L	10.0	1
Batch ID: 608717 Date: 12/14/2021 06:57							
SM 4500 Cl- E	MB 480-608717/239	Chloride	ND		mg/L	1.0	1

FORM III-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 608717 Date: 12/14/2021 07:03							
SM 4500 Cl- E	MB 480-608717/248	Chloride	ND		mg/L	1.0	1
Batch ID: 608717 Date: 12/14/2021 07:09							
SM 4500 Cl- E	MB 480-608717/260	Chloride	ND		mg/L	1.0	1
Batch ID: 608499 Date: 12/11/2021 17:24							
SM 5210B	MB 480-608499/1	Biochemical Oxygen Demand	ND		mg/L	2.0	1
Batch ID: 608965 Date: 12/14/2021 16:53							
SM 5310C	MB 480-608965/4	Total Organic Carbon - Duplicates	ND		mg/L	1.0	1
SM 5310C	MB 480-608965/4	TOC Result 1	ND		mg/L	1.0	1
SM 5310C	MB 480-608965/4	TOC Result 2	ND		mg/L	1.0	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 608583	Date: 12/13/2021 09:53										
350.1	480-193337-2	Ammonia	ND		mg/L						F1
350.1	480-193337-2 MS	Ammonia	0.222		mg/L	0.200	111	90-110			F1
Batch ID: 609052	Date: 12/15/2021 18:00										
410.4	480-193337-1	Chemical Oxygen Demand	ND		mg/L						
410.4	480-193337-1 MS	Chemical Oxygen Demand	61.64		mg/L	50.0	123	75-125			
Batch ID: 608634	Date: 12/13/2021 12:09										
420.4	480-193337-2	Phenolics, Total Recoverable	ND		mg/L						
420.4	480-193337-2 MS	Phenolics, Total Recoverable	0.0970		mg/L	0.100	97	90-110			
Batch ID: 609236	Date: 12/17/2021 02:51										
9038	480-193337-1	Sulfate	17.3		mg/L						
9038	480-193337-1 MS	Sulfate	36.91		mg/L	20.0	98	60-128			
Batch ID: 609236	Date: 12/17/2021 03:59										
9038	480-193337-2	Sulfate	17.8		mg/L						
9038	480-193337-2 MS	Sulfate	40.44		mg/L	20.0	113	60-128			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 609236 Date: 12/17/2021 02:52											
9038	480-193337-1 MSD	Sulfate	37.60		mg/L	20.0	102	60-128	2	20	
Batch ID: 609236 Date: 12/17/2021 02:55											
9038	480-193337-2 MSD	Sulfate	37.48		mg/L	20.0	99	60-128	8	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 608583	Date: 12/13/2021 09:52							
350.1	CD-1RA	480-193337-2	Ammonia	ND	mg/L			
350.1	CD-1RA	480-193337-2 DU	Ammonia	ND	mg/L	NC	20	
Batch ID: 608781	Date: 12/14/2021 11:17							
SM 2540C	CD-1RA	480-193337-2	Total Dissolved Solids	212	mg/L			
SM 2540C	CD-1RA	480-193337-2 DU	Total Dissolved Solids	198.0	mg/L	7	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 609280	Date: 12/17/2021 22:16										
						LCS Source: IC_ANION_LCS__00395					
300.0	LCS 480-609280/27	Bromide	4.86		mg/L	5.00	97	90-110			
Batch ID: 609054	Date: 12/15/2021 19:22										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609054/54	Alkalinity, Total	52.34		mg/L	50.0	105	90-110			
Batch ID: 609054	Date: 12/15/2021 19:44										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609054/126	Alkalinity, Total	52.96		mg/L	50.0	106	90-110			
Batch ID: 609054	Date: 12/15/2021 19:55										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609054/138	Alkalinity, Total	51.22		mg/L	50.0	102	90-110			
Batch ID: 609054	Date: 12/15/2021 21:14										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609054/214	Alkalinity, Total	50.15		mg/L	50.0	100	90-110			
Batch ID: 609054	Date: 12/15/2021 21:41										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609054/274	Alkalinity, Total	52.58		mg/L	50.0	105	90-110			
Batch ID: 608835	Date: 12/14/2021 13:16	Prep Batch: 608774	Date: 12/14/2021 10:51								
						LCS Source: CN LCS 250_00233					
335.4	LCS 480-608774/2-A	Cyanide, Total	0.234		mg/L	0.250	94	90-110			
Batch ID: 608583	Date: 12/13/2021 09:36										
						LCS Source: NH3 CCV_01457					
350.1	LCS 480-608583/76	Ammonia	1.02		mg/L	1.00	102	90-110			
Batch ID: 608564	Date: 12/13/2021 07:40	Prep Batch: 608523	Date: 12/12/2021 17:51								
						LCS Source: TKN1000ppmSTD_00016					
351.2	LCS 480-608523/2-A	Total Kjeldahl Nitrogen	2.57		mg/L	2.50	103	90-110			
Batch ID: 609052	Date: 12/15/2021 18:00										
						LCS Source: COD 25 PPM_00082					
410.4	LCS 480-609052/76	Chemical Oxygen Demand	24.24		mg/L	25.0	97	90-110			
Batch ID: 608634	Date: 12/13/2021 11:14										
						LCS Source: WC_Phenol_CCV_00467					
420.4	LCS 480-608634/73	Phenolics, Total Recoverable	0.0980		mg/L	0.100	98	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 608495	Date: 12/11/2021 15:30										
						LCS Source: HEX INT STD_00109					
7196A	LCS 480-608495/4	Chromium, hexavalent	0.0565		mg/L	0.0500	113	85-115			
Batch ID: 608880	Date: 12/14/2021 14:36										
						LCS Source: HEX INT STD_00109					
7196A	LCS 480-608880/4	Chromium, hexavalent	0.0539		mg/L	0.0500	108	85-115			
Batch ID: 609236	Date: 12/16/2021 21:16										
						LCS Source: Sulf 30ppm_00184					
9038	LCS 480-609236/163	Sulfate	29.34		mg/L	30.0	98	90-110			
Batch ID: 608517	Date: 12/12/2021 08:48										
						LCS Source: Color Std-2_00020					
SM 2120B	LCS 480-608517/4	Color	30.00		Color Units	30.0	100	90-110			
Batch ID: 608781	Date: 12/14/2021 11:17										
						LCS Source: NaCl Std 02_00420					
SM 2540C	LCS 480-608781/2	Total Dissolved Solids	526.0		mg/L	504	104	85-115			
Batch ID: 608717	Date: 12/14/2021 07:03										
						LCS Source: WC25ppmChlInt_00155					
SM 4500 Cl- E	LCS 480-608717/247	Chloride	26.72		mg/L	25.0	107	90-110			
Batch ID: 608717	Date: 12/14/2021 07:08										
						LCS Source: WC25ppmChlInt_00155					
SM 4500 Cl- E	LCS 480-608717/259	Chloride	26.58		mg/L	25.0	106	90-110			
Batch ID: 608499	Date: 12/11/2021 17:24										
						LCS Source: GGA_00014					
SM 5210B	LCS 480-608499/2	Biochemical Oxygen Demand	176.2		mg/L	198	89	85-115			
Batch ID: 608965	Date: 12/14/2021 17:09										
						LCS Source: TOC_LCS_00187					
SM 5310C	LCS 480-608965/5	Total Organic Carbon - Duplicates	63.24		mg/L	60.0	105	90-110			
SM 5310C	LCS 480-608965/5	TOC Result 1	62.37		mg/L	60.0	104	90-110			
SM 5310C	LCS 480-608965/5	TOC Result 2	64.11		mg/L	60.0	107	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: 310.2 MDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity, Total		10	4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: 310.2 XMDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity, Total		10	4

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT2

Method: 335.4 MDL Date: 01/29/2010 00:00

Prep Method: Distill/CN

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cyanide, Total		0.01	0.005

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT2

Method: 335.4 XMDL Date: 01/29/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.005

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT1

Method: 350.1 MDL Date: 01/12/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ammonia		0.02	0.009

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT1

Method: 350.1 XMDL Date: 01/12/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ammonia		0.02	0.009

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: KONE1

Method: 351.2 MDL Date: 01/19/2021 13:21

Prep Method: 351.2

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Kjeldahl Nitrogen		0.2	0.187

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: KONE1

Method: 351.2 XMDL Date: 01/19/2021 13:21

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Kjeldahl Nitrogen		0.2	0.187

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Genesys Spec 30

Method: 410.4 MDL Date: 11/08/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chemical Oxygen Demand		10	5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Genesys Spec 30

Method: 410.4 XMDL Date: 11/08/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chemical Oxygen Demand		10	5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Skalar_San+

Method: 420.4 MDL Date: 07/30/2019 13:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Phenolics, Total Recoverable		0.01	0.0035

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Skalar_San+

Method: 420.4 XMDL Date: 07/30/2019 13:21

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Phenolics, Total Recoverable		0.01	0.0035

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Genesys Spec 30

Method: 7196A MDL Date: 09/30/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chromium, hexavalent		0.01	0.005

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Genesys Spec 30

Method: 7196A XMDL Date: 09/30/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chromium, hexavalent		0.01	0.005

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2120B RL Date: 06/25/2014 09:48

Analyte	Wavelength/ Mass	RL (Color Units)	
Color		5	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2120B XRL Date: 08/17/2009 09:56

Analyte	Wavelength/ Mass	XRL (Color Units)	
Color		5	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: IC-6

Method: 300.0 MDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Bromide		0.2	0.073

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: IC-6

Method: 300.0 XMDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Bromide		0.2	0.073

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT3

Method: 353.2 MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate as N		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT3

Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate as N		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: 9038 MDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		5	1.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: 9038 XMDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		5	1.5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Balance-3

Method: SM 2540C MDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Dissolved Solids		10	4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Balance-3

Method: SM 2540C XMDL Date: 08/17/2009 10:52

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Dissolved Solids		10	4

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: SM 4500 Cl- E MDL Date: 08/17/2009 10:18

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		1	0.46

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: SM 4500 Cl- E XMDL Date: 08/17/2009 10:18

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		1	0.46

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 5210B MDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 5210B XMDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: TOC10301

Method: SM 5310C MDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
TOC Result 1		1	0.434
TOC Result 2		1	0.434
Total Organic Carbon - Duplicates		1	0.434

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193337-1

SDG Number: 193337

Matrix: Water Instrument ID: TOC10301

Method: SM 5310C XMDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Result 1		1	0.434
TOC Result 2		1	0.434
Total Organic Carbon - Duplicates		1	0.434

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193337-1

SDG No.: 193337

Instrument ID: Genesys Spec 30 Date: 03/12/2020 10:22

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Chemical Oxygen Demand		150	410.4

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193337-1

SDG No.: 193337

Instrument ID: Genesys Spec 30 Date: 03/12/2020 10:22

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Chromium, hexavalent		0.4	7196A

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Prep Method: 351.2

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-608523/1-A	12/12/2021 17:51	608523		25	25
LCS 480-608523/2-A	12/12/2021 17:51	608523		25	25
480-193337-1	12/12/2021 17:51	608523		25	25
480-193337-2	12/12/2021 17:51	608523		25	25

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Prep Method: Distill/CN

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-608774/1-A	12/14/2021 10:51	608774		6	6
LCS 480-608774/2-A	12/14/2021 10:51	608774		6	6
480-193337-1	12/14/2021 10:51	608774		6	6
480-193337-2	12/14/2021 10:51	608774		6	6

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			19:44																				
ZZZZZZ			19:44																				
ZZZZZZ			19:44																				
ZZZZZZ			19:45																				
ZZZZZZ			19:45																				
ZZZZZZ			19:45																				
ZZZZZZ			19:45																				
ICB 480-609054/8	1		19:45	X																			
ICV 480-609054/9	1		18:05	X																			
CCB 480-609054/10			18:05																				
CCV 480-609054/11			18:05																				
ZZZZZZ			18:05																				
ZZZZZZ			18:05																				
ZZZZZZ			19:11																				
ZZZZZZ			19:11																				
ZZZZZZ			19:12																				
ZZZZZZ			19:12																				
ZZZZZZ			19:12																				
ZZZZZZ			19:12																				
CCB 480-609054/20			19:13																				
CCV 480-609054/21			19:13																				
ZZZZZZ			19:13																				
ZZZZZZ			19:13																				
ZZZZZZ			19:13																				
ZZZZZZ			19:14																				
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ZZZZZZ			19:15																				
ZZZZZZ			19:15																				
ZZZZZZ			19:15																				
ZZZZZZ			19:15																				
CCB 480-609054/32			19:16																				
CCV 480-609054/33			19:16																				
ZZZZZZ			19:16																				
ZZZZZZ			19:16																				
ZZZZZZ			19:16																				
ZZZZZZ			19:16																				
ZZZZZZ			19:17																				
ZZZZZZ			19:17																				
ZZZZZZ			19:17																				
ZZZZZZ			19:18																				
CCB 480-609054/42	1		19:18	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk																			
CCV 480-609054/43	1		19:18	X																			
ZZZZZZ			19:18																				
MB 480-609054/45	1	T	19:18	X																			
ZZZZZZ			19:19																				
ZZZZZZ			19:19																				
ZZZZZZ			19:19																				
ZZZZZZ			19:20																				
ZZZZZZ			19:20																				
ZZZZZZ			19:21																				
CCB 480-609054/52	1		19:21	X																			
CCV 480-609054/53	1		19:22	X																			
LCS 480-609054/54	1	T	19:22	X																			
MB 480-609054/55	1	T	19:23	X																			
ZZZZZZ			19:23																				
ZZZZZZ			19:23																				
ZZZZZZ			19:24																				
ZZZZZZ			19:24																				
ZZZZZZ			19:24																				
CCB 480-609054/61	1		19:25	X																			
CCV 480-609054/62	1		19:26	X																			
ZZZZZZ			19:26																				
ZZZZZZ			19:26																				
ZZZZZZ			19:27																				
ZZZZZZ			19:27																				
ZZZZZZ			19:27																				
ZZZZZZ			19:27																				
ZZZZZZ			19:28																				
ZZZZZZ			19:28																				
ZZZZZZ			19:28																				
ZZZZZZ			19:29																				
CCB 480-609054/73			19:29																				
CCV 480-609054/74			19:29																				
ZZZZZZ			19:29																				
ZZZZZZ			19:29																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:31																				
ZZZZZZ			19:31																				
ZZZZZZ			19:31																				
CCB 480-609054/83			19:32																				
CCV 480-609054/84			19:32																				

ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			19:32																				
ZZZZZZ			19:32																				
ZZZZZZ			19:34																				
ZZZZZZ			19:35																				
ZZZZZZ			19:35																				
ZZZZZZ			19:36																				
ZZZZZZ			19:36																				
ZZZZZZ			19:36																				
CCB 480-609054/93			19:36																				
CCV 480-609054/94			19:37																				
ZZZZZZ			19:37																				
ZZZZZZ			19:37																				
ZZZZZZ			19:37																				
ZZZZZZ			19:37																				
ZZZZZZ			19:37																				
ZZZZZZ			19:38																				
ZZZZZZ			19:38																				
ZZZZZZ			19:38																				
ZZZZZZ			19:38																				
ZZZZZZ			19:38																				
CCB 480-609054/105			19:38																				
CCV 480-609054/106			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:40																				
ZZZZZZ			19:40																				
ZZZZZZ			19:40																				
ZZZZZZ			19:40																				
CCB 480-609054/116	1		19:41	X																			
CCV 480-609054/117	1		19:41	X																			
ZZZZZZ			19:41																				
MB 480-609054/119	1	T	19:41	X																			
ZZZZZZ			19:41																				
ZZZZZZ			19:42																				
ZZZZZZ			19:42																				
ZZZZZZ			19:43																				
CCB 480-609054/124	1		19:44	X																			
CCV 480-609054/125	1		19:44	X																			
LCS 480-609054/126	1	T	19:44	X																			

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
MB 480-609054/127	1	T	19:44	X																			
ZZZZZZ			19:45																				
ZZZZZZ			19:47																				
ZZZZZZ			19:47																				
ZZZZZZ			19:48																				
ZZZZZZ			19:48																				
ZZZZZZ			19:54																				
ZZZZZZ			19:55																				
ZZZZZZ			19:55																				
CCB 480-609054/136	1		19:55	X																			
CCV 480-609054/137	1		19:55	X																			
LCS 480-609054/138	1	T	19:55	X																			
MB 480-609054/139	1	T	19:56	X																			
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:57																				
ZZZZZZ			19:57																				
ZZZZZZ			19:57																				
ZZZZZZ			19:58																				
ZZZZZZ			19:58																				
ZZZZZZ			19:58																				
CCB 480-609054/148	1		19:58	X																			
CCV 480-609054/149	1		19:59	X																			
ZZZZZZ			19:59																				
ZZZZZZ			19:59																				
ZZZZZZ			19:59																				
ZZZZZZ			20:00																				
ZZZZZZ			20:01																				
ZZZZZZ			20:02																				
CCB 480-609054/156			20:02																				
CCV 480-609054/157			20:02																				
ZZZZZZ			20:03																				
ZZZZZZ			20:03																				
ZZZZZZ			20:42																				
ZZZZZZ			20:42																				
ZZZZZZ			20:44																				
ZZZZZZ			20:44																				
ZZZZZZ			20:45																				
ZZZZZZ			20:45																				
CCB 480-609054/166			20:47																				
CCV 480-609054/167			20:47																				
ZZZZZZ			20:47																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			20:47																				
ZZZZZZ			20:49																				
ZZZZZZ			20:50																				
ZZZZZZ			20:50																				
ZZZZZZ			20:50																				
ZZZZZZ			20:53																				
ZZZZZZ			20:53																				
ZZZZZZ			20:54																				
ZZZZZZ			20:54																				
CCB 480-609054/178			20:55																				
CCV 480-609054/179			20:55																				
ZZZZZZ			20:56																				
ZZZZZZ			20:57																				
ZZZZZZ			20:57																				
ZZZZZZ			20:57																				
ZZZZZZ			20:57																				
ZZZZZZ			20:59																				
ZZZZZZ			21:00																				
ZZZZZZ			21:00																				
CCB 480-609054/188			21:00																				
CCV 480-609054/189			21:00																				
ZZZZZZ			21:01																				
ZZZZZZ			21:01																				
ZZZZZZ			21:01																				
ZZZZZZ			21:02																				
ZZZZZZ			21:02																				
ZZZZZZ			21:03																				
ZZZZZZ			21:05																				
ZZZZZZ			21:05																				
ZZZZZZ			21:07																				
ZZZZZZ			21:07																				
CCB 480-609054/200	1		21:08	X																			
CCV 480-609054/201	1		21:08	X																			
ZZZZZZ			21:08																				
MB 480-609054/203	1	T	21:08	X																			
ZZZZZZ			21:09																				
ZZZZZZ			21:09																				
ZZZZZZ			21:09																				
ZZZZZZ			21:10																				
ZZZZZZ			21:10																				
ZZZZZZ			21:10																				
ZZZZZZ			21:10																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			21:12																				
CCB 480-609054/212	1		21:13	X																			
CCV 480-609054/213	1		21:13	X																			
LCS 480-609054/214	1	T	21:14	X																			
MB 480-609054/215	1	T	21:14	X																			
ZZZZZZ			21:14																				
ZZZZZZ			21:14																				
ZZZZZZ			21:15																				
ZZZZZZ			21:15																				
ZZZZZZ			21:15																				
ZZZZZZ			21:16																				
480-193337-2	2	T	21:16	X																			
ZZZZZZ			21:16																				
CCB 480-609054/224	1		21:16	X																			
CCV 480-609054/225	1		21:16	X																			
ZZZZZZ			21:17																				
ZZZZZZ			21:17																				
ZZZZZZ			21:17																				
ZZZZZZ			21:18																				
ZZZZZZ			21:18																				
ZZZZZZ			21:18																				
ZZZZZZ			21:19																				
CCB 480-609054/233			21:19																				
CCV 480-609054/234			21:20																				
ZZZZZZ			21:20																				
ZZZZZZ			21:20																				
ZZZZZZ			21:20																				
ZZZZZZ			21:21																				
ZZZZZZ			21:21																				
ZZZZZZ			21:21																				
ZZZZZZ			21:22																				
ZZZZZZ			21:22																				
ZZZZZZ			21:23																				
ZZZZZZ			21:23																				
CCB 480-609054/245			21:23																				
CCV 480-609054/246			21:23																				
ZZZZZZ			21:23																				
ZZZZZZ			21:24																				
ZZZZZZ			21:24																				
ZZZZZZ			21:24																				
ZZZZZZ			21:24																				
ZZZZZZ			21:27																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			21:27																				
ZZZZZZ			21:27																				
CCB 480-609054/255			21:28																				
CCV 480-609054/256			21:28																				
ZZZZZZ			21:28																				
ZZZZZZ			21:28																				
ZZZZZZ			21:29																				
ZZZZZZ			21:29																				
ZZZZZZ			21:30																				
CCB 480-609054/262	1		21:38	X																			
CCV 480-609054/263	1		21:38	X																			
ZZZZZZ			21:38																				
MB 480-609054/265	1	T	21:38	X																			
ZZZZZZ			21:39																				
ZZZZZZ			21:39																				
ZZZZZZ			21:40																				
ZZZZZZ			21:40																				
ZZZZZZ			21:40																				
ZZZZZZ			21:41																				
CCB 480-609054/272	1		21:41	X																			
CCV 480-609054/273	1		21:41	X																			
LCS 480-609054/274	1	T	21:41	X																			
MB 480-609054/275	1	T	21:41	X																			
ZZZZZZ			21:42																				
480-193337-1	2	T	21:42	X																			
ZZZZZZ			21:42																				
ZZZZZZ			21:42																				
ZZZZZZ			21:43																				
ZZZZZZ			21:44																				
ZZZZZZ			21:45																				
CCB 480-609054/283	1		21:47	X																			
CCV 480-609054/284	1		21:47	X																			
ZZZZZZ			21:47																				
ZZZZZZ			21:47																				
ZZZZZZ			21:48																				
ZZZZZZ			21:48																				
CCB 480-609054/289			02:35																				
CCV 480-609054/290			02:35																				
ZZZZZZ			02:36																				
ZZZZZZ			02:36																				
ZZZZZZ			02:36																				
ZZZZZZ			02:36																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			02:37																				
ZZZZZZ			02:37																				
ZZZZZZ			02:37																				
ZZZZZZ			02:37																				
ZZZZZZ			02:38																				
ZZZZZZ			02:44																				
CCB 480-609054/301			02:44																				
CCV 480-609054/302			02:44																				
ZZZZZZ			02:44																				
ZZZZZZ			02:45																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: LACHAT2 Method: 335.4

Start Date: 12/14/2021 13:11 End Date: 12/14/2021 13:53

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
CCV 480-608835/1	1		13:11	X																			
CCB 480-608835/2	1		13:13	X																			
MB 480-608774/1-A	1	T	13:14	X																			
LCS 480-608774/2-A	1	T	13:16	X																			
ZZZZZZ			13:17																				
ZZZZZZ			13:19																				
ZZZZZZ			13:20																				
ZZZZZZ			13:21																				
ZZZZZZ			13:23																				
ZZZZZZ			13:24																				
ZZZZZZ			13:26																				
ZZZZZZ			13:27																				
CCV 480-608835/13	1		13:29	X																			
CCB 480-608835/14	1		13:30	X																			
ZZZZZZ			13:32																				
ZZZZZZ			13:33																				
480-193337-1	1	T	13:34	X																			
480-193337-2	1	T	13:36	X																			
ZZZZZZ			13:37																				
ZZZZZZ			13:39																				
ZZZZZZ			13:40																				
ZZZZZZ			13:42																				
ZZZZZZ			13:43																				
ZZZZZZ			13:44																				
CCV 480-608835/25	1		13:46	X																			
CCB 480-608835/26	1		13:47	X																			
ZZZZZZ			13:49																				
ZZZZZZ			13:50																				
CCV 480-608835/29			13:52																				
CCB 480-608835/30			13:53																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: LACHAT1 Method: 350.1

Start Date: 12/13/2021 08:14 End Date: 12/13/2021 10:12

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
CCV 480-608583/1			08:14																				
CCB 480-608583/2			08:15																				
ZZZZZZ			08:16																				
ZZZZZZ			08:17																				
ZZZZZZ			08:18																				
ZZZZZZ			08:19																				
ZZZZZZ			08:20																				
ZZZZZZ			08:22																				
ZZZZZZ			08:23																				
ZZZZZZ			08:24																				
ZZZZZZ			08:25																				
ZZZZZZ			08:26																				
CCV 480-608583/13			08:27																				
CCB 480-608583/14			08:28																				
ZZZZZZ			08:29																				
ZZZZZZ			08:30																				
ZZZZZZ			08:31																				
ZZZZZZ			08:33																				
ZZZZZZ			08:34																				
ZZZZZZ			08:35																				
ZZZZZZ			08:36																				
ZZZZZZ			08:37																				
ZZZZZZ			08:38																				
ZZZZZZ			08:39																				
CCV 480-608583/25			08:40																				
CCB 480-608583/26			08:41																				
ZZZZZZ			08:42																				
ZZZZZZ			08:44																				
ZZZZZZ			08:45																				
ZZZZZZ			08:46																				
ZZZZZZ			08:47																				
ZZZZZZ			08:48																				
ZZZZZZ			08:49																				
ZZZZZZ			08:50																				
ZZZZZZ			08:51																				
ZZZZZZ			08:52																				
CCV 480-608583/37			08:53																				
CCB 480-608583/38			08:55																				
ZZZZZZ			08:56																				
ZZZZZZ			08:57																				
ZZZZZZ			08:58																				
ZZZZZZ			08:59																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: LACHAT1 Method: 350.1

Start Date: 12/13/2021 08:14 End Date: 12/13/2021 10:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
ZZZZZZ			09:00																				
ZZZZZZ			09:01																				
ZZZZZZ			09:02																				
ZZZZZZ			09:03																				
ZZZZZZ			09:05																				
ZZZZZZ			09:06																				
CCV 480-608583/49			09:07																				
CCB 480-608583/50			09:08																				
ZZZZZZ			09:09																				
ZZZZZZ			09:10																				
ZZZZZZ			09:11																				
ZZZZZZ			09:12																				
ZZZZZZ			09:13																				
ZZZZZZ			09:14																				
ZZZZZZ			09:16																				
ZZZZZZ			09:17																				
ZZZZZZ			09:18																				
ZZZZZZ			09:19																				
CCV 480-608583/61			09:20																				
CCB 480-608583/62			09:21																				
ZZZZZZ			09:22																				
ZZZZZZ			09:23																				
ZZZZZZ			09:24																				
ZZZZZZ			09:25																				
ZZZZZZ			09:27																				
ZZZZZZ			09:28																				
ZZZZZZ			09:29																				
ZZZZZZ			09:30																				
ZZZZZZ			09:31																				
ZZZZZZ			09:32																				
CCV 480-608583/73	1		09:33	X																			
CCB 480-608583/74	1		09:34	X																			
MB 480-608583/75	1	T	09:35	X																			
LCS 480-608583/76	1	T	09:36	X																			
ZZZZZZ			09:38																				
ZZZZZZ			09:39																				
ZZZZZZ			09:40																				
ZZZZZZ			09:41																				
ZZZZZZ			09:42																				
ZZZZZZ			09:43																				
ZZZZZZ			09:44																				
ZZZZZZ			09:45																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: LACHAT1 Method: 350.1

Start Date: 12/13/2021 08:14 End Date: 12/13/2021 10:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
CCV 480-608583/85	1		09:46	X																			
CCB 480-608583/86	1		09:47	X																			
ZZZZZZ			09:49																				
480-193337-1	1	T	09:50	X																			
480-193337-2	1	T	09:51	X																			
480-193337-2 DU	1	T	09:52	X																			
480-193337-2 MS	1	T	09:53	X																			
ZZZZZZ			09:54																				
ZZZZZZ			09:55																				
ZZZZZZ			09:56																				
ZZZZZZ			09:57																				
ZZZZZZ			09:58																				
CCV 480-608583/97	1		10:00	X																			
CCB 480-608583/98	1		10:01	X																			
ZZZZZZ			10:02																				
ZZZZZZ			10:03																				
ZZZZZZ			10:04																				
ZZZZZZ			10:05																				
ZZZZZZ			10:06																				
ZZZZZZ			10:07																				
ZZZZZZ			10:08																				
ZZZZZZ			10:09																				
ZZZZZZ			10:11																				
ZZZZZZ			10:12																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: KONE1 Method: 351.2

Start Date: 12/13/2021 07:40 End Date: 12/13/2021 09:32

Lab Sample ID	D / F	Type	Time	Analytes																			
				TKN																			
CCV 480-608564/1	1		07:40	X																			
CCB 480-608564/2	1		07:40	X																			
ZZZZZZ			07:40																				
ZZZZZZ			07:40																				
MB 480-608523/1-A	1	T	07:40	X																			
LCS 480-608523/2-A	1	T	07:40	X																			
CCV 480-608564/7	1		07:43	X																			
CCB 480-608564/8	1		07:43	X																			
ZZZZZZ			08:04																				
ZZZZZZ			08:04																				
ZZZZZZ			08:04																				
ZZZZZZ			08:04																				
ZZZZZZ			08:05																				
CCV 480-608564/14			08:13																				
CCB 480-608564/15			08:13																				
ZZZZZZ			08:13																				
ZZZZZZ			08:13																				
ZZZZZZ			08:14																				
ZZZZZZ			08:14																				
ZZZZZZ			08:14																				
ZZZZZZ			08:14																				
ZZZZZZ			08:14																				
ZZZZZZ			08:14																				
ZZZZZZ			08:14																				
ZZZZZZ			08:14																				
CCV 480-608564/26	1		08:23	X																			
CCB 480-608564/27	1		08:23	X																			
ZZZZZZ			08:23																				
ZZZZZZ			08:23																				
ZZZZZZ			08:23																				
ZZZZZZ			08:23																				
ZZZZZZ			08:23																				
ZZZZZZ			08:23																				
ZZZZZZ			08:23																				
ZZZZZZ			08:23																				
ZZZZZZ			08:23																				
CCV 480-608564/38	1		08:31	X																			
CCB 480-608564/39	1		08:31	X																			
ZZZZZZ			08:31																				
ZZZZZZ			08:31																				
ZZZZZZ			08:31																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: KONE1 Method: 351.2

Start Date: 12/13/2021 07:40 End Date: 12/13/2021 09:32

Lab Sample ID	D / F	Type	Time	Analytes																				
				TKN																				
ZZZZZZ			08:31																					
ZZZZZZ			08:31																					
480-193337-1	1	T	08:31	X																				
480-193337-2	1	T	08:31	X																				
CCV 480-608564/47	1		08:45	X																				
CCB 480-608564/48	1		08:45	X																				
CCV 480-608564/49			09:23																					
CCB 480-608564/50			09:23																					
ZZZZZZ			09:23																					
ZZZZZZ			09:23																					
ZZZZZZ			09:23																					
ZZZZZZ			09:23																					
ZZZZZZ			09:29																					
ZZZZZZ			09:30																					
ZZZZZZ			09:30																					
CCV 480-608564/58			09:32																					
CCB 480-608564/59			09:32																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Genesys Spec 30 Method: 410.4

Start Date: 12/15/2021 18:00 End Date: 12/15/2021 18:00

Lab Sample ID	D / F	Type	Time	Analytes																			
				COD																			
CCV 480-609052/1			18:00																				
CCB 480-609052/2			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
CCV 480-609052/13			18:00																				
CCB 480-609052/14			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
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ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
CCV 480-609052/25			18:00																				
CCB 480-609052/26			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
CCV 480-609052/37			18:00																				
CCB 480-609052/38			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Genesys Spec 30 Method: 410.4

Start Date: 12/15/2021 18:00 End Date: 12/15/2021 18:00

Lab Sample ID	D / F	Type	Time	Analytes																			
				COD																			
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
CCV 480-609052/49			18:00																				
CCB 480-609052/50			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
CCV 480-609052/61			18:00																				
CCB 480-609052/62			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
CCV 480-609052/73	1		18:00	X																			
CCB 480-609052/74	1		18:00	X																			
MB 480-609052/75	1	T	18:00	X																			
LCS 480-609052/76	1	T	18:00	X																			
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Genesys Spec 30 Method: 410.4

Start Date: 12/15/2021 18:00 End Date: 12/15/2021 18:00

Lab Sample ID	D / F	Type	Time	Analytes																			
				COD																			
CCV 480-609052/85	1		18:00	X																			
CCB 480-609052/86	1		18:00	X																			
480-193337-1	1	T	18:00	X																			
480-193337-1 MS	1	T	18:00	X																			
480-193337-2	1	T	18:00	X																			
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
ZZZZZZ			18:00																				
CCV 480-609052/97	1		18:00	X																			
CCB 480-609052/98	1		18:00	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 12/13/2021 06:53 End Date: 12/13/2021 13:42

Lab Sample ID	D / F	Type	Time	Analytes																			
				PhenT																			
ZZZZZZ			06:53																				
ZZZZZZ			06:54																				
ZZZZZZ			06:59																				
IC 480-608634/4			07:01	X																			
IC 480-608634/5			07:05	X																			
IC 480-608634/6			07:09	X																			
IC 480-608634/7			07:12	X																			
IC 480-608634/8			07:16	X																			
IC 480-608634/9			07:20	X																			
ICV 480-608634/10	1		07:23	X																			
ICB 480-608634/11	1		07:27	X																			
ZZZZZZ			07:31																				
ZZZZZZ			07:35																				
CCV 480-608634/14			07:38																				
CCB 480-608634/15			07:42																				
ZZZZZZ			07:45																				
ZZZZZZ			07:49																				
ZZZZZZ			07:53																				
ZZZZZZ			07:56																				
ZZZZZZ			08:00																				
ZZZZZZ			08:04																				
ZZZZZZ			08:07																				
ZZZZZZ			08:11																				
ZZZZZZ			08:15																				
ZZZZZZ			08:18																				
CCV 480-608634/26			08:22																				
CCB 480-608634/27			08:26																				
ZZZZZZ			08:29																				
ZZZZZZ			08:34																				
ZZZZZZ			08:37																				
ZZZZZZ			08:40																				
ZZZZZZ			08:44																				
ZZZZZZ			08:48																				
ZZZZZZ			08:51																				
ZZZZZZ			08:55																				
ZZZZZZ			08:59																				
ZZZZZZ			09:02																				
ZZZZZZ			09:06																				
ZZZZZZ			09:10																				
CCV 480-608634/40			09:13																				
CCB 480-608634/41			09:17																				
ZZZZZZ			09:21																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 12/13/2021 06:53 End Date: 12/13/2021 13:42

Lab Sample ID	D / F	Type	Time	Analytes																				
				PhenT																				
ZZZZZZ			09:25																					
ZZZZZZ			09:28																					
ZZZZZZ			09:32																					
ZZZZZZ			09:35																					
ZZZZZZ			09:39																					
ZZZZZZ			09:43																					
ZZZZZZ			09:47																					
ZZZZZZ			09:50																					
ZZZZZZ			09:54																					
ZZZZZZ			09:58																					
ZZZZZZ			10:02																					
CCV 480-608634/54			10:04																					
CCB 480-608634/55			10:08																					
ZZZZZZ			10:12																					
ZZZZZZ			10:17																					
ZZZZZZ			10:19																					
ZZZZZZ			10:23																					
ZZZZZZ			10:26																					
ZZZZZZ			10:30																					
ZZZZZZ			10:34																					
ZZZZZZ			10:37																					
ZZZZZZ			10:41																					
ZZZZZZ			10:45																					
ZZZZZZ			10:48																					
ZZZZZZ			10:52																					
CCV 480-608634/68	1		10:56	X																				
CCB 480-608634/69	1		10:59	X																				
ZZZZZZ			11:03																					
ZZZZZZ			11:08																					
MB 480-608634/72	1	T	11:11	X																				
LCS 480-608634/73	1	T	11:14	X																				
ZZZZZZ			11:18																					
ZZZZZZ			11:21																					
ZZZZZZ			11:25																					
480-193337-1	1	T	11:29	X																				
ZZZZZZ			11:32																					
ZZZZZZ			11:36																					
ZZZZZZ			11:40																					
ZZZZZZ			11:43																					
ZZZZZZ			11:48																					
CCV 480-608634/83	1		11:51	X																				
CCB 480-608634/84	1		11:54	X																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 12/13/2021 06:53 End Date: 12/13/2021 13:42

Lab Sample ID	D / F	Type	Time	Analytes																				
				PhenT																				
ZZZZZZ			11:58																					
ZZZZZZ			12:03																					
480-193337-2	1	T	12:05	X																				
480-193337-2 MS	1	T	12:09	X																				
ZZZZZZ			12:13																					
ZZZZZZ			12:16																					
ZZZZZZ			12:20																					
ZZZZZZ			12:24																					
ZZZZZZ			12:27																					
ZZZZZZ			12:31																					
ZZZZZZ			12:36																					
ZZZZZZ			12:39																					
CCV 480-608634/97	1		12:42	X																				
CCB 480-608634/98	1		12:49	X																				
ZZZZZZ			12:53																					
ZZZZZZ			12:56																					
ZZZZZZ			13:01																					
ZZZZZZ			13:04																					
ZZZZZZ			13:07																					
ZZZZZZ			13:11																					
ZZZZZZ			13:14																					
ZZZZZZ			13:18																					
ZZZZZZ			13:22																					
CCV 480-608634/108			13:26																					
CCB 480-608634/109			13:29																					
ZZZZZZ			13:33																					
ZZZZZZ			13:37																					
ZZZZZZ			13:42																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Genesys Spec 30 Method: 7196A

Start Date: 12/11/2021 15:30 End Date: 12/11/2021 15:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cr6																			
CCV 480-608495/1	1		15:30	X																			
CCB 480-608495/2	1		15:30	X																			
MB 480-608495/3	1	T	15:30	X																			
LCS 480-608495/4	1	T	15:30	X																			
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
CCV 480-608495/13	1		15:30	X																			
CCB 480-608495/14	1		15:30	X																			
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
ZZZZZZ			15:30																				
480-193337-1	1	T	15:30	X																			
480-193337-2	1	T	15:30	X																			
CCV 480-608495/21	1		15:30	X																			
CCB 480-608495/22	1		15:30	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Genesys Spec 30 Method: 7196A

Start Date: 12/14/2021 14:36 End Date: 12/14/2021 14:36

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cr6																			
CCV 480-608880/1	1		14:36	X																			
CCB 480-608880/2	1		14:36	X																			
MB 480-608880/3	1	T	14:36	X																			
LCS 480-608880/4	1	T	14:36	X																			
ZZZZZZ			14:36																				
ZZZZZZ			14:36																				
ZZZZZZ			14:36																				
ZZZZZZ			14:36																				
ZZZZZZ			14:36																				
ZZZZZZ			14:36																				
ZZZZZZ			14:36																				
ZZZZZZ			14:36																				
CCV 480-608880/13	1		14:36	X																			
CCB 480-608880/14	1		14:36	X																			
ZZZZZZ			14:36																				
ZZZZZZ			14:36																				
ZZZZZZ			14:36																				
ZZZZZZ			14:36																				
ZZZZZZ			14:36																				
CCV 480-608880/20			14:36																				
CCB 480-608880/21			14:36																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: NOEQUIP Method: SM 2120B

Start Date: 12/12/2021 08:48 End Date: 12/12/2021 08:48

Lab Sample ID	D / F	Type	Time	Analytes																			
				Color																			
CCV 480-608517/1	1		08:48	X																			
CCB 480-608517/2	1		08:48	X																			
MB 480-608517/3	1	T	08:48	X																			
LCS 480-608517/4	1	T	08:48	X																			
ZZZZZZ			08:48																				
ZZZZZZ			08:48																				
ZZZZZZ			08:48																				
480-193337-1	1	T	08:48	X																			
480-193337-2	1	T	08:48	X																			
ZZZZZZ			08:48																				
ZZZZZZ			08:48																				
ZZZZZZ			08:48																				
CCV 480-608517/13	1		08:48	X																			
CCB 480-608517/14	1		08:48	X																			
ZZZZZZ			08:48																				
ZZZZZZ			08:48																				
ZZZZZZ			08:48																				
ZZZZZZ			08:48																				
ZZZZZZ			08:48																				
CCV 480-608517/20			08:48																				
CCB 480-608517/21			08:48																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: IC-6 Method: 300.0

Start Date: 12/17/2021 13:48 End Date: 12/18/2021 08:41

Lab Sample ID	D/F	Type	Time	Analytes																			
				Br																			
CCV 480-609280/1	1		13:48	X																			
CCB 480-609280/2	1		14:07	X																			
ZZZZZZ			14:27																				
MB 480-609280/4	1	T	14:46	X																			
ZZZZZZ			15:06																				
ZZZZZZ			15:45																				
ZZZZZZ			16:43																				
ZZZZZZ			17:03																				
ZZZZZZ			17:23																				
CCV 480-609280/13	1		17:42	X																			
CCB 480-609280/14	1		18:02	X																			
ZZZZZZ			19:00																				
ZZZZZZ			19:39																				
ZZZZZZ			19:59																				
ZZZZZZ			20:18																				
ZZZZZZ			20:38																				
ZZZZZZ			20:57																				
ZZZZZZ			21:17																				
CCV 480-609280/25	1		21:36	X																			
CCB 480-609280/26	1		21:56	X																			
LCS 480-609280/27	1	T	22:16	X																			
MB 480-609280/28	1	T	22:35	X																			
ZZZZZZ			22:55																				
ZZZZZZ			23:14																				
ZZZZZZ			23:34																				
ZZZZZZ			23:53																				
ZZZZZZ			00:13																				
ZZZZZZ			00:32																				
ZZZZZZ			00:52																				
ZZZZZZ			01:11																				
CCV 480-609280/37	1		01:31	X																			
CCB 480-609280/38	1		01:51	X																			
ZZZZZZ			02:10																				
ZZZZZZ			02:30																				
480-193337-1	1	T	02:49	X																			
480-193337-2	1	T	03:09	X																			
ZZZZZZ			03:28																				
ZZZZZZ			03:48																				
ZZZZZZ			04:07																				
ZZZZZZ			04:27																				
ZZZZZZ			04:46																				
ZZZZZZ			05:06																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: IC-6 Method: 300.0

Start Date: 12/17/2021 13:48 End Date: 12/18/2021 08:41

Lab Sample ID	D / F	Type	Time	Analytes																				
				Br																				
CCV 480-609280/49	1		05:26	X																				
CCB 480-609280/50	1		05:45	X																				
ZZZZZZ			06:05																					
ZZZZZZ			06:24																					
ZZZZZZ			06:44																					
ZZZZZZ			07:03																					
ZZZZZZ			07:23																					
ZZZZZZ			07:42																					
CCV 480-609280/57			08:02																					
CCB 480-609280/58			08:21																					
ZZZZZZ			08:41																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: LACHAT3 Method: 353.2

Start Date: 12/11/2021 14:02 End Date: 12/11/2021 14:41

Lab Sample ID	D / F	Type	Time	Analytes																			
				NO3																			
ZZZZZZ			14:02																				
ZZZZZZ			14:05																				
ZZZZZZ			14:07																				
ZZZZZZ			14:08																				
ZZZZZZ			14:09																				
ZZZZZZ			14:11																				
ZZZZZZ			14:12																				
ZZZZZZ			14:20																				
480-193337-1	1	T	14:22	X																			
480-193337-2	1	T	14:23	X																			
ZZZZZZ			14:24																				
ZZZZZZ			14:41																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
IC 480-609236/1			19:00	X																			
IC 480-609236/2			19:00	X																			
IC 480-609236/3			19:00	X																			
IC 480-609236/4			19:00	X																			
IC 480-609236/5			19:00	X																			
IC 480-609236/6			19:00	X																			
IC 480-609236/7			19:00	X																			
IC 480-609236/8			19:01	X																			
ICB 480-609236/9	1		19:01	X																			
ICV 480-609236/10	1		19:01	X																			
CCB 480-609236/11			19:53																				
CCV 480-609236/12			19:53																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:57																				
ZZZZZZ			19:57																				
CCB 480-609236/17			19:57																				
CCV 480-609236/18			19:58																				
ZZZZZZ			19:58																				
ZZZZZZ			19:58																				
ZZZZZZ			19:59																				
ZZZZZZ			19:59																				
CCB 480-609236/23			19:59																				
CCV 480-609236/24			19:59																				
ZZZZZZ			20:00																				
ZZZZZZ			20:00																				
ZZZZZZ			20:00																				
CCB 480-609236/28			20:01																				
CCV 480-609236/29			20:01																				
ZZZZZZ			20:01																				
ZZZZZZ			20:02																				
ZZZZZZ			20:03																				
CCB 480-609236/33			20:06																				
CCV 480-609236/34			20:06																				
ZZZZZZ			20:07																				
ZZZZZZ			20:07																				
ZZZZZZ			20:07																				
ZZZZZZ			20:08																				
CCB 480-609236/39			20:09																				
CCV 480-609236/40			20:09																				
ZZZZZZ			20:09																				
ZZZZZZ			20:10																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			20:10																				
ZZZZZZ			20:10																				
CCB 480-609236/45			20:11																				
CCV 480-609236/46			20:11																				
ZZZZZZ			20:11																				
ZZZZZZ			20:11																				
ZZZZZZ			20:13																				
ZZZZZZ			20:13																				
CCB 480-609236/51			20:14																				
CCV 480-609236/52			20:14																				
ZZZZZZ			20:15																				
ZZZZZZ			20:16																				
ZZZZZZ			20:17																				
CCB 480-609236/56			20:17																				
CCV 480-609236/57			20:17																				
ZZZZZZ			20:20																				
ZZZZZZ			20:20																				
ZZZZZZ			20:21																				
ZZZZZZ			20:21																				
CCB 480-609236/62			20:22																				
CCV 480-609236/63			20:22																				
ZZZZZZ			20:24																				
ZZZZZZ			20:24																				
ZZZZZZ			20:24																				
ZZZZZZ			20:25																				
CCB 480-609236/68			20:25																				
CCV 480-609236/69			20:26																				
ZZZZZZ			20:28																				
ZZZZZZ			20:29																				
ZZZZZZ			20:30																				
ZZZZZZ			20:31																				
CCB 480-609236/74			20:31																				
CCV 480-609236/75			20:32																				
ZZZZZZ			20:33																				
ZZZZZZ			20:34																				
ZZZZZZ			20:34																				
ZZZZZZ			20:34																				
CCB 480-609236/80			20:34																				
CCV 480-609236/81			20:35																				
ZZZZZZ			20:35																				
ZZZZZZ			20:35																				
ZZZZZZ			20:35																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			20:36																				
CCB 480-609236/86			20:36																				
CCV 480-609236/87			20:36																				
ZZZZZZ			20:36																				
ZZZZZZ			20:37																				
ZZZZZZ			20:37																				
ZZZZZZ			20:37																				
CCB 480-609236/92			20:38																				
CCV 480-609236/93			20:38																				
ZZZZZZ			20:38																				
ZZZZZZ			20:38																				
ZZZZZZ			20:39																				
CCB 480-609236/97			20:39																				
CCV 480-609236/98			20:39																				
ZZZZZZ			20:41																				
ZZZZZZ			20:41																				
ZZZZZZ			20:42																				
ZZZZZZ			20:43																				
CCB 480-609236/103			20:43																				
CCV 480-609236/104			20:44																				
ZZZZZZ			20:44																				
ZZZZZZ			20:44																				
ZZZZZZ			20:45																				
CCB 480-609236/108			20:45																				
CCV 480-609236/109			20:46																				
ZZZZZZ			20:46																				
ZZZZZZ			20:47																				
ZZZZZZ			20:47																				
ZZZZZZ			20:48																				
CCB 480-609236/114			20:50																				
CCV 480-609236/115			20:50																				
ZZZZZZ			21:01																				
ZZZZZZ			21:02																				
ZZZZZZ			21:02																				
ZZZZZZ			21:02																				
CCB 480-609236/120			21:03																				
CCV 480-609236/121			21:03																				
ZZZZZZ			21:03																				
ZZZZZZ			21:03																				
ZZZZZZ			21:04																				
ZZZZZZ			21:04																				
CCB 480-609236/126			21:04																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
CCV 480-609236/127			21:04																				
ZZZZZZ			21:04																				
ZZZZZZ			21:05																				
ZZZZZZ			21:05																				
CCB 480-609236/131			21:05																				
CCV 480-609236/132			21:05																				
ZZZZZZ			21:05																				
ZZZZZZ			21:06																				
ZZZZZZ			21:06																				
ZZZZZZ			21:06																				
CCB 480-609236/137			21:06																				
CCV 480-609236/138			21:07																				
ZZZZZZ			21:07																				
ZZZZZZ			21:07																				
ZZZZZZ			21:07																				
ZZZZZZ			21:08																				
CCB 480-609236/143			21:08																				
CCV 480-609236/144			21:08																				
ZZZZZZ			21:08																				
ZZZZZZ			21:09																				
ZZZZZZ			21:09																				
ZZZZZZ			21:09																				
CCB 480-609236/149			21:09																				
CCV 480-609236/150			21:09																				
ZZZZZZ			21:10																				
ZZZZZZ			21:11																				
ZZZZZZ			21:12																				
ZZZZZZ			21:12																				
CCB 480-609236/155			21:12																				
CCV 480-609236/156			21:12																				
ZZZZZZ			21:12																				
ZZZZZZ			21:13																				
ZZZZZZ			21:14																				
CCB 480-609236/160	1		21:14	X																			
CCV 480-609236/161	1		21:14	X																			
MB 480-609236/162	1	T	21:16	X																			
LCS 480-609236/163	1	T	21:16	X																			
CCB 480-609236/164	1		01:46	X																			
CCV 480-609236/165	1		01:46	X																			
ZZZZZZ			01:47																				
ZZZZZZ			01:47																				
ZZZZZZ			01:47																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
CCB 480-609236/169			01:48																				
CCV 480-609236/170			01:48																				
ZZZZZZ			01:48																				
ZZZZZZ			01:48																				
ZZZZZZ			01:49																				
ZZZZZZ			01:49																				
CCB 480-609236/175			02:03																				
CCV 480-609236/176			02:03																				
ZZZZZZ			02:04																				
ZZZZZZ			02:04																				
CCB 480-609236/179			02:47																				
CCV 480-609236/180			02:47																				
ZZZZZZ			02:47																				
ZZZZZZ			02:48																				
ZZZZZZ			02:48																				
CCB 480-609236/184	1		02:48	X																			
CCV 480-609236/185	1		02:48	X																			
ZZZZZZ			02:49																				
ZZZZZZ			02:50																				
480-193337-1	1	T	02:50	X																			
CCB 480-609236/189	1		02:50	X																			
CCV 480-609236/190	1		02:51	X																			
480-193337-1 MS	2	T	02:51	X																			
480-193337-1 MSD	2	T	02:52	X																			
480-193337-2	1	T	02:52	X																			
CCB 480-609236/194	1		02:53	X																			
CCV 480-609236/195	1		02:53	X																			
480-193337-2 MSD	2	T	02:55	X																			
ZZZZZZ			02:55																				
ZZZZZZ			02:55																				
CCB 480-609236/199	1		02:55	X																			
CCV 480-609236/200	1		02:56	X																			
ZZZZZZ			02:56																				
ZZZZZZ			02:56																				
ZZZZZZ			02:56																				
CCB 480-609236/204			02:57																				
CCV 480-609236/205			02:57																				
ZZZZZZ			02:57																				
ZZZZZZ			02:59																				
CCB 480-609236/208			02:59																				
CCV 480-609236/209			03:00																				
ZZZZZZ			03:00																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			03:00																				
ZZZZZZ			03:01																				
CCB 480-609236/213			03:01																				
CCV 480-609236/214			03:01																				
ZZZZZZ			03:01																				
ZZZZZZ			03:03																				
ZZZZZZ			03:03																				
ZZZZZZ			03:03																				
CCB 480-609236/219			03:04																				
CCV 480-609236/220			03:04																				
ZZZZZZ			03:04																				
ZZZZZZ			03:05																				
ZZZZZZ			03:05																				
ZZZZZZ			03:05																				
CCB 480-609236/225			03:06																				
CCV 480-609236/226			03:06																				
ZZZZZZ			03:06																				
ZZZZZZ			03:07																				
ZZZZZZ			03:07																				
ZZZZZZ			03:07																				
CCB 480-609236/231			03:07																				
CCV 480-609236/232			03:08																				
ZZZZZZ			03:08																				
ZZZZZZ			03:08																				
ZZZZZZ			03:08																				
ZZZZZZ			03:09																				
CCB 480-609236/237			03:09																				
CCV 480-609236/238			03:09																				
ZZZZZZ			03:09																				
ZZZZZZ			03:10																				
ZZZZZZ			03:10																				
ZZZZZZ			03:10																				
CCB 480-609236/243			03:11																				
CCV 480-609236/244			03:11																				
ZZZZZZ			03:11																				
ZZZZZZ			03:12																				
CCB 480-609236/247			03:12																				
CCV 480-609236/248			03:13																				
ZZZZZZ			03:13																				
ZZZZZZ			03:13																				
ZZZZZZ			03:13																				
ZZZZZZ			03:14																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
CCB 480-609236/253			03:14																				
CCV 480-609236/254			03:14																				
ZZZZZZ			03:15																				
ZZZZZZ			03:16																				
ZZZZZZ			03:19																				
ZZZZZZ			03:20																				
CCB 480-609236/259			03:20																				
CCV 480-609236/260			03:20																				
ZZZZZZ			03:21																				
ZZZZZZ			03:21																				
ZZZZZZ			03:21																				
CCB 480-609236/264			03:22																				
CCV 480-609236/265			03:22																				
ZZZZZZ			03:22																				
ZZZZZZ			03:23																				
ZZZZZZ			03:24																				
ZZZZZZ			03:24																				
CCB 480-609236/270			03:24																				
CCV 480-609236/271			03:24																				
ZZZZZZ			03:25																				
ZZZZZZ			03:26																				
ZZZZZZ			03:27																				
CCB 480-609236/275			03:27																				
CCV 480-609236/276			03:27																				
ZZZZZZ			03:27																				
ZZZZZZ			03:28																				
ZZZZZZ			03:29																				
ZZZZZZ			03:30																				
CCB 480-609236/281			03:30																				
CCV 480-609236/282			03:31																				
ZZZZZZ			03:31																				
ZZZZZZ			03:31																				
ZZZZZZ			03:32																				
ZZZZZZ			03:32																				
CCB 480-609236/287			03:33																				
CCV 480-609236/288			03:33																				
ZZZZZZ			03:33																				
ZZZZZZ			03:34																				
ZZZZZZ			03:34																				
ZZZZZZ			03:35																				
CCB 480-609236/293			03:36																				
CCV 480-609236/294			03:36																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			03:36																				
ZZZZZZ			03:37																				
ZZZZZZ			03:38																				
ZZZZZZ			03:38																				
CCB 480-609236/299			03:38																				
CCV 480-609236/300			03:38																				
ZZZZZZ			03:39																				
ZZZZZZ			03:39																				
ZZZZZZ			03:39																				
CCB 480-609236/304			03:40																				
CCV 480-609236/305			03:40																				
ZZZZZZ			03:40																				
ZZZZZZ			03:41																				
ZZZZZZ			03:43																				
ZZZZZZ			03:45																				
CCB 480-609236/310			03:45																				
CCV 480-609236/311			03:46																				
ZZZZZZ			03:46																				
ZZZZZZ			03:47																				
CCB 480-609236/314			03:47																				
CCV 480-609236/315			03:47																				
ZZZZZZ			03:48																				
ZZZZZZ			03:48																				
ZZZZZZ			03:48																				
ZZZZZZ			03:49																				
CCB 480-609236/320	1		03:58	X																			
CCV 480-609236/321	1		03:58	X																			
480-193337-2 MS	2	T	03:59	X																			
CCB 480-609236/323	1		03:59	X																			
CCV 480-609236/324	1		03:59	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Balance-3 Method: SM 2540C

Start Date: 12/14/2021 11:17 End Date: 12/14/2021 11:17

Lab Sample ID	D / F	Type	Time	Analytes																			
				TDS																			
MB 480-608781/1	1	T	11:17	X																			
LCS 480-608781/2	1	T	11:17	X																			
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
ZZZZZZ			11:17																				
480-193337-1	1	T	11:17	X																			
480-193337-2	1	T	11:17	X																			
480-193337-2 DU	1	T	11:17	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				CL-																			
ZZZZZZ			17:57																				
ZZZZZZ			17:57																				
ZZZZZZ			17:57																				
ZZZZZZ			17:58																				
ZZZZZZ			17:58																				
ZZZZZZ			17:58																				
ZZZZZZ			17:58																				
ICB 480-608717/8	1		17:59	X																			
CCB 480-608717/9			19:09																				
CCV 480-608717/10			19:10																				
ZZZZZZ			19:10																				
ZZZZZZ			19:10																				
ZZZZZZ			19:11																				
ZZZZZZ			19:11																				
ZZZZZZ			19:11																				
ZZZZZZ			19:12																				
ZZZZZZ			19:12																				
ZZZZZZ			19:13																				
CCB 480-608717/19			19:13																				
CCV 480-608717/20			19:13																				
ZZZZZZ			19:14																				
ZZZZZZ			19:14																				
ZZZZZZ			19:14																				
ZZZZZZ			19:15																				
ZZZZZZ			19:15																				
ZZZZZZ			19:16																				
ZZZZZZ			19:16																				
CCB 480-608717/28			19:17																				
CCV 480-608717/29			19:17																				
ZZZZZZ			19:17																				
ZZZZZZ			19:18																				
ZZZZZZ			19:18																				
ZZZZZZ			19:18																				
ZZZZZZ			19:18																				
ZZZZZZ			19:19																				
ZZZZZZ			19:19																				
ZZZZZZ			19:20																				
ZZZZZZ			19:20																				
ZZZZZZ			19:20																				
CCB 480-608717/40			19:21																				
CCV 480-608717/41			19:21																				
ZZZZZZ			19:22																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			19:22																				
ZZZZZZ			19:23																				
ZZZZZZ			19:23																				
ZZZZZZ			19:24																				
ZZZZZZ			19:24																				
ZZZZZZ			19:24																				
ZZZZZZ			19:24																				
CCB 480-608717/50			19:25																				
CCV 480-608717/51			19:26																				
ZZZZZZ			19:26																				
ZZZZZZ			19:26																				
ZZZZZZ			19:27																				
ZZZZZZ			19:27																				
ZZZZZZ			19:27																				
ZZZZZZ			19:28																				
ZZZZZZ			19:31																				
ZZZZZZ			19:37																				
CCB 480-608717/60			19:37																				
CCV 480-608717/61			19:38																				
ZZZZZZ			19:38																				
ZZZZZZ			19:38																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:40																				
ZZZZZZ			19:40																				
ZZZZZZ			19:40																				
ZZZZZZ			19:41																				
ZZZZZZ			19:41																				
CCB 480-608717/72			19:44																				
CCV 480-608717/73			19:44																				
ZZZZZZ			19:44																				
ZZZZZZ			19:45																				
ZZZZZZ			19:49																				
ZZZZZZ			19:50																				
CCB 480-608717/78			19:50																				
CCV 480-608717/79			19:51																				
ZZZZZZ			19:51																				
ZZZZZZ			19:51																				
ZZZZZZ			19:51																				
ZZZZZZ			19:52																				
ZZZZZZ			19:52																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				CL-																			
ZZZZZZ			19:52																				
ZZZZZZ			19:53																				
ZZZZZZ			19:53																				
ZZZZZZ			19:54																				
ZZZZZZ			19:54																				
CCB 480-608717/90			19:55																				
CCV 480-608717/91			19:55																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			20:01																				
ZZZZZZ			20:01																				
ZZZZZZ			20:04																				
ZZZZZZ			20:05																				
ZZZZZZ			20:05																				
CCB 480-608717/100			20:06																				
CCV 480-608717/101			20:06																				
ZZZZZZ			20:06																				
ZZZZZZ			20:06																				
ZZZZZZ			20:07																				
ZZZZZZ			20:07																				
ZZZZZZ			20:07																				
ZZZZZZ			20:08																				
ZZZZZZ			20:08																				
ZZZZZZ			20:08																				
ZZZZZZ			20:09																				
ZZZZZZ			20:09																				
CCB 480-608717/112			20:10																				
CCV 480-608717/113			20:10																				
ZZZZZZ			20:11																				
ZZZZZZ			20:11																				
ZZZZZZ			20:11																				
ZZZZZZ			20:12																				
ZZZZZZ			20:12																				
ZZZZZZ			20:12																				
ZZZZZZ			20:12																				
ZZZZZZ			20:13																				
ZZZZZZ			20:13																				
ZZZZZZ			20:17																				
CCB 480-608717/124			20:17																				
CCV 480-608717/125			20:18																				
ZZZZZZ			20:18																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			20:18																				
ZZZZZZ			20:19																				
ZZZZZZ			20:19																				
ZZZZZZ			20:21																				
ZZZZZZ			20:21																				
ZZZZZZ			20:27																				
ZZZZZZ			20:27																				
ZZZZZZ			20:31																				
CCB 480-608717/135			20:31																				
CCV 480-608717/136			20:32																				
ZZZZZZ			20:32																				
ZZZZZZ			20:32																				
ZZZZZZ			20:37																				
ZZZZZZ			05:00																				
ZZZZZZ			05:01																				
ZZZZZZ			05:01																				
ZZZZZZ			05:01																				
ZZZZZZ			05:02																				
ZZZZZZ			05:02																				
CCB 480-608717/146			05:02																				
CCV 480-608717/147			05:03																				
ZZZZZZ			05:03																				
ZZZZZZ			05:03																				
ZZZZZZ			05:04																				
ZZZZZZ			05:04																				
ZZZZZZ			05:04																				
ZZZZZZ			05:10																				
ZZZZZZ			05:19																				
CCB 480-608717/155			05:56																				
CCV 480-608717/156			05:56																				
ZZZZZZ			05:56																				
ZZZZZZ			05:57																				
ZZZZZZ			05:58																				
ZZZZZZ			05:58																				
ZZZZZZ			05:58																				
ZZZZZZ			05:59																				
ZZZZZZ			05:59																				
ZZZZZZ			06:01																				
ZZZZZZ			06:01																				
ZZZZZZ			06:01																				
CCB 480-608717/167			06:03																				
CCV 480-608717/168			06:03																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			06:04																				
ZZZZZZ			06:04																				
ZZZZZZ			06:06																				
ZZZZZZ			06:06																				
ZZZZZZ			06:07																				
ZZZZZZ			06:07																				
ZZZZZZ			06:07																				
ZZZZZZ			06:16																				
ZZZZZZ			06:16																				
CCB 480-608717/178			06:16																				
CCV 480-608717/179			06:17																				
ZZZZZZ			06:17																				
ZZZZZZ			06:17																				
ZZZZZZ			06:19																				
ZZZZZZ			06:20																				
CCB 480-608717/184			06:22																				
CCV 480-608717/185			06:23																				
ZZZZZZ			06:23																				
ZZZZZZ			06:23																				
ZZZZZZ			06:25																				
ZZZZZZ			06:25																				
ZZZZZZ			06:26																				
ZZZZZZ			06:28																				
ZZZZZZ			06:29																				
ZZZZZZ			06:32																				
ZZZZZZ			06:32																				
ZZZZZZ			06:32																				
CCB 480-608717/196			06:33																				
CCV 480-608717/197			06:34																				
ZZZZZZ			06:34																				
ZZZZZZ			06:34																				
ZZZZZZ			06:35																				
ZZZZZZ			06:35																				
ZZZZZZ			06:35																				
CCB 480-608717/203			06:36																				
CCV 480-608717/204			06:37																				
ZZZZZZ			06:37																				
ZZZZZZ			06:38																				
ZZZZZZ			06:39																				
ZZZZZZ			06:39																				
ZZZZZZ			06:39																				
ZZZZZZ			06:40																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			06:40																				
ZZZZZZ			06:40																				
ZZZZZZ			06:41																				
ZZZZZZ			06:41																				
CCB 480-608717/215			06:41																				
CCV 480-608717/216			06:42																				
ZZZZZZ			06:42																				
ZZZZZZ			06:42																				
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
ZZZZZZ			06:44																				
ZZZZZZ			06:46																				
ZZZZZZ			06:46																				
ZZZZZZ			06:48																				
CCB 480-608717/226			06:48																				
CCV 480-608717/227			06:49																				
ZZZZZZ			06:49																				
ZZZZZZ			06:49																				
ZZZZZZ			06:50																				
ZZZZZZ			06:51																				
ZZZZZZ			06:51																				
ZZZZZZ			06:51																				
ZZZZZZ			06:55																				
ZZZZZZ			06:55																				
CCB 480-608717/236	1		06:56	X																			
CCV 480-608717/237	1		06:57	X																			
ZZZZZZ			06:57																				
MB 480-608717/239	1	T	06:57	X																			
ZZZZZZ			06:58																				
ZZZZZZ			06:58																				
ZZZZZZ			06:58																				
ZZZZZZ			06:59																				
ZZZZZZ			06:59																				
CCB 480-608717/245	1		07:02	X																			
CCV 480-608717/246	1		07:02	X																			
LCS 480-608717/247	1	T	07:03	X																			
MB 480-608717/248	1	T	07:03	X																			
ZZZZZZ			07:03																				
ZZZZZZ			07:04																				
ZZZZZZ			07:04																				
ZZZZZZ			07:06																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				CL-																			
ZZZZZZ			07:06																				
ZZZZZZ			07:07																				
ZZZZZZ			07:07																				
ZZZZZZ			07:07																				
CCB 480-608717/257	1		07:08	X																			
CCV 480-608717/258	1		07:08	X																			
LCS 480-608717/259	1	T	07:08	X																			
MB 480-608717/260	1	T	07:09	X																			
ZZZZZZ			07:09																				
ZZZZZZ			07:11																				
480-193337-1	1	T	07:13	X																			
480-193337-2	1	T	07:13	X																			
ZZZZZZ			07:14																				
ZZZZZZ			07:15																				
ZZZZZZ			07:15																				
ZZZZZZ			07:16																				
CCB 480-608717/269	1		07:16	X																			
CCV 480-608717/270	1		07:17	X																			
ZZZZZZ			07:18																				
ZZZZZZ			07:18																				
ZZZZZZ			07:20																				
ZZZZZZ			07:20																				
ZZZZZZ			07:20																				
ZZZZZZ			07:21																				
ZZZZZZ			07:21																				
CCB 480-608717/278			07:22																				
CCV 480-608717/279			07:22																				
ZZZZZZ			07:22																				
ZZZZZZ			07:22																				
ZZZZZZ			07:23																				
ZZZZZZ			07:23																				
ZZZZZZ			07:23																				
ZZZZZZ			07:24																				
ZZZZZZ			07:24																				
ZZZZZZ			07:25																				
ZZZZZZ			07:25																				
ZZZZZZ			07:25																				
CCB 480-608717/290			07:26																				
CCV 480-608717/291			07:26																				
ZZZZZZ			07:26																				
ZZZZZZ			07:27																				
CCB 480-608717/294			07:42																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
CCV 480-608717/295			07:42																				
ZZZZZZ			07:43																				
ZZZZZZ			07:43																				
ZZZZZZ			07:43																				
ZZZZZZ			07:43																				
ZZZZZZ			07:44																				
ZZZZZZ			07:44																				
ZZZZZZ			07:44																				
CCB 480-608717/303			07:45																				
CCV 480-608717/304			07:45																				
ZZZZZZ			07:45																				
ZZZZZZ			07:46																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: NOEQUIP Method: SM 5210B

Start Date: 12/11/2021 17:24 End Date: 12/11/2021 17:24

Lab Sample ID	D / F	Type	Time	Analytes																				
				BOD																				
MB 480-608499/1	1	T	17:24	X																				
LCS 480-608499/2	1	T	17:24	X																				
ZZZZZZ			17:24																					
ZZZZZZ			17:24																					
ZZZZZZ			17:24																					
ZZZZZZ			17:24																					
ZZZZZZ			17:24																					
ZZZZZZ			17:24																					
ZZZZZZ			17:24																					
ZZZZZZ			17:24																					
ZZZZZZ			17:24																					
ZZZZZZ			17:24																					
480-193337-1	1	T	17:24	X																				
480-193337-2	1	T	17:24	X																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: TOC10301 Method: SM 5310C

Start Date: 12/14/2021 16:08 End Date: 12/15/2021 10:17

Lab Sample ID	D/F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
RINSE 480-608965/1			16:08																					
CCV 480-608965/2	1		16:23	X	X	X																		
CCB 480-608965/3	1		16:38	X	X	X																		
MB 480-608965/4	1	T	16:53	X	X	X																		
LCS 480-608965/5	1	T	17:09	X	X	X																		
ZZZZZZ			17:24																					
ZZZZZZ			17:39																					
ZZZZZZ			17:54																					
ZZZZZZ			18:09																					
ZZZZZZ			18:24																					
ZZZZZZ			18:40																					
ZZZZZZ			18:55																					
ZZZZZZ			19:11																					
CCV 480-608965/14	1		19:26	X	X	X																		
CCB 480-608965/15	1		19:42	X	X	X																		
ZZZZZZ			19:56																					
ZZZZZZ			20:12																					
ZZZZZZ			20:27																					
ZZZZZZ			20:43																					
ZZZZZZ			20:58																					
ZZZZZZ			21:13																					
ZZZZZZ			21:29																					
ZZZZZZ			21:44																					
480-193337-1	1	T	21:59	X	X	X																		
480-193337-2	1	T	22:15	X	X	X																		
CCV 480-608965/26	1		22:30	X	X	X																		
CCB 480-608965/27	1		22:45	X	X	X																		
ZZZZZZ			23:01																					
ZZZZZZ			23:16																					
ZZZZZZ			23:31																					
ZZZZZZ			23:46																					
ZZZZZZ			00:01																					
ZZZZZZ			00:17																					
ZZZZZZ			00:32																					
ZZZZZZ			00:47																					
ZZZZZZ			01:02																					
ZZZZZZ			01:18																					
CCV 480-608965/38			01:34																					
CCB 480-608965/39			01:49																					
ZZZZZZ			02:04																					
ZZZZZZ			02:19																					
ZZZZZZ			02:35																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Instrument ID: TOC10301 Method: SM 5310C

Start Date: 12/14/2021 16:08 End Date: 12/15/2021 10:17

Lab Sample ID	D/F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
ZZZZZZ			02:50																					
ZZZZZZ			03:05																					
ZZZZZZ			03:21																					
ZZZZZZ			03:36																					
ZZZZZZ			03:51																					
ZZZZZZ			04:07																					
ZZZZZZ			04:22																					
CCV 480-608965/50			04:38																					
CCB 480-608965/51			04:53																					
ZZZZZZ			05:09																					
ZZZZZZ			05:24																					
ZZZZZZ			05:39																					
ZZZZZZ			05:54																					
ZZZZZZ			06:09																					
ZZZZZZ			06:25																					
ZZZZZZ			06:41																					
ZZZZZZ			06:56																					
ZZZZZZ			07:12																					
ZZZZZZ			07:27																					
CCV 480-608965/62			07:42																					
CCB 480-608965/63			07:58																					
ZZZZZZ			08:13																					
ZZZZZZ			08:29																					
ZZZZZZ			08:44																					
ZZZZZZ			09:00																					
ZZZZZZ			09:15																					
ZZZZZZ			09:30																					
CCV 480-608965/70			09:45																					
CCB 480-608965/71			10:01																					
CCVL 480-608965/72			10:17																					

Prep Types

T = Total/NA

General Chemistry Raw Data Report

Job ID: 480-193337-1
SDG: 193337

Batch: 609052 **Analyst Initials: CSS**
Method: 410.4 **Instrument: Manual Spec**

Lab Sample ID: CCV 480-609052/73

Analysis Date: Dec 15, 2021 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.220	74.90000	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-609052/74

Analysis Date: Dec 15, 2021 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.449	-2.960000	mg/L	2 mL	2 mL

Lab Sample ID: MB 480-609052/75

Analysis Date: Dec 15, 2021 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.446	-1.940000	mg/L	2 mL	2 mL

Lab Sample ID: LCS 480-609052/76

Analysis Date: Dec 15, 2021 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.369	24.24000	mg/L	2 mL	2 mL

Lab Sample ID: CCV 480-609052/85

Analysis Date: Dec 15, 2021 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.218	75.58000	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-609052/86

Analysis Date: Dec 15, 2021 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.444	-1.260000	mg/L	2 mL	2 mL

Lab Sample ID: 480-193337-C-1

Analysis Date: Dec 15, 2021 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.445	-1.600000	mg/L	2 mL	2 mL

Lab Sample ID: 480-193337-C-1 MS

Analysis Date: Dec 15, 2021 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.259	61.64000	mg/L	2 mL	2 mL

Lab Sample ID: 480-193337-C-2

Analysis Date: Dec 15, 2021 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.450	-3.300000	mg/L	2 mL	2 mL

Lab Sample ID: CCV 480-609052/97

Analysis Date: Dec 15, 2021 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.218	75.58000	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-609052/98

Analysis Date: Dec 15, 2021 18:00

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.450	-3.300000	mg/L	2 mL	2 mL

General Chemistry Raw Data Report

Job ID: 480-193337-1
SDG: 193337

Batch: 608495 **Analyst Initials: RJM**
Method: 7196A **Instrument: Manual Spec**

Lab Sample ID: CCV 480-608495/1 **Analysis Date: Dec 11, 2021 15:30**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0440	0.056463000	mg/L	25 mL	25 mL

Lab Sample ID: CCB 480-608495/2 **Analysis Date: Dec 11, 2021 15:30**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0020	0.0016110000	mg/L	25 mL	25 mL

Lab Sample ID: MB 480-608495/3 **Analysis Date: Dec 11, 2021 15:30**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0020	0.0016110000	mg/L	25 mL	25 mL

Lab Sample ID: LCS 480-608495/4 **Analysis Date: Dec 11, 2021 15:30**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0440	0.056463000	mg/L	25 mL	25 mL

Lab Sample ID: CCV 480-608495/13 **Analysis Date: Dec 11, 2021 15:30**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0430	0.055157000	mg/L	25 mL	25 mL

Lab Sample ID: CCB 480-608495/14 **Analysis Date: Dec 11, 2021 15:30**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0020	0.0016110000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193337-L-1 **Analysis Date: Dec 11, 2021 15:30**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0080	0.0094470000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193337-L-2 **Analysis Date: Dec 11, 2021 15:30**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0020	0.0016110000	mg/L	25 mL	25 mL

Lab Sample ID: CCV 480-608495/21 **Analysis Date: Dec 11, 2021 15:30**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0440	0.056463000	mg/L	25 mL	25 mL

Lab Sample ID: CCB 480-608495/22 **Analysis Date: Dec 11, 2021 15:30**

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0020	0.0016110000	mg/L	25 mL	25 mL

Batch: 608880
Method: 7196A

Analyst Initials: RJM
Instrument: Manual Spec

Lab Sample ID: CCV 480-608880/1

Analysis Date: Dec 14, 2021 14:36

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0420	0.053851000	mg/L	25 mL	25 mL

Lab Sample ID: CCB 480-608880/2

Analysis Date: Dec 14, 2021 14:36

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: MB 480-608880/3

Analysis Date: Dec 14, 2021 14:36

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: LCS 480-608880/4

Analysis Date: Dec 14, 2021 14:36

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0420	0.053851000	mg/L	25 mL	25 mL

Lab Sample ID: CCV 480-608880/13

Analysis Date: Dec 14, 2021 14:36

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0420	0.053851000	mg/L	25 mL	25 mL

Lab Sample ID: CCB 480-608880/14

Analysis Date: Dec 14, 2021 14:36

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Batch: 608517
Method: SM 2120B

Analyst Initials: MJB
Instrument: No Equipment Used for this Test

Lab Sample ID: CCV 480-608517/1

Analysis Date: Dec 12, 2021 08:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: CCB 480-608517/2

Analysis Date: Dec 12, 2021 08:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Lab Sample ID: MB 480-608517/3

Analysis Date: Dec 12, 2021 08:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Lab Sample ID: LCS 480-608517/4

Analysis Date: Dec 12, 2021 08:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Batch: 608517 (Continued)
Method: SM 2120B

Analyst Initials: MJB
Instrument: No Equipment Used for this Test

Lab Sample ID: 480-193337-L-1

Analysis Date: Dec 12, 2021 08:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	5	Color Units	50 mL	50 mL

Lab Sample ID: 480-193337-L-2

Analysis Date: Dec 12, 2021 08:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Lab Sample ID: CCV 480-608517/13

Analysis Date: Dec 12, 2021 08:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: CCB 480-608517/14

Analysis Date: Dec 12, 2021 08:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Batch: 608493
Method: 353.2

Analyst Initials: PRD
Instrument: Lachat QuickChem 8500

Lab Sample ID: 480-193337-J-1

Analysis Date: Dec 11, 2021 14:22

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Lab Sample ID: 480-193337-J-2

Analysis Date: Dec 11, 2021 14:23

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Batch: 608781
Method: SM 2540C

Analyst Initials: JGO
Instrument: Balance-3

Lab Sample ID: MB 480-608781/1

Analysis Date: Dec 14, 2021 11:17

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	3	mg/L	100 mL	100 mL

Lab Sample ID: LCS 480-608781/2

Analysis Date: Dec 14, 2021 11:17

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	526	mg/L	100 mL	100 mL

Lab Sample ID: 480-193337-B-1

Analysis Date: Dec 14, 2021 11:17

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	206	mg/L	100 mL	100 mL

Batch: 608781 (Continued)
Method: SM 2540C

Analyst Initials: JGO
Instrument: Balance-3

Lab Sample ID: 480-193337-B-2

Analysis Date: Dec 14, 2021 11:17

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	212	mg/L	100 mL	100 mL

Lab Sample ID: 480-193337-B-2 DU

Analysis Date: Dec 14, 2021 11:17

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	198	mg/L	100 mL	100 mL

Batch: 608499
Method: SM 5210B

Analyst Initials: RJM
Instrument: No Equipment Used for this Test

Lab Sample ID: MB 480-608499/1

Analysis Date: Dec 11, 2021 17:24

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	-.28	mg/L	300 mL	300 mL

Lab Sample ID: LCS 480-608499/2

Analysis Date: Dec 11, 2021 17:24

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	176.23	mg/L	300 mL	300 mL

Lab Sample ID: 480-193337-A-1

Analysis Date: Dec 11, 2021 17:24

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<.15	mg/L	300 mL	300 mL

Lab Sample ID: 480-193337-A-2

Analysis Date: Dec 11, 2021 17:24

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<.71	mg/L	300 mL	300 mL

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Wet Chemistry Dept

Analysis: Alkalinity

Method: 310.2

Analyst/Primary Reviewer: SRW

Secondary Reviewer: _____

Date of Analytical Run: 12/15/21

Date of Primary Review: 12/16/21

Date of Secondary Review: _____

Prep Batch Number					
Analytical Batch Number	609054				

Criteria for QC	1st Level	2nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, r > or = 0.995, pH meter slope 90-110% (if applicable)	Y			
Was Data Imported Y Manually Entered ____ Balance Interface Used ____	Impt			
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Y			
Were the ICB, CCB and MB all <RL?	Y			
Was there a CCV/CCB combination run after every 10 samples or less?	Y			
Was there an LCS run with every batch of 20 samples or less?	Y			
Was there a DU, MS or MSD run with every batch of 20 samples or less?	Y			
Were all MS/MSD results within acceptable limits for QC recovery?	N			
Were all DU or MSD RPDs within acceptable limits for QC recovery?	Y			
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	Y			
Are dilution factors all present and correct?	Y			
Do all entries match raw data?	Y			
Were there any holding time violations in this batch?	N			**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y			
Were any NCMs needed in the batch?				NCM #s:
Data scanned in?	Y			

Alkalinity

310.2

1000 PPM	(MS/MSD/CAL)	6791877	EXP: 02/22/2022
50 PPM	(CCV/LCS)	6791927	EXP: 02/22/2022
Alk. Mix:		6819148	EXP: 12/16/2021
3.1 Buffer		6808866	EXP: 12/16/2021
Methyl orange		6791876	EXP: 12/20/2021
ERA Minerals (ICV):		6318066	EXP: 04/01/2023
Actual = 32.3 MG/L			
RANGE = 29.3 – 34.9 MG/L			

CURVE:

Kone 1: 06-13-2019 — Batch: 478010
100 ppm: 5352372

Kone 2: 06-23-2020 — Batch: 537780
100 ppm: 5986445

Kone 3: 01-28-2020 — Batch: 515266
100 ppm: 5749493

Gallery 1: 11-22-2021 — Batch: 606148
100 ppm: 6791932

Calibration results

ALK Version number 1.4

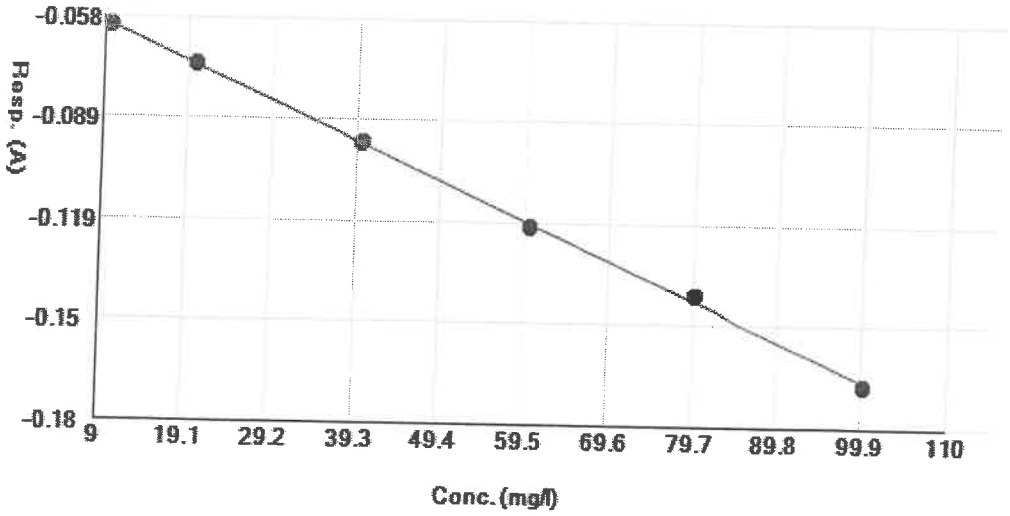
Date 12/15/2021 **User** BufGallery1

Time 7:47:16PM **Software version: 6.0.2**

Analyzer name Analyzer 1

Test	ALK	**Coeff. of deter.**	0.999317
Status	Accepted	**Total factor**	-851.125
Accepted	11/22/2021 7:46 PM		
Checked	11/22/2021 7:46 PM	Zero-order factor	-0.049
User name	Administrator	1st order factor	-0.001
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
ALK 10	-0.061	10.171	10.000	Default	
ALK 20	-0.072	19.961	20.000	Default	
ALK 40	-0.095	39.755	40.000	Default	
ALK 60	-0.120	60.866	60.000	Default	
ALK 80	-0.141	78.391	80.000	Default	
ALK 100	-0.167	100.856	100.000	Default	
ALK ICV	-0.085	30.85	50.00	Default	QC, Rule 1 violated
ICB	-0.047	-1.28	0.00	Default	Outside calibration



Water blank results

Date 12/15/2021 **User** BufGallery1

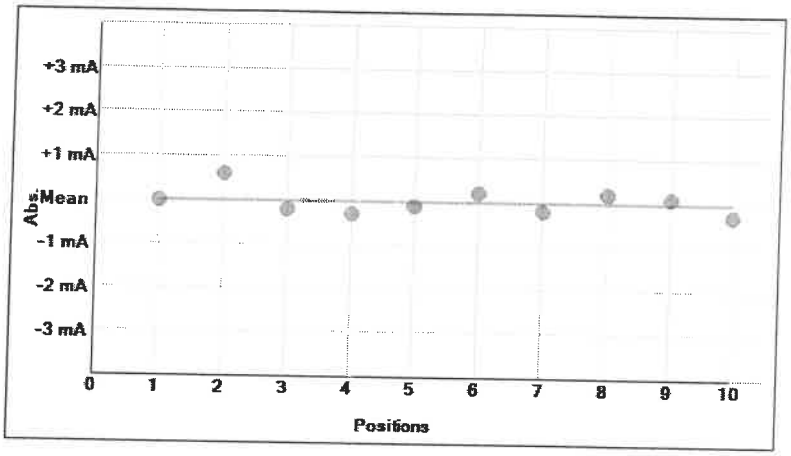
Time 9:06:43PM **Software version: 6.0.2**

Measurement time
12/15/2021 5:51 PM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1003.4**	**0.3**
420	-1036.3	0.2
480	-1046.9	0.1
510	-1050.4	0.1
540	-1054.0	0.1
575	-1057.1	0.1
600	-1058.5	0.1
620	-1059.9	0.1
660	-1062.3	0.1
700	-1063.5	0.1
880	-1046.9	0.2

340



609054

Results by Test

Date 12/16/2021 **User** BufGallery1

Time 2:45:43AM **Software version: 6.0.2**

Test name ALK

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
5	era	1.4	33.69	mg/l		0.0	man acc	
6	CCB	1.4	1.10	mg/l		0.0	man acc	Outside calibration
7	CCV ALK	1.4	49.56	mg/l		0.0	man acc	
8	LCS ALK	1.4	53.27	mg/l		0.0	man acc	
9	MB	1.4	-3.96	mg/l		0.0	man acc	Outside calibration
14	480-192989-B-6	1.4	240.98	mg/l		2.0	man acc	
15	480-193008-E-1	1.4	225.62	mg/l		2.0	man acc	
18	480-193124-B-1	1.4	446.73	mg/l		4.0	man acc	
19	480-193124-B-2	1.4	214.41	mg/l		2.0	man acc	
20	ms480-193124-B-2	1.4	228.63	mg/l		2.0	man acc	
21	msd480-193124-B-	1.4	208.72	mg/l		2.0	man acc	
22	CCB	1.4	-1.20	mg/l		0.0	man acc	Outside calibration
23	CCV ALK	1.4	52.36	mg/l		0.0	man acc	
24	LCS ALK	1.4	52.47	mg/l		0.0	man acc	
25	MB	1.4	7.28	mg/l		0.0	man acc	Outside calibration
26	480-193124-B-3	1.4	208.18	mg/l		2.0	man acc	
27	ms480-193124-B-3	1.4	222.50	mg/l		2.0	man acc	
28	msd480-193124-B-	1.4	222.77	mg/l		2.0	man acc	
29	480-193124-B-4	1.4	205.59	mg/l		3.0	man acc	
30	480-193124-B-5	1.4	352.93	mg/l		3.0	man acc	
31	480-193124-B-6	1.4	177.57	mg/l		2.0	man acc	
32	480-193124-B-7	1.4	573.52	mg/l		6.0	man acc	
33	480-193124-B-8	1.4	263.05	mg/l		2.0	man acc	
34	CCB	1.4	4.14	mg/l		0.0	man acc	Outside calibration
35	CCV ALK	1.4	52.68	mg/l		0.0	man acc	
36	LCS ALK	1.4	51.91	mg/l		0.0	man acc	
37	MB	1.4	6.41	mg/l		0.0	man acc	Outside calibration
38	480-193124-B-9	1.4	491.59	mg/l		5.0	man acc	
39	480-193124-B-10	1.4	86.82	mg/l		0.0	man acc	
40	480-193124-B-11	1.4	163.11	mg/l		2.0	man acc	
41	ms480-193124-B-1	1.4	138.30	mg/l		2.0	man acc	
42	msd480-193124-B-	1.4	151.70	mg/l		2.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
43	480-193127-D-1	1.4	868.91	mg/l		14.0	man acc	
44	CCB	1.4	2.75	mg/l		0.0	man acc	Outside calibration
45	CCV ALK	1.4	52.42	mg/l		0.0	man acc	
46	LCS ALK	1.4	52.38	mg/l		0.0	man acc	
47	MB	1.4	1.87	mg/l		0.0	man acc	Outside calibration
48	480-193127-D-2	1.4	1,489.38	mg/l		19.0	man acc	
49	480-193127-D-3	1.4	1,658.60	mg/l		19.0	man acc	
50	480-193138-D-1	1.4	3,426.91	mg/l		39.0	man acc	
51	480-193173-D-2	1.4	8,502.69	mg/l		99.0	man acc	
52	480-193199-G-1	1.4	945.50	mg/l		9.0	man acc	
53	480-193199-G-2	1.4	660.71	mg/l		7.0	man acc	
54	CCB	1.4	3.16	mg/l		0.0	man acc	Outside calibration
56	CCV ALK	1.4	53.77	mg/l		0.0	man acc	
59	LCS ALK	1.4	52.34	mg/l		0.0	man acc	
60	MB	1.4	0.68	mg/l		0.0	man acc	Outside calibration
61	480-193099-L-8	1.4	126.73	mg/l		1.0	man acc	
62	480-193099-L-9	1.4	167.08	mg/l		1.0	man acc	
63	msd480-193199-G-	1.4	388.76	mg/l		4.0	man acc	
64	480-193199-G-5	1.4	2,456.88	mg/l		29.0	man acc	
65	480-193199-G-6	1.4	266.59	mg/l		3.0	man acc	
66	CCB	1.4	-3.56	mg/l		0.0	man acc	Outside calibration
71	CCV ALK	1.4	49.84	mg/l		0.0	man acc	
72	LCS ALK	1.4	51.46	mg/l		0.0	man acc	
73	MB	1.4	-0.42	mg/l		0.0	man acc	Outside calibration
74	480-193203-G-2	1.4	369.23	mg/l		4.0	man acc	
75	480-193206-K-1	1.4	176.35	mg/l		2.0	man acc	
76	ms480-193206-K-1	1.4	177.19	mg/l		2.0	man acc	
77	msd480-193206-K-	1.4	185.66	mg/l		2.0	man acc	
78	480-193206-K-2	1.4	244.45	mg/l		3.0	man acc	
79	480-193206-K-5	1.4	139.48	mg/l		3.0	man acc	
80	480-193206-K-6	1.4	466.24	mg/l		4.0	man acc	
81	480-193206-K-7	1.4	133.19	mg/l		2.0	man acc	
82	CCB	1.4	3.25	mg/l		0.0	man acc	Outside calibration
83	CCV ALK	1.4	48.87	mg/l		0.0	man acc	
84	LCS ALK	1.4	48.64	mg/l		0.0	man acc	
85	MB	1.4	-0.38	mg/l		0.0	man acc	Outside calibration
86	480-193206-K-8	1.4	175.76	mg/l		2.0	man acc	
87	ms480-193206-K-8	1.4	174.00	mg/l		2.0	man acc	
88	msd480-193206-K-	1.4	171.78	mg/l		2.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
90	480-193206-K-11	1.4	145.65	mg/l		1.0	man acc	
91	480-193206-K-12	1.4	134.00	mg/l		1.0	man acc	
93	480-193237-E-1	1.4	3,890.60	mg/l		39.0	man acc	
94	CCB	1.4	2.57	mg/l		0.0	man acc	Outside calibration
95	CCV ALK	1.4	51.93	mg/l		0.0	man acc	
96	LCS ALK	1.4	51.43	mg/l		0.0	man acc	
97	MB	1.4	-1.26	mg/l		0.0	man acc	Outside calibration
98	480-193238-E-1	1.4	7,638.09	mg/l		99.0	man acc	
100	480-193239-C-2	1.4	434.12	mg/l		4.0	man acc	
102	480-193239-C-4	1.4	351.95	mg/l		4.0	man acc	
103	480-193239-C-5	1.4	377.64	mg/l		4.0	man acc	
104	480-193239-C-6	1.4	364.18	mg/l		4.0	man acc	
105	480-193239-C-7	1.4	355.49	mg/l		4.0	man acc	
106	CCB	1.4	-1.03	mg/l		0.0	man acc	Outside calibration
107	CCV ALK	1.4	50.69	mg/l		0.0	man acc	
108	LCS ALK	1.4	50.09	mg/l		0.0	man acc	
109	MB	1.4	1.28	mg/l		0.0	man acc	Outside calibration
110	480-193239-C-8	1.4	315.46	mg/l		4.0	man acc	
111	480-193241-I-1	1.4	5.37	mg/l		0.0	man acc	Outside calibration
112	ms480-193241-I-1	1.4	24.44	mg/l		0.0	man acc	
113	msd480-193241-I-1	1.4	23.27	mg/l		0.0	man acc	
114	480-193241-I-2	1.4	33.03	mg/l		0.0	man acc	
115	480-193241-I-3	1.4	12.00	mg/l		0.0	man acc	
116	ms480-193241-I-3	1.4	32.93	mg/l		0.0	man acc	
117	msd480-193241-I-3	1.4	36.86	mg/l		0.0	man acc	
118	CCB	1.4	-0.08	mg/l		0.0	man acc	Outside calibration
119	CCV ALK	1.4	51.61	mg/l		0.0	man acc	
120	LCS ALK	1.4	51.46	mg/l		0.0	man acc	
121	MB	1.4	4.16	mg/l		0.0	man acc	Outside calibration
122	480-193241-I-4	1.4	41.09	mg/l		0.0	man acc	
123	480-193241-I-5	1.4	72.18	mg/l		0.0	man acc	
124	480-193241-I-6	1.4	21.30	mg/l		0.0	man acc	
125	480-193242-C-1	1.4	359.97	mg/l		4.0	man acc	
126	480-193242-C-2	1.4	299.28	mg/l		3.0	man acc	
127	480-193242-C-3	1.4	400.51	mg/l		4.0	man acc	
129	480-193243-I-2	1.4	61.65	mg/l		0.0	man acc	
130	CCB	1.4	0.56	mg/l		0.0	man acc	Outside calibration
131	CCV ALK	1.4	48.43	mg/l		0.0	man acc	
132	LCS ALK	1.4	50.67	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
133	MB	1.4	1.29	mg/l		0.0	man acc	Outside calibration
134	480-193245-C-1	1.4	272.68	mg/l		3.0	man acc	
135	480-193245-C-2	1.4	313.89	mg/l		3.0	man acc	
136	480-193245-C-3	1.4	312.46	mg/l		3.0	man acc	
138	480-193248-F-1	1.4	312.51	mg/l		3.0	man acc	
146	CCB	1.4	1.23	mg/l		0.0	man acc	Outside calibration
147	CCV ALK	1.4	50.76	mg/l		0.0	man acc	
148	LCS ALK	1.4	52.96	mg/l		0.0	man acc	
149	MB	1.4	1.68	mg/l		0.0	man acc	Outside calibration
150	480-193248-F-2	1.4	360.60	mg/l		3.0	man acc	
152	480-193255-D-1	1.4	5,352.29	mg/l		59.0	man acc	
153	480-193239-C-1	1.4	563.70	mg/l		9.0	man acc	
154	480-193239-C-3	1.4	606.25	mg/l		9.0	man acc	
155	480-193229-C-1	1.4	134.82	mg/l		1.0	man acc	
166	480-193266-D-10	1.4	185.24	mg/l		1.0	man acc	
167	ms480-193266-D-1	1.4	189.03	mg/l		1.0	man acc	
168	msd480-193266-D-	1.4	191.25	mg/l		1.0	man acc	
169	CCB	1.4	0.76	mg/l		0.0	man acc	Outside calibration
170	CCV ALK	1.4	49.77	mg/l		0.0	man acc	
171	LCS ALK	1.4	51.22	mg/l		0.0	man acc	
172	MB	1.4	1.37	mg/l		0.0	man acc	Outside calibration
173	480-193199-G-3	1.4	2,424.36	mg/l		29.0	man acc	
174	480-193173-D-1	1.4	6,292.92	mg/l		69.0	man acc	
175	480-193199-G-4	1.4	368.17	mg/l		4.0	man acc	
176	ms480-193199-G-4	1.4	394.65	mg/l		4.0	man acc	
177	480-193199-G-7	1.4	1,236.39	mg/l		14.0	man acc	
178	480-193199-G-8	1.4	271.75	mg/l		3.0	man acc	
179	480-193203-G-1	1.4	2,503.90	mg/l		29.0	man acc	
180	480-193206-K-9	1.4	84.23	mg/l		1.0	man acc	
181	CCB	1.4	2.73	mg/l		0.0	man acc	Outside calibration
182	CCV ALK	1.4	48.73	mg/l		0.0	man acc	
183	LCS ALK	1.4	52.35	mg/l		0.0	man acc	
184	MB	1.4	0.58	mg/l		0.0	man acc	Outside calibration
185	480-193247-E-1	1.4	11,103.61	mg/l		199.0	man acc	
186	480-193253-E-1	1.4	4,243.49	mg/l		59.0	man acc	
191	480-193264-G-1	1.4	1,937.64	mg/l		19.0	man acc	
196	480-193243-I-1	1.4	295.02	mg/l		4.0	man acc	
197	CCB	1.4	0.78	mg/l		0.0	man acc	Outside calibration
198	CCV ALK	1.4	52.52	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
199	LCS ALK	1.4	49.43	mg/l		0.0	man acc	
200	MB	1.4	-1.08	mg/l		0.0	man acc	Outside calibration
210	480-193264-G-3	1.4	270.09	mg/l		4.0	man acc	
213	480-193264-G-6	1.4	1,916.44	mg/l		19.0	man acc	
214	480-193265-G-3	1.4	278.12	mg/l		3.0	man acc	
216	480-193265-G-2	1.4	605.63	mg/l		7.0	man acc	
217	480-193264-G-7	1.4	350.03	mg/l		4.0	man acc	
220	480-193265-G-1	1.4	311.00	mg/l		3.0	man acc	
232	CCB	1.4	-0.07	mg/l		0.0	man acc	Outside calibration
233	CCV ALK	1.4	52.75	mg/l		0.0	man acc	
234	LCS ALK	1.4	52.61	mg/l		0.0	man acc	
235	MB	1.4	-0.34	mg/l		0.0	man acc	Outside calibration
238	480-193293-C-1	1.4	196.47	mg/l		4.0	man acc	
239	480-193310-G-4	1.4	5.00	mg/l		0.0	man acc	Outside calibration
240	480-193293-C-3	1.4	337.85	mg/l		4.0	man acc	
241	480-193293-C-4	1.4	383.89	mg/l		4.0	man acc	
248	480-193293-C-6	1.4	380.11	mg/l		4.0	man acc	
249	480-193293-C-7	1.4	195.21	mg/l		2.0	man acc	
250	480-193293-C-9	1.4	188.11	mg/l		2.0	man acc	
251	480-193293-C-10	1.4	434.14	mg/l		4.0	man acc	
256	CCB	1.4	5.93	mg/l		0.0	man acc	Outside calibration
257	CCV ALK	1.4	51.19	mg/l		0.0	man acc	
260	480-193310-G-1	1.4	82.97	mg/l		0.0	man acc	
262	480-193266-D-1	1.4	197.87	mg/l		1.0	man acc	
263	480-193264-G-8	1.4	1,790.38	mg/l		19.0	man acc	
264	480-193310-G-3	1.4	-5.20	mg/l		0.0	man acc	Outside calibration
265	480-193266-D-2	1.4	133.13	mg/l		1.0	man acc	
273	480-193266-D-6	1.4	178.03	mg/l		1.0	man acc	
275	480-193266-D-8	1.4	139.79	mg/l		1.0	man acc	
277	480-193310-G-7	1.4	-5.79	mg/l		0.0	man acc	Outside calibration
279	CCB	1.4	5.15	mg/l		0.0	man acc	Outside calibration
280	CCV ALK	1.4	51.67	mg/l		0.0	man acc	
281	LCS ALK	1.4	51.89	mg/l		0.0	man acc	
282	MB	1.4	0.28	mg/l		0.0	man acc	Outside calibration
283	480-193314-D-1	1.4	88.00	mg/l		0.0	man acc	
289	480-193266-D-9	1.4	164.97	mg/l		1.0	man acc	
290	480-193266-D-11	1.4	166.30	mg/l		1.0	man acc	
296	480-193310-G-5	1.4	191.88	mg/l		1.0	man acc	
299	480-193335-I-1	1.4	175.27	mg/l		1.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
300	480-193335-I-2	1.4	189.17	mg/l		2.0	man acc	
305	480-193335-I-3	1.4	185.57	mg/l		2.0	man acc	
306	480-193335-I-4	1.4	354.64	mg/l		5.0	man acc	
307	CCB	1.4	1.36	mg/l		0.0	man acc	Outside calibration
308	CCV ALK	1.4	51.66	mg/l		0.0	man acc	
309	LCS ALK	1.4	52.11	mg/l		0.0	man acc	
310	MB	1.4	2.15	mg/l		0.0	man acc	Outside calibration
311	480-193335-I-5	1.4	116.02	mg/l		1.0	man acc	
312	480-193335-I-6	1.4	175.21	mg/l		2.0	man acc	
313	480-193336-Q-1	1.4	953.11	mg/l		19.0	man acc	
314	480-193336-Q-2	1.4	3,398.60	mg/l		49.0	man acc	
315	480-193336-Q-3	1.4	2,454.11	mg/l		39.0	man acc	
316	480-193264-G-4	1.4	1,313.53	mg/l		19.0	man acc	
317	480-193336-Q-5	1.4	652.87	mg/l		19.0	man acc	
322	480-193336-Q-6	1.4	2,827.08	mg/l		39.0	man acc	
327	CCB	1.4	5.32	mg/l		0.0	man acc	Outside calibration
328	CCV ALK	1.4	50.75	mg/l		0.0	man acc	
329	LCS ALK	1.4	50.15	mg/l		0.0	man acc	
330	MB	1.4	3.20	mg/l		0.0	man acc	Outside calibration
331	480-193310-G-8	1.4	189.89	mg/l		1.0	man acc	
332	480-193317-D-1	1.4	196.90	mg/l		1.0	man acc	
333	480-193317-D-2	1.4	184.14	mg/l		1.0	man acc	
334	480-193317-D-3	1.4	161.09	mg/l		1.0	man acc	
335	480-193317-D-4	1.4	119.44	mg/l		1.0	man acc	
336	480-193317-D-5	1.4	188.98	mg/l		1.0	man acc	
337	480-193337-H-2	1.4	144.14	mg/l		1.0	man acc	
338	480-193354-C-1	1.4	345.52	mg/l		4.0	man acc	
339	CCB	1.4	2.04	mg/l		0.0	man acc	Outside calibration
340	CCV ALK	1.4	50.28	mg/l		0.0	man acc	
341	LCS ALK	1.4	52.46	mg/l		0.0	man acc	
342	MB	1.4	2.78	mg/l		0.0	man acc	Outside calibration
344	480-193317-D-7	1.4	161.17	mg/l		1.0	man acc	
345	480-193317-D-8	1.4	191.69	mg/l		1.0	man acc	
346	480-193354-C-2	1.4	365.07	mg/l		4.0	man acc	
347	480-193354-C-3	1.4	181.06	mg/l		2.0	man acc	
348	480-193354-C-4	1.4	465.39	mg/l		4.0	man acc	
349	CCB	1.4	3.63	mg/l		0.0	man acc	Outside calibration
352	CCV ALK	1.4	52.28	mg/l		0.0	man acc	
353	LCS ALK	1.4	52.04	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
354	MB	1.4	2.88	mg/l		0.0	man acc	Outside calibration
355	480-193356-B-2	1.4	684.28	mg/l		9.0	man acc	
356	480-193356-B-3	1.4	287.52	mg/l		3.0	man acc	
357	480-193264-G-5	1.4	34.05	mg/l		1.0	man acc	
358	480-193369-K-1	1.4	130.46	mg/l		1.0	man acc	
359	480-193369-K-2	1.4	338.69	mg/l		3.0	man acc	
360	480-193264-G-2	1.4	498.04	mg/l		9.0	man acc	
361	480-193293-C-5	1.4	379.63	mg/l		4.0	man acc	
362	480-193293-C-11	1.4	166.69	mg/l		1.0	man acc	
363	CCB	1.4	2.02	mg/l		0.0	man acc	Outside calibration
364	CCV ALK	1.4	52.10	mg/l		0.0	man acc	
365	LCS ALK	1.4	52.39	mg/l		0.0	man acc	
366	MB	1.4	3.19	mg/l		0.0	man acc	Outside calibration
367	480-193293-C-12	1.4	313.32	mg/l		3.0	man acc	
368	480-193293-C-13	1.4	185.74	mg/l		2.0	man acc	
369	480-193310-G-2	1.4	224.96	mg/l		4.0	man acc	
378	480-193369-K-3	1.4	559.72	mg/l		7.0	man acc	
379	480-193369-K-4	1.4	95.91	mg/l		1.0	man acc	
380	480-193369-K-5	1.4	90.71	mg/l		1.0	man acc	
385	CCB	1.4	-0.14	mg/l		0.0	man acc	Outside calibration
386	CCV ALK	1.4	48.43	mg/l		0.0	man acc	
387	LCS ALK	1.4	52.11	mg/l		0.0	man acc	
388	MB	1.4	0.30	mg/l		0.0	man acc	Outside calibration
390	480-193317-D-6	1.4	269.26	mg/l		4.0	man acc	
393	480-193444-I-1	1.4	11.79	mg/l		0.0	man acc	
395	480-193444-I-3	1.4	38.28	mg/l		0.0	man acc	
412	CCB	1.4	1.54	mg/l		0.0	man acc	Outside calibration
413	CCV ALK	1.4	53.66	mg/l		0.0	man acc	
414	LCS ALK	1.4	52.88	mg/l		0.0	man acc	
415	MB	1.4	3.97	mg/l		0.0	man acc	Outside calibration
416	480-193397-D-2	1.4	165.24	mg/l		1.0	man acc	
418	480-193397-D-3	1.4	193.24	mg/l		1.0	man acc	
419	480-193266-D-3	1.4	241.08	mg/l		4.0	man acc	
420	480-193266-D-4	1.4	255.65	mg/l		4.0	man acc	
421	480-193266-D-5	1.4	220.91	mg/l		4.0	man acc	
422	480-193266-D-7	1.4	234.36	mg/l		4.0	man acc	
423	CCB	1.4	1.96	mg/l		0.0	man acc	Outside calibration
424	CCV ALK	1.4	54.83	mg/l		0.0	man acc	
425	LCS ALK	1.4	52.58	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
426	MB	1.4	2.93	mg/l		0.0	man acc	Outside calibration
427	480-193336-Q-7	1.4	465.14	mg/l		4.0	man acc	
428	480-193337-H-1	1.4	137.55	mg/l		1.0	man acc	
429	480-193354-C-5	1.4	332.73	mg/l		4.0	man acc	
430	480-193355-C-1	1.4	394.11	mg/l		4.0	man acc	
432	480-193397-D-5	1.4	126.06	mg/l		1.0	man acc	
434	480-193397-D-7	1.4	188.65	mg/l		1.0	man acc	
441	480-193444-I-5	1.4	192.13	mg/l		1.0	man acc	
446	CCB	1.4	1.83	mg/l		0.0	man acc	Outside calibration
447	CCV ALK	1.4	53.64	mg/l		0.0	man acc	
448	LCS ALK	1.4	51.65	mg/l		0.0	man acc	
449	MB	1.4	2.44	mg/l		0.0	man acc	Outside calibration
451	480-193293-C-2	1.4	284.93	mg/l		4.0	man acc	
452	480-193293-C-8	1.4	362.66	mg/l		4.0	man acc	
453	CCB	1.4	1.88	mg/l		0.0	man acc	Outside calibration
454	CCV ALK	1.4	52.24	mg/l		0.0	man acc	
455	LCS ALK	1.4	54.21	mg/l		0.0	man acc	
456	MB	1.4	5.35	mg/l		0.0	man acc	Outside calibration
457	480-193293-C-8	1.4	389.60	mg/l		4.0	man acc	
458	480-193397-D-1	1.4	268.49	mg/l		4.0	man acc	
459	480-193397-D-4	1.4	222.33	mg/l		4.0	man acc	
460	480-193397-D-6	1.4	276.81	mg/l		4.0	man acc	
461	480-193444-I-2	1.4	472.47	mg/l		4.0	man acc	
462	480-193444-I-4	1.4	292.64	mg/l		4.0	man acc	
463	480-193444-I-6	1.4	342.05	mg/l		4.0	man acc	
468	480-193310-G-6	1.4	2,331.13	mg/l		29.0	man acc	
469	CCB	1.4	2.05	mg/l		0.0	man acc	Outside calibration
470	CCV ALK	1.4	51.84	mg/l		0.0	man acc	
471	LCS ALK	1.4	49.43	mg/l		0.0	man acc	
472	MB	1.4	-1.28	mg/l		0.0	man acc	Outside calibration

Historical Data Summary Report

For Batch 609054

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-192989-B-6	P56BR	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	3.0	241 225	☑	72.248 - 122.352	☑	65.6 - 133.2 OK 609471
480-193008-E-1	09FB	310.2	Alkalinity, Dissolved	Dissolved	mg/L	5	3.0	226 205	☑	0 - 18.122	☑	0 - 15
480-193124-B-1	B07BR	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	447	☐	221.037 - 558.713	☐	227.2 - 582
480-193124-B-10	B25B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	1.0	86.8	☐	76.258 - 99.467	☐	64.08 - 110.88
480-193124-B-11	B26R2	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	3.0	163	☐	133.047 - 176.203	☐	116.8 - 196.8
480-193124-B-2	B07D	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	3.0	214	☐	64.47 - 292.03	☐	104 - 304.8
480-193124-B-3	B18RR	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	3.0	208	☐	185.633 - 231.617	☐	160 - 265.2
480-193124-B-4	B19	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	206	☐	66.803 - 561.947	☐	150.4 - 508.8
480-193124-B-5	B20R	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	353	☐	268.45 - 415.8	☐	240.8 - 452.4
480-193124-B-6	B23B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	3.0	178	☐	114.251 - 227.249	☐	102.4 - 225.6
480-193124-B-7	B24AR2	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	7.0	574	☐	434.39 - 727.86	☐	428.8 - 810
480-193124-B-8	B24BR	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	3.0	263	☐	176.884 - 314.866	☐	176.8 - 344.4
480-193124-B-9	B25A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	6.0	492	☐	396.466 - 594.534	☐	362.4 - 655.2
480-193127-D-1	R01	310.2	Alkalinity, Total	Total/NA	mg/L	8	15.0	869	☐	603.136 - 1369.114	☐	680.8 - 1548
480-193127-D-2	R38	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1490	☐	892.776 - 1912.224	☐	920 - 1980
480-193127-D-3	R43R	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1660	☐	1216.622 - 2178.378	☐	1160 - 2292
480-193138-D-1	PTPINF	310.2	Alkalinity, Total	Total/NA	mg/L	8	40.0	3430	☐	1031.372 - 4841.128	☐	1856 - 4656
480-193173-D-1	SSR01E	310.2	Alkalinity, Total	Total/NA	mg/L	7	70.0	6290	☐	0 - 24370.28	☐	28.64 - 18720
480-193173-D-2	SSR08E	310.2	Alkalinity, Total	Total/NA	mg/L	3	100.0	8500	☐	0 - 15299.282	☑	3213.333 - 4820 OK
480-193199-G-1	03-197-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	10.0	945	☐	597.204 - 1087.296	☐	547.2 - 1155.6
480-193199-G-2	03-197-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	8.0	661	☐	562.241 - 745.259	☐	486.4 - 862.8
480-193199-G-3	03-198-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	30.0	2420	☐	2064.9 - 2565.1	☐	1760 - 2916
480-193199-G-4	03-198-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	368	☐	315.762 - 418.988	☐	266.4 - 460.8
480-193199-G-5	03-199-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	30.0	2460	☐	1584.426 - 2473.074	☐	1376 - 2724
480-193199-G-6	03-199-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	267	☐	208.787 - 334.463	☐	188 - 352.8
480-193199-G-7	03-200-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	15.0	1240	☐	1060 - 1480	☐	936 - 1656
480-193199-G-8	03-200-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	272	☐	221.183 - 388.317	☐	202.4 - 420
480-193203-G-1	88-148-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	30.0	2500	☑	1784.18 - 2485.82	☐	1584 - 2796
480-193203-G-2	96-148-2R	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	369	☐	308.617 - 510.883	☐	285.6 - 568.8
480-193206-K-1	MW-11A	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	176	☐	129.067 - 204.183	☐	119.2 - 222
480-193206-K-11	MW-18B	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	146	☐	110.418 - 180.582	☐	96 - 194.4
480-193206-K-2	MW-11B	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	244	☐	198.919 - 321.581	☐	182.4 - 358.8
480-193206-K-5	MW-14A	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	139	☐	0 - 523.522	☐	108 - 421.2
480-193206-K-6	MW-14B	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	466	☐	0 - 776.393	☐	46.72 - 590.4
480-193206-K-7	MW-15A	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	133	☐	118.375 - 158.625	☐	103.2 - 182.4
480-193206-K-8	MW-15B	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	176	☐	135.125 - 188.875	☐	119.2 - 214.8
480-193206-K-9	MW-16A	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	84.2	☐	0 - 1098.932	☑	90.4 - 835.2 OK
480-193237-E-1	T1	310.2	Alkalinity, Total	Total/NA	mg/L	8	40.0	3890	☑	2509.637 - 3602.863	☐	2256 - 4020
480-193238-E-1	NECOMP	310.2	Alkalinity, Total	Total/NA	mg/L	8	100.0	7640	☐	2605.931 - 11544.069	☐	4160 - 11844

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Historical Data Summary Report

For Batch 609054

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193239-C-1	MW29	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	10.0	564	☑	348.913 - 526.837	☐	297.6 - 567.6
480-193239-C-2	MW30	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	434	☐	301.799 - 548.201	☐	280 - 589.2
480-193239-C-3	MW31	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	10.0	606	☐	234.233 - 625.017	☐	252.8 - 618
480-193239-C-4	MW31B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	352	☐	288.509 - 384.741	☐	246.4 - 428.4
480-193239-C-5	MW32A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	378	☐	249.304 - 468.196	☐	246.4 - 520.8
480-193239-C-6	MW32B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	364	☑	266.268 - 354.232	☐	224.8 - 399.6
480-193239-C-7	MW33A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	355	☐	265.856 - 376.894	☐	234.4 - 424.8
480-193239-C-8	MW34B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	315	☐	213.065 - 495.685	☐	241.6 - 518.4
480-193241-I-1	01FB	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 102.667	☐	0 - 110.28
480-193241-I-2	MW04	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	33.0	☐	11.313 - 58.062	☐	19.2 - 62.04
480-193241-I-3	MW05	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	12.0	☐	0 - 29.175	☐	0 - 21.6
480-193241-I-4	MW06D	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	41.1	☐	28.952 - 50.998	☐	27.28 - 56.04
480-193241-I-5	MW06S	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	72.2	☐	28.36 - 110.14	☐	34.96 - 106.2
480-193241-I-6	MW07	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	21.3	☐	8.891 - 30.184	☐	12.32 - 30.96
480-193242-C-1	MW31A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	360	☐	260.296 - 393.204	☐	232.8 - 442.8
480-193242-C-2	MW33B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	299	☐	261.372 - 323.128	☐	220.8 - 373.2
480-193242-C-3	MW34A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	401	☐	286.238 - 427.262	☐	260.8 - 474
480-193243-I-1	SW001	310.2	Alkalinity, Total	Total/NA	mg/L	6	5.0	295	☐	0 - 421.725	☐	16.88 - 400.8
480-193243-I-2	SW003	310.2	Alkalinity, Total	Total/NA	mg/L	2	1.0	61.7	☑	0 - 43.5	☑	15.36 - 23.04 OK
480-193245-C-1	MW210A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	273	☐	102.328 - 397.672	☐	143.2 - 411.6
480-193245-C-2	BW229	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	314	☐	250.867 - 367.133	☐	216 - 403.2
480-193245-C-3	BW229A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	312	☐	280.515 - 353.985	☐	234.4 - 399.6
480-193247-E-1	CK-01	310.2	Alkalinity, Total	Total/NA	mg/L	8	200.0	11100	☑	2874.634 - 10255.366	☑	3976 - 10668 OK leachate
480-193248-F-1	EFFLUENT	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	4.0	313	☐	292.988 - 373.762	☐	248 - 422.4
480-193248-F-2	INFLUENT	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	4.0	361	☐	259.456 - 391.794	☐	220.8 - 427.2
480-193253-E-1	COND1	310.2	Alkalinity, Total	Total/NA	mg/L	8	60.0	4240	☐	0 - 4828.419	☐	1112 - 4428
480-193255-D-1	LPS01	310.2	Alkalinity, Total	Total/NA	mg/L	8	60.0	5350	☐	308.226 - 7206.774	☐	1208 - 6360
480-193264-G-1	08-147-1R	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1940	☐	0 - 2904.608	☐	347.2 - 2244
480-193264-G-2	20-147-2R	310.2	Alkalinity, Total	Total/NA	mg/L	8	10.0	498	☐	0 - 2826.78	☐	50.88 - 2244
480-193264-G-3	08-147-3	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	270	☐	0 - 2521.09	☐	161.6 - 2064
480-193264-G-4	10-152-1R	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1310	☐	0 - 1895.195	☐	110.4 - 1560
480-193264-G-5	10-152-2R	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	34.0	☐	0 - 751.927	☐	30.88 - 734.4
480-193264-G-6	10-185-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1920	☐	0 - 2951.325	☐	161.6 - 2064
480-193264-G-7	96-185-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	350	☐	0 - 2534.003	☐	50.88 - 1824
480-193264-G-8	DUP@08-147-1R	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1790	☑	0 - 1656.647	☑	292 - 1572 OK
480-193265-G-1	89-156-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	311	☐	152.765 - 344.735	☐	148.8 - 358.8
480-193265-G-2	98-156-3	310.2	Alkalinity, Total	Total/NA	mg/L	8	8.0	606	☐	91.007 - 857.993	☐	244 - 836.4
480-193265-G-3	98-186-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	278	☐	152.765 - 344.735	☐	148.8 - 358.8
480-193293-C-1	Duplicate	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	196	☐	46.442 - 586.558	☐	142.4 - 556.8

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Historical Data Summary Report

For Batch 609054

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193293-C-10	MW14	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	434	☐	266.337 - 546.913	☐	256 - 571.2
480-193293-C-11	MW15	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	2.0	167	☐	101.436 - 181.314	☐	96.8 - 205.2
480-193293-C-12	MW50	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	4.0	313	☐	288.866 - 368.884	☐	252 - 430.8
480-193293-C-13	MW6R	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	3.0	186	☐	0 - 454.482	☐	0 - 432
480-193293-C-2	E-7A	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	285	☐	189.136 - 405.864	☐	213.6 - 464.4
480-193293-C-3	GA31B	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	338	☐	210.307 - 372.943	☐	187.2 - 385.2
480-193293-C-4	GA32C	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	384	☐	307.634 - 419.116	☐	268 - 470.4
480-193293-C-5	GA33C	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	380	☑	130.559 - 244.441	☑	124.8 - 252
480-193293-C-6	GA34A	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	380	☐	163.355 - 441.645	☐	172.8 - 471.6
480-193293-C-7	GA35A	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	3.0	195	☑	205.375 - 270.375	☐	179.2 - 307.2
480-193293-C-8	GA36A	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	363	☐	0 - 650.513	☐	0 - 524.4
480-193293-C-9	MW12R	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	3.0	188	☐	143.326 - 238.924	☐	131.2 - 254.4
480-193335-I-1	MW-12AA	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	175	☐	113.477 - 209.523	☐	111.2 - 232.8
480-193335-I-2	MW-12BBB	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	189	☐	143.91 - 240.84	☐	126.4 - 259.2
480-193335-I-3	MW-13A	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	186	☐	119.995 - 224.005	☐	104 - 228
480-193335-I-4	MW-13B	310.2	Alkalinity, Total	Total/NA	mg/L	8	6.0	355	☐	65.699 - 732.301	☐	187.2 - 712.8
480-193335-I-5	MW-17A	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	116	☐	84.57 - 200.68	☐	84.8 - 206.4
480-193335-I-6	MW-17B	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	175	☐	29.486 - 306.714	☐	38.24 - 235.2
480-193336-Q-1	SLC-2A	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	953	☐	0 - 2271.03	☐	458.4 - 2388
480-193336-Q-2	PLC-2A	310.2	Alkalinity, Total	Total/NA	mg/L	8	50.0	3400	☐	1197.936 - 5967.064	☐	1552 - 5448
480-193336-Q-3	PLC-1B	310.2	Alkalinity, Total	Total/NA	mg/L	8	40.0	2450	☐	1828.232 - 4976.768	☐	1856 - 4692
480-193336-Q-5	SLC-1A	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	653	☐	0 - 2271.03	☐	458.4 - 2388
480-193336-Q-6	PLC-1A	310.2	Alkalinity, Total	Total/NA	mg/L	8	40.0	2830	☐	1431.255 - 4101.245	☐	1480 - 3972
480-193336-Q-7	LD-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	465	☐	295.184 - 480.066	☐	288.8 - 530.4
480-193337-H-1	CD-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	138	☐	88.475 - 168.525	☐	83.2 - 176.4
480-193337-H-2	CD-1RA	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	144	☐	101.288 - 167.962	☐	94.4 - 182.4
480-193354-C-1	MW110	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	346	☐	210.478 - 499.522	☐	213.6 - 522
480-193354-C-2	MW111	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	365	☐	246.334 - 449.416	☐	221.6 - 481.2
480-193354-C-3	MW29A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	6	3.0	181	☐	158.028 - 220.638	☐	138.4 - 242.4
480-193354-C-4	MW60	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	465	☐	318.648 - 568.602	☐	294.4 - 585.6
480-193354-C-5	MW60A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	333	☐	315.281 - 434.469	☐	276 - 494.4
480-193355-C-1	MW61B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	394	☐	265.533 - 477.217	☐	260.8 - 518.4
480-193356-B-2	MW61	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	10.0	684	☐	300.69 - 933.06	☐	388.8 - 974.4
480-193356-B-3	MW61A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	288	☐	216.564 - 321.436	☐	188 - 343.2
480-193369-K-1	MW-1A	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	130	☐	68.465 - 182.185	☐	77.44 - 183.6
480-193369-K-2	MW-2A	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	339	☐	156.984 - 452.266	☐	189.6 - 444
480-193369-K-3	MW-2B	310.2	Alkalinity, Total	Total/NA	mg/L	8	8.0	560	☐	31.092 - 922.158	☐	242.4 - 835.2
480-193369-K-4	MW-1B	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	95.9	☐	73.293 - 122.457	☐	70.48 - 138
480-193369-K-5	DUP MW-1B	310.2	Alkalinity, Total	Total/NA	mg/L	1	2.0	90.7	☑	118 - 118	☑	94.4 - 141.6

Page 12/1/2021 01:14:36 PM

12/27/2021

Historical Data Summary Report

For Batch 609054

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193444-I-3	DUP-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	38	☐	0 - 815.417	☐	11.2 - 816
480-193444-I-4	SW-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	290	☑	20.732 - 53.518	☑	22.4 - 52.8

OK

TestAmerica Buffalo
pH Screening for Alkalinity Method 310.2

Logbook # A19-43

DATE	ANALYST	JOB #	SAMPLE ID	pH	COMMENTS
12/1/21	SRW	192729	J1→4	≤6.5	607312
↓	↓	192745	C1	↓	↓
		192770	H1		
		192791	L1→23		
		192842	L1→8"		
		192843	U1,2		
		192854	M2,10		
		192911	F1→4		
12/10/21	SRW	193003	G1	≤6.5	608471
↓	↓	193073	A1→7	↓	↓
12/15/21	SRW	193248	F1,2	≤6.5	609054
↓	↓	193293	C1→13	↓	↓

REVIEWD BY/ DATE _____ pH Narrow range Paper Lot # _____

BF-WC-LB-010
Rev. 0
2/27/2013

608835

Solutions:

Potassium Phosphate Buffer	6784160	Exp:	12/29/2021
Pyridine Barbituric Acid	6805474	Exp:	12/14/2021
Chloramine-T	6814211	Exp:	12/14/2021
50ppm INT STD	6814151	Exp:	12/20/2021
CN .25ppm CCV Std	6814841	Exp:	12/14/2021

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Lachat 2 : 12/07/2021
Curve Standard (50 ppm): 6803856
ICV (0.250 ppm): 607844/3

Author: BufLachat2

Date : 12/7/2021

Original Run Filename: OM_12-7-2021_10-41-08AM.OMN Created: 12/7/2021 10:41:08 AM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_12-7-2021_10-41-08AM.OMN Last Modified: 12/7/2021 10:59:44 AM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

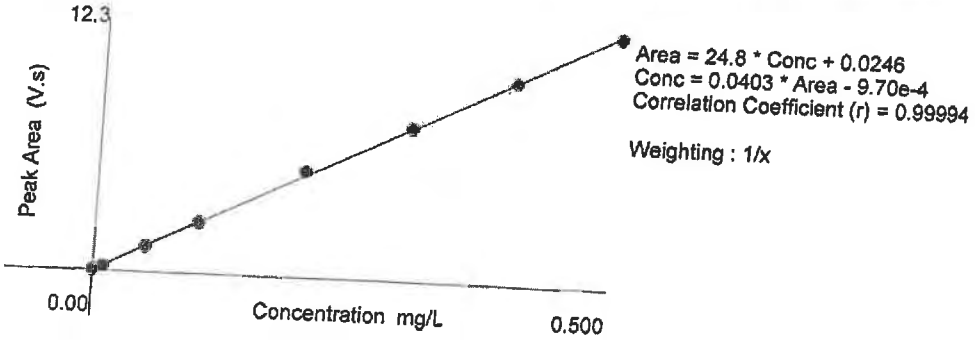
Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
Cal Std 1 - 0.5	1	S1	0.500	12.3	0.603	12/7/2021@10:42:04 AM
Cal Std 2 - 0.4	1	S2	0.400	9.94	0.478	12/7/2021@10:43:31 AM
Cal Std 3 - 0.3	1	S3	0.300	7.51	0.381	12/7/2021@10:44:58 AM
Cal Std 4 - 0.2	1	S4	0.200	5.19	0.248	12/7/2021@10:46:24 AM
Cal Std 5 - 0.1	1	S5	0.100	2.48	0.116	12/7/2021@10:47:51 AM
Cal Std 6 - 0.05	1	S6	0.0500	1.23	0.0606	12/7/2021@10:49:19 AM
Cal Std 7 - 0.01	1	S7	0.0100	0.234	0.0170	12/7/2021@10:50:47 AM
cal Std 8 - 0	1	S10	0.00	0.0647	-2.96e-3	12/7/2021@10:52:13 AM
icv	1	1	0.268	6.68	0.344	12/7/2021@10:53:41 AM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
icb	1	S10	-7.69e-3	-0.167	-9.05e-3	12/7/2021@10:55:07 AM
	Known Conc:		100			
icvl	1	S7	0.0127	0.340	0.0161	12/7/2021@10:56:35 AM
	Known Conc:		0.00			

1.072% Recovery

Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.3	0.603	0.0	1.0	0.495	12/7/2021	10:42:04 AM
2	0.400	1	9.94	0.478	0.0	0.1	0.399	12/7/2021	10:43:31 AM
3	0.300	1	7.51	0.381	0.0	-0.5	0.301	12/7/2021	10:44:58 AM
4	0.200	1	5.19	0.248	0.0	-4.0	0.208	12/7/2021	10:46:24 AM
5	0.100	1	2.48	0.116	0.0	1.1	0.0988	12/7/2021	10:47:51 AM
6	0.0500	1	1.23	0.0606	0.0	2.8	0.0486	12/7/2021	10:49:19 AM
7	0.0100	1	0.234	0.0170	0.0	14.2	8.45e-3	12/7/2021	10:50:47 AM
8	0.00	1	0.0647	-2.96e-3			1.63e-3	12/7/2021	10:52:13 AM

Figure : 1 (Cyanide)



Author: BufLachat2

Date : 12/14/2021

Original Run Filename: OM_12-14-2021_01-10-51PM.OMN Created: 12/14/2021 1:10:51 PM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_12-14-2021_01-10-51PM.OMN Last Modified: 12/14/2021 1:56:46 PM
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S9	0.255	6.37	0.265	12/14/2021@1:11:48 PM
	Known Conc:		0.250			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	-8.60e-4	2.72e-3	-1.08e-3	12/14/2021@1:13:14 PM
	Known Conc:		0.00			
MB 480-608774/1-A	1	1	5.79e-3	0.168	0.0115	12/14/2021@1:14:41 PM
LCS 480-608774/2-A	1	2	0.234	5.84	0.242	12/14/2021@1:16:08 PM
CCVL 480-608774/3-A	1	3	0.0707	1.78	0.0702	12/14/2021@1:17:35 PM
480-193290-E-2-A	1	4	1.99e-3	0.0736	2.75e-3	12/14/2021@1:19:02 PM
480-193290-E-2-B MS	1	5	0.100	2.51	0.105	12/14/2021@1:20:29 PM
480-193290-E-2-C MSD	1	6	0.0994	2.49	0.102	12/14/2021@1:21:56 PM
480-193336-G-5-A	1	7	0.0165	0.434	0.0164	12/14/2021@1:23:22 PM
480-193336-G-6-A	1	8	4.55e-3	0.137	4.63e-3	12/14/2021@1:24:49 PM
480-193336-G-7-A	1	9	2.33e-3	0.0819	2.23e-3	12/14/2021@1:26:15 PM
480-193336-G-1-A	1	10	2.12e-3	0.0768	3.10e-3	12/14/2021@1:27:42 PM
CCV	1	S9	0.257	6.40	0.267	12/14/2021@1:29:07 PM
	Known Conc:		0.250			
CCB	1	S10	-2.23e-3	-0.0313	-1.37e-3	12/14/2021@1:30:34 PM
	Known Conc:		0.00			
480-193336-G-2-A	1	11	6.78e-3	0.193	8.46e-3	12/14/2021@1:32:00 PM
480-193336-G-3-A	1	12	5.08e-3	0.150	6.98e-3	12/14/2021@1:33:26 PM
480-193337-F-1-A	1	13	1.16e-3	0.0529	2.19e-3	12/14/2021@1:34:52 PM
480-193337-F-2-A	1	14	8.07e-5	0.0261	2.38e-3	12/14/2021@1:36:18 PM
480-193369-E-2-A	1	15	3.88e-3	0.120	4.25e-3	12/14/2021@1:37:43 PM
480-193369-E-1-A	1	16	-2.15e-3	-0.0292	-1.29e-3	12/14/2021@1:39:10 PM
480-193369-E-3-A	1	17	-9.96e-4	-6.45e-4	-1.61e-3	12/14/2021@1:40:38 PM
480-193369-E-4-A	1	18	1.76e-3	0.0679	2.56e-3	12/14/2021@1:42:05 PM
480-193369-E-5-A	1	19	3.42e-3	0.109	2.60e-3	12/14/2021@1:43:32 PM
480-193332-D-1-A	1	20	1.19e-3	0.0537	2.50e-3	12/14/2021@1:44:58 PM
CCV	1	S9	0.254	6.35	0.264	12/14/2021@1:46:24 PM
	Known Conc:		0.250			
CCB	1	S10	-1.95e-3	-0.0243	-1.39e-3	12/14/2021@1:47:51 PM
	Known Conc:		0.00			
480-193332-D-3-A	1	21	1.68e-3	0.0658	2.65e-3	12/14/2021@1:49:17 PM
480-193332-D-3-B MS	1	22	0.108	2.71	0.113	12/14/2021@1:50:44 PM
CCV	1	S9	0.255	6.37	0.266	12/14/2021@1:52:10 PM
	Known Conc:		0.250			
CCB	1	S10	-9.76e-4	-1.61e-4	-6.71e-4	12/14/2021@1:53:36 PM
	Known Conc:		0.00			

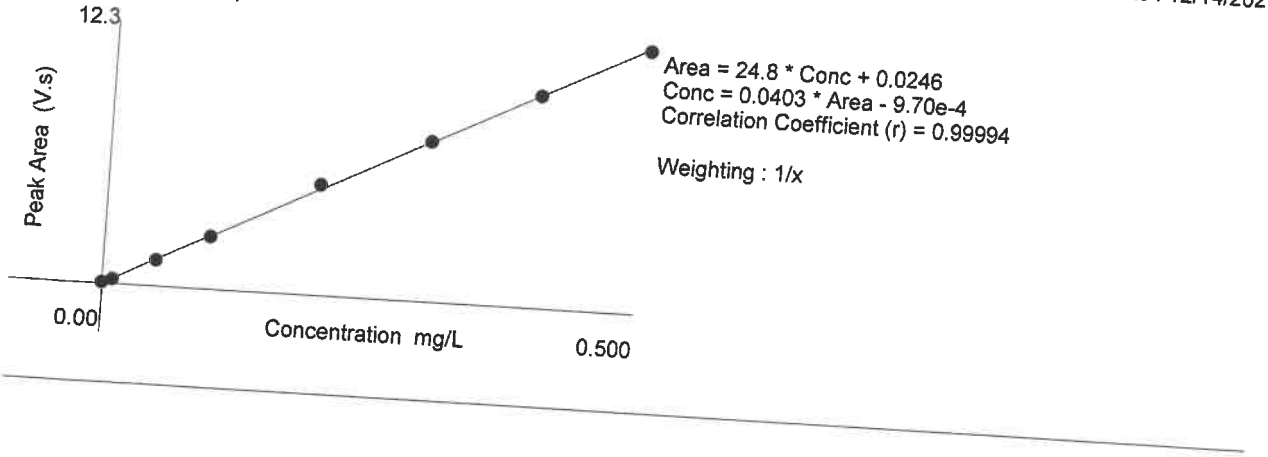
Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.3	0.603	0.0	1.0	0.495	12/7/2021	10:42:04 AM
2	0.400	1	9.94	0.478	0.0	0.1	0.399	12/7/2021	10:43:31 AM
3	0.300	1	7.51	0.381	0.0	-0.5	0.301	12/7/2021	10:44:58 AM
4	0.200	1	5.19	0.248	0.0	-4.0	0.208	12/7/2021	10:46:24 AM
5	0.100	1	2.48	0.116	0.0	1.1	0.0988	12/7/2021	10:47:51 AM
6	0.0500	1	1.23	0.0606	0.0	2.8	0.0486	12/7/2021	10:49:19 AM
7	0.0100	1	0.234	0.0170	0.0	14.2	8.45e-3	12/7/2021	10:50:47 AM
8	0.00	1	0.0647	-2.96e-3			1.63e-3	12/7/2021	10:52:13 AM

Author: BufLachat2

Figure : 1 (Cyanide)

Date : 12/14/2021



Analyst: PM Date: 12/14

TALS Batch #: _____

B1

Eurofins TestAmerica BUFFALO
Cyanide Micro-Distillation Logbook **Logbook # A21-17**

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Co
MB	Blank	1	6 mL				
LCS	0.250	2					
CCVL	0.100	3			6 mL	✓	
193290	E2	4			6 mL	✓	
	E2 MS	5					
	E2 MSD	6			60 uL	✓	
193336	65	7			60 uL	✓	
	66	8					
	67	9					
	61	10					
	62	11					
	63	12					
193337	F1	13					
	F2	14					
193364	E2	15					
	E1	16					
	E3	17					
	E4	18					
	E5	19					
193332	D1	20					
	D3	21					
	D3 MS	22					
					60 uL	✓	

Start Time: _____
End Time: _____

Cl₂ Check: _____
H₂S Check: ✓

0.400 mg/L Complex CN LCS: _____
0.250 mg/L Complex CN LCS: 6S14153
0.100 mg/L Free CN CCVL: 6S14154
10 ppm Complex CN MS: 6S14155
10 ppm Free CN MS: _____
ERA Soil Lot: _____

1.0 N NaOH: _____
7.11M H_2SO_4 / 0.79M $MgCl_2$: _____
H_2NSO_3: _____
$NaCH_3COO$: _____
$ZnCH_3COO$: _____

SimpleDist Block C: Set Temp. (°C): 135 Measured Start Temp. (°C): 135 Measured End Temp. (°C): 135

CM 1045
AFF 1115

Reviewed By: PM Date: 12/14

608583

Ammonia 350.1

Nitrogen 1000mg/L Std CAL	6438488	Expires 08/31/22
Ammonia as N 1000mg/L Std CCV/LCS/ICV	6444516	Expires 11/03/22
Matrix Spike Int Std	6811478	Expires 12/17/21
Sodium Nitroferricyanide	6792983	Expires 12/23/21
Alkaline Phenol	6806984	Expires 12/15/21
5% EDTA Buffer	6798908	Expires 12/15/21
Sulfuric Acid Carrier	6814077	Expires 12/14/21
Sodium Hypochlorite	6814078	Expires 12/14/21
NH3 CCV/ICV 1.0ppm Std	6814079	Expires 12/14/21

ICV = 1.0ppm
LCS/CCV = 1.0ppm
MS/MSD = 0.2ppm

Distilled LCS/CCV = 1.0ppm
Distilled MS/MSD = 0.5ppm

Residual Chlorine check of samples CT

Author: BufLachat

Date : 12/13/2021

Original Run Filename: OM_12-13-2021_08-13-20AM.OMN Created: 12/13/2021 8:13:20 AM
Original Run Author's Signature: [BufLachat]
Current Run Filename: OM_12-13-2021_08-13-20AM.OMN Last Modified: 12/13/2021 10:15:12 AM
Current Run Author's Signature: [BufLachat]
Description: Default New Run

608583

Sample	Rep.	Cup No.	Channel 1 Ammonia as N Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time	Description
CCV	1	S10	1.01	10.7	0.894	12/13/2021@8:14:18 AM	
	Known Conc:		1.00				
CCB	1	S11	5.07e-3	0.234	0.0186	12/13/2021@8:15:24 AM	
	Known Conc:		0.00				
	Calibration:		Table/Fig. : 1				
MB	1	S11	-1.10e-3	0.170	0.0138	12/13/2021@8:16:30 AM	
	Known Conc:		0.00				
LCS	1	S10	1.01	10.8	0.896	12/13/2021@8:17:36 AM	
	Known Conc:		1.00				
480-193289-f-1	1	1	0.0610	0.821	0.0645	12/13/2021@8:18:43 AM	
480-193289-f-2	1	2	0.969	10.3	0.856	12/13/2021@8:19:50 AM	
480-193290-b-2^5	1	3	1.90	20.1	1.66	12/13/2021@8:20:56 AM	
480-193290-b-2 ms^5	1	4	1.88	19.9	1.65	12/13/2021@8:22:03 AM	
480-193290-b-2 msd^5	1	5	1.93	20.4	1.69	12/13/2021@8:23:09 AM	
480-193290-b-3	1	6	9.24e-3	0.278	0.0198	12/13/2021@8:24:16 AM	
480-193290-b-4	1	7	-0.0129	0.0463	3.17e-3	12/13/2021@8:25:22 AM	
480-193290-b-6^10	1	8	-8.42e-3	0.0928	6.22e-3	12/13/2021@8:26:28 AM	
CCV	1	S10	1.01	10.7	0.893	12/13/2021@8:27:34 AM	
	Known Conc:		1.00				
CCB	1	S11	1.57e-3	0.197	0.0158	12/13/2021@8:28:40 AM	
	Known Conc:		0.00				
480-193290-b-5	1	9	-0.0116	0.0596	4.41e-3	12/13/2021@8:29:46 AM	
MS 480-193290-b-5	1	10	0.205	2.33	0.190	12/13/2021@8:30:52 AM	
480-193290-b-7^10	1	11	0.444	4.84	0.401	12/13/2021@8:31:58 AM	
480-193290-b-8^10	1	12	1.25	13.2	1.09	12/13/2021@8:33:03 AM	
480-193290-b-9	1	13	0.165	1.91	0.151	12/13/2021@8:34:09 AM	
480-193293-a-1	1	14	0.174	2.01	0.162	12/13/2021@8:35:14 AM	
480-193293-a-2	1	15	0.554	5.99	0.481	12/13/2021@8:36:20 AM	
480-193293-a-3	1	16	0.496	5.38	0.433	12/13/2021@8:37:26 AM	
480-193293-a-4	1	17	0.376	4.13	0.337	12/13/2021@8:38:33 AM	
480-193293-a-5	1	18	-8.38e-3	0.0932	6.51e-3	12/13/2021@8:39:39 AM	
CCV	1	S10	1.01	10.8	0.894	12/13/2021@8:40:46 AM	
	Known Conc:		1.00				
CCB	1	S11	-1.02e-3	0.170	0.0141	12/13/2021@8:41:52 AM	
	Known Conc:		0.00				
MB	1	S11	3.80e-4	0.185	0.0146	12/13/2021@8:42:58 AM	
	Known Conc:		0.00				
LCS	1	S10	1.01	10.8	0.894	12/13/2021@8:44:04 AM	
	Known Conc:		1.00				
480-193293-a-6	1	19	-3.34e-3	0.146	9.61e-3	12/13/2021@8:45:11 AM	
MS 480-193293-a-6	1	20	0.135	1.59	0.126	12/13/2021@8:46:17 AM	
480-193293-a-7	1	21	0.242	2.72	0.223	12/13/2021@8:47:23 AM	
480-193293-a-8	1	22	0.439	4.78	0.385	12/13/2021@8:48:29 AM	
480-193293-a-9	1	23	0.182	2.08	0.169	12/13/2021@8:49:35 AM	
480-193293-a-10	1	24	0.0412	0.613	0.0474	12/13/2021@8:50:42 AM	
480-193293-a-11	1	25	0.0582	0.791	0.0617	12/13/2021@8:51:47 AM	
480-193293-a-12	1	26	0.245	2.75	0.218	12/13/2021@8:52:53 AM	
CCV	1	S10	1.01	10.8	0.893	12/13/2021@8:53:59 AM	
	Known Conc:		1.00				
CCB	1	S11	-1.21e-3	0.168	0.0147	12/13/2021@8:55:05 AM	
	Known Conc:		0.00				
480-193293-a-13	1	27	0.172	1.99	0.161	12/13/2021@8:56:11 AM	
DU 480-193293-a-13	1	28	0.169	1.95	0.157	12/13/2021@8:57:17 AM	
MS 480-193293-a-13	1	29	0.370	4.06	0.331	12/13/2021@8:58:22 AM	
480-193303-a-1	1	30	-0.0161	0.0124	1.74e-3	12/13/2021@8:59:27 AM	
480-193303-a-2	1	31	-0.0181	-8.71e-3	-1.56e-3	12/13/2021@9:00:34 AM	
480-193303-a-3	1	32	-0.0141	0.0336	3.01e-3	12/13/2021@9:01:41 AM	

1ml → 5ml

500ul → 5ml

500ul → 5ml

480-193303-a-4	1	33	-0.0145	0.0286	1.58e-3	12/13/2021@9:02:47 AM	
480-193303-a-5	1	34	-0.0217	-0.0463	-3.16e-3	12/13/2021@9:03:54 AM	
480-193303-a-6	1	35	-0.0135	0.0396	2.23e-3	12/13/2021@9:05:00 AM	
480-193303-a-7	1	36	-0.0180	-7.89e-3	9.79e-4	12/13/2021@9:06:06 AM	
CCV	1	S10	1.01	10.8	0.890	12/13/2021@9:07:13 AM	
	Known Conc:		1.00				
CCB	1	S11	-1.34e-3	0.167	0.0138	12/13/2021@9:08:19 AM	
	Known Conc:		0.00				
MB	1	S11	1.06e-3	0.192	0.0145	12/13/2021@9:09:25 AM	
	Known Conc:		0.00				
LCS	1	S10	1.01	10.8	0.893	12/13/2021@9:10:31 AM	
	Known Conc:		1.00				
480-193303-a-8	1	37	-0.0150	0.0240	2.36e-3	12/13/2021@9:11:37 AM	
MS 480-193303-a-8	1	38	0.135	1.59	0.126	12/13/2021@9:12:43 AM	
480-193309-c-1	1	39	3.27	34.4	2.74	12/13/2021@9:13:49 AM	
480-193309-c-2	1	40	2.85	30.0	2.40	12/13/2021@9:14:55 AM	
480-193309-c-3	1	41	0.884	9.45	0.760	12/13/2021@9:16:01 AM	
480-193314-b-1	1	42	5.10	53.6	4.30	12/13/2021@9:17:06 AM	
480-193330-b-1	1	43	0.187	2.14	0.172	12/13/2021@9:18:12 AM	
480-193330-b-2	1	44	0.187	2.14	0.170	12/13/2021@9:19:17 AM	
CCV	1	S10	1.01	10.8	0.892	12/13/2021@9:20:23 AM	
	Known Conc:		1.00				
CCB	1	S11	3.95e-4	0.185	0.0152	12/13/2021@9:21:30 AM	
	Known Conc:		0.00				
480-193330-b-3	1	45	0.193	2.21	0.180	12/13/2021@9:22:35 AM	
DU 480-193330-b-3	1	46	0.195	2.23	0.182	12/13/2021@9:23:42 AM	
MS 480-193330-b-3	1	47	0.349	3.83	0.314	12/13/2021@9:24:49 AM	
480-193330-b-4	1	48	0.239	2.69	0.219	12/13/2021@9:25:55 AM	
480-193330-b-5	1	49	0.124	1.48	0.118	12/13/2021@9:27:02 AM	
480-193330-b-6	1	50	0.330	3.64	0.293	12/13/2021@9:28:08 AM	
480-193331-b-1^2	1	51	1.26	13.4	1.10	12/13/2021@9:29:14 AM	
480-193331-b-2	1	52	1.02	10.9	0.878	12/13/2021@9:30:21 AM	
480-193333-d-2	1	53	0.0182	0.372	0.0310	12/13/2021@9:31:27 AM	
480-193335-c-1	1	54	-8.98e-3	0.0869	5.35e-3	12/13/2021@9:32:33 AM	
CCV	1	S10	1.01	10.8	0.892	12/13/2021@9:33:39 AM	
	Known Conc:		1.00				
CCB	1	S11	7.03e-4	0.188	0.0159	12/13/2021@9:34:45 AM	
	Known Conc:		0.00				
MB	1	S11	3.18e-4	0.184	0.0150	12/13/2021@9:35:51 AM	
	Known Conc:		0.00				
LCS	1	S10	1.02	10.8	0.892	12/13/2021@9:36:57 AM	
	Known Conc:		1.00				
480-193335-c-2	1	55	8.97e-3	0.275	0.0210	12/13/2021@9:38:03 AM	
MS 480-193335-c-2	1	56	0.274	3.05	0.244	12/13/2021@9:39:09 AM	
480-193335-c-3	1	57	-6.71e-3	0.111	8.88e-3	12/13/2021@9:40:14 AM	
480-193335-c-4	1	58	0.416	4.54	0.363	12/13/2021@9:41:20 AM	
480-193335-c-5	1	59	0.0368	0.566	0.0434	12/13/2021@9:42:25 AM	
480-193335-c-6	1	60	0.0504	0.710	0.0470	12/13/2021@9:43:31 AM	
480-193336-e-1^10	1	61	0.519	5.62	0.463	12/13/2021@9:44:38 AM	
480-193336-e-2^500	1	62	0.801	8.58	0.705	12/13/2021@9:45:44 AM	
CCV	1	S10	1.01	10.8	0.893	12/13/2021@9:46:50 AM	
	Known Conc:		1.00				
CCB	1	S11	-1.44e-3	0.166	0.0139	12/13/2021@9:47:57 AM	
	Known Conc:		0.00				
480-193336-e-3^500	1	63	0.663	7.13	0.586	12/13/2021@9:49:03 AM	
480-193337-c-1	1	64	0.0217	0.408	0.0307	12/13/2021@9:50:10 AM	
480-193337-c-2	1	65	5.76e-3	0.241	0.0154	12/13/2021@9:51:16 AM	
DU 480-193337-c-2	1	66	3.80e-3	0.221	0.0146	12/13/2021@9:52:22 AM	
MS 480-193337-c-2	1	67	0.222	2.51	0.199	12/13/2021@9:53:29 AM	
480-193289-f-1	1	68	0.0582	0.791	0.0614	12/13/2021@9:54:35 AM	
480-193289-f-2	1	69	0.999	10.6	0.876	12/13/2021@9:55:40 AM	
480-193290-b-6	1	70	-0.0145	0.0294	2.30e-3	12/13/2021@9:56:46 AM	
480-193290-b-7^5	1	71	0.898	9.59	0.789	12/13/2021@9:57:52 AM	
480-193293-a-5	1	72	-9.46e-3	0.0819	5.80e-3	12/13/2021@9:58:57 AM	
CCV	1	S10	1.01	10.7	0.888	12/13/2021@10:00:04 AM	
	Known Conc:		1.00				
CCB	1	S11	-3.08e-3	0.149	0.0124	12/13/2021@10:01:10 AM	

25ml->5ml

500ul->5ml

10ml->5ml

10ml->5ml

1ml->5ml

Author: BufLachat

Date : 12/13/2021

	Known Conc:		0.00				
MB	1	S11	-7.27e-4	0.173	0.0138	12/13/2021@10:02:16 AM	
	Known Conc:		0.00				
LCS	1	S10	1.00	10.7	0.885	12/13/2021@10:03:22 AM	
	Known Conc:		1.00				
480-193290-b-2^5	1	73	1.65	17.5	1.44	12/13/2021@10:04:28 AM	
480-193290-b-2 ms^5	1	74	1.87	19.7	1.62	12/13/2021@10:05:33 AM	
480-193290-b-2 msd^5	1	75	1.77	18.7	1.54	12/13/2021@10:06:39 AM	
480-193293-a-11	1	76	0.0584	0.793	0.0635	12/13/2021@10:07:46 AM	
480-193309-c-1^5	1	77	0.900	9.61	0.792	12/13/2021@10:08:53 AM	
480-193309-c-2^2	1	78	1.74	18.4	1.51	12/13/2021@10:09:59 AM	
480-193314-b-1^5	1	79	1.19	12.7	1.01	12/13/2021@10:11:06 AM	
480-193336-e-1^5	1	80	0.0657	0.870	0.382	12/13/2021@10:12:12 AM	

1ml→5ml

1ml→5ml

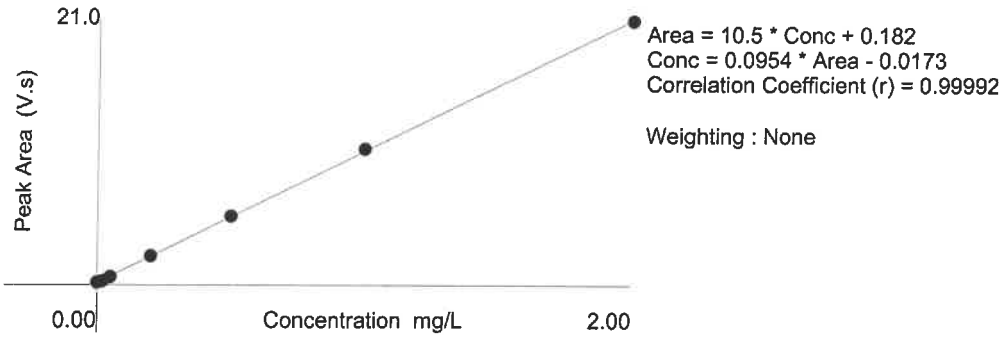
25ml→5ml

1ml→5ml

Table : 1 (Ammonia as N)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	2.00	1	21.0	1.76	0.0	0.5	1.99	12/6/2021	8:50:12 AM
2	1.00	1	10.8	0.911	0.0	-1.6	1.02	12/6/2021	8:51:03 AM
3	0.500	1	5.47	0.459	0.0	-0.8	0.504	12/6/2021	8:51:54 AM
4	0.200	1	2.31	0.193	0.0	-1.3	0.203	12/6/2021	8:52:45 AM
5	0.0500	1	0.638	0.0524	0.0	9.5	0.0436	12/6/2021	8:53:37 AM
6	0.0200	1	0.300	0.0245	0.0	23.3	0.0114	12/6/2021	8:54:29 AM
7	0.00	1	0.194	0.0150			1.26e-3	12/6/2021	8:55:21 AM

Figure : 1 (Ammonia as N)



Author: buflachat

Date : 12/6/2021

Original Run Filename: OM_12-6-2021_08-49-22AM.OMN Created: 12/6/2021 8:49:22 AM
Original Run Author's Signature: [buflachat]
Current Run Filename: OM_12-6-2021_08-49-22AM.OMN Last Modified: 12/6/2021 8:58:54 AM
Current Run Author's Signature: [buflachat]
Description: Default New Run

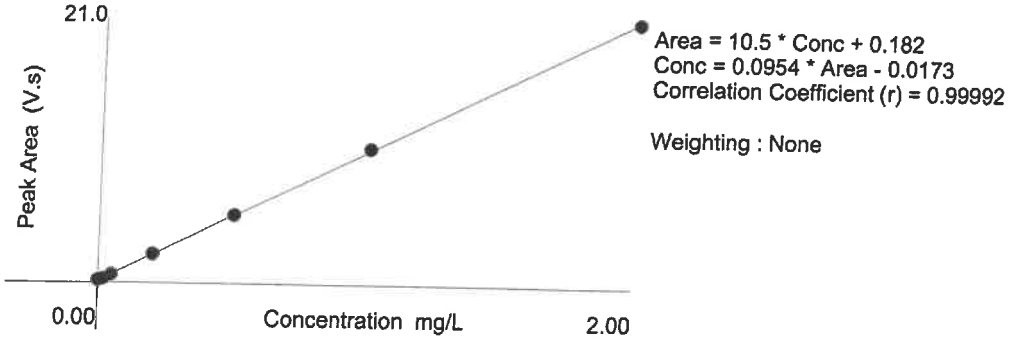
Sample	Rep.	Cup No.	Channel 1			Detection Time	Description
			Ammonia as N				
			Conc. (mg/L)	Area (V.s)	Height (V)		
2.0	1	S1	2.00	21.0	1.76	12/6/2021@8:50:12 AM	
1.0	1	S2	1.00	10.8	0.911	12/6/2021@8:51:03 AM	
0.5	1	S3	0.500	5.47	0.459	12/6/2021@8:51:54 AM	
0.2	1	S4	0.200	2.31	0.193	12/6/2021@8:52:45 AM	
0.05	1	S5	0.0500	0.638	0.0524	12/6/2021@8:53:37 AM	
0.02	1	S6	0.0200	0.300	0.0245	12/6/2021@8:54:29 AM	
0.0	1	S11	0.00	0.194	0.0150	12/6/2021@8:55:21 AM	
ICV	1	S10	1.01	10.7	0.901	12/6/2021@8:56:12 AM	
Calibration:			Table/Fig. : 1				
ICB	1	S11	1.16e-3	0.193	0.0157	12/6/2021@8:57:03 AM	

101% recovery

Table : 1 (Ammonia as N)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	2.00	1	21.0	1.76	0.0	0.5	1.99	12/6/2021	8:50:12 AM
2	1.00	1	10.8	0.911	0.0	-1.6	1.02	12/6/2021	8:51:03 AM
3	0.500	1	5.47	0.459	0.0	-0.8	0.504	12/6/2021	8:51:54 AM
4	0.200	1	2.31	0.193	0.0	-1.3	0.203	12/6/2021	8:52:45 AM
5	0.0500	1	0.638	0.0524	0.0	9.5	0.0436	12/6/2021	8:53:37 AM
6	0.0200	1	0.300	0.0245	0.0	23.3	0.0114	12/6/2021	8:54:29 AM
7	0.00	1	0.194	0.0150			1.26e-3	12/6/2021	8:55:21 AM

Figure : 1 (Ammonia as N)



Historical Data Summary Report

For Batch 608583

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result		Fail	3-Sigma Limits	Fail	Client Limits	
480-193289-F-1	S01U	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	0.061	.058	☑	0 - 0.051	☑	0 - 0.046	Same
480-193289-F-2	T04D	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	0.97	1.0	☑	0 - 0.023	☑	0 - 0.02	Same
480-193290-B-3	MW-19D	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	ND		☐	0 - 0	☐	0 - 0	
480-193290-B-4	MW-19S	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	ND		☐	0 - 0	☐	0 - 0	
480-193290-B-5	MW-7S	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	ND		☐	0 - 0.029	☐	0 - 0.031	
480-193290-B-6	MW-DUP	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	ND		☐	0 - 40.719	☐	0 - 30.48	
480-193290-B-7 ^5	MW-14S	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	5.0	4.5		☐	0 - 31.613	☐	3.36 - 32.16	
480-193290-B-8 ^10	MW-15S	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	10.0	12.5		☐	0 - 41.485	☐	1.04 - 35.4	
480-193290-B-9	MW-6S2	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	0.17		☐	0 - 0.279	☐	0.022 - 0.264	
480-193293-A-1	Duplicate	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.17		☐	0 - 0.83	☐	0 - 0.852	
480-193293-A-10	MW14	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.041		☐	0 - 0.554	☐	0.034 - 0.516	
480-193293-A-11	MW15	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.058	.058	☐	0 - 0.763	☑	0.061 - 0.684	Same
480-193293-A-12	MW50	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.25		☐	0 - 0.984	☐	0.12 - 1.068	
480-193293-A-13	MW6R	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.17		☐	0 - 0.57	☐	0.112 - 0.576	
480-193293-A-2	E-7A	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.55		☐	0 - 0.817	☐	0.128 - 0.888	
480-193293-A-3	GA31B	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.50		☐	0.029 - 1.441	☐	0.32 - 1.44	
480-193293-A-4	GA32C	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.38		☐	0 - 0.633	☐	0.07 - 0.54	
480-193293-A-5	GA33C	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	ND	ND	☐	0 - 0.606	☑	0.025 - 0.54	Same
480-193293-A-6	GA34A	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	ND		☐	0 - 0.947	☐	0 - 1.008	
480-193293-A-7	GA35A	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.24		☐	0 - 0.697	☐	0.128 - 0.684	
480-193293-A-8	GA36A	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.44		☐	0.05 - 0.867	☐	0.256 - 0.936	
480-193293-A-9	MW12R	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.18		☐	0 - 0.699	☐	0.104 - 0.756	
480-193303-A-1	01FB	350.1	Ammonia as N	Total/NA	ug/L	8	1.0	ND		☐	0 - 0	☐	0 - 0	
480-193303-A-2	MW207S	350.1	Ammonia as N	Total/NA	ug/L	8	1.0	ND		☐	0 - 0	☐	0 - 0	
480-193303-A-3	MW208S	350.1	Ammonia as N	Total/NA	ug/L	8	1.0	ND		☐	0 - 41.893	☐	0 - 45	
480-193303-A-4	MW211S	350.1	Ammonia as N	Total/NA	ug/L	8	1.0	ND		☐	0 - 0	☐	0 - 0	
480-193303-A-5	MW212S	350.1	Ammonia as N	Total/NA	ug/L	8	1.0	ND		☐	0 - 0	☐	0 - 0	
480-193303-A-6	MW213S	350.1	Ammonia as N	Total/NA	ug/L	8	1.0	ND		☐	0 - 0	☐	0 - 0	
480-193303-A-7	MW26S	350.1	Ammonia as N	Total/NA	ug/L	8	1.0	ND		☐	0 - 25.136	☐	0 - 27	
480-193303-A-8	MW30S2	350.1	Ammonia as N	Total/NA	ug/L	8	1.0	ND		☐	0 - 0	☐	0 - 0	
480-193330-B-1	MW401	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.19		☐	0.076 - 0.199	☐	0.096 - 0.204	
480-193330-B-2	MW402	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.19		☐	0.079 - 0.216	☐	0.088 - 0.204	
480-193330-B-3	MW403	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.19	.195	☐	0 - 0.248	☑	0 - 0.18	Same
480-193330-B-4	MW412	350.1	Ammonia as N	Total/NA	mg/L as N	8	1.0	0.24		☐	0.128 - 0.427	☐	0.184 - 0.432	
480-193330-B-5	MW413-21	350.1	Ammonia as N	Total/NA	mg/L as N2	8	1.0	0.12		☑	0.053 - 0.053	☑	0.042 - 0.064	OK
480-193330-B-6	MW414-21	350.1	Ammonia as N	Total/NA	mg/L as N2	8	1.0	0.33		☑	0.37 - 0.37	☐	0.296 - 0.444	
480-193331-B-1 ^2	MW-16S	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	2.0	2.5		☐	1.98 - 3.17	☐	1.76 - 3.36	
480-193331-B-2	MW-16D	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	1.0		☐	0.577 - 1.208	☐	0.544 - 1.2	
480-193335-C-1	MW-12AA	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND		☐	0 - 0.108	☐	0 - 0.089	

Eurofins Pittsburgh 2770 Loop

Historical Data Summary Report

For Batch 608583

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193335-C-2	MW-12BBB	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.047	☐	0 - 0.05
480-193335-C-3	MW-13A	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.369	☐	0 - 0.396
480-193335-C-4	MW-13B	350.1	Ammonia	Total/NA	mg/L	8	1.0	0.42	☐	0.267 - 0.61	☐	0.296 - 0.672
480-193335-C-5	MW-17A	350.1	Ammonia	Total/NA	mg/L	8	1.0	0.037	☐	0 - 0.162	☐	0 - 0.168
480-193335-C-6	MW-17B	350.1	Ammonia	Total/NA	mg/L	8	1.0	0.050	☐	0 - 0.105	☐	0 - 0.096
480-193336-E-2 ^50PLC-2A		350.1	Ammonia	Total/NA	mg/L	8	500.0	401	☐	144.578 - 837.422	☐	163.2 - 708
480-193336-E-3 ^50PLC-1B		350.1	Ammonia	Total/NA	mg/L	8	500.0	332	☐	275.379 - 684.871	☐	281.6 - 696
480-193337-C-1	CD-1	350.1	Ammonia	Total/NA	mg/L	8	1.0	0.022	☐	0 - 0.067	☐	0 - 0.058
480-193337-C-2	CD-1RA	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.047	☐	0 - 0.038

608564

Solutions Used: Konelab AQUA20 & 20XT

TKN Reagent	I.D	Expires
Sodium Salicylate	6798093	30 Dec 2021
Sodium Hypochlorite	6803876	20 Dec 2021
Buffer	6804144	20 Dec 2021

Standards:

Name	ID	Expiration
Ammonia as N 1000ppm	6258170	11/03/2022
CCV (2.5ppm)	6814081	12/14/2021
Second Source Ammonia as N 1000 ppm (ICV)	6438487	08/31/2022
Total Kjeldahl Nitrogen 1000ppm:		
LCS (2.5ppm)		
MS (1.0ppm)	6103067	05/28/2022

TKN Curve Kone 1: 12-01-2021
Batch 607284
CURVE (5.0 ppm): 6797924
ICV (2.5 ppm): 6800303

TKN Curve Gallery 1: 11-22-2021
Batch 606076
CURVE (5.0 ppm): 6790643
ICV (2.5 ppm): 6791791

608564

Laboratory
Analyzer User

12/13/2021 9:34

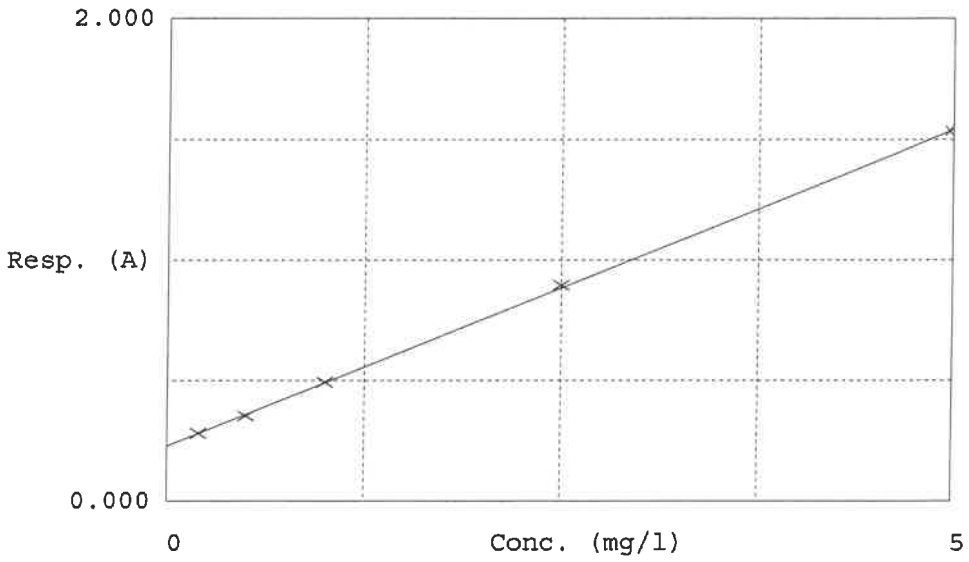
Test TKN

Accepted 12/1/2021 4:55

Factor 3.815
Bias 0.230

Coeff. of det. 0.999837

Errors Meas. error



	Calibrator	Response	Calc. con.	Conc.	Errors
1	TKN-5.0	0.282	0.1989	0.2000	E.e. out of limit
2	TKN-5.0	0.354	0.4748	0.5000	E.e. out of limit
3	TKN-5.0	0.493	1.0051	1.0000	E.e. out of limit
4	TKN-5.0	0.895	2.5394	2.5000	E.e. out of limit
5	TKN-5.0	1.535	4.9818	5.0000	E.e. out of limit

608564

Laboratory
Analyzer User

12/13/2021 9:34

Performed 12/13/2021 6:54
MAX acceptable SD 2.0 mA

Wavelength	Abs (mA)	SD (mA)	SignGain	RefGain	Voltage (V)
340 nm	-298.9	0.6	0	0	6.2
405 nm	-345.2	0.9	2	2	6.0
420 nm	-426.5	1.0	2	2	6.2
460 nm	-307.0	0.7	1	1	6.0
480 nm	-301.5	0.7	0	0	6.2
520 nm	-298.7	0.6	0	0	6.2
540 nm	-298.2	0.6	0	0	6.2
575 nm	-298.0	0.5	0	0	6.2
600 nm	-297.5	0.5	0	0	6.2
630 nm	-297.4	0.5	0	0	5.7
660 nm	-297.8	0.4	0	0	5.7
700 nm	-297.7	0.4	0	0	5.4
880 nm	-273.3	0.3	0	0	5.1

608564

Laboratory
Analyzer User

Date : 12/13/2021
Time : 9:34

Test : TKN
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCV TKN	2.627	12/13/2021 7:40		
CCB TKN	0.099	12/13/2021 7:40		
mb 480-608522/1-	0.093	12/13/2021 7:40	R	
lcs 480-608522/2	2.399	12/13/2021 7:40	R	
mb 480-608523/1-	0.085	12/13/2021 7:40	R	
lcs 480-608523/2	2.570	12/13/2021 7:40	R	
CCV TKN	2.618	12/13/2021 7:43		
CCB TKN	0.133	12/13/2021 7:43		
180-130096-c-2-b	3.301	12/13/2021 8:04		
180-130718-f-3-a	1.802	12/13/2021 8:04		
180-130718-f-4-a	1.468	12/13/2021 8:04		
180-130718-f-5-a	1.822	12/13/2021 8:04		
480-192973-a-1-b	0.027	12/13/2021 8:05		
CCV TKN	2.567	12/13/2021 8:13		
CCB TKN	0.108	12/13/2021 8:13		
480-192973-a-1-c	-0.082	12/13/2021 8:13		
480-193206-c-1-a	0.649	12/13/2021 8:13		
480-193206-c-1-b	0.225	12/13/2021 8:14		
480-193206-c-2-a	0.424	12/13/2021 8:14		
480-193206-c-5-a	0.167	12/13/2021 8:14		
480-193206-c-6-a	0.834	12/13/2021 8:14		
480-193206-c-7-a	0.097	12/13/2021 8:14		
480-193206-c-8-a	0.295	12/13/2021 8:14		
480-193206-c-9-a	0.795	12/13/2021 8:14		
480-193206-c-10-	0.707	12/13/2021 8:14		
CCV TKN	2.556	12/13/2021 8:23		
CCB TKN	0.107	12/13/2021 8:23		
480-193206-c-11-	0.375	12/13/2021 8:23		
193206-C-11 MS	1.225	12/13/2021 8:23		
480-193206-c-12-	0.108	12/13/2021 8:23		
480-193232-a-1-a	1.881	12/13/2021 8:23		
480-193232-a-1-b	1.981	12/13/2021 8:23		
480-193335-c-1-a	0.257	12/13/2021 8:23		
480-193335-c-2-a	0.488	12/13/2021 8:23		
480-193335-c-3-a	0.315	12/13/2021 8:23		
480-193335-c-4-a	1.052	12/13/2021 8:23		
480-193335-c-5-a	0.286	12/13/2021 8:23		
CCV TKN	2.574	12/13/2021 8:31		
CCB TKN	0.108	12/13/2021 8:31		
480-193335-c-6-a	0.369	12/13/2021 8:31		
480-193335-c-6-b	1.227	12/13/2021 8:31		
480-193336-e-1-a	1.199	12/13/2021 8:31		
480-193336-e-2-a	1.807	12/13/2021 8:31		
480-193336-e-3-a	1.173	12/13/2021 8:31		
480-193337-c-1-a	0.445	12/13/2021 8:31		
480-193337-c-2-a	0.654	12/13/2021 8:31		
CCV TKN	2.612	12/13/2021 8:45		
CCB TKN	0.111	12/13/2021 8:45		
CCV TKN	2.682	12/13/2021 9:23		
CCB TKN	0.131	12/13/2021 9:23		
180-130718-f-1-a	9.277	12/13/2021 9:23	R	1+1.0
180-130718-f-1-b	12.187	12/13/2021 9:23	R	1+4.0
180-130718-f-2-a	8.508	12/13/2021 9:23	R	1+1.0

Laboratory
Analyzer User

Date : 12/13/2021
Time : 9:34

Test : TKN
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
180-130727-e-1-a	6.981	12/13/2021 9:23	R	1+1.0
180-130727-e-2-a	22.244	12/13/2021 9:30	R	1+9.0
620-2190-a-1-a	11.420	12/13/2021 9:30	R	1+4.0
620-2190-a-2-a	7.470	12/13/2021 9:30	R	1+1.0
CCV TKN	2.657	12/13/2021 9:32		
CCB TKN	0.139	12/13/2021 9:32		

Historical Data Summary Report

For Batch 608564

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193206-C-10-A	MW-18A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.71	☐	0 - 3.041	☐	0.392 - 2.64
480-193206-C-11-A	MW-18B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.38	☐	0 - 0.945	☐	0 - 0.852
480-193206-C-2-A	MW-11B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.42	☐	0 - 1.036	☐	0.192 - 1.092
480-193206-C-5-A	MW-14A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 13.755	☐	0 - 9.24
480-193206-C-6-A	MW-14B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.83	☐	0 - 1.191	☐	0 - 1.08
480-193206-C-7-A	MW-15A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.675	☐	0 - 0.552
480-193206-C-8-A	MW-15B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.30	☐	0 - 0.909	☐	0 - 0.864
480-193206-C-9-A	MW-16A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.79	☐	0 - 2.59	☐	0.192 - 2.04
480-193335-C-1-A	MW-12AA	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.26	☐	0 - 1.013	☐	0 - 0.852
480-193335-C-2-A	MW-12BBB	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.49	☐	0 - 0.769	☐	0 - 0.516
480-193335-C-3-A	MW-13A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.31	☐	0 - 1.444	☐	0 - 1.44
480-193335-C-4-A	MW-13B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	1.1	☐	0.478 - 2.122	☐	0.8 - 2.16
480-193335-C-5-A	MW-17A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.29	☐	0 - 0.725	☐	0 - 0.504
480-193335-C-6-A	MW-17B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.37	☐	0 - 2.817	☐	0 - 3
480-193336-E-1-A	SLC-2A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	6.0	☐	0 - 252.889	☐	0 - 266.4
480-193336-E-2-A	PLC-2A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	452	☐	105.869 - 867.131	☐	172 - 766.8
480-193336-E-3-A	PLC-1B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	293	☑	295.619 - 629.131	☐	284.8 - 636
480-193337-C-1-A	CD-1	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.45	☐	0 - 1.772	☐	0 - 1.8
480-193337-C-2-A	CD-1RA	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.65	☐	0 - 1.069	☐	0 - 0.852

TKN Digestion Logbook Form
Rev. 1
05/16/2017

TestAmerica Buffalo

TOTAL KJELDAHL NITROGEN DIGESTION LOG – Method 351.2

Date Digested	Prep Analyst	Job #	Sample ID	Flask #	Dilution	Comments
12-12-21	KEB	ICAL	5.0 PPM	1	1X	+ 0.125 mL NH3 STD
"	"	MB	BLANK	2	"	
"	"	LCS	2.5 PPM	3	"	+ 0.0625 mL TKN STD
"	"	180 130096	C-2	4	25x	1mL↑25mL
"	"	180 130718	F-1	5	"	"
"	"	"	F-1 MS	6	"	+0.025mL TKN STD
"	"	"	F-2	7	"	"
"	"	"	F-3	8	"	"
"	"	"	F-4	9	"	"
"	"	"	F-5	10	"	"
"	"	180 130727	E-1	11	5x	5mL↑25mL
"	"	"	E-2	12	"	"
"	"	192973	A-1	13	1X	
"	"	"	A-1 MS	14	"	+0.025mL TKN STD
"	"	193206	C-1	15	"	
"	"	"	C-1 DU	16	"	
"	"	"	C-2	17	"	
"	"	"	C-5	18	"	
"	"	"	C-6	19	"	
"	"	"	C-7	20	"	
"	"	"	C-8	21	"	
"	"	"	C-9	22	"	
"	"	"	C-10	23	"	

EPPENDORFS: Q370160, H10557K, R1515HF
Acid Digestion Solution: 6805429
ICAL NH3 Standard: 6258170
LCS/MS TKN Standard: 6103068
Batch #: 609522

5pt TALS # 6813862

TestAmerica Buffalo

TOTAL KJELDAHL NITROGEN DIGESTION LOG – Method 351.2

Date Digested	Prep Analyst	Job #	Sample ID	Flask #	Dilution	Comments
12-12-21	KEB	MB	BLANK	24	1x	
"	"	LCS	2.5	25	"	+ 0.0625 ml TKN STD
"	"	193206	C-11	26	"	
"	"	"	C-11 MS	27	"	+0.025mL TKN STD
"	"	"	C-12	28	"	
"	"	193232	A-1	29	"	
"	"	"	A-1 DU	30	"	
"	"	193335	C-1	31	"	
"	"	"	C-2	32	"	
"	"	"	C-3	33	"	
"	"	"	C-4	34	"	
"	"	"	C-5	35	"	
"	"	"	C-6	36	"	
"	"	"	C-6 MS	37	"	+0.025mL TKN STD
"	"	193336	E-1	38	5x	5mL ↑ 25mL
"	"	"	E-2	39	250x	0.10mL ↑ 25mL
"	"	"	E-3	40	"	"
"	"	193337	C-1	41	1x	
"	"	"	C-2	42	"	
"	"	620 2190	A-1	43	5x	5mL ↑ 25mL
"	"	"	A-2	44	"	"
"	"	DIL	DIL	45	DIL	DIL
"	"	"	"	46	"	"

EPPENDORFS:
Acid Digestion Solution: 6805429
ICAL NH3 Standard: 6258170
LCS/MS TKN Standard: 6103068
Batch #: 608523

Calibration

Calib 596905-0 / Chemical Oxygen Demand

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Concentration
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

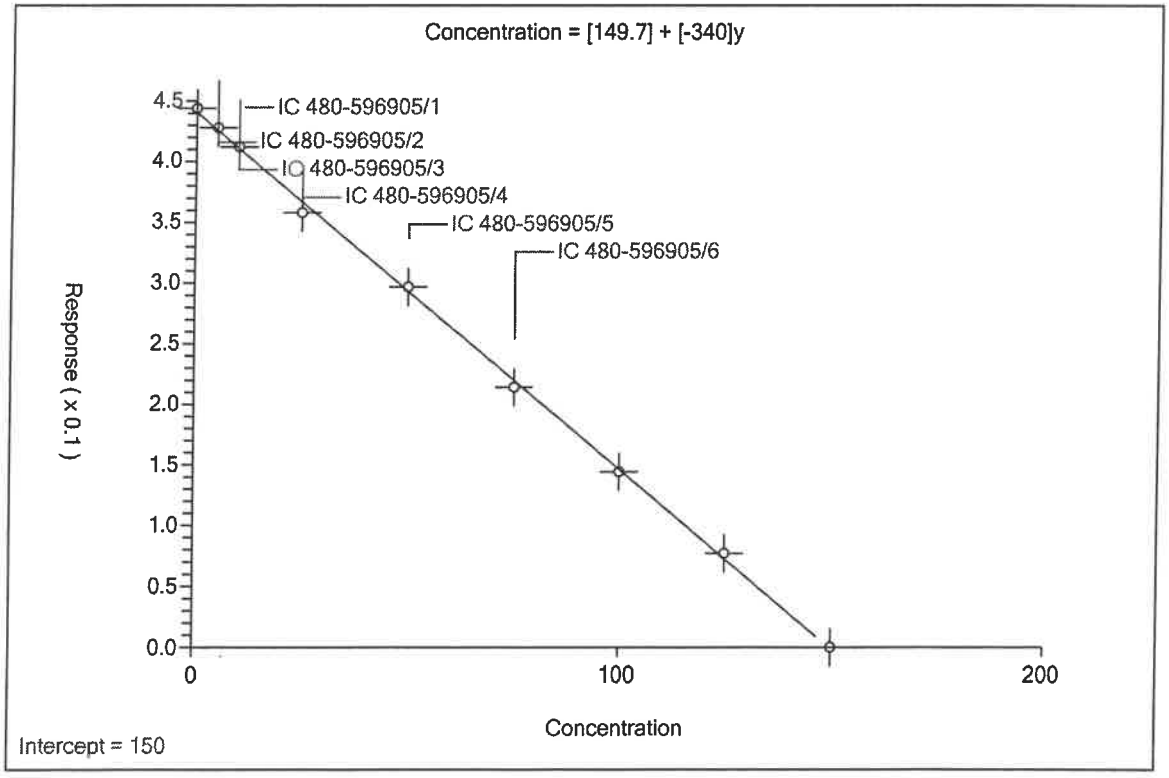
Curve Coefficients

Intercept:	149.7
Slope:	-340

Error Coefficients

Standard Error:	1.67
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999 (0.999)

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 480-596905/1	0.0	0.444			∞	Y
2	IC 480-596905/2	5.0	0.428			0.0856	Y
3	IC 480-596905/3	10.0	0.412			0.0412	Y
4	IC 480-596905/4	25.0	0.358			0.01432	Y
5	IC 480-596905/5	50.0	0.297			0.00594	Y
6	IC 480-596905/6	75.0	0.214			0.002853	Y
7	IC 480-596905/7	100.0	0.144			0.00144	Y
8	IC 480-596905/8	125.0	0.077			0.000616	Y
9	IC 480-596905/9	150.0	0.0			0.0	Y



Laboratory Bench Sheet
Chemical Oxygen Demand
Genesys 30

EurofinsTestAmerica - Buffalo

Analyst:	CSS
Start Date:	09/17/2021
Start Time:	17:55
End Date:	09/17/2021
End Time:	19:55
Curve Date	09/17/21
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.425
Std. 2	5.000	0.412
Std. 3	10.000	0.390
Std. 4	25.000	0.356
Std. 5	50.000	0.284
Std. 6	75.000	0.211
Std. 7	100.000	0.142
Std. 8	125.000	0.073
STD 9	150.000	0.001

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor # A	150.5	150.1
Reactor #		
Reactor #		
Reactor #		
Reactor #		

* Temperature Acceptance Range = 148-152 °C

BATCH # 596915

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	-0.99987
Slope:	-0.00282
Intercept:	0.42386
COD Tube sourc	HACH
Lot#	
Expiration date:	

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25

CCV Information:

Lot #	
Concentration (mg/L):	1000
CCV	
True value	75

Matrix Spike Information:

Lot#:	
Concentration (mg/L):	1000
MS	
True Value	50

STD: 6484238

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
ICV 0	0 PPM	1	2.000	0.444	150.5	1	Blank		N	9/17/21	17:55
ICV 5	5 PPM	2	2.000	0.428	150.5	1	6664858				
ICV 10	10 PPM	3	2.000	0.412	150.5	1	6664860				
ICV 25	25 PPM	4	2.000	0.358	150.5	1	6664862				
ICV 50	50 PPM	5	2.000	0.297	150.5	1	6664865				
ICV 75	75 PPM	6	2.000	0.214	150.5	1	6664867				
ICV 100	100 PPM	7	2.000	0.144	150.5	1	6664885				
ICV 125	125 PPM	8	2.000	0.077	150.5	1	6664887				
ICV 150	150 PPM	9	2.000	0.000	150.5	1	6664889				
ICV	ICV	10	2.000	0.089 0.324	150.5	1/2	5mL → 1000mL	6558984			
ICB	ICB	11	2.000	0.445	150.5	1					
		~~12~~	~~2.000~~								
STD	CCV	13	2.000		150.5	~~ess~~	9/17/21	~~200.67%~~			
BLANK	CCB	14	2.000		150.5						
		~~15~~	~~2.000~~								

ICV = 139.84 / 147

ICV = 95.1%

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12/27/2021

ICV =

Historical Data Summary Report

For Batch 609052

609052

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193203-D-1	88-148-1	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	5.0	597	☐	169.562 - 662.938	☐	196.8 - 628.8
480-193203-D-2	96-148-2R	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	2.0	231	☐	111.905 - 345.095	☐	139.2 - 332.4
480-193206-C-1	MW-11A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 17.092	☐	0 - 18.36
480-193206-C-10	MW-18A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	17.4	☐	5.858 - 27.967	☐	10.64 - 29.04
480-193206-C-11	MW-18B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 32.839	☐	0 - 25.92
480-193206-C-2	MW-11B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193206-C-5	MW-14A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 28.493	☐	0 - 24.24
480-193206-C-6	MW-14B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 45.84	☐	0 - 40.08
480-193206-C-7	MW-15A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 26.495	☐	0 - 24.24
480-193206-C-8	MW-15B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193206-C-9	MW-16A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	13.4	☐	0 - 40.877	☐	0 - 31.32
480-193228-E-1	NDT	410.4	Chemical Oxygen Demand	Total/NA	mg/L	1	40.0	3600	☑	4300 - 4300	☐	3440 - 5160
480-193302-D-1	WW-EFF	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	400.0	24100	☐	5577.86 - 50372.14	☐	16240 - 53760
480-193302-D-2	WW-RANE	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	400.0	27000	☐	0 - 60950.704	☐	9040 - 56040
480-193302-D-3	WW-EQ TANK	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	400.0	23800	☐	6045.978 - 53604.022	☐	14400 - 51960
480-193335-C-1	MW-12AA	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 28.617	☐	0 - 25.92
480-193335-C-2	MW-12BBB	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-C-3	MW-13A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 49.043	☐	0 - 52.68
480-193335-C-4	MW-13B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	14.7	☐	0 - 51.46	☐	0 - 43.68
480-193335-C-5	MW-17A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 29.495	☐	0 - 22.44
480-193335-C-6	MW-17B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 19.139	☐	0 - 15.24
480-193336-E-1	SLC-2A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	25.9	☐	0 - 2504.811	☐	20.4 - 2580
480-193336-E-2	PLC-2A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	10.0	739	☐	0 - 1679.337	☐	69.2 - 1356
480-193336-E-3	PLC-1B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	10.0	327	☐	0 - 1546.828	☐	57.92 - 1416
480-193336-E-5	SLC-1A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	5.0	562	☐	0 - 2504.811	☐	20.4 - 2580
480-193336-E-6	PLC-1A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	5.0	519	☐	0 - 1207.708	☐	65.04 - 1131.6
480-193336-E-7	LD-1	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	24.6	☐	0 - 113.082	☐	15.52 - 111.12
480-193337-C-1	CD-1	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193337-C-2	CD-1RA	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 18.731	☐	0 - 15.6
480-193367-C-1	MW-1	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	13	☐	0 - 25.111	☐	0 - 24
480-193367-C-2	MW-2A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	66	☐	0 - 614.359	☐	44 - 636
480-193367-C-3	MW-3	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	16	☐	0 - 58.896	☐	0 - 56.4
480-193367-C-4	MW-4	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	21	☐	0 - 78.976	☐	8 - 76.8
480-193367-C-5	MW-5	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 11.172	☐	0 - 12
480-193385-F-1	MW-21SR	410.4	Chemical Oxygen Demand	Total/NA	mg/L	1	1.0	14.4	☑	42.7 - 42.7	☑	34.16 - 51.24 OK DP
480-193388-D-1	Leachate	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	20.0	1610	☐	570.995 - 2329.005	☐	856 - 2400
480-193392-B-1	Stormwater	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	89.5	☐	0 - 410.826	☐	60.4 - 396
480-193406-B-1	EVLCH1	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	10.0	1320	☐	0 - 3299.786	☐	475.2 - 3504

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Laboratory Bench Sheet
Chemical Oxygen Demand
Genesys 30

EurofinsTestAmerica - Buffalo

CCV = 6798790
LCS = 6798792
MS = 6484237

Analyst:	CSS
Start Date:	12/15/2021
Start Time:	18:00
End Date:	12/15/2021
End Time:	20:00
Curve Date	09/17/21
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.444
Std. 2	5.000	0.428
Std. 3	10.000	0.412
Std. 4	25.000	0.358
Std. 5	50.000	0.297
Std. 6	75.000	0.214
Std. 7	100.000	0.144
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2	150,1	150,3
Reactor #1	150,3	150,0
Reactor #A	149,9	150,2
Reactor #B	149,8	150,2
Reactor #		

* Temperature Acceptance Range = 148-152 °C

Intercept:	0.44013
COD Tube sourc	HACH
Lot#	
Expiration date:	

BATCH # 609052

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99960**
Slope:	**-0.00294**

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25

CCV Information:

Lot #	
Concentration (mg/L):	1000
CCV True value	75

Matrix Spike Information:

Lot#:	
Concentration (mg/L):	1000
MS True Value	50

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
STD	CCV	1	2.000	0.218	149.7	1		199.66%	N	12/15/21	18:00
BLANK	CCB	2	2.000	0.457	149.7	1					
BLANK	MB	3	2.000	0.446	149.7	1					
STD	LCS	4	2.000	0.364	149.7	1		599%			
193042	D-7	5	2.000	0.390		1					
	D-7 MS	6	2.000	0.233		1					
	D-7 MSD	7	2.000	0.236		1					
193131	F-1	8	2.000	0.293		1					
	F-2	9	2.000	0.147		5					
	F-3	10	2.000	0.131		5					
	F-4	11	2.000	0.178		5					
193204	B-1	12	2.000	0.334		1					
STD	CCV	13	2.000	0.219	149.7	1		199.66%			
BLANK	CCB	14	2.000	0.444	149.7	1					
193204	B-4	15	2.000	0.401		1					

Laboratory Bench Sheet
Chemical Oxygen Demand
Genesys 30

EurofinsTestAmerica - Buffalo

Analyst:	CSS
Start Date:	12/15/2021
Start Time:	18:00
End Date:	12/15/2021
End Time:	20:00
Curve Date	09/17/21
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.444
Std. 2	5.000	0.428
Std. 3	10.000	0.412
Std. 4	25.000	0.358
Std. 5	50.000	0.297
Std. 6	75.000	0.214
Std. 7	100.000	0.144
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2		
Reactor #1		
Reactor #A		
Reactor #B		
Reactor #		

Intercept:	**0.44013**
COD Tube sourc	HACH
Lot#	
Expiration date:	

BATCH # 609052

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99960**
Slope:	**-0.00294**

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25
CCV Information:	
Lot #	
Concentration (mg/L):	1000
CCV	True value 75
Matrix Spike Information:	
Lot#:	
Concentration (mg/L):	1000
MS	True Value 50

* Temperature Acceptance Range = 148-152 °C

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
193204	B-4 MS	16	2.000	0.243		1			N	12/15/21	18:00
	B-2	17	2.000	0.432		1					
	B-3	18	2.000	0.286		1					
193203	D-1	19	2.000	0.089		5					
	D-2	20	2.000	0.100		2					
193206	C-1	21	2.000	0.424		1					
	C-2	22	2.000	0.443		1					
	C-5	23	2.000	0.444		1					
	C-7	24	2.000	0.440		1					
STD	CCV	25	2.000	0.212	149.7	1		199.66%			
BLANK	CCB	26	2.000	0.450	149.7	1					
BLANK	MB	27	2.000	0.452	149.7	1					
STD	LCS	28	2.000	0.366	149.7	1		599%			
193206	C-6	29	2.000	0.443		1					
	C-6 MS	30	2.000	0.270		1					

Laboratory Bench Sheet
Chemical Oxygen Demand
Genesys 30

EurofinsTestAmerica - Buffalo

Analyst:	CSS
Start Date:	12/15/2021
Start Time:	18:00
End Date:	12/15/2021
End Time:	20:00
Curve Date	09/17/21
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.444
Std. 2	5.000	0.428
Std. 3	10.000	0.412
Std. 4	25.000	0.358
Std. 5	50.000	0.297
Std. 6	75.000	0.214
Std. 7	100.000	0.144
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2		
Reactor #1		
Reactor #A		
Reactor #B		
Reactor #		

* Temperature Acceptance Range = 148-152 °C

Intercept:	**0.44013**
COD Tube sourc	HACH
Lot#	
Expiration date:	

BATCH # 609052

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99960**
Slope:	**-0.00294**

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25
CCV Information:	
Lot #	
Concentration (mg/L):	1000
CCV	
True value	75
Matrix Spike Information:	
Lot#:	
Concentration (mg/L):	1000
MS	
True Value	50

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
193206	C-6 MSD	31	2.000	0.280		1			N	12/15/21	18:00
	C-8	32	2.000	0.436		1					
	C-9	33	2.000	0.401		1					
	C-10	34	2.000	0.389		1					
	C-11	35	2.000	0.453		1					
	C-12	36	2.000	0.446		1					
STD	CCV	37	2.000	0.214	149.7	1		199.66%			
BLANK	CCB	38	2.000	0.449	149.7	1					
193219	C-1	39	2.000	0.448		1					
	C-1 MS	40	2.000	0.269		1					
193270	D-1	41	2.000	0.432		1					
	D-2	42	2.000	0.447		1					
193310	B-1	43	2.000	0.215		1					
	B-2	44	2.000	0.342		1					
	B-3	45	2.000	0.408		1					

Laboratory Bench Sheet
Chemical Oxygen Demand
Genesys 30

EurofinsTestAmerica - Buffalo

Analyst:	CSS
Start Date:	12/15/2021
Start Time:	18:00
End Date:	12/15/2021
End Time:	20:00
Curve Date	09/17/21
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.444
Std. 2	5.000	0.428
Std. 3	10.000	0.412
Std. 4	25.000	0.358
Std. 5	50.000	0.297
Std. 6	75.000	0.214
Std. 7	100.000	0.144
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2		
Reactor #1		
Reactor #A		
Reactor #B		
Reactor #		

BATCH # 609052

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99960**
Slope:	**-0.00294**
Intercept:	**0.44013**
COD Tube sourc	HACH
Lot#	
Expiration date:	

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25

CCV Information:

Lot #	
Concentration (mg/L):	1000
CCV	
True value	75

Matrix Spike Information:

Lot#:	
Concentration (mg/L):	1000
MS	
True Value	50

* Temperature Acceptance Range = 148-152 °C

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
193310	B-4	46	2.000	0.402		1			N	12/15/21	18:00
	B-5	47	2.000	0.428		1					
	B-6	48	2.000	0.161		5					
STD	CCV	49	2.000	0.218	149.7	1		199.66%			
BLANK	CCB	50	2.000	0.457	149.7	1					
BLANK	MB	51	2.000	0.454	149.7	1					
STD	LCS	52	2.000	0.367	149.7	1		599%			
193353	D-2	53	2.000	0.129		1					
	D-2 MS	54	2.000	0.032		1					
	D-2 MSD	55	2.000	0.030		1					
193310	B-7	56	2.000	0.356		1					
	B-8	57	2.000	0.376		1					
193335	C-1	58	2.000	0.432		1					
	C-2	59	2.000	0.430		1					
	C-3	60	2.000	0.457		1					

Laboratory Bench Sheet
Chemical Oxygen Demand
Genesys 30

EurofinsTestAmerica - Buffalo

Analyst:	CSS
Start Date:	12/15/2021
Start Time:	18:00
End Date:	12/15/2021
End Time:	20:00
Curve Date	09/17/21
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.444
Std. 2	5.000	0.428
Std. 3	10.000	0.412
Std. 4	25.000	0.358
Std. 5	50.000	0.297
Std. 6	75.000	0.214
Std. 7	100.000	0.144
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2		
Reactor #1		
Reactor #A		
Reactor #B		
Reactor #		

BATCH # 609052

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99960**
Slope:	**-0.00294**
Intercept:	**0.44013**
COD Tube sourc	HACH
Lot#	
Expiration date:	

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25
CCV Information:	
Lot #	
Concentration (mg/L):	1000
CCV	True value 75
Matrix Spike Information:	
Lot#:	
Concentration (mg/L):	1000
MS	True Value 50

* Temperature Acceptance Range = 148-152 °C

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
STD	CCV	61	2.000	0.216	149.7	1		199.66%	N	12/15/21	18:00
BLANK	CCB	62	2.000	0.447	149.7	1					
193335	C-6	63	2.000	0.416		1					
	C-6 MS	64	2.000	0.274		1					
	C-4	65	2.000	0.397		1					
	C-5	66	2.000	0.417		1					
193336	E-1	67	2.000	0.364		1					
	E-2	68	2.000	0.223		10					
	E-3	69	2.000	0.344		10					
	E-5	70	2.000	0.110		5					
	E-6	71	2.000	0.135		5					
	E-7	72	2.000	0.368		1					
STD	CCV	73	2.000	0.220	149.7	1		199.66%			
BLANK	CCB	74	2.000	0.449	149.7	1					
BLANK	MB	75	2.000	0.446	149.7	1					

Analyst:	CSS
Start Date:	12/15/2021
Start Time:	18:00
End Date:	12/15/2021
End Time:	20:00
Curve Date	09/17/21
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.444
Std. 2	5.000	0.428
Std. 3	10.000	0.412
Std. 4	25.000	0.358
Std. 5	50.000	0.297
Std. 6	75.000	0.214
Std. 7	100.000	0.144
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2		
Reactor #1		
Reactor #A		
Reactor #B		
Reactor #		

Intercept:	**0.44013**
COD Tube sourc	HACH
Lot#	
Expiration date:	

BATCH # 409052

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99960**
Slope:	**-0.00294**
CCV	True value 75

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25

CCV Information:

Lot #	
Concentration (mg/L):	1000

Matrix Spike Information:

Lot#:	
Concentration (mg/L):	1000
MS	True Value 50

* Temperature Acceptance Range = 148-152 °C

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
STD	LCS	76	2.000	0.369	149.7	1		599%	N	12/15/21	18:00
193367	C-1	77	2.000	0.402		1					
	C-1 MS	78	2.000	0.232		1					
	C-1 MSD	79	2.000	0.241		1					
	C-2	80	2.000	0.245		1					
	C-3	81	2.000	0.392		1					
	C-4	82	2.000	0.380		1					
	C-5	83	2.000	0.442		1					
193406	B-1	84	2.000	0.053		10					
STD	CCV	85	2.000	0.218	149.7	1		199.66%			
BLANK	CCB	86	2.000	0.444	149.7	1					
193337	C-1	87	2.000	0.445		1					
	C-1 MS	88	2.000	0.259		1					
	C-2	89	2.000	0.450		1					
193338	E-1	90	2.000	0.176		40					

Analyst:	CSS
Start Date:	12/15/2021
Start Time:	18:00
End Date:	12/15/2021
End Time:	20:00
Curve Date	09/17/21
EQL	10.0 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.444
Std. 2	5.000	0.428
Std. 3	10.000	0.412
Std. 4	25.000	0.358
Std. 5	50.000	0.297
Std. 6	75.000	0.214
Std. 7	100.000	0.144
Std. 8	125.000	0.077
STD 9	150.000	0.000

Reactor Temperatures

	Measured Temperature	* Corrected Temperature (after correction Factor applied) *
Reactor #2		
Reactor #1		
Reactor #A		
Reactor #B		
Reactor #		

BATCH # 609052

Instrument Information

Instrument:	GENESYS 30
Wavelength:	420
Parameter:	COD LOW
Corr. Coef:	**-0.99960**
Slope:	**-0.00294**
Intercept:	**0.44013**
COD Tube sourc	HACH
Lot#	
Expiration date:	

LCS Information:

Lot #	
Concentration (mg/L)	1000
ICV	25
CCV Information:	
Lot #	
Concentration (mg/L):	1000
CCV True value	75
Matrix Spike Information:	
Lot#:	
Concentration (mg/L):	1000
MS True Value	50

* Temperature Acceptance Range = 148-152 °C

Job #	Sample ID	Vial #	Sample vol.	Sample Abs.	Conc. (mg/l)	Prep DF	Final Conc. mg/L	% Rec.	chloride	Start Date	Start Time
193302	D-1	91	2.000	0.263		400	250 mL in 100 mL		N	12/15/21	18:00
	D-2	92	2.000	0.242		400					
	D-3	93	2.000	0.265		400					
193385	F-1	94	2.000	0.398		1					
193392	B-1	95	2.000	0.177		1					
193388	D-1	96	2.000	0.204		20					
STD	CCV	97	2.000	0.218	149.7	1		200%			
BLANK	CCB	98	2.000	0.450	149.7	1					
~~BLANK~~	~~MB~~	~~99~~	~~2.000~~		~~149.7~~						
STD	LCS	100	2.000		149.7			599%			
		101	2.000				CSS 12/15/21				
		102	2.000								
		103	~~2.000~~								
		104	2.000								
		105	~~2.000~~								

608634

Solutions Used: Skalar Scan+

TOTAL RECOVERABLE PHENOLICS

Intermediate@10ppm ricca	6813906	EXP: 12/20/2021
Intermediate@10ppm Ricca 2nd lot	6813907	EXP: 12/20/2021
CCV@0.1ppm	6814085	EXP: 12/14/2021
Potassium Ferricyanide	6813909	EXP: 12/14/2021
4-Aminoantipyrene	6813908	EXP: 12/14/2021
Distillation Reagent	6813910	EXP: 12/20/2021

LCS/CCV/MS/MSD = 0.1 ppm

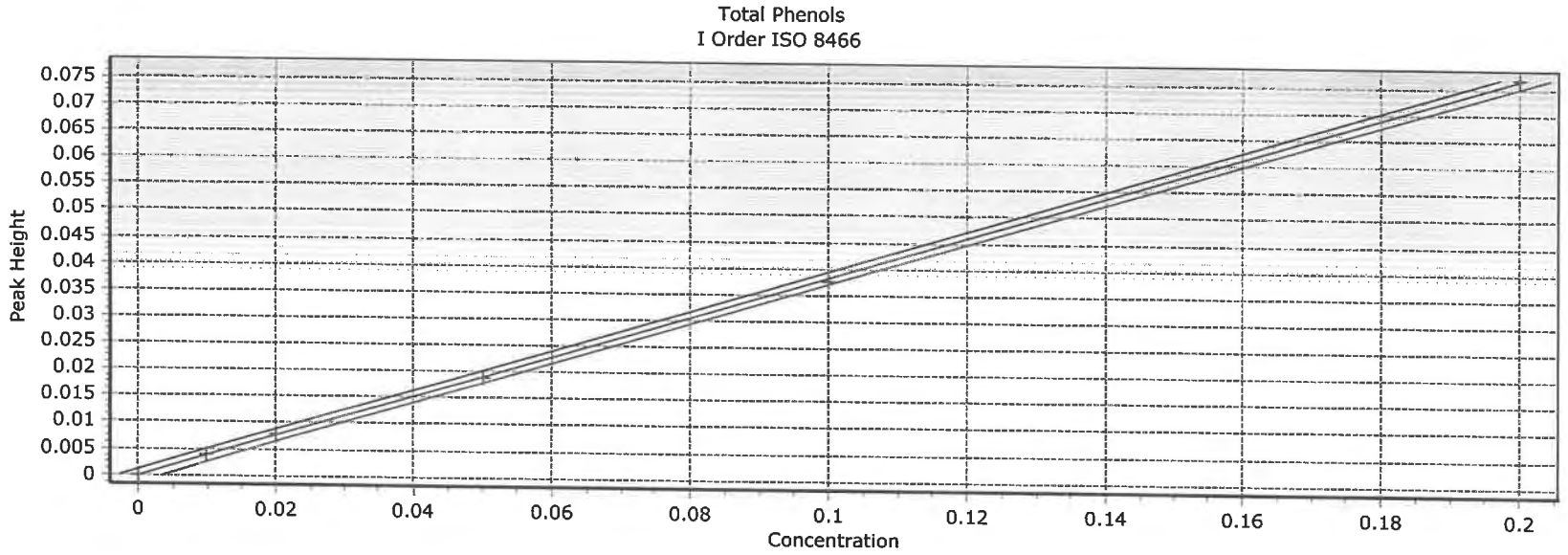
Skalar: Curve - 6813906

ICV @ 0.1 ppm – 6814086 **EXP:** 12/14/2021

608634

FlowAccessV3

Date:12/13/2021 1:57 PM



a = -0.00011123179724 b = 0.38346313364055 RSD = 0.00038300467008

r = 0.99993104789801 R2 = 0.99986210055040 Detection Limit = 0.00243271668115179 Determination L

Run Name : TABUF20211213A0PHE1213202, Run Db Ref : TABUF20211213A0

User Name : Administrator Operator Name : Administrator

608634

Run Name : TABUF20211213A0PHE12132021A, Run Database Ref : TABUF20211213A0
DateTime :12/13/2021 6:40:38 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
1	IW	IW	InitialWash		1.0000	0.0003	0.0000	Dec 13 2021 6:53AM	0.00029
2	A1	T	Tracer		1.0000	0.1985	0.0760	Dec 13 2021 6:54AM	0.198456
3	WT	W	Wash		1.0000	0.0003	0.0000	Dec 13 2021 6:59AM	0.00029
4	A2	S1	Standard1		1.0000	0.0004	0.0000	Dec 13 2021 7:01AM	0.000401
5	A3	S2	Standard2		1.0000	0.0103	0.0038	Dec 13 2021 7:05AM	0.010305
6	A4	S3	Standard3		1.0000	0.0205	0.0078	Dec 13 2021 7:09AM	0.020505
7	A5	S4	Standard4		1.0000	0.0495	0.0189	Dec 13 2021 7:12AM	0.049537
8	A6	S5	Standard5		1.0000	0.0984	0.0376	Dec 13 2021 7:16AM	0.098404
9	A7	S6	Standard6		1.0000	0.2008	0.0769	Dec 13 2021 7:20AM	0.200848
10	A8	ICV	ICV		1.0000	0.1000	0.0382	Dec 13 2021 7:23AM	0.100003
11	A9	ICB	ICB		1.0000	0.0010	0.0003	Dec 13 2021 7:27AM	0.001015
12	A10	D	Drift		1.0000	0.1965	0.0752	Dec 13 2021 7:31AM	0.196464
13	WT	W	Wash		1.0000	0.0003	0.0000	Dec 13 2021 7:35AM	0.00029
14	A11	CCV	CCV		1.0000	0.0984	0.0376	Dec 13 2021 7:38AM	0.098432
15	A12	CCB	CCB		1.0000	0.0002	0.0000	Dec 13 2021 7:42AM	0.000202
16	A13	B	MB		1.0000	-0.0007	-0.0004	Dec 13 2021 7:45AM	-0.000723
17	A14	LCS	LCS		1.0000	0.0974	0.0373	Dec 13 2021 7:49AM	0.097431
18	A15	U	460-248632-d-1		1.0000	0.0008	-0.0001	Dec 13 2021 7:53AM	0.000835
19	A16	U	MS 460-248632-d-1		1.0000	0.0995	0.0378	Dec 13 2021 7:56AM	0.099469
20	A17	U	480-193264-f-1		1.0000	0.2498	0.0954	Dec 13 2021 8:00AM	0.249775
21	A18	U	480-193264-f-2		1.0000	0.1123	0.0427	Dec 13 2021 8:04AM	0.112266
22	A19	U	480-193264-f-3		1.0000	0.0060	0.0019	Dec 13 2021 8:07AM	0.005955
23	A20	U	480-193264-f-6		1.0000	0.0517	0.0194	Dec 13 2021 8:11AM	0.051714
24	A21	U	480-193264-f-7		1.0000	0.1085	0.0412	Dec 13 2021 8:15AM	0.108507
25	A22	U	480-193264-f-8		1.0000	0.2512	0.0959	Dec 13 2021 8:18AM	0.251208
26	A23	CCV	CCV		1.0000	0.1036	0.0396	Dec 13 2021 8:22AM	0.103555
27	A24	CCB	CCB		1.0000	0.0019	0.0006	Dec 13 2021 8:26AM	0.001941

Run Name : TABUF20211213A0PHE12132021A, Run Database Ref : TABUF20211213A0
DateTime :12/13/2021 6:40:38 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
28	A25	D	Drift		1.0000	0.1987	0.0761	Dec 13 2021 8:29AM	0.198707
29	WT	W	Wash		1.0000	0.0003	0.0000	Dec 13 2021 8:34AM	0.00029
30	A26	U	480-193265-f-1		1.0000	0.0003	-0.0003	Dec 13 2021 8:37AM	0.000289
31	A27	U	DU 480-193265-f-1		1.0000	-0.0002	-0.0005	Dec 13 2021 8:40AM	-0.000208
32	A28	U	MS 480-193265-f-1		1.0000	0.0986	0.0374	Dec 13 2021 8:44AM	0.098604
33	A29	U	480-193265-f-3		1.0000	0.0008	-0.0001	Dec 13 2021 8:48AM	0.000821
34	A30	U	480-193265-f-4		1.0000	0.0001	-0.0003	Dec 13 2021 8:51AM	0.000136
35	A31	U	480-193265-f-5		1.0000	-0.0004	-0.0005	Dec 13 2021 8:55AM	-0.000399
36	A32	U	480-193265-f-6		1.0000	-0.0012	-0.0008	Dec 13 2021 8:59AM	-0.001198
37	A33	U	480-193265-f-7		1.0000	0.0069	0.0023	Dec 13 2021 9:02AM	0.006902
38	A34	U	480-193265-f-9		1.0000	0.0092	0.0031	Dec 13 2021 9:06AM	0.009166
39	A35	U	480-193268-a-1		1.0000	0.0042	0.0012	Dec 13 2021 9:10AM	0.004182
40	A36	CCV	CCV		1.0000	0.0968	0.0370	Dec 13 2021 9:13AM	0.096791
41	A37	CCB	CCB		1.0000	0.0005	0.0001	Dec 13 2021 9:17AM	0.000519
42	A38	D	Drift		1.0000	0.1990	0.0762	Dec 13 2021 9:21AM	0.198979
43	WT	W	Wash		1.0000	0.0003	0.0000	Dec 13 2021 9:25AM	0.00029
44	A39	B	MB		1.0000	-0.0002	-0.0002	Dec 13 2021 9:28AM	-0.000202
45	A40	LCS	LCS		1.0000	0.0966	0.0369	Dec 13 2021 9:32AM	0.096552
46	A41	U	480-193289-i-1		1.0000	0.0007	0.0001	Dec 13 2021 9:35AM	0.000738
47	A42	U	MS 480-193289-i-1		1.0000	0.0977	0.0373	Dec 13 2021 9:39AM	0.097671
48	A43	U	480-193289-i-2		1.0000	0.0004	0.0000	Dec 13 2021 9:43AM	0.000405
49	A44	U	480-193307-f-1		1.0000	0.0448	0.0170	Dec 13 2021 9:47AM	0.044832
50	A45	U	480-193307-f-2		1.0000	0.1567	0.0599	Dec 13 2021 9:50AM	0.156685
51	A46	U	480-193307-f-3		1.0000	0.0629	0.0239	Dec 13 2021 9:54AM	0.062876
52	A47	U	480-193307-f-4		1.0000	0.0364	0.0138	Dec 13 2021 9:58AM	0.036352
53	A48	U	480-193330-f-1		1.0000	1.0104	0.3872	Dec 13 2021 10:02AM	1.010364
54	A49	CCV	CCV		1.0000	0.1003	0.0383	Dec 13 2021 10:04AM	0.100287

Run Name : TABUF20211213A0PHE12132021A, Run Database Ref : TABUF20211213A0
DateTime :12/13/2021 6:40:38 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
55	A50	CCB	CCB		1.0000	0.0022	0.0007	Dec 13 2021 10:08AM	0.002206
56	A51	D	Drift		1.0000	0.1972	0.0755	Dec 13 2021 10:12AM	0.197237
57	WT	W	Wash		1.0000	0.0003	0.0000	Dec 13 2021 10:17AM	0.00029
58	A52	U	480-193330-f-2		1.0000	0.0000	-0.0002	Dec 13 2021 10:19AM	-9E-06
59	A53	U	DU 480-193330-f-2		1.0000	-0.0001	-0.0002	Dec 13 2021 10:23AM	-0.000122
60	A54	U	MS 480-193330-f-2		1.0000	0.0989	0.0377	Dec 13 2021 10:26AM	0.098873
61	A55	U	480-193330-f-3		1.0000	0.0001	-0.0001	Dec 13 2021 10:30AM	0.000114
62	A56	U	480-193330-f-4		1.0000	-0.0007	-0.0005	Dec 13 2021 10:34AM	-0.000735
63	A57	U	480-193330-f-5		1.0000	-0.0011	-0.0006	Dec 13 2021 10:37AM	-0.001122
64	A58	U	480-193330-f-6		1.0000	-0.0010	-0.0006	Dec 13 2021 10:41AM	-0.000965
65	A59	U	480-193335-f-1		1.0000	-0.0010	-0.0006	Dec 13 2021 10:45AM	-0.001002
66	A60	U	480-193335-f-2		1.0000	-0.0007	-0.0005	Dec 13 2021 10:48AM	-0.000689
67	B1	U	480-193335-f-3		1.0000	-0.0010	-0.0006	Dec 13 2021 10:52AM	-0.001039
68	B2	CCV	CCV		1.0000	0.0962	0.0368	Dec 13 2021 10:56AM	0.096231
69	B3	CCB	CCB		1.0000	0.0003	0.0000	Dec 13 2021 10:59AM	0.000324
70	B4	D	Drift		1.0000	0.1941	0.0743	Dec 13 2021 11:03AM	0.194135
71	WT	W	Wash		1.0000	0.0003	0.0000	Dec 13 2021 11:08AM	0.00029
72	B5	B	MB		1.0000	0.0015	0.0005	Dec 13 2021 11:11AM	0.001519
73	B6	LCS	LCS		1.0000	0.0980	0.0375	Dec 13 2021 11:14AM	0.097977
74	B7	U	480-193335-f-4		1.0000	-0.0012	0.0000	Dec 13 2021 11:18AM	-0.001225
75	B8	U	DU 480-193335-f-4		1.0000	-0.0018	-0.0002	Dec 13 2021 11:21AM	-0.001839
76	B9	U	MS 480-193335-f-4		1.0000	0.0990	0.0384	Dec 13 2021 11:25AM	0.099012
77	B10	U	480-193337-g-1		1.0000	-0.0011	0.0000	Dec 13 2021 11:29AM	-0.001104
78	B11	U	480-193264-f-4	2ml ⇒10ml	50.0000	3.8288	0.0293	Dec 13 2021 11:32AM	0.076577
79	B12	U	480-193264-f-5	5ml ⇒10ml	20.0000	0.0246	0.0004	Dec 13 2021 11:36AM	0.001231
80	B13	U	480-193265-f-2	4 ml ⇒10ml	25.0000	1.2770	0.0195	Dec 13 2021 11:40AM	0.05108
81	B14	U	480-193265-f-8	5ml ⇒10ml	2.0000	0.1052	0.0204	Dec 13 2021 11:43AM	0.052624

Run Name : TABUF20211213A0PHE12132021A, Run Database Ref : TABUF20211213A0
DateTime :12/13/2021 6:40:38 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
82	WT	W	Wash		1.0000	0.0003	0.0000	Dec 13 2021 11:48AM	0.00029
83	B15	CCV	CCV		1.0000	0.0981	0.0375	Dec 13 2021 11:51AM	0.098083
84	B16	CCB	CCB		1.0000	0.0007	0.0002	Dec 13 2021 11:54AM	0.000683
85	B17	D	Drift		1.0000	0.1935	0.0741	Dec 13 2021 11:58AM	0.193488
86	WT	W	Wash		1.0000	0.0003	0.0000	Dec 13 2021 12:03PM	0.00029
87	B18	U	480-193337-g-2		1.0000	-0.0019	-0.0003	Dec 13 2021 12:05PM	-0.001916
88	B19	U	MS 480-193337-g-2		1.0000	0.0970	0.0377	Dec 13 2021 12:09PM	0.096999
89	B20	U	480-193265-f-10	5ml→10ml	2.0000	0.1223	0.0236	Dec 13 2021 12:13PM	0.061153
90	B21	U	480-193265-f-11	↓	2.0000	0.0263	0.0052	Dec 13 2021 12:16PM	0.013162
91	B22	U	480-193307-f-5	2ml→10ml	10.0000	0.1403	0.0053	Dec 13 2021 12:20PM	0.014029
92	B23	U	480-193335-f-5		1.0000	-0.0011	0.0001	Dec 13 2021 12:24PM	-0.001072
93	B24	U	480-193335-f-6		1.0000	-0.0018	-0.0002	Dec 13 2021 12:27PM	-0.001838
94	B25	U	480-193336-o-1		1.0000	-0.0018	-0.0002	Dec 13 2021 12:31PM	-0.001818
95	B26	U	480-193336-o-2		1.0000	0.0141	0.0059	Dec 13 2021 12:36PM	0.014057
96	B27	U	480-193336-o-3		1.0000	0.0091	0.0040	Dec 13 2021 12:39PM	0.009111
97	B28	CCV	CCV		1.0000	0.0988	0.0378	Dec 13 2021 12:42PM	0.098794
98	B29	CCB	CCV		1.0000	0.0009	0.0002	Dec 13 2021 12:49PM	0.000878
99	B30	D	Drift		1.0000	0.1934	0.0741	Dec 13 2021 12:53PM	0.193408
100	WT	W	Wash		1.0000	0.0003	0.0000	Dec 13 2021 12:56PM	0.00029
101	B31	B	MB		1.0000	0.0925	0.0354	Dec 13 2021 1:01PM	0.092494
102	B32	LCS	LCS		1.0000	0.0002	0.0000	Dec 13 2021 1:04PM	0.000166
103	B33	U	480-193264-f-2	5ml→10ml	2.0000	0.0100	0.0195	Dec 13 2021 1:07PM	0.00499
104	B34	U	DU 480-193264-f-2		2.0000	0.0140	0.0203	Dec 13 2021 1:11PM	0.007013
105	B35	U	MS 480-193264-f-2	↓	2.0000	0.2032	0.0566	Dec 13 2021 1:14PM	0.101621
106	B36	U	480-193264-f-8		2.0000	0.1546	0.0473	Dec 13 2021 1:18PM	0.077289
107	B37	U	480-193330-f-1	1ml→10ml	10.0000	-0.0685	0.0008	Dec 13 2021 1:22PM	-0.006855
108	B38	CCV	CCV		1.0000	0.0935	0.0357	Dec 13 2021 1:26PM	0.093477

Run Name : TABUF20211213A0PHE12132021A, Run Database Ref : TABUF20211213A0
DateTime :12/13/2021 6:40:38 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
109	B39	CCB	CCB		1.0000	0.0009	0.0002	Dec 13 2021 1:29PM	0.000917
110	B40	D1	Drift		1.0000	0.1924	0.0737	Dec 13 2021 1:33PM	0.19239
111	WT	W	Wash		1.0000	0.0003	0.0000	Dec 13 2021 1:37PM	0.00029
112	E	E	EndRun		1.0000	0.0003	0.0000	Dec 13 2021 1:42PM	0.00029

Historical Data Summary Report

For Batch 608634

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193264-F-2	20-147-2R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	0.11	☐	0 - 0.136	☑	0 - 0.101
480-193264-F-3	08-147-3	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.101	☐	0 - 0.092
480-193264-F-4	10-152-1R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	50.0000	3.8	☐	0 - 7.898	☐	0 - 6.24
480-193264-F-6	10-185-1	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	0.052	☐	0 - 0.145	☐	0 - 0.114
480-193264-F-7	96-185-2	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	0.11	☐	0.009 - 0.178	☐	0.042 - 0.156
480-193265-F-1	89-156-2	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.03	☐	0 - 0.032
480-193265-F-10	357R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	2.0000	0.12	☐	0.01 - 0.54	☐	0.12 - 0.492
480-193265-F-11	D-19RR	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	2.0000	0.026	☐	0 - 0.955	☑	0.034 - 0.816
480-193265-F-2	98-156-3	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	25.0000	1.3	☐	0 - 7.05	☐	0 - 6.72
480-193265-F-3	98-186-2	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.03	☐	0 - 0.032
480-193265-F-4	75R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.037	☐	0 - 0.04
480-193265-F-5	76R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.03	☐	0 - 0.032
480-193265-F-6	DUP@76R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	1	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193265-F-7	94R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.04	☐	0 - 0.041
480-193265-F-8	PELA-4	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	2.0000	0.11	☐	0 - 0.304	☐	0.069 - 0.312
480-193265-F-9	89-167-3	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.042	☐	0 - 0.04
480-193289-I-1	S01U	9066_NP	Total Recoverable Phenolics	Total/NA	mg/L	7	1.0000	ND	☐	0 - 0.011	☐	0 - 0.011
480-193289-I-2	T04D	9066_NP	Total Recoverable Phenolics	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.012	☐	0 - 0.01
480-193307-F-1	LST05	420.4_NP	Total Recoverable Phenolics	Total/NA	ug/L	8	1.0000	44.8	☐	0 - 128.938	☐	0 - 123.6
480-193307-F-2	LST06	420.4_NP	Total Recoverable Phenolics	Total/NA	ug/L	8	1.0000	157	☐	0 - 288.22	☐	5.52 - 224.4
480-193307-F-3	MH01	420.4_NP	Total Recoverable Phenolics	Total/NA	ug/L	8	1.0000	62.9	☐	0 - 137.678	☐	11.44 - 115.8
480-193307-F-4	MH03U	420.4_NP	Total Recoverable Phenolics	Total/NA	ug/L	8	1.0000	36.4	☐	0 - 75.114	☐	0 - 63.48
480-193307-F-5	TANK07	420.4_NP	Total Recoverable Phenolics	Total/NA	ug/L	8	10.0000	140	☐	0 - 3381.014	☐	12.8 - 2400
480-193330-F-2	MW402	9066_NP	Total Recoverable Phenolics	Total/NA	mg/L	4	1.0000	ND	☐	0 - 0.009	☐	0 - 0.007
480-193330-F-3	MW403	9066_NP	Total Recoverable Phenolics	Total/NA	mg/L	4	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193330-F-4	MW412	9066_NP	Total Recoverable Phenolics	Total/NA	mg/L	4	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193330-F-5	MW413-21	9066_NP	Total Recoverable Phenolics	Total/NA	mg/L	1	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193330-F-6	MW414-21	9066_NP	Total Recoverable Phenolics	Total/NA	mg/L	1	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193335-F-1	MW-12AA	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0

OK

OK

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12/7/2021

Historical Data Summary Report

For Batch 608634

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193335-F-2	MW-12BBB	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193335-F-3	MW-13A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.016	☐	0 - 0.017
480-193335-F-4	MW-13B	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193335-F-5	MW-17A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193335-F-6	MW-17B	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193336-O-1	SLC-2A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.044	☐	0 - 0.04
480-193336-O-2	PLC-2A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	0.014	☐	0 - 0.701	☑	0.017 - 0.756
480-193336-O-3	PLC-1B	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.168	☑	0.01 - 0.18
480-193337-G-1	CD-1	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193337-G-2	CD-1RA	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0

OK

OK

Laboratory Bench Sheet
Hexavalent Chromium

Analyst:	KEB
Start Date:	9/28/2021
Start Time:	8:55
End Date:	9/28/2021
End Time	9:20
DATE OF CURVE=	9/17/2021
	.
LOQ/RL: 0.010	mg/L

Calibration Curve Information		
	Conc.(mg/L)	ABS.
STD1	0.000	0.000
Std. 2	0.010	0.009
Std. 3	0.020	0.015
Std. 4	0.050	0.040
Std. 5	0.100	0.081
Std. 6	0.200	0.159
Std. 7	0.300	0.238
Std. 8	0.400	0.312

LCS Information:		
Lot#:	6642464	
Concentration (mg/L):		10
Expiration Date:		10/02/21
LCS	True value:	0.05
Matrix Spike Information:		
Lot#:	6642464	
Concentration (mg/L):		10
Expiration Date:		10/02/21
MS	True Value	0.05

BATCH #	599173
Instrument Information	
Instrument:	Genesys 30
Wavelength:	540
Parameter:	Hexavalent Chromium
Corr. Coef:	0.99991
Slope:	0.78372
Intercept:	0.00095

Filter Lot #	A29544861	Hex Std used for curve:	6314907
EPP #		Chroma Ver3 Pillow Packets:	A1176

Time	Job #	Sample ID	Final Vol.	Sample	Color Blk.Corr.	Corrected	D.F.		Final Conc.	% Rec.	pH 1.5 - 2.5
			(mL)	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		Yes or No
8:58	MB IC	0	25	0.000	0.000	0.000	1	0	0.0000		YES
	6665218	0.01	25	0.008	0.000	0.008	1	0.0090	0.0090		YES
	6665219	0.02	25	0.018	0.000	0.018	1	0.0218	0.0218		YES
	6665226	0.05	25	0.037	0.000	0.037	1	0.0460	0.0460		YES
	6665227	0.10	25	0.079	0.000	0.079	1	0.0996	0.0996		YES
9:10	6665229	0.20	25	0.153	0.000	0.153	1	0.1940	0.1940		YES
	6665231	0.30	25	0.232	0.000	0.232	1	0.2948	0.2948		YES
	6665232	0.40	25	0.306	0.000	0.306	1	0.3892	0.3892		YES
	ICV	ICV	25	0.155	0.000	0.155	1	0.1966	0.1966	98.3%	YES
	ICB	0	25	0.000	0.000	0.000	1	0	0.0000		YES
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
	CCV	CCV	25			0.000	1	0	0.0000	0%	
	CCB	CCB	25			0.000	1	0	0.0000		

$$ICV = \frac{0.1966}{0.2000} \times 100 = 98.3\%$$

Laboratory Bench Sheet
Hexavalent Chromium

Eurofins TestAmerica - Buffalo

| | | |

BF-WC-HexBS-026
rev2 9/9/21

Laboratory Bench Sheet
Hexavalent Chromium

Eurofins TestAmerica - Buffalo

Analyst:	RM	Calibration Curve Information			LCS Information:		A1176	BATCH #	603850		
Start Date:	12/14/21		Conc.(mg/L)	ABS.	Lot#:	6805695		Instrument Information			
Start Time:	14:36	STD1	0.000	0.000	Concentration (mg/L):		10	Instrument:	Genesys 30		
End Date:	12/14/21	Std. 2	0.010	0.008	Expiration Date:		10/02/21	Wavelength:	540		
End Time	15:53	Std. 3	0.020	0.018	LCS	True value:	0.05	Parameter:	Hexavalent Chromium		
DATE OF CURVE=	9/28/2021	Std. 4	0.050	0.037	Matrix Spike Information:			Corr. Coef:	0.99992		
	.	Std. 5	0.100	0.079	Lot#:	6642464		Slope:	0.76549		
LOQ/RL: 0.010	mg/L	Std. 6	0.200	0.153	Concentration (mg/L):		10	Intercept:	0.00078		
		Std. 7	0.300	0.232	Expiration Date:		10/02/21				
Filter Lot #	A29544861	Std. 8	0.400	0.306	MS	True Value	0.05				
EPP #		Hex Std used for curve:		6314907	Chroma Ver3 Pillow Packets:		A1176				

Time	Job #	Sample ID	Final Vol.	Sample	Color Blk.Corr.	Corrected	D.F.		Final Conc.	% Rec.	pH 1.5 - 2.5
			(mL)	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		Yes or No
1436	CCV	CCV	25	0.042	0.000	0.042	1	0.0538	0.0538	108%	Yes
1436	CCB	CCB	25	0.000	0.000	0.000	1	0	0.0000		Yes
1436	MB	MB	25	0.000	0.000	0.000	1	0	0.0000		Yes
1436	LCS	LCS	25	0.042	0.000	0.042	1	0.0538	0.0538	108%	Yes
1443	193335	C-7	25	0.032	0.000	0.032	1	0.0408	0.0408		Yes
1443		C-7 DU	25	0.032	0.000	0.032	1	0.0408	0.0408		Yes
1443	193336	T-1	25	0.002	0.000	0.002	1	0.0016	0.0016		Yes
1445		T-1 MS	25	0.052	0.005	0.047	1	0.0604	0.0604		Yes
1445		T-2	25	0.076	0.054	0.022	1	0.0277	0.0277		Yes
1446		T-3	25	0.027	0.009	0.018	1	0.0225	0.0225		Yes
1447	193337	L-1	25	0.002	0.000	0.002	1	0.0016	0.0016		Yes
1448		L-2	25	0.004	0.000	0.004	1	0.0042	0.0042		Yes
1501		CCV	25	0.042	0.000	0.042	1	0.0538	0.0538		Yes
1502		CCB	25	0.000	0.000	0.000	1	0	0.0000		Yes
1502	193412	J-1	25	0.139	0.108	0.031	1	0.0395	0.0395		Yes
1503		J-1 DU	25	0.139	0.107	0.032	1	0.0408	0.0408		Yes
1510		J-1 MS	25	0.134	0.111	0.023	1	0.0290	0.0290		Yes
1515		J-1	25	0.113	0.035	0.078	5	0.1009	0.5044		Yes
1516		J-1 MS	25	0.073	0.076	-0.003	5	0	0.0000		Yes
1536		CCV	25	0.042	0.000	0.042	1	0.0538	0.0538		Yes
1536		CCB	25	0.000	0.000	0.000	1	0	0.0000		Yes
			25			0.000	1	0	0.0000		
			25		12/14/21	0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25		0.000	0.000	1	0	0.0000		Yes
			25		0.000	0.000	1	0	0.0000		Yes

TestAmerica Buffalo
COLOR LOGBOOK
SM2120B
Logbook # A21-25

DATE: 12/12/21 ANALYST: MJB BATCH ID #: 608517

Start Time: 8:48 End Time: 9:30

Date of Calibration Curve: 11/23/21 Calibration Expires: 12/23/21
Curve ID: 606385

LCS TALS ID#: 6292177 LCS True Value 30 CU LCS/CCV Limits: 90 – 110 %
CCV TALS ID#: 1 CCV True Value 30 CU Precision Limits: 80 – 120 %

	Job# / QC	Sample ID#	Filtered Y/N	Sample pH	Color Units Observed	Dilution	Final Conc. (CU)	Time	Comments
1	CCV	@30	N	1	30	1	30	8:48	
2	CCB	Blank	N	5	<5	1	<5	8:49	
3	MB	Blank	N	5	<5	1	<5	8:50	
4	LCS	@30	N	1	30	1	30	8:51	
5	193336	T1	Y	6	10	1	10	8:52	True Color
6	"	T2	Y	7	50	10	500	8:58	True Color
7	"	T3	N	7	50	10	500	9:02	
8	193337	L1	Y	6	5	1	5	9:05	True Color
9	"	L2	Y	6	<5	1	<5	9:10	True Color
10	193335	K1	N	6	5	1	5	9:12	
11	"	K2	N	6	10	1	10	9:14	
12	"	K2-DU	N	6	10	1	10	9:15	
13	CCV	@30	N	1	30	1	30	9:16	
14	CCB	Blank	N	5	<5	1	<5	9:17	
15	193335	K3	N	6	5	1	5	9:18	
16	"	K4	Y	6	10	1	10	9:21	True Color
17	"	K5	N	6	10	1	10	9:24	
18	"	K6	N	6	15	1	15	9:26	
19	"	K6-DU	N	6	15	1	15	9:27	
20	CCV	@30	N	1	30	1	30	9:29	
21	CCB	Blank	N	5	<5	1	<5	9:30	
22									
23									
24					MJB 12/12/21				
25									
26									

Reviewer MJB Date: 12/12/21

Historical Data Summary Report

For Batch 608517

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193335-K-1	MW-12AA	2120B	Color	Total/NA	Color Unit	8	1.0	5.00	☐	0 - 18.565	☐	0 - 12
480-193335-K-2	MW-12BBB	2120B	Color	Total/NA	Color Unit	5	1.0	10.0	☐	0.652 - 15.348	☐	4 - 12
480-193335-K-3	MW-13A	2120B	Color	Total/NA	Color Unit	5	1.0	5.00	☐	0 - 20.225	☐	4 - 18
480-193335-K-4	MW-13B	2120B	Color	Total/NA	Color Unit	5	1.0	10.0	☐	0 - 36.045	☐	4 - 30
480-193335-K-5	MW-17A	2120B	Color	Total/NA	Color Unit	8	1.0	10.0	☐	2.5 - 17.5	☐	4 - 18
480-193335-K-6	MW-17B	2120B	Color	Total/NA	Color Unit	5	1.0	15.0	☐	0 - 26.493	☐	0 - 18
480-193336-T-1	SLC-2A	2120B	Color	Total/NA	Color Unit	8	1.0	10.0	☐	0 - 82.67	☐	0 - 84
480-193336-T-2	PLC-2A	2120B	Color	Total/NA	Color Unit	8	10	500	☐	0 - 1590.187	☐	112 - 1200
480-193336-T-3	PLC-1B	2120B	Color	Total/NA	Color Unit	8	10	500	☐	0 - 875	☐	80 - 720
480-193337-L-1	CD-1	2120B	Color	Total/NA	Color Unit	5	1.0	5.00	☐	0 - 22.297	☐	0 - 18
480-193337-L-2	CD-1RA	2120B	Color	Total/NA	Color Unit	6	1.0	ND	☐	0 - 17.475	☐	0 - 12

Ion Chromatography Data Review Checklist

LIMS Batch Number: 599884-887	Worklist: 101558	Instrument ID (circle one): IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	Method (circle): 300.0, 314.0, 9056, 7199, SM4110, VFA 28D-148M/	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		✓		✓	
2. Elution order of analytes in ICAL confirmed to be correct		✓		✓	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)		✓		✓	
4. ICV, second source: run before samples 90-110% recovery		✓		✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓		✓	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)		✓		✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	✓			X	If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%	✓			X	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		✓		✓	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)		✓		✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*		✓		✓	☐ No analyte > RL in associated samples ☐ Sample results >10x blank ☐ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*		✓		✓	☐ Insufficient sample for reanalysis ☐ LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*				✓	□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%				✓	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Out of control QC is clearly identified			✓	
d. Any data that has a qualifier tick is commented on with appropriate action taken			✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature			✓	
16. Run Log				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Analyst initials/signature provided			✓	
17. TALS Samples Tab			✓	
a. LIMS Sample IDs / Containers are correct			✓	
b. Method and matrix are correct			✓	
c. Date and time match raw data			✓	
d. Dilutions are correct			✓	
e. Correct suffix designated (where applicable)			✓	
18. TALS Worksheet Tab is complete and correct			✓	
19. TALS Reagent Tab is complete and correct			✓	
20. TALS QC Links Tab is correct			✓	
21. TALS Sample Results Tab			✓	
a. All unused data are marked Rejected or Accepted				
b. All reported analytes are marked Primary or Secondary			✓	
22. TALS Batch Information Screen documentation is complete			✓	
23. TALS Status set to appropriate review level			✓	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			✓	
25. Results for samples and QC correct on final report?			✓	
26. Are all necessary scanned documents in TALS?			✓	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			✓	

2nd Reviewer: BS **Review Date:** 10/12/21

Comments:

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Instrument: IC-6
Lock State: Initial Calib Locked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 11-Oct-2021 17:17:32

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b
Inj Date : 11-Oct-2021 12:37:00, Sublist: chrom-IC6-300*sub1

Limit Group: MB SM4110B ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
1 Fluoride	20543780	20214130	22420246	24985952	25434290	25040819	23554767	-211153	24010655	WLinr	7.0	0.995	
	3.1	-11.4	-4.9	4.5	6.1	4.4	-1.9						
2 Chloride	13465362	14725848	15181098	15622542	15809152	15939397	15750854	-1163008	15676176	WLinr	1.6	1.000	
	0.7	-2.4	-1.7	0.0	1.0	1.8	0.5						
4 Bromide	3596920	4907185	5076084	5666920	6043916	6270931	6591830	-126129	5952356	WLinr	8.2	0.994	
	2.8	-7.0	-10.5	-3.7	2.0	5.6	10.8						
5 Sulfate	9549570	10611321	11033055	11430744	11562983	11621390	11503741	-995767	11440859	WLinr	1.9	1.000	
	0.9	-2.9	-1.8	0.3	1.2	1.7	0.6						

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m

Instrument: IC-6
Lock State: Initial Calib Locked
Integrator: Falcon
No.Compounds:6

Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 11-Oct-2021 17:17:32

Limit Group: MB SM4110B ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_55.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.480	3.487	3.490	3.493	3.500	3.507	3.513	3.496	0.334	3.500
2 Chloride	5.220	5.223	5.223	5.217	5.210	5.200	5.180	5.210	0.303	5.210
4 Bromide	8.967	8.953	8.947	8.933	8.913	8.883	8.827	8.918	0.546	8.913
5 Sulfate	9.630	9.630	9.623	9.587	9.527	9.447	9.323	9.538	1.219	9.527

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Instrument: IC-6
Lock State: Initial Calib Locked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 11-Oct-2021 17:17:32

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b
Inj Date : 11-Oct-2021 12:37:00, Sublist: chrom-IC6-300*sub1

Limit Group: MB 300.0_28D ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
1 Fluoride	20543780	20214130	22420246	24985952	25434290	25040819	23554767	-211153	24010655	WLinr	7.0	0.995	
	3.1	-11.4	-4.9	4.5	6.1	4.4	-1.9						
2 Chloride	13465362	14725848	15181098	15622542	15809152	15939397	15750854	-1163008	15676176	WLinr	1.6	1.000	
	0.7	-2.4	-1.7	0.0	1.0	1.8	0.5						
4 Bromide	3596920	4907185	5076084	5666920	6043916	6270931	6591830	-126129	5952356	WLinr	8.2	0.994	
	2.8	-7.0	-10.5	-3.7	2.0	5.6	10.8						
5 Sulfate	9549570	10611321	11033055	11430744	11562983	11621390	11503741	-995767	11440859	WLinr	1.9	1.000	
	0.9	-2.9	-1.8	0.3	1.2	1.7	0.6						

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m

Instrument:	IC-6	Lims Location:	480
Lock State:	Initial Calib Locked	Cpnd Order:	Retention Time
Integrator:	Falcon	Last Modified:	11-Oct-2021 17:17:32

No.Compounds:6

Limit Group: MB 300.0_28D ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_55.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.480	3.487	3.490	3.493	3.500	3.507	3.513	3.496	0.334	3.500
2 Chloride	5.220	5.223	5.223	5.217	5.210	5.200	5.180	5.210	0.303	5.210
4 Bromide	8.967	8.953	8.947	8.933	8.913	8.883	8.827	8.918	0.546	8.913
5 Sulfate	9.630	9.630	9.623	9.587	9.527	9.447	9.323	9.538	1.219	9.527

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Instrument: IC-6
Lock State: Initial Calib Locked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 11-Oct-2021 17:17:32

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b
Inj Date : 11-Oct-2021 12:37:00, Sublist: chrom-IC6-300*sub1

Limit Group: MB 9056 ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
1 Fluoride	20543780	20214130	22420246	24985952	25434290	25040819	23554767	-211153	24010655	WLinr	7.0	0.995	
	3.1	-11.4	-4.9	4.5	6.1	4.4	-1.9						
2 Chloride	13465362	14725848	15181098	15622542	15809152	15939397	15750854	-1163008	15676176	WLinr	1.6	1.000	
	0.7	-2.4	-1.7	0.0	1.0	1.8	0.5						
4 Bromide	3596920	4907185	5076084	5666920	6043916	6270931	6591830	-126129	5952356	WLinr	8.2	0.994	
	2.8	-7.0	-10.5	-3.7	2.0	5.6	10.8						
5 Sulfate	9549570	10611321	11033055	11430744	11562983	11621390	11503741	-995767	11440859	WLinr	1.9	1.000	
	0.9	-2.9	-1.8	0.3	1.2	1.7	0.6						

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Instrument: IC-6 Lims Location: 480
Lock State: Initial Calib Locked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 11-Oct-2021 17:17:32
No.Compounds:6

Limit Group: MB 9056 ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_55.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.480	3.487	3.490	3.493	3.500	3.507	3.513	3.496	0.334	3.500
2 Chloride	5.220	5.223	5.223	5.217	5.210	5.200	5.180	5.210	0.303	5.210
4 Bromide	8.967	8.953	8.947	8.933	8.913	8.883	8.827	8.918	0.546	8.913
5 Sulfate	9.630	9.630	9.623	9.587	9.527	9.447	9.323	9.538	1.219	9.527

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Instrument: IC-6
Lock State: Initial Calib Locked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 11-Oct-2021 17:17:32

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b
Inj Date : 11-Oct-2021 12:37:00, Sublist: chrom-IC6-300*sub1

Limit Group: MB 300.0_48HR ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
3 Nitrite as N	28054140	30826480	32770364	35000488	34498743	33061248	30201053	-260186	33094100	WLinr	5.3	0.997	
	0.5	-2.9	0.6	6.2	4.4	0.0	-8.7						
6 Nitrate as N	27997180	32841420	36028466	39469750	40619101	41147756	41411420	-635002	39599985	WLinr	5.8	0.997	
	2.8	-9.0	-5.8	0.5	2.9	4.1	4.7						

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m

Instrument:	IC-6	Lims Location:	480
Lock State:	Initial Calib Locked	Cpnd Order:	Retention Time
Integrator:	Falcon	Last Modified:	11-Oct-2021 17:17:32

No.Compounds:6

Limit Group: MB 300.0_48HR ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_55.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
3 Nitrite as N	6.423	6.427	6.427	6.427	6.423	6.417	6.400	6.420	0.151	6.423
6 Nitrate as N	10.270	10.267	10.260	10.227	10.183	10.127	10.043	10.197	0.838	10.183

Eurofins Environment Testing America
Worklist Report

12/27/2021

Worklist Name: 2021 10 11 ICAL
Instrument Name: IC-6
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b
Upload Directory: \\Corptalsapp17\480-BF-RawData\Organics\MS\IC-6
Batch #s: 599884, 599885, 599886, 599887

Worklist Number: 101558
Chrom Method: IC6-300
Units: ul

10/11/21

Worklist ID	Lims ID	Sample Reagents	Smp Type	Cal Lvl	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0101558-001	# 1 Blank		Client		sv	5.000	mL	1.000
480-0101558-002	# 2 IC - STD1	IC_6ANION_STD_00001	IC	1	sv	5.000	mL	1.000
480-0101558-003	# 3 IC - STD2	IC_6ANION_STD_00001	IC	2	sv	5.000	mL	1.000
480-0101558-004	# 4 IC - STD3	IC_6ANION_STD_00001	IC	3	sv	5.000	mL	1.000
480-0101558-005	# 5 IC - STD4	IC_6ANION_STD_00001	IC	4	sv	5.000	mL	1.000
480-0101558-006	# 6 IC - STD5	IC_6ANION_STD_00001	IC	5	sv	5.000	mL	1.000
480-0101558-007	# 7 IC - STD6	IC_6ANION_STD_00001	IC	6	sv	5.000	mL	1.000
480-0101558-008	# 8 IC - STD7	IC_6ANION_STD_00001	IC	7	sv	5.000	mL	1.000
480-0101558-009	# 9 ICV	IC ERA_00031 WC_1000NO2STK_00037	ICV		sv	5.000	mL	1.000
480-0101558-010	#10 ICB		ICB		sv	5.000	mL	1.000
480-0101558-011	#11 MDLV	IC_6ANION_STD_00001	MDLV		sv	5.000	mL	1.000
480-0101558-012	#12 MDLV	IC_6ANION_STD_00001	MDLV		sv	5.000	mL	1.000
480-0101558-013	#13 MDLV	IC_6ANION_STD_00001	MDLV		sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Cal Lvl	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0101558-014	#14 MDLV	IC_6ANION_STD_00001	MDLV		sv	5.000	mL	1.000

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 12_37.d
Lims ID: IC - STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Oct-2021 12:37:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 1
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:28 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

First Level Reviewer: zahniseri Date: 11-Oct-2021 13:31:39

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.480	3.500	-0.020	1027189	0.0500	0.0516	
2 Chloride						
5.220	5.210	0.010	6732681	0.5000	0.5037	
3 Nitrite as N						
6.423	6.423	0.000	1402707	NC	NC	
4 Bromide						
8.967	8.913	0.054	179846	0.0500	0.0514	
5 Sulfate						
9.630	9.527	0.103	4774785	0.5000	0.5044	
6 Nitrate as N						
10.270	10.183	0.087	1399859	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 2.50 Units: uL

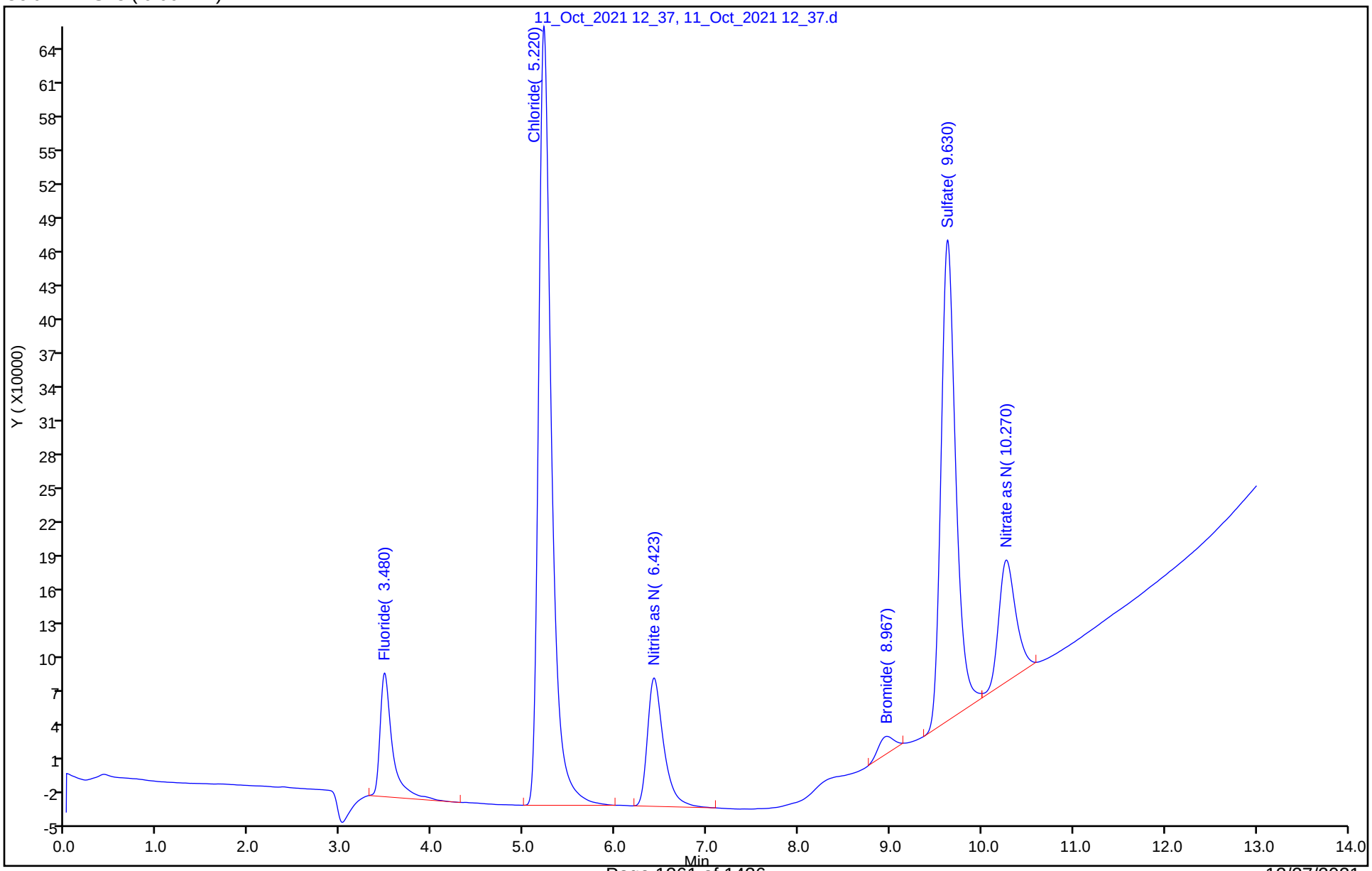
Report Date: 11-Oct-2021 17:17:28 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 12_37.d

Injection Date:	11-Oct-2021 12:37:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 12_57.d
Lims ID: IC - STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Oct-2021 12:57:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 2
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:29 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

First Level Reviewer: zahniseri Date: 11-Oct-2021 13:33:03

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.487	3.500	-0.013	4042826	0.2000	0.1772	
2 Chloride						
5.223	5.210	0.013	29451696	2.00	1.95	
3 Nitrite as N						
6.427	6.423	0.004	6165296	NC	NC	
4 Bromide						
8.953	8.913	0.040	981437	0.2000	0.1861	
5 Sulfate						
9.630	9.527	0.103	21222641	2.00	1.94	
6 Nitrate as N						
10.267	10.183	0.084	6568284	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 10.00 Units: uL

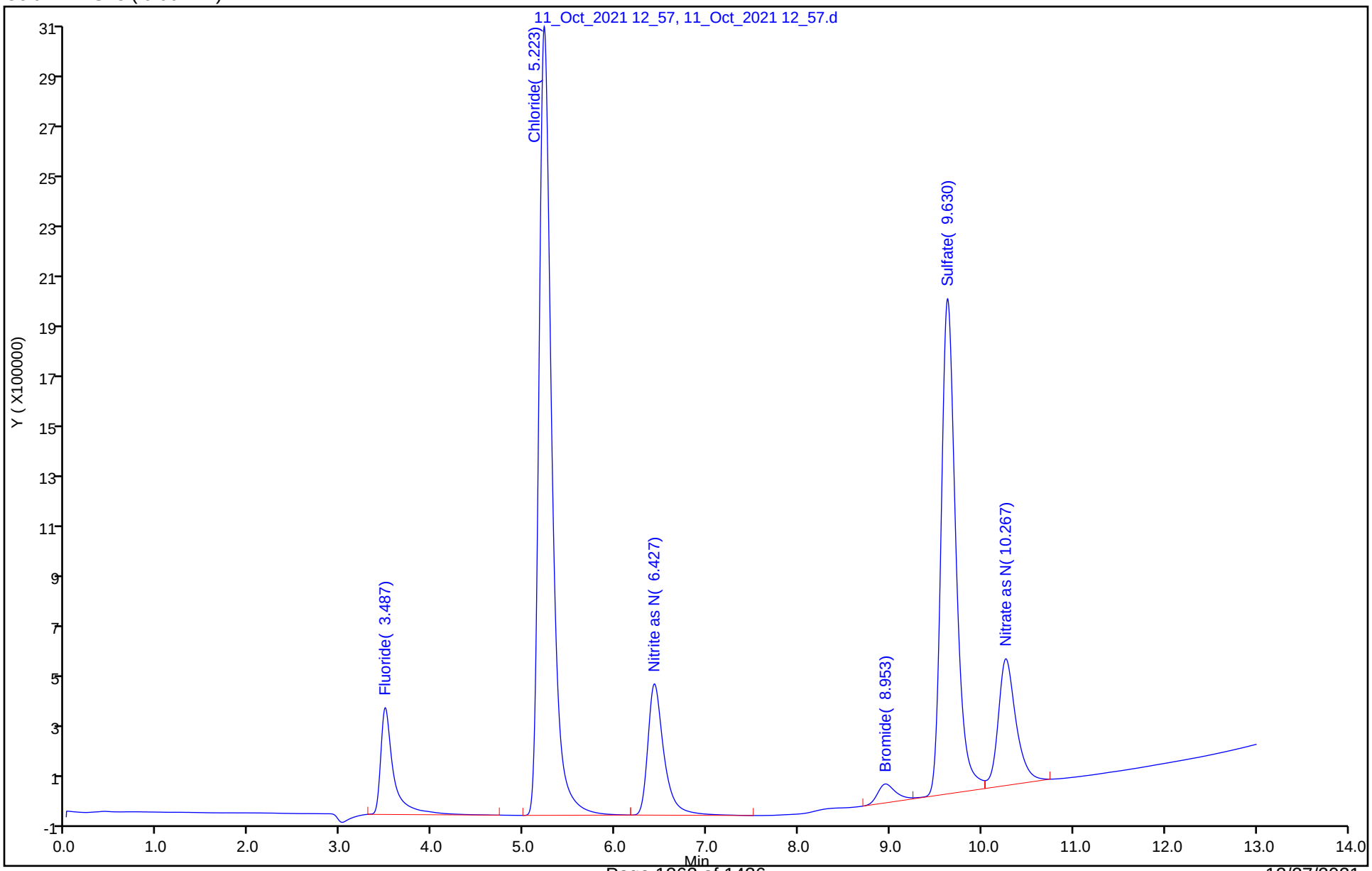
Report Date: 11-Oct-2021 17:17:29 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 12_57.d

Injection Date:	11-Oct-2021 12:57:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD2			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_16.d
Lims ID: IC - STD3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Oct-2021 13:16:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 3
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:30 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.490	3.500	-0.010	11210123	0.5000	0.4757	
2 Chloride						
5.223	5.210	0.013	75905489	5.00	4.92	
3 Nitrite as N						
6.427	6.423	0.004	16385182	NC	NC	
4 Bromide						
8.947	8.913	0.034	2538042	0.5000	0.4476	
5 Sulfate						
9.623	9.527	0.096	55165274	5.00	4.91	
6 Nitrate as N						
10.260	10.183	0.077	18014233	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 25.00 Units: uL

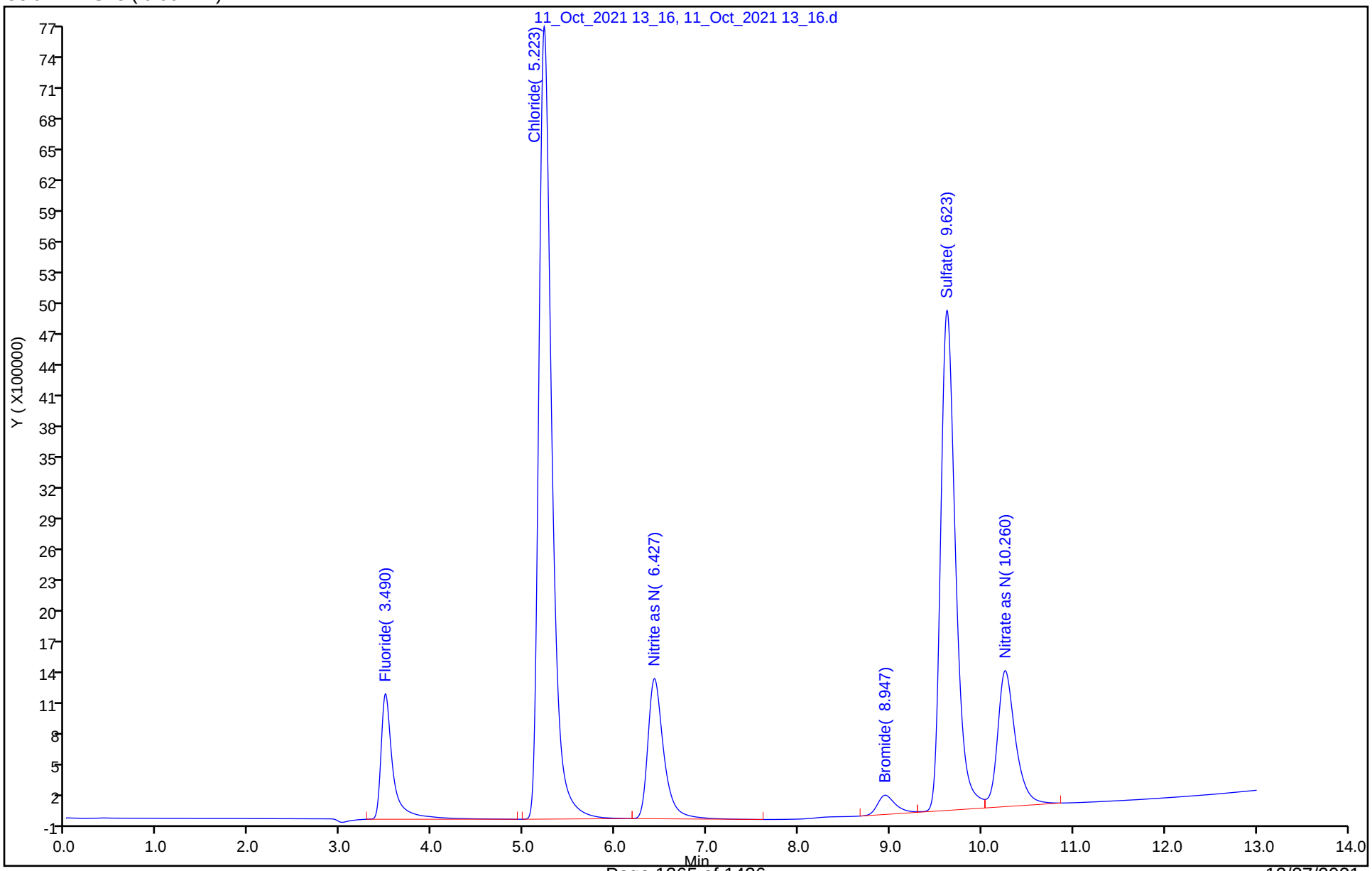
Report Date: 11-Oct-2021 17:17:30 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_16.d

Injection Date:	11-Oct-2021 13:16:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_36.d
Lims ID: IC - STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Oct-2021 13:36:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 4
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:31 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.493	3.493	0.000	49971903	2.00	2.09	
2 Chloride						
5.217	5.217	0.000	312450847	20.0	20.0	
3 Nitrite as N						
6.427	6.427	0.000	70000976	NC	NC	
4 Bromide						
8.933	8.933	0.000	11333840	2.00	1.93	
5 Sulfate						
9.587	9.587	0.000	228614873	20.0	20.1	
6 Nitrate as N						
10.227	10.227	0.000	78939500	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 100.00 Units: uL

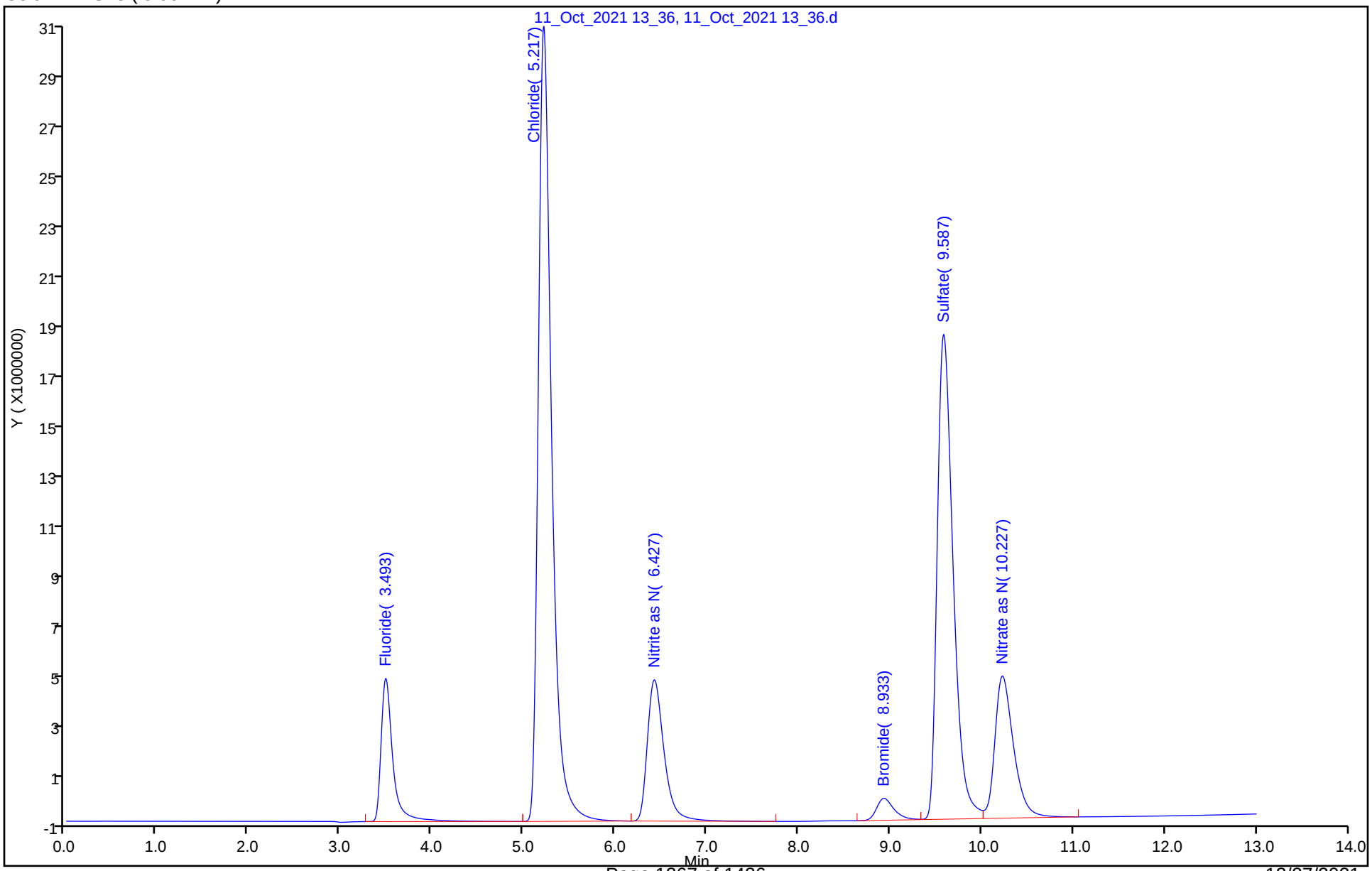
Report Date: 11-Oct-2021 17:17:31 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_36.d

Injection Date:	11-Oct-2021 13:36:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD4			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_55.d
Lims ID: IC - STD5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Oct-2021 13:55:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 5
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:31 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

First Level Reviewer: zahniseri Date: 11-Oct-2021 14:12:25

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.500	3.500	0.000	127171448	5.00	5.31	
2 Chloride						
5.210	5.210	0.000	790457613	50.0	50.5	
3 Nitrite as N						
6.423	6.423	0.000	172493714	NC	NC	
4 Bromide						
8.913	8.913	0.000	30219579	5.00	5.10	
5 Sulfate						
9.527	9.527	0.000	578149150	50.0	50.6	
6 Nitrate as N						
10.183	10.183	0.000	203095507	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 250.00 Units: uL

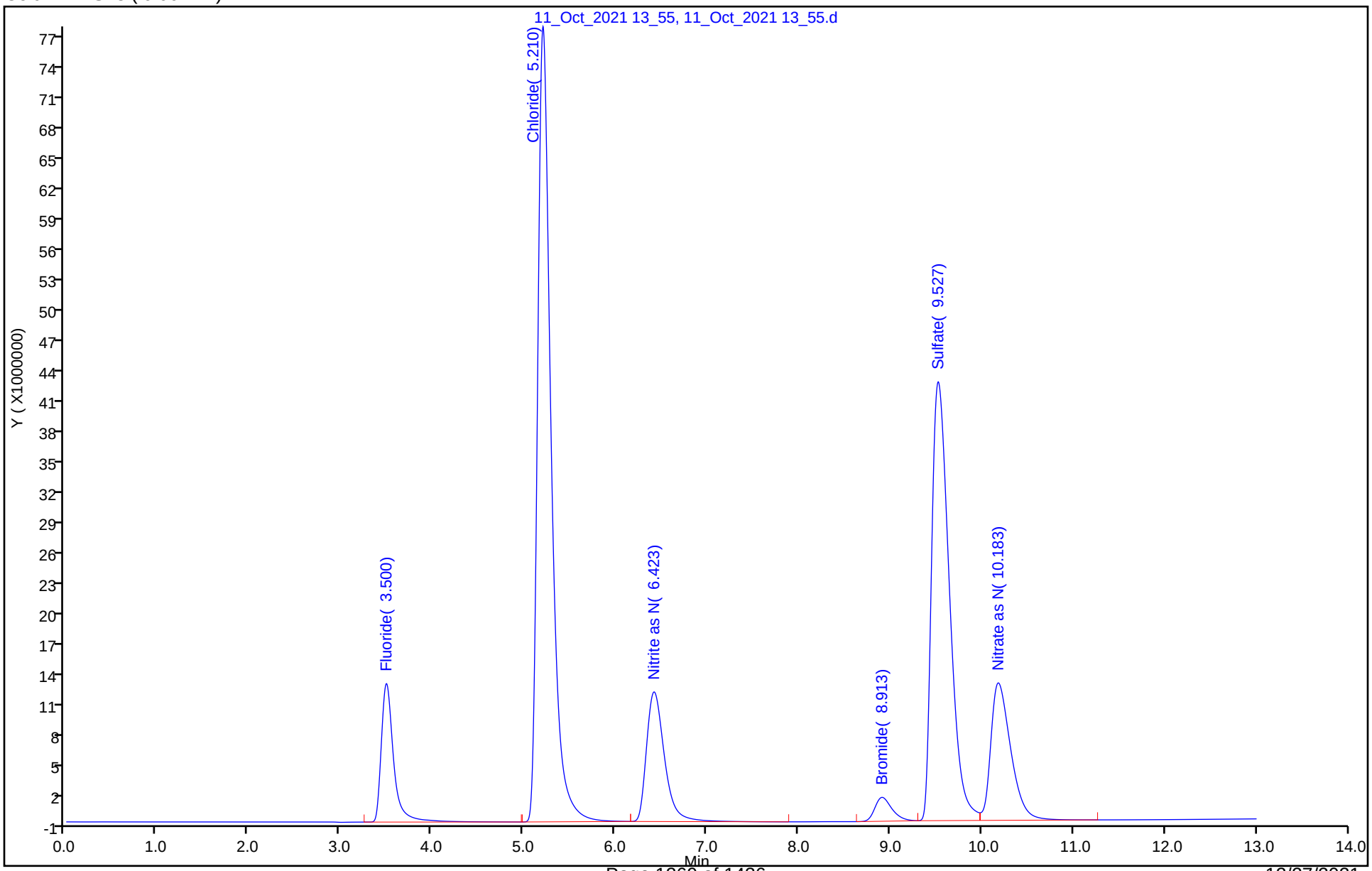
Report Date: 11-Oct-2021 17:17:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_55.d

Injection Date:	11-Oct-2021 13:55:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD5			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_15.d
Lims ID: IC - STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-Oct-2021 14:15:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 6
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:32 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

First Level Reviewer: zahniseri Date: 11-Oct-2021 14:58:59

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.507	3.500	0.007	250408185	10.0	10.4	
2 Chloride						
5.200	5.210	-0.010	1593939671	100.0	101.8	
3 Nitrite as N						
6.417	6.423	-0.006	330612484	NC	NC	
4 Bromide						
8.883	8.913	-0.030	62709312	10.0	10.6	
5 Sulfate						
9.447	9.527	-0.080	1162139046	100.0	101.7	
6 Nitrate as N						
10.127	10.183	-0.056	411477559	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 500.00 Units: uL

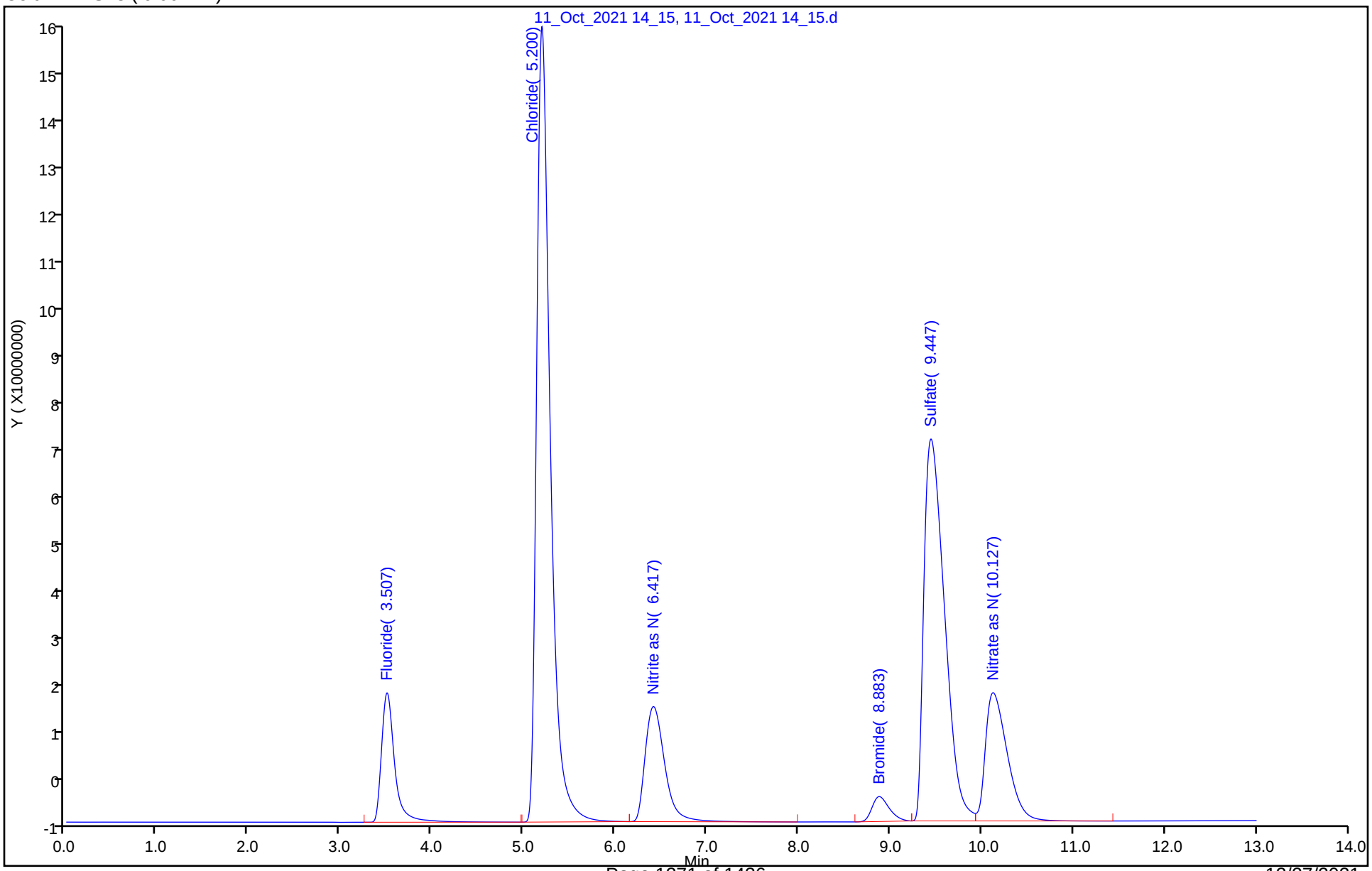
Report Date: 11-Oct-2021 17:17:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_15.d

Injection Date:	11-Oct-2021 14:15:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD6			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d
Lims ID: IC - STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Oct-2021 14:34:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 7
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:27 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

First Level Reviewer: zahniseri Date: 11-Oct-2021 17:17:27

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.513	3.500	0.013	471095332	20.0	19.6	
2 Chloride						
5.180	5.210	-0.030	3150170744	200.0	201.0	
3 Nitrite as N						
6.400	6.423	-0.023	604021055	NC	NC	
4 Bromide						
8.827	8.913	-0.086	131836605	20.0	22.2	
5 Sulfate						
9.323	9.527	-0.204	2300748198	200.0	201.2	
6 Nitrate as N						
10.043	10.183	-0.140	828228398	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 1000.00 Units: uL

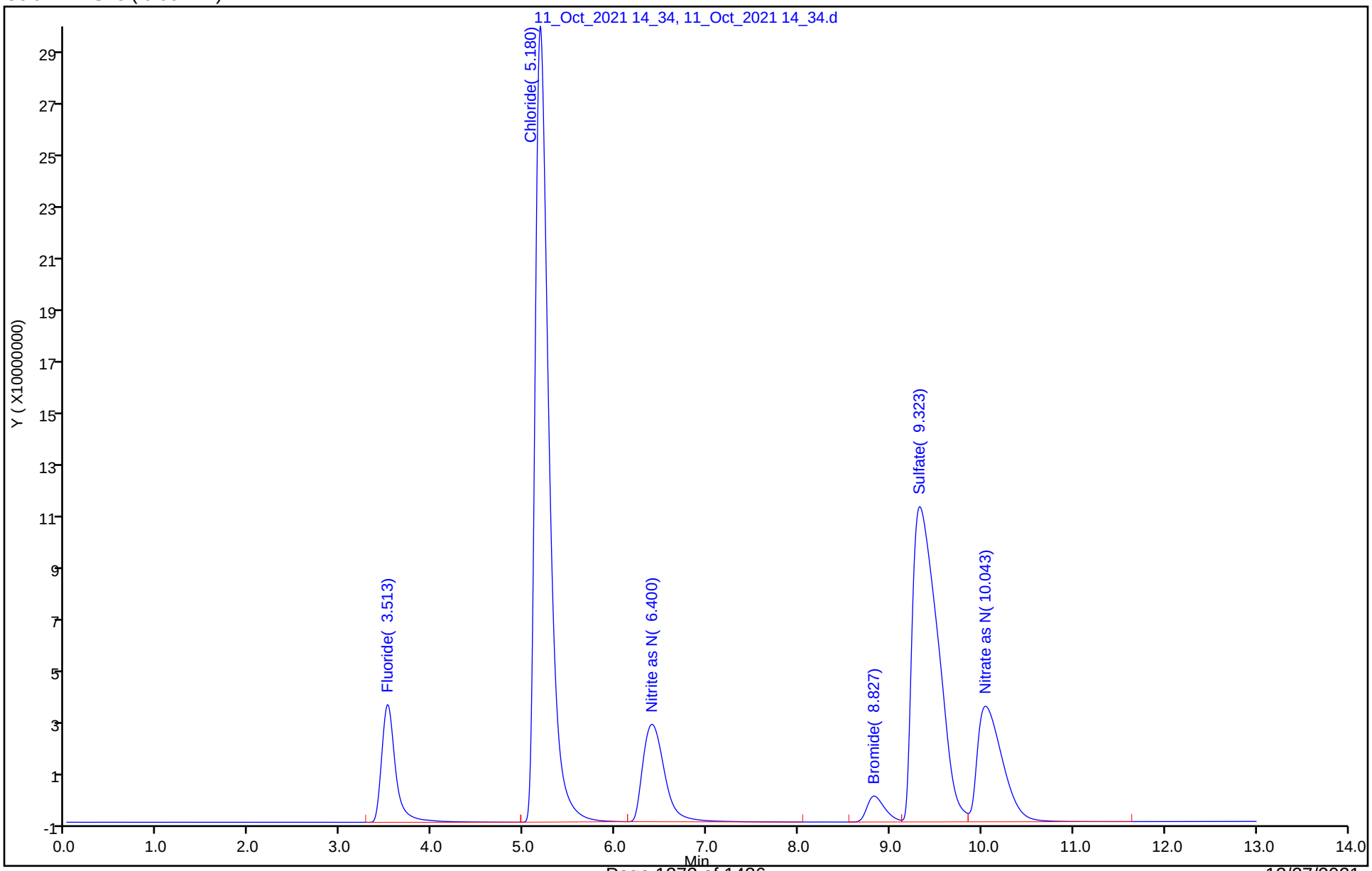
Report Date: 11-Oct-2021 17:17:27 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Injection Date:	11-Oct-2021 14:34:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD7			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



TestAmerica *[Buffalo]*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Ion Chromatography Data Review Checklist

LIMS Batch Number: 609280, 281	**Worklist:** 103129	**Instrument ID (circle one):** IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	**Method (circle):** 300.0, 314.0, 9056, 7199, SM4110, VFA	**QC Type (circle):** Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)				✓	
2. Elution order of analytes in ICAL confirmed to be correct				✓	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)				✓	
4. ICV, second source: run before samples 90-110% recovery				✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)				✓	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)				✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)				✓	If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%				✓	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?				✓	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)				✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*				✓	□ No analyte > RL in associated samples □ Sample results >10x blank □ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*				✓	□ Insufficient sample for reanalysis □ LCS %R > QC limits & samples < RL

12/27/2021
Chawisa 12/27/2021

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*				✓	□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%				✓	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Out of control QC is clearly identified			✓	
d. Any data that has a qualifier tick is commented on with appropriate action taken			✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature			✓	
16. Run Log				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Analyst initials/signature provided			✓	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct			✓	
b. Method and matrix are correct			✓	
c. Date and time match raw data			✓	
d. Dilutions are correct			✓	
e. Correct suffix designated (where applicable)			✓	
18. TALS Worksheet Tab is complete and correct			✓	
19. TALS Reagent Tab is complete and correct			✓	
20. TALS QC Links Tab is correct			✓	
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted			✓	
b. All reported analytes are marked Primary or Secondary			✓	
22. TALS Batch Information Screen documentation is complete			✓	
23. TALS Status set to appropriate review level			✓	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			✓	
25. Results for samples and QC correct on final report?			✓	
26. Are all necessary scanned documents in TALS?			✓	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			✓	

2nd Reviewer: Chawisa **Review Date:** 12/21/2021

Comments: _____

Chawisa 12/21/2021

Eurofins Environment Testing America
Worklist Report

Chawisa 12/27/2021
12/27/2021

Worklist Name: 2021 12 17 A
Instrument Name: IC-6
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b
Upload Directory: \\Corptalsapp17\480-BF-RawData\Organics\MS\IC-6
Batch #s: 609280, 609281, 609282, 609283

Worklist Number: 103129
Chrom Method: IC6-300
Units: ul

12/17/21

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-001	# 1 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-002	# 2 CCB		CCB	sv	5.000	mL	1.000
480-0103129-003	# 3 LCS	IC_ANION_LCS__00395	LCS	sv	5.000	mL	1.000
480-0103129-004	# 4 MB		MB	sv	5.000	mL	1.000
480-0103129-005	# 5 480-193175-C-6		Client	sv	1.000 200uL (	mL	5.000
480-0103129-006	# 6 480-193127-E-3		Client	sv	1.000 50uL (	mL	20.00
480-0103129-007	# 7 480-193175-C-2		Client	sv	1.000 200uL (	mL	5.000
480-0103129-008	# 8 480-193252-A-14		Client	sv	1.000 20x(10x) 50uL(100uL) → (	mL	200.0
480-0103129-009	# 9 480-193252-A-15		Client	sv	1.000 10uL (	mL	100.0
480-0103129-010	#10 480-193252-A-16 Dark	15.89mS @18.3 100X	Client	sv	1.000	mL	0.0
480-0103129-011	#11 480-193252-A-16 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	0.0
480-0103129-012	#12 480-193252-A-16 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	0.0
480-0103129-013	#13 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-014	#14 CCB		CCB	sv	5.000	mL	1.000
480-0103129-015	#15 480-193252-A-17	1185K @15.8 5X	Client	sv	1.000 200ML	mL 1	0.0
480-0103129-016	#16 480-193252-A-18	3.38mg @16.1 10X	Client	sv	1.000 100ML	mL 1	0.0
480-0103129-017	#17 480-193253-F-1		Client	sv	1.000 20ML	mL 1	50.00
480-0103129-018	#18 480-193261-D-1		Client	sv	1.000 10ML	mL 1	100.0
480-0103129-019	#19 480-193335-L-1	1X	Client	sv	1.000	mL	50.00
480-0103129-020	#20 480-193335-L-2		Client	sv	1.000	mL	1.000
480-0103129-021	#21 480-193335-L-3		Client	sv	1.000	mL	1.000
480-0103129-022	#22 480-193335-L-4		Client	sv	1.000	mL	1.000
480-0103129-023	#23 480-193335-L-5		Client	sv	1.000	mL	1.000
480-0103129-024	#24 480-193335-L-5 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	1.000
480-0103129-025	#25 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-026	#26 CCB		CCB	sv	5.000	mL	1.000
480-0103129-027	#27 LCS	IC_ANION_LCS__00395	LCS	sv	5.000	mL	1.000
480-0103129-028	#28 MB		MB	sv	5.000	mL	1.000
480-0103129-029	#29 480-193335-L-6		Client	sv	1.000	mL	1.000
480-0103129-030	#30 480-193335-D-7		Client	sv	1.000	mL	1.000
480-0103129-031	#31 480-193336-U-1		Client	sv	1.000 200ML	mL 1	5.000

Chawla 12/21/2021 12/27/2021

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-032	#32 480-193336-U-2		Client	sv	1.000 20mL	mL	50.00
480-0103129-033	#33 480-193336-U-3		Client	sv	1.000 50mL	mL	20.00
480-0103129-034	#34 480-193336-U-5		Client	sv	1.000 200mL	mL	5.000
480-0103129-035	#35 480-193336-U-5 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	5.000
480-0103129-036	#36 480-193336-U-5 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	5.000
480-0103129-037	#37 CCV	IC_ANION_LCS_00395	CCV	sv	5.000	mL	1.000
480-0103129-038	#38 CCB		CCB	sv	5.000	mL	1.000
480-0103129-039	#39 480-193336-U-6		Client	sv	1.000 50mL	mL	20.00
480-0103129-040	#40 480-193336-U-7		Client	sv	1.000 200mL	mL	5.000
480-0103129-041	#41 480-193337-M-1		Client	sv	1.000	mL	1.000
480-0103129-042	#42 480-193337-M-2		Client	sv	1.000	mL	1.000
480-0103129-043	#43 480-193369-L-1		Client	sv	1.000	mL	1.000
480-0103129-044	#44 480-193369-L-2		Client	sv	1.000 500mL	mL	2.000
480-0103129-045	#45 480-193369-L-3		Client	sv	1.000	mL	2.000
480-0103129-046	#46 480-193369-L-4		Client	sv	1.000	mL	1.000
480-0103129-047	#47 480-193369-L-5		Client	sv	1.000	mL	1.000
480-0103129-048	#48 480-193369-L-5 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	1.000
480-0103129-049	#49 CCV	IC_ANION_LCS_00395	CCV	sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-050	#50 CCB		CCB	sv	5.000	mL	1.000
480-0103129-051	#51 LCS	IC_ANION_LCS__00395	LCS	sv	5.000	mL	1.000
480-0103129-052	#52 MB		MB	sv	5.000	mL	1.000
480-0103129-053	#53 480-193548-A-1		Client	sv	5.000	mL	1.000
480-0103129-054	#54 480-193548-A-1		Client	sv	5.000 200	mL	5.000
480-0103129-055	#55 480-193548-A-1 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	5.000
480-0103129-056	#56 480-193548-A-1 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	5.000
480-0103129-057	#57 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-058	#58 CCB		CCB	sv	5.000	mL	1.000
480-0103129-059	#59 MDLV	IC_6ANION_STD_00003	MDLV	sv	5.000	mL	1.000

Chain of Custody 12/21/2021

TestAmerica *[Buffalo]*

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Ion Chromatography Data Review Checklist

LIMS Batch Number: 609280, 281	**Worklist:** 103129	**Instrument ID (circle one):** IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	**Method (circle):** 300.0, 314.0, 9056, 7199, SM4110, VFA	**QC Type (circle):** Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)					
2. Elution order of analytes in ICAL confirmed to be correct					
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)					
4. ICV, second source: run before samples 90-110% recovery					If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)					If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)					If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)					If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%					If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?					Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)					Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*					□ No analyte > RL in associated samples □ Sample results >10x blank □ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*					□ Insufficient sample for reanalysis □ LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*					□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%					

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Out of control QC is clearly identified				
d. Any data that has a qualifier tick is commented on with appropriate action taken				
e. The first page of the run includes the filename, instrument, and analyst initials/signature				
16. Run Log				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Analyst initials/signature provided				
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct				
b. Method and matrix are correct				
c. Date and time match raw data				
d. Dilutions are correct				
e. Correct suffix designated (where applicable)				
18. TALS Worksheet Tab is complete and correct				
19. TALS Reagent Tab is complete and correct				
20. TALS QC Links Tab is correct				
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted				
b. All reported analytes are marked Primary or Secondary				
22. TALS Batch Information Screen documentation is complete				
23. TALS Status set to appropriate review level				
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ **Review Date:** _____

Comments: _____

Eurofins Environment Testing America
Worklist Report

12/27/2021

Worklist Name: 2021 12 17 A
Instrument Name: IC-6
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b
Upload Directory: \\Corptalsapp17\480-BF-RawData\Organics\MS\IC-6
Batch #s: 609280, 609281, 609282, 609283

Worklist Number: 103129
Chrom Method: IC6-300
Units: ul

12/17/21

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-001	# 1 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-002	# 2 CCB		CCB	sv	5.000	mL	1.000
480-0103129-003	# 3 LCS	IC_ANION_LCS__00395	LCS	sv	5.000	mL	1.000
480-0103129-004	# 4 MB		MB	sv	5.000	mL	1.000
480-0103129-005	# 5 480-193175-C-6		Client	sv	1.000 200uL (	mL	5.000
480-0103129-006	# 6 480-193127-E-3		Client	sv	1.000 50uL (	mL	20.00
480-0103129-007	# 7 480-193175-C-2		Client	sv	1.000 200uL (	mL	5.000
480-0103129-008	# 8 480-193252-A-14		Client	sv	1.000 20x(10x) 50uL(100uL) → (	mL	200.0
480-0103129-009	# 9 480-193252-A-15		Client	sv	1.000 10uL (	mL	100.0
480-0103129-010	#10 480-193252-A-16 Dark	15.89mS @18.3 100X	Client	sv	1.000	mL	0.0
480-0103129-011	#11 480-193252-A-16 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	0.0
480-0103129-012	#12 480-193252-A-16 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	0.0
480-0103129-013	#13 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-014	#14 CCB		CCB	sv	5.000	mL	1.000
480-0103129-015	#15 480-193252-A-17	1185K @15.8 5X	Client	sv	1.000 200mL	mL 1	0.0
480-0103129-016	#16 480-193252-A-18	3.38mg @16.1 10X	Client	sv	1.000 100mL	mL 1	0.0
480-0103129-017	#17 480-193253-F-1		Client	sv	1.000 20mL	mL 1	50.00
480-0103129-018	#18 480-193261-D-1		Client	sv	1.000 10mL	mL 1	100.0
480-0103129-019	#19 480-193335-L-1	1X	Client	sv	1.000	mL	50.00
480-0103129-020	#20 480-193335-L-2		Client	sv	1.000	mL	1.000
480-0103129-021	#21 480-193335-L-3		Client	sv	1.000	mL	1.000
480-0103129-022	#22 480-193335-L-4		Client	sv	1.000	mL	1.000
480-0103129-023	#23 480-193335-L-5		Client	sv	1.000	mL	1.000
480-0103129-024	#24 480-193335-L-5 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	1.000
480-0103129-025	#25 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-026	#26 CCB		CCB	sv	5.000	mL	1.000
480-0103129-027	#27 LCS	IC_ANION_LCS__00395	LCS	sv	5.000	mL	1.000
480-0103129-028	#28 MB		MB	sv	5.000	mL	1.000
480-0103129-029	#29 480-193335-L-6		Client	sv	1.000	mL	1.000
480-0103129-030	#30 480-193335-D-7		Client	sv	1.000	mL	1.000
480-0103129-031	#31 480-193336-U-1		Client	sv	1.000 200mL	mL 1	5.000

12/27/2021

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-032	#32 480-193336-U-2		Client	sv	1.000 20Me	mL 1	50.00
480-0103129-033	#33 480-193336-U-3		Client	sv	1.000 50Me	mL 1	20.00
480-0103129-034	#34 480-193336-U-5		Client	sv	1.000 200Me	mL 1	5.000
480-0103129-035	#35 480-193336-U-5 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	5.000
480-0103129-036	#36 480-193336-U-5 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	5.000
480-0103129-037	#37 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-038	#38 CCB		CCB	sv	5.000	mL	1.000
480-0103129-039	#39 480-193336-U-6		Client	sv	1.000 50Me	mL 1	20.00
480-0103129-040	#40 480-193336-U-7		Client	sv	1.000 200Me	mL 1	5.000
480-0103129-041	#41 480-193337-M-1		Client	sv	1.000	mL	1.000
480-0103129-042	#42 480-193337-M-2		Client	sv	1.000	mL	1.000
480-0103129-043	#43 480-193369-L-1		Client	sv	1.000	mL	1.000
480-0103129-044	#44 480-193369-L-2		Client	sv	1.000 500Me	mL 1	2.000
480-0103129-045	#45 480-193369-L-3		Client	sv	1.000	mL	2.000
480-0103129-046	#46 480-193369-L-4		Client	sv	1.000	mL	1.000
480-0103129-047	#47 480-193369-L-5		Client	sv	1.000	mL	1.000
480-0103129-048	#48 480-193369-L-5 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	1.000
480-0103129-049	#49 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-050	#50 CCB		CCB	sv	5.000	mL	1.000
480-0103129-051	#51 LCS	IC_ANION_LCS__00395	LCS	sv	5.000	mL	1.000
480-0103129-052	#52 MB		MB	sv	5.000	mL	1.000
480-0103129-053	#53 480-193548-A-1		Client	sv	5.000	mL	1.000
480-0103129-054	#54 480-193548-A-1		Client	sv	5.000 200	mL	5.000
480-0103129-055	#55 480-193548-A-1 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	5.000
480-0103129-056	#56 480-193548-A-1 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	5.000
480-0103129-057	#57 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-058	#58 CCB		CCB	sv	5.000	mL	1.000
480-0103129-059	#59 MDLV	IC_6ANION_STD_00003	MDLV	sv	5.000	mL	1.000

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 13_48.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2021 13:48:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-001
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:52:49 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:49:15

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.427	3.427	0.000	126065970	5.00	5.26	
2 Chloride						
4.990	4.990	0.000	778233635	50.0	49.7	
3 Nitrite as N						
6.073	6.073	0.000	167269485	NC	NC	
4 Bromide						
8.313	8.313	0.000	29367740	5.00	4.95	
5 Sulfate						
9.023	9.023	0.000	572881954	50.0	50.2	
6 Nitrate as N						
9.577	9.577	0.000	208046779	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00395 Amount Added: 5.00 Units: mL

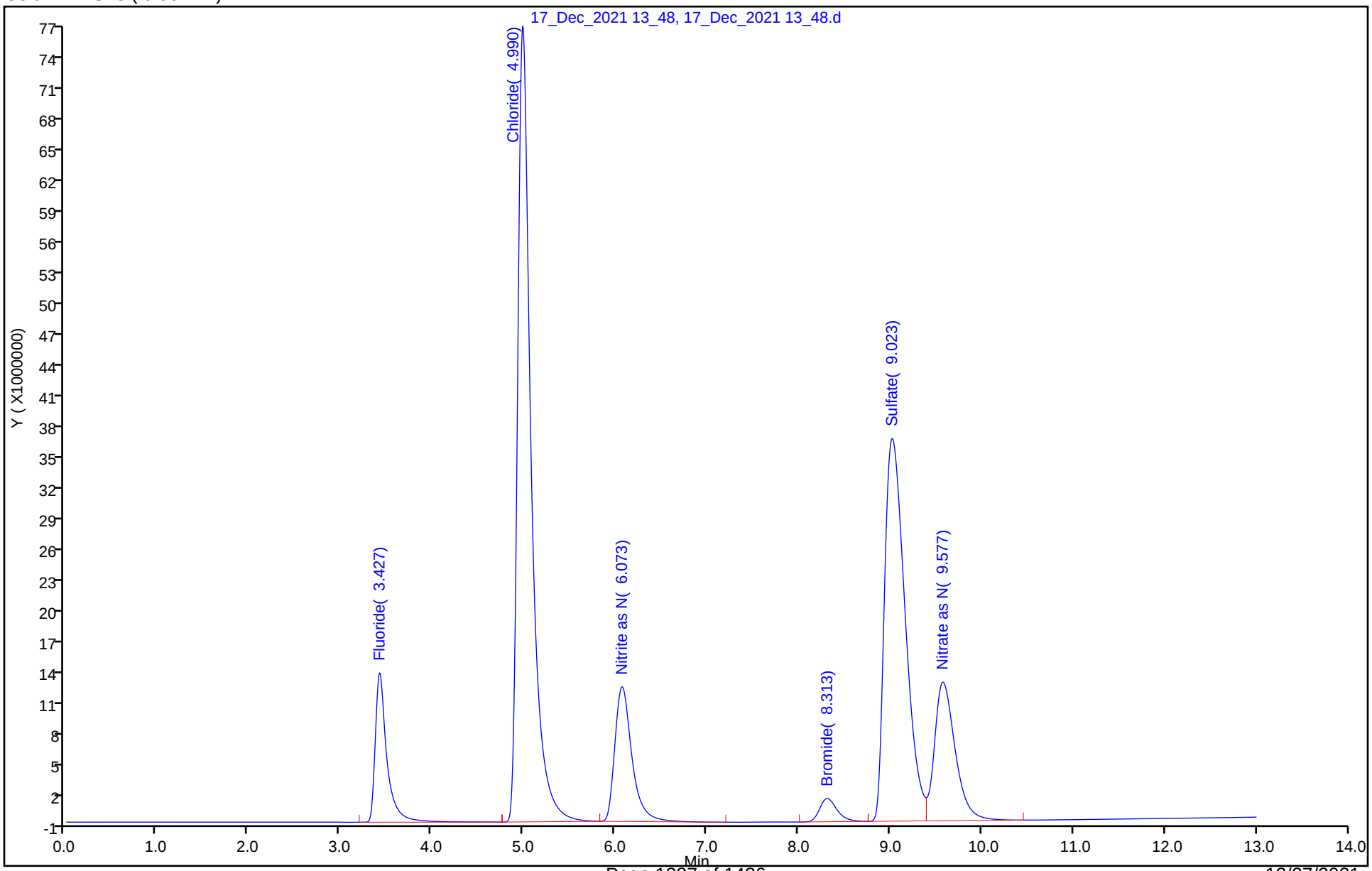
Report Date: 20-Dec-2021 12:52:49 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 13_48.d

Injection Date:	17-Dec-2021 13:48:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 14_07.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 17-Dec-2021 14:07:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-002
Operator ID: Instrument ID: IC-6

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:52:49 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:49:19

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.977	4.990	-0.013	216663		0.0880	
5 Sulfate						
9.113	9.023	0.090	462459		0.1275	

QC Flag Legend

Processing Flags

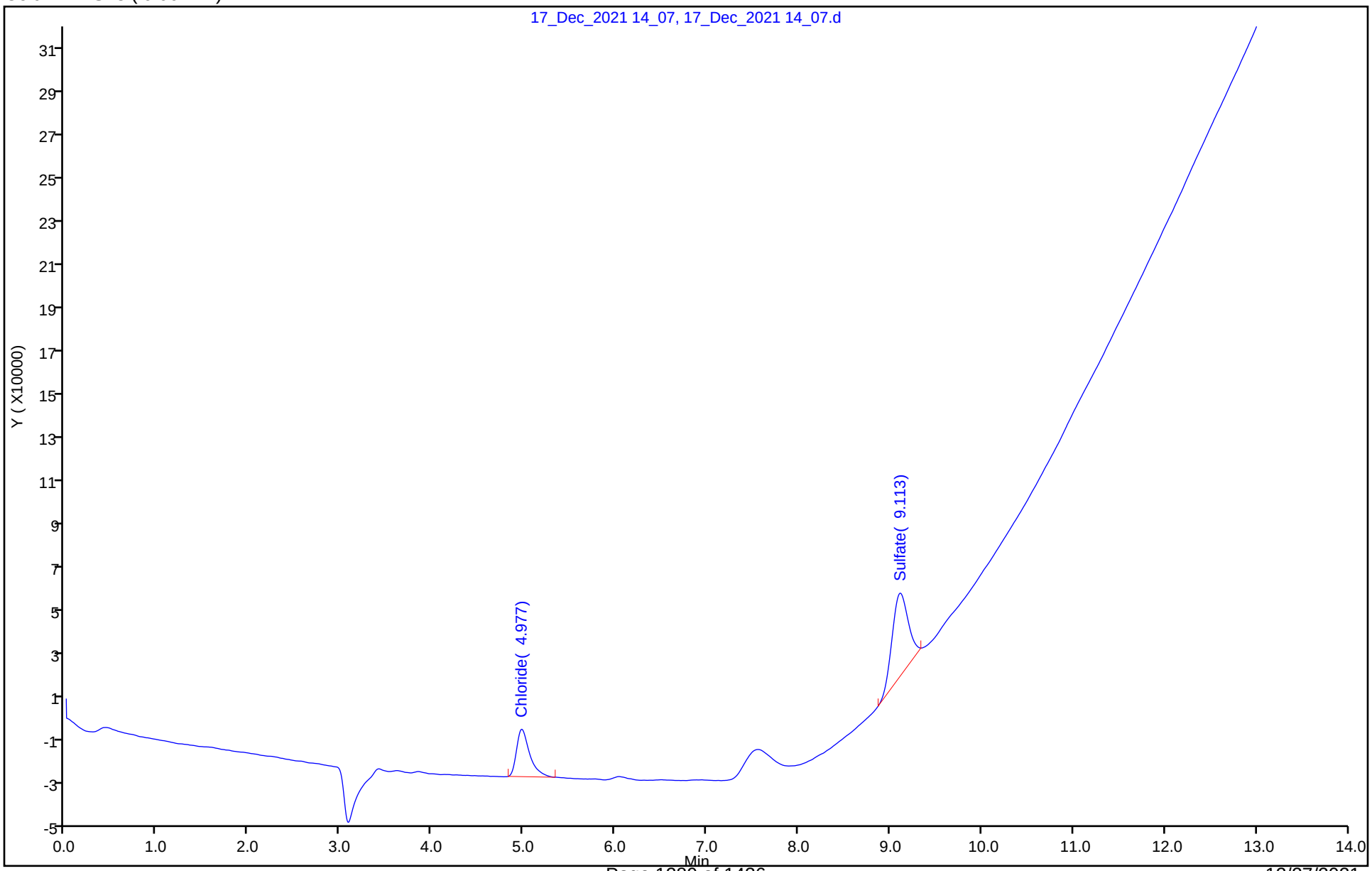
Report Date: 20-Dec-2021 12:52:50 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 14_07.d

Injection Date:	17-Dec-2021 14:07:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 14_46.d				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	17-Dec-2021 14:46:00	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103129-004				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:52:49	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:49:25

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.980	4.990	-0.010	201586		0.0870	
5 Sulfate						
9.117	9.023	0.094	444316		0.1259	

QC Flag Legend

Processing Flags

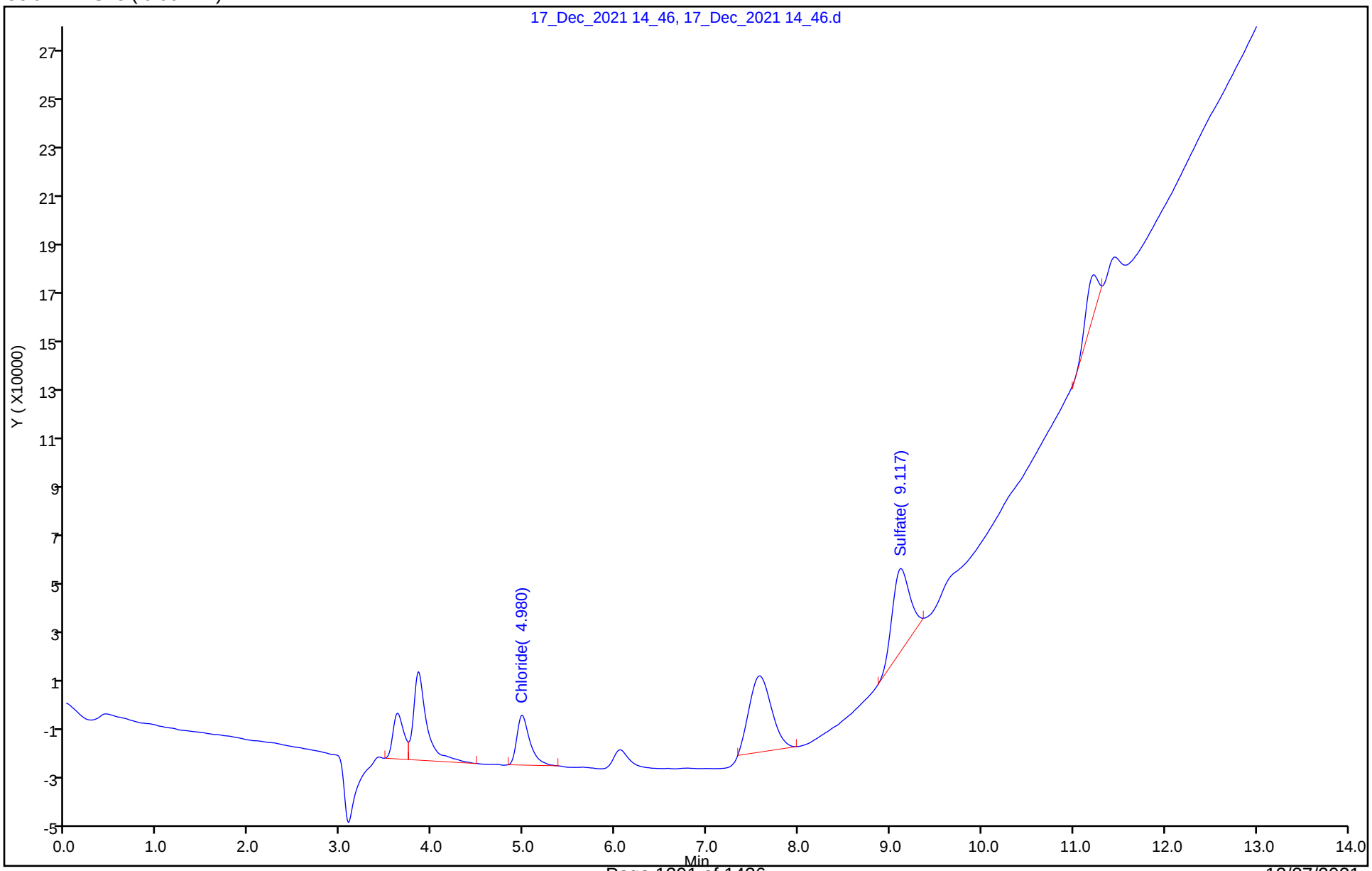
Report Date: 20-Dec-2021 12:52:51 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 14_46.d

Injection Date:	17-Dec-2021 14:46:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	MB			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 17_42.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2021 17:42:00 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-013
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:52:54 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:49:55

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.423	3.423	0.000	126284453	5.00	5.27	
2 Chloride						
4.973	4.973	0.000	779072994	50.0	49.8	
3 Nitrite as N						
6.050	6.050	0.000	168843330	NC	NC	
4 Bromide						
8.290	8.290	0.000	29115848	5.00	4.91	
5 Sulfate						
8.983	8.983	0.000	571868940	50.0	50.1	
6 Nitrate as N						
9.557	9.557	0.000	209401075	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00395 Amount Added: 5.00 Units: mL

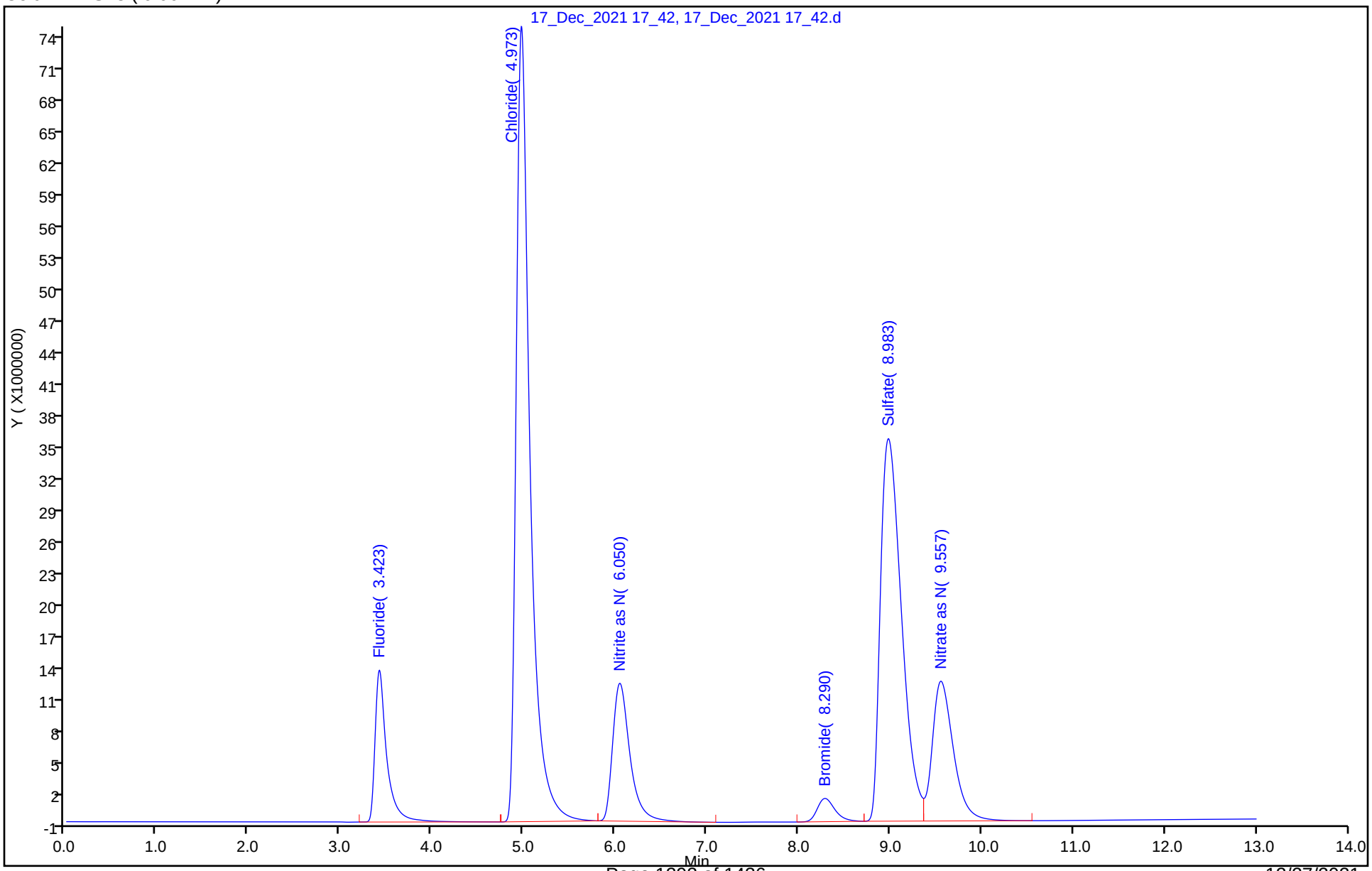
Report Date: 20-Dec-2021 12:52:54 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 17_42.d

Injection Date:	17-Dec-2021 17:42:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 18_02.d				
Lims ID:	CCB				
Client ID:					
Sample Type:	CCB				
Inject. Date:	17-Dec-2021 18:02:00	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103129-014				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:52:54	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:49:59

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.983	4.973	0.010	272383		0.0916	
5 Sulfate						
9.113	8.983	0.130	440070		0.1255	

QC Flag Legend

Processing Flags

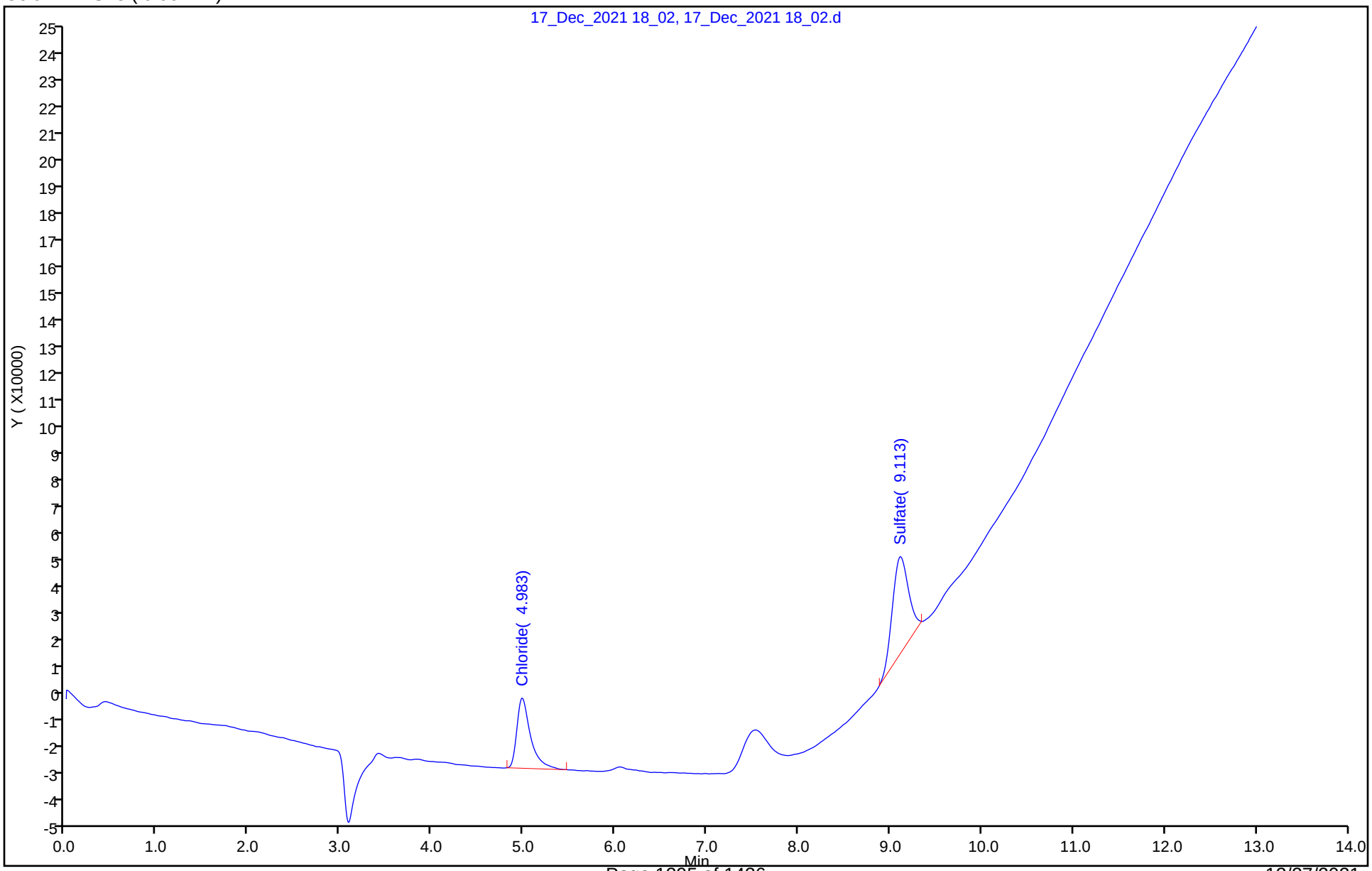
Report Date: 20-Dec-2021 12:52:55 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 18_02.d

Injection Date:	17-Dec-2021 18:02:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 21_36.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2021 21:36:00 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-025
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:52:59 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:50:36

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.423	3.423	0.000	126130030	5.00	5.26	
2 Chloride						
4.977	4.977	0.000	779136216	50.0	49.8	
3 Nitrite as N						
6.050	6.050	0.000	168803603	NC	NC	
4 Bromide						
8.293	8.293	0.000	28914683	5.00	4.88	
5 Sulfate						
8.980	8.980	0.000	571358533	50.0	50.0	
6 Nitrate as N						
9.560	9.560	0.000	209037418	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00395 Amount Added: 5.00 Units: mL

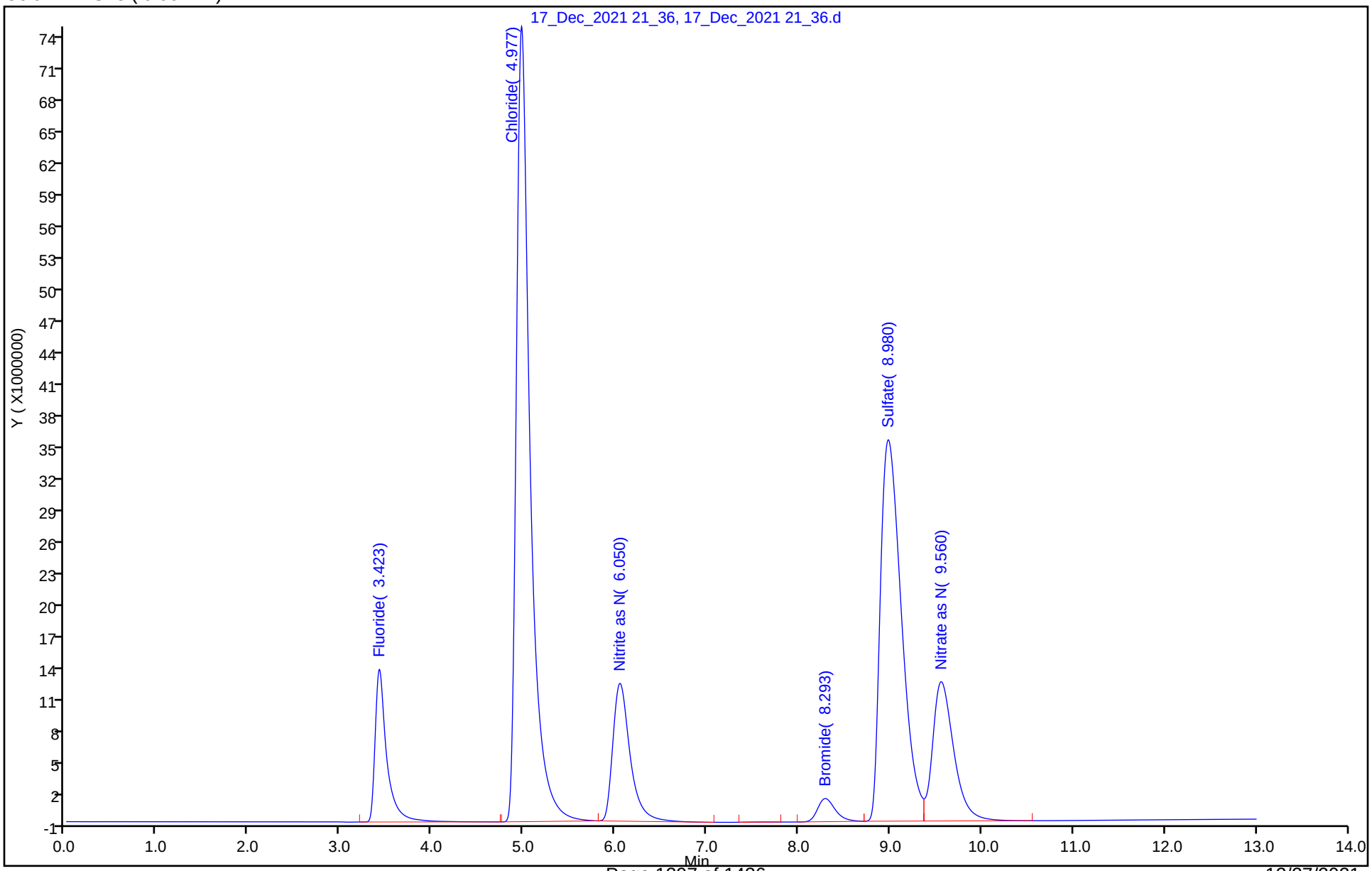
Report Date: 20-Dec-2021 12:52:59 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 21_36.d

Injection Date:	17-Dec-2021 21:36:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 21_56.d				
Lims ID:	CCB				
Client ID:					
Sample Type:	CCB				
Inject. Date:	17-Dec-2021 21:56:00	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103129-026				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:52:59	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:50:39

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.987	4.977	0.010	232070		0.0890	
5 Sulfate						
9.117	8.980	0.137	413914		0.1232	

QC Flag Legend

Processing Flags

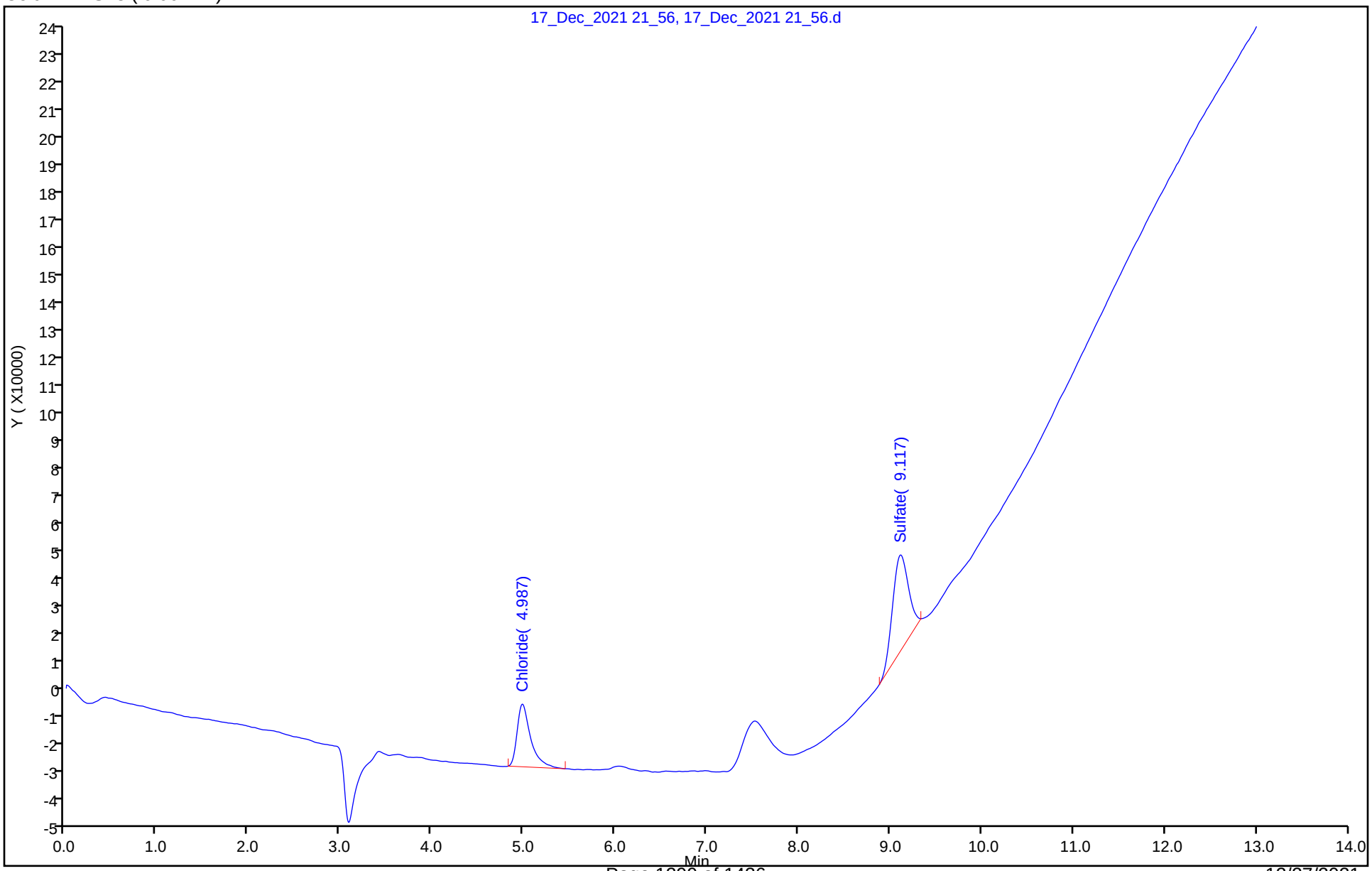
Report Date: 20-Dec-2021 12:53:00 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 21_56.d

Injection Date:	17-Dec-2021 21:56:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 22_16.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Dec-2021 22:16:00 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-027
Operator ID: Instrument ID: IC-6

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:52:59 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:50:42

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.423	3.423	0.000	126509248	5.00	5.28	
2 Chloride						
4.977	4.977	0.000	777498660	50.0	49.7	
3 Nitrite as N						
6.050	6.050	0.000	168028395	NC	NC	
4 Bromide						
8.293	8.293	0.000	28818116	5.00	4.86	
5 Sulfate						
8.980	8.980	0.000	571251602	50.0	50.0	
6 Nitrate as N						
9.560	9.560	0.000	208716704	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00395 Amount Added: 5.00 Units: mL

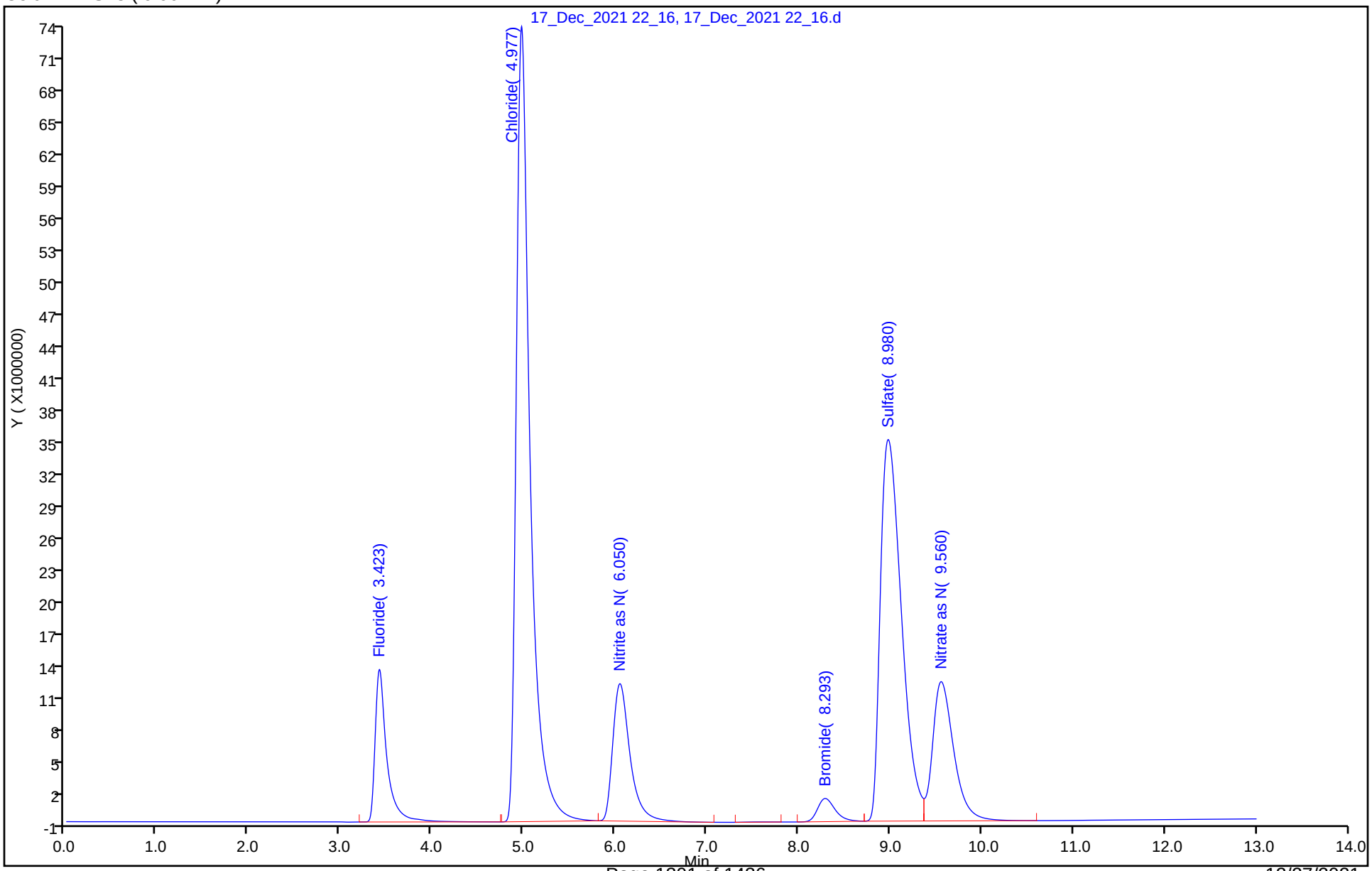
Report Date: 20-Dec-2021 12:53:02 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 22_16.d

Injection Date:	17-Dec-2021 22:16:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 22_35.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Dec-2021 22:35:00 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-028
Operator ID: Instrument ID: IC-6

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:52:59 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:50:46

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.987	4.977	0.010	199363		0.0869	
5 Sulfate						
9.127	8.980	0.147	334720		0.1163	

QC Flag Legend

Processing Flags

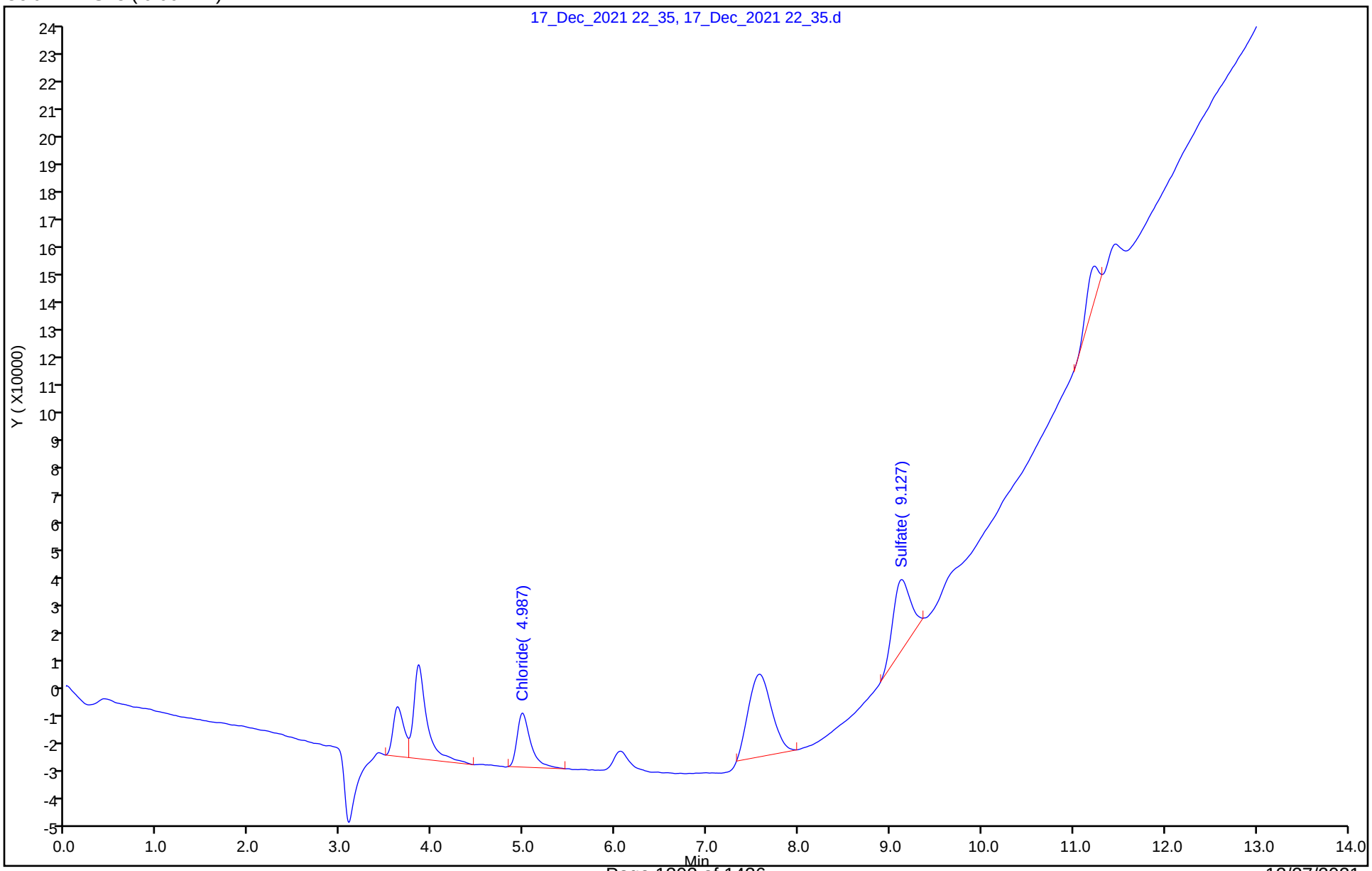
Report Date: 20-Dec-2021 12:53:02 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 22_35.d

Injection Date:	17-Dec-2021 22:35:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	MB			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 01_31.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Dec-2021 01:31:00 ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-037
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:53:05 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:51:14

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.423	3.423	0.000	126173889	5.00	5.26	
2 Chloride						
4.977	4.977	0.000	779048967	50.0	49.8	
3 Nitrite as N						
6.050	6.050	0.000	168837605	NC	NC	
4 Bromide						
8.293	8.293	0.000	28941832	5.00	4.88	
5 Sulfate						
8.980	8.980	0.000	571877428	50.0	50.1	
6 Nitrate as N						
9.557	9.557	0.000	209480460	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00395 Amount Added: 5.00 Units: mL

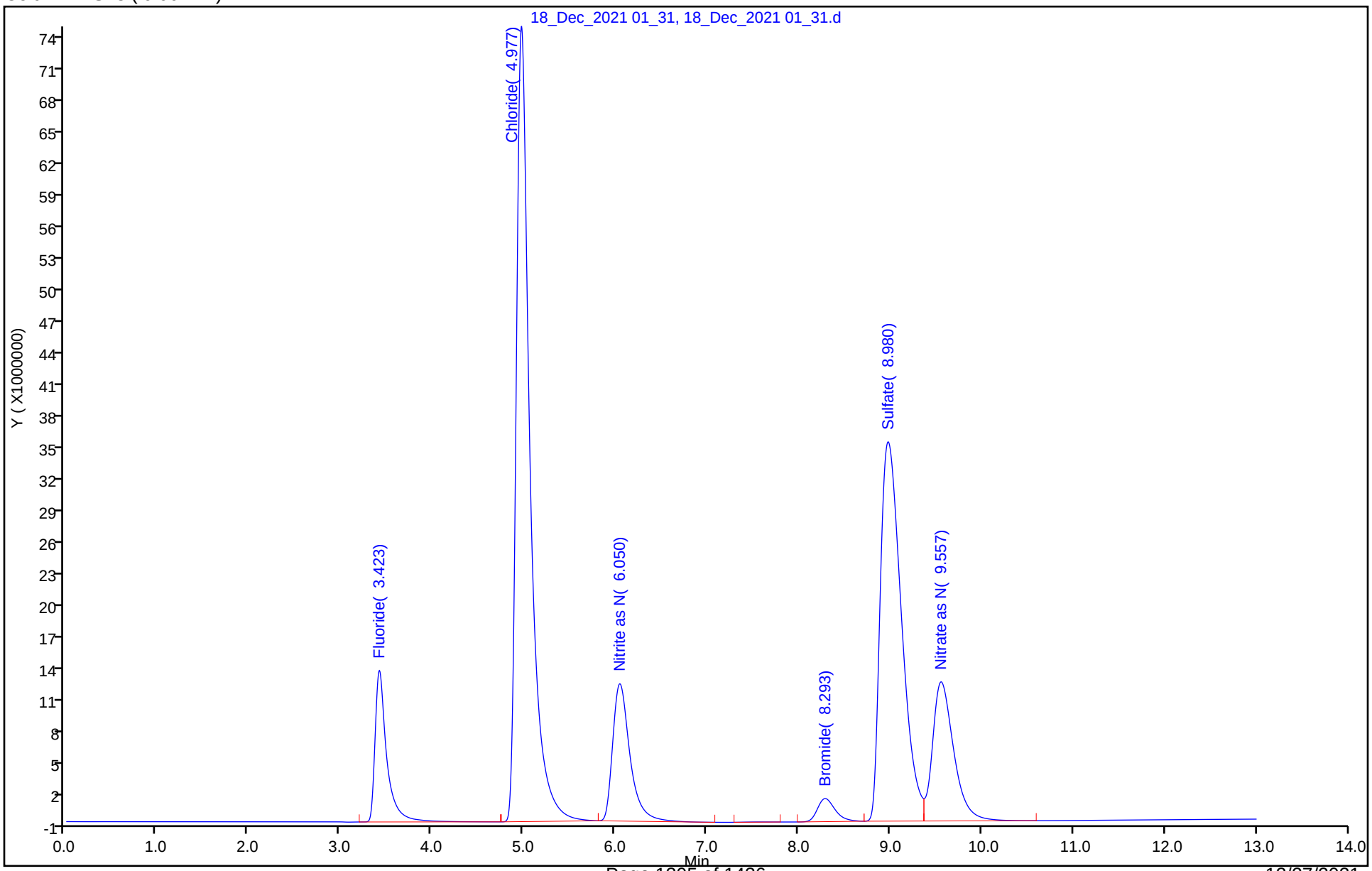
Report Date: 20-Dec-2021 12:53:05 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 01_31.d

Injection Date:	18-Dec-2021 01:31:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	37
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 01_51.d				
Lims ID:	CCB				
Client ID:					
Sample Type:	CCB				
Inject. Date:	18-Dec-2021 01:51:00	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103129-038				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:53:05	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:51:17

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.987	4.977	0.010	233293		0.0891	
5 Sulfate						
9.123	8.980	0.143	446957		0.1261	

QC Flag Legend

Processing Flags

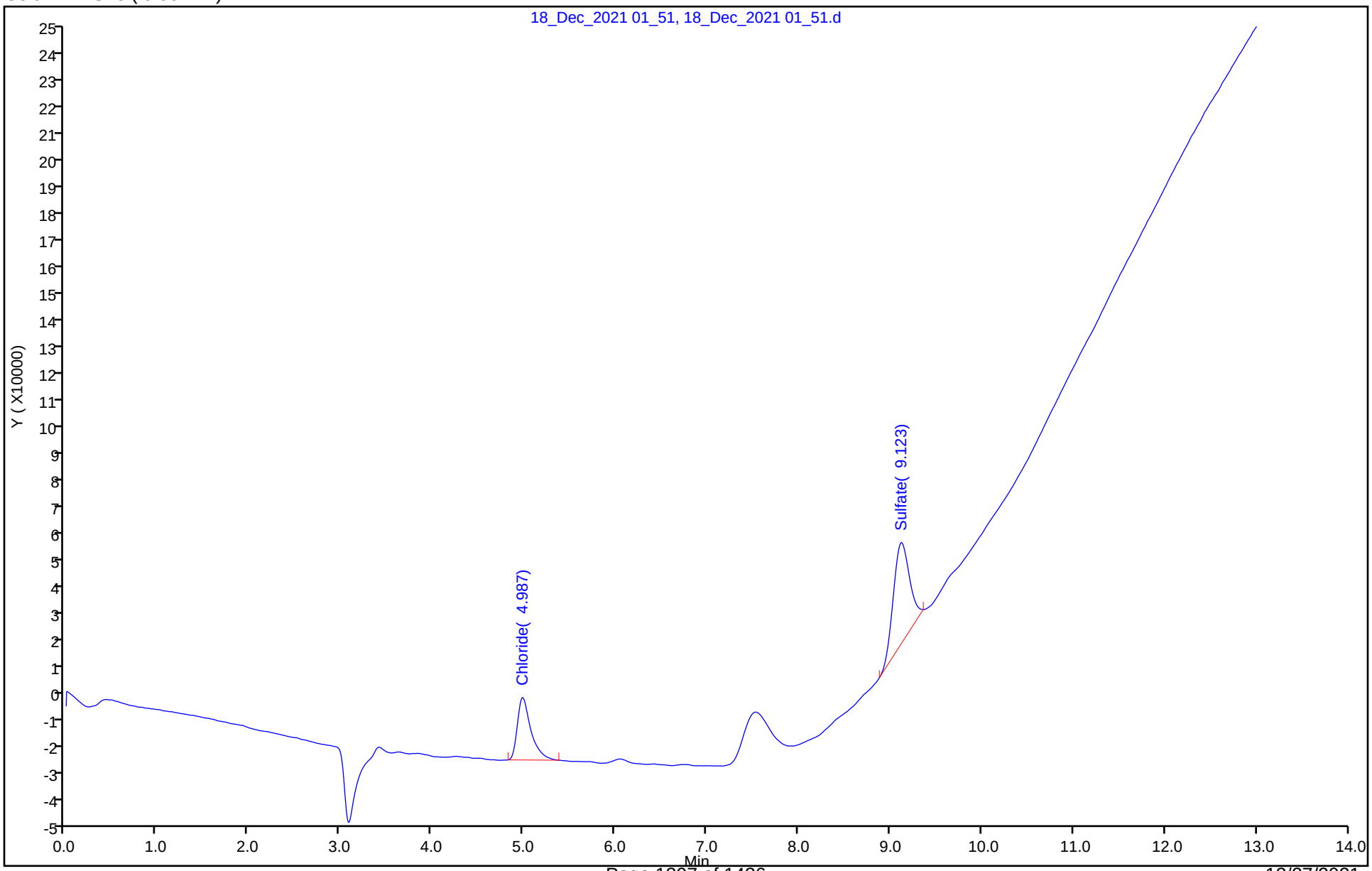
Report Date: 20-Dec-2021 12:53:06 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 01_51.d

Injection Date:	18-Dec-2021 01:51:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 02_49.d				
Lims ID:	480-193337-M-1				
Client ID:	CD-1				
Sample Type:	Client				
Inject. Date:	18-Dec-2021 02:49:00	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103129-041				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:53:05	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				
First Level Reviewer: zahniseri		Date:	20-Dec-2021 12:51:27		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

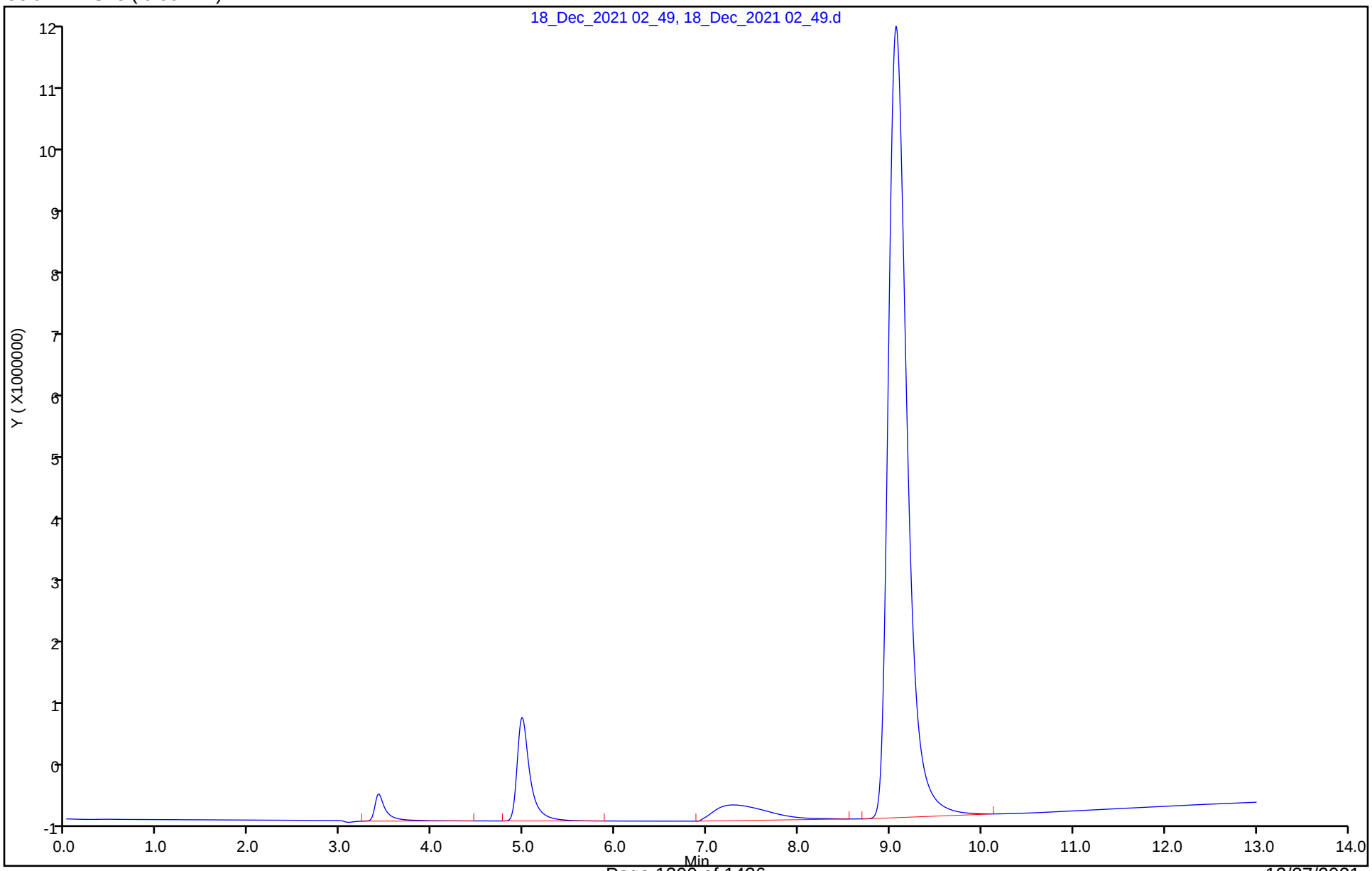
Report Date: 20-Dec-2021 12:53:07 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 02_49.d

Injection Date:	18-Dec-2021 02:49:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	480-193337-M-1	Lab Sample ID:	480-193337-1	Worklist Smp#:	41
Client ID:	CD-1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 03_09.d				
Lims ID:	480-193337-M-2				
Client ID:	CD-1RA				
Sample Type:	Client				
Inject. Date:	18-Dec-2021 03:09:00	ALS Bottle#:	0	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103129-042				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:53:05	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				
First Level Reviewer: zahniseri		Date:	20-Dec-2021 12:51:30		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

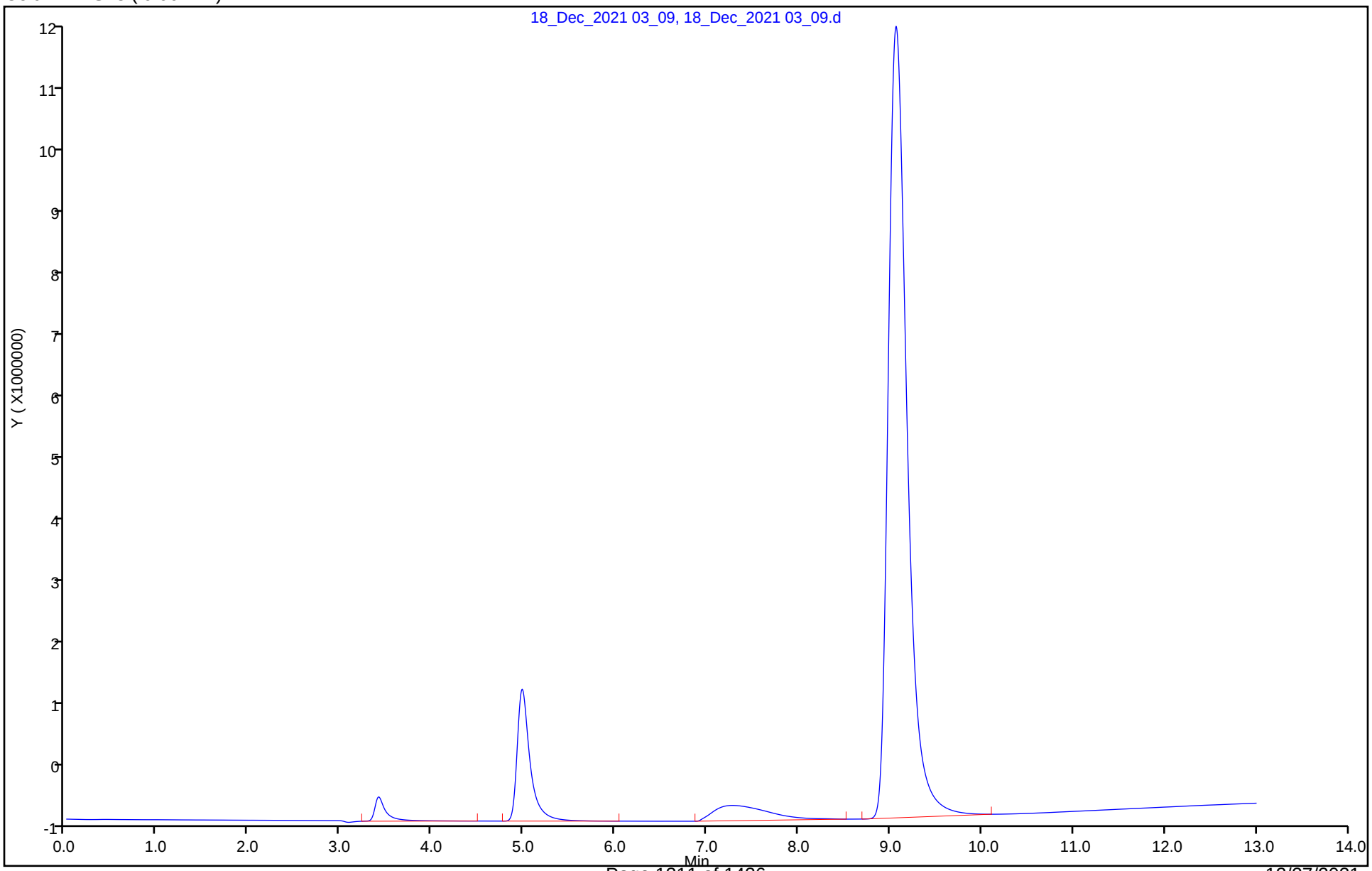
Report Date: 20-Dec-2021 12:53:07 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 03_09.d

Injection Date:	18-Dec-2021 03:09:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	480-193337-M-2	Lab Sample ID:	480-193337-2	Worklist Smp#:	42
Client ID:	CD-1RA				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 05_26.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Dec-2021 05:26:00 ALS Bottle#: 0 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-049
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:53:09 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:51:52

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.423	3.423	0.000	126322699	5.00	5.27	
2 Chloride						
4.977	4.977	0.000	778845339	50.0	49.8	
3 Nitrite as N						
6.050	6.050	0.000	168701506	NC	NC	
4 Bromide						
8.293	8.293	0.000	28981717	5.00	4.89	
5 Sulfate						
8.983	8.983	0.000	570941122	50.0	50.0	
6 Nitrate as N						
9.557	9.557	0.000	209961517	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00395 Amount Added: 5.00 Units: mL

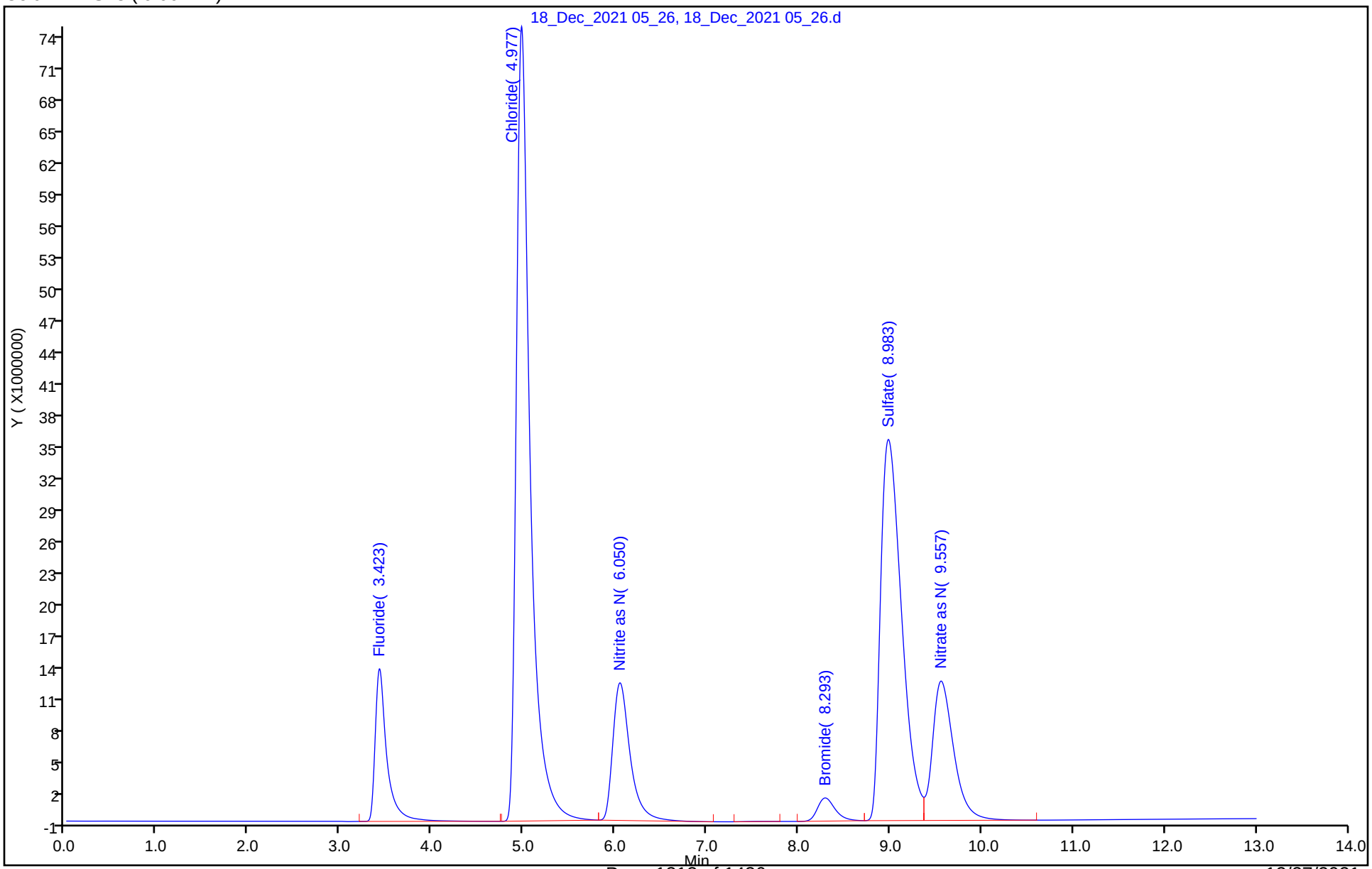
Report Date: 20-Dec-2021 12:53:09 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 05_26.d

Injection Date:	18-Dec-2021 05:26:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	49
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 05_45.d				
Lims ID:	CCB				
Client ID:					
Sample Type:	CCB				
Inject. Date:	18-Dec-2021 05:45:00	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103129-050				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:53:09	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:51:56

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.987	4.977	0.010	231286		0.0889	
5 Sulfate						
9.113	8.983	0.130	440313		0.1255	

QC Flag Legend

Processing Flags

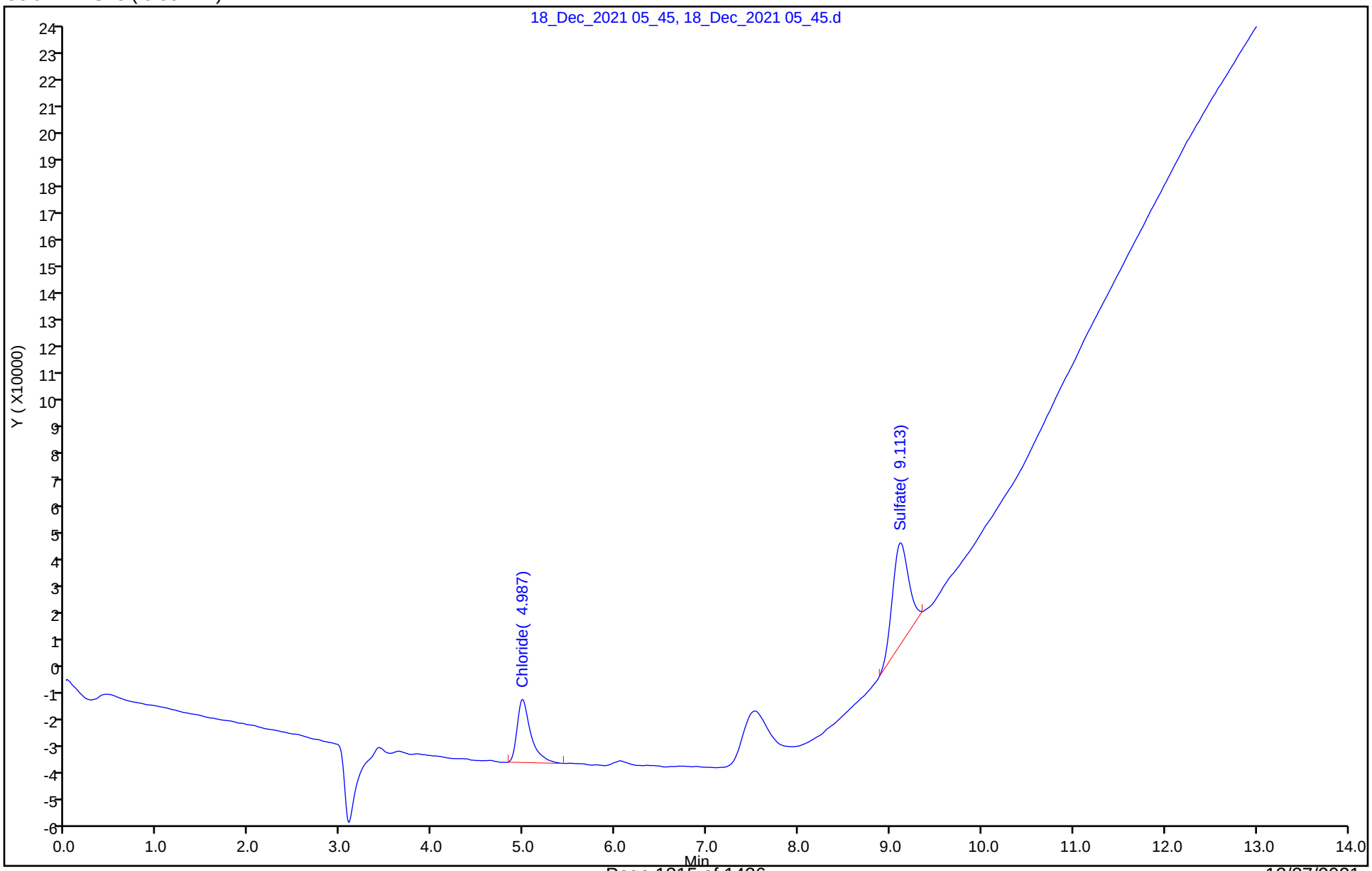
Report Date: 20-Dec-2021 12:53:10 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 05_45.d

Injection Date:	18-Dec-2021 05:45:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	50
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



NO3 608491
NO2 608492
Calc 608493
Not Run 608494

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

	Solutions #	
Nitrate, NO3/NO2 1000mg/L STD: (CAL)	6158428	Exp. 02/10/2022
Nitrate 1000mg/L STD (CCV/LCS/ICV)	6508627	Exp. 10/31/2022
Nitrite 1000mg/L STD (CAL)	6342075	Exp. 10/21/2022
Nitrite 1000mg/L STD (CCV/LCS/ICV)	6125836	Exp. 03/12/2022
Nitrate, Nitrate/Nitrite Int STD (MS)	6805923	Exp. 12/14/2021
Nitrite Int STD(MS)	6805924	Exp. 12/14/2021
Nitrate 1.5ppm CCV/ICV/LCS	6813400	Exp. 12/12/2021
Nitrite 1.5ppm CCV/ICV/LCS	6813401	Exp. 12/12/2021
Ammonium Chloride Buffer	6800828	Exp. 01/02/2022
Color Reagent	6800713	Exp. 01/02/2022
1:4 Ammonium Hydroxide	6791433	Exp. 04/22/2022

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
(1.35 mg/L –1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L
MS/MSD = 1.0mg/L
Control Limits = 90-110%
RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:
3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with Di water
2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
.5ppm –5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up to 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:
3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with Di water
2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
.5ppm –5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up too 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples _____

608491

Date : 12/11/2021

Author: BufLachat3

Original Run Filename: OM_12-11-2021_01-55-00PM.OMN Created: 12/11/2021 1:55:00 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_12-11-2021_01-55-00PM.OMN Last Modified: 12/11/2021 2:32:21 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
NO2	1	S11	1.49	3.45	0.329	12/11/2021@1:56:01 PM
	Calibration:		Table/Fig. : 1			
CCV	1	S9	1.43	3.31	0.320	12/11/2021@1:57:23 PM
	Known Conc:		1.50			
CCB	1	S10	-0.0106	0.0467	1.76e-3	12/11/2021@1:58:45 PM
	Known Conc:		0.00			
MB	1	S10	-0.0246	0.0148	9.70e-4	12/11/2021@2:00:08 PM
	Known Conc:		0.00			
LCS	1	S9	1.46	3.39	0.323	12/11/2021@2:01:30 PM
	Known Conc:		1.50			
480-193335-I-1	1	1	-8.56e-3	0.0514	3.17e-3	12/11/2021@2:02:53 PM
ms 480-193335-I-1	1	2	1.04	2.44	0.230	12/11/2021@2:04:17 PM
1480-193335-I-2	1	3	-4.18e-3	0.0613	3.00e-3	12/11/2021@2:05:40 PM
480-193335-I-3	1	4	-0.0131	0.0411	2.44e-3	12/11/2021@2:07:03 PM
480-193335-I-4	1	5	1.48e-3	0.0742	5.05e-3	12/11/2021@2:08:26 PM
480-193335-I-5	1	6	8.04e-3	0.0891	6.11e-3	12/11/2021@2:09:49 PM
480-193335-I-6	1	7	-1.32e-3	0.0678	3.97e-3	12/11/2021@2:11:11 PM
480-193336-R-1	1	8	0.0219	0.120	9.37e-3	12/11/2021@2:12:34 PM
CCV	1	S9	1.48	3.43	0.323	12/11/2021@2:13:56 PM
	Known Conc:		1.50			
CCB	1	S10	-0.0163	0.0338	2.09e-3	12/11/2021@2:15:19 PM
	Known Conc:		0.00			
480-193336-R-2	1	9	2.43	5.59	0.526	12/11/2021@2:16:41 PM
du 480-193336-R-2	1	10	2.44	5.60	0.528	12/11/2021@2:18:04 PM
ms 480-193336-R-2	1	11	3.36	7.70	0.730	12/11/2021@2:19:26 PM
480-193336-R-3	1	12	0.0102	0.0940	5.91e-3	12/11/2021@2:20:48 PM
480-193337-J-1	1	13	8.93e-3	0.0911	6.04e-3	12/11/2021@2:22:10 PM
480-193337-J-2	1	14	-3.03e-3	0.0639	4.82e-3	12/11/2021@2:23:32 PM
480-193332-G-1	1	15	0.101	0.300	0.0231	12/11/2021@2:24:54 PM
CCV	1	S9	1.47	3.42	0.323	12/11/2021@2:26:16 PM
	Known Conc:		1.50			
CCB	1	S10	-0.0250	0.0141	-1.14e-3	12/11/2021@2:27:39 PM
	Known Conc:		0.00			
MB	1	S10	-0.0248	0.0145	2.28e-3	12/11/2021@2:29:01 PM
	Known Conc:		0.00			
LCS	1	S9	1.48	3.42	0.324	12/11/2021@2:30:23 PM
	Known Conc:		1.50			

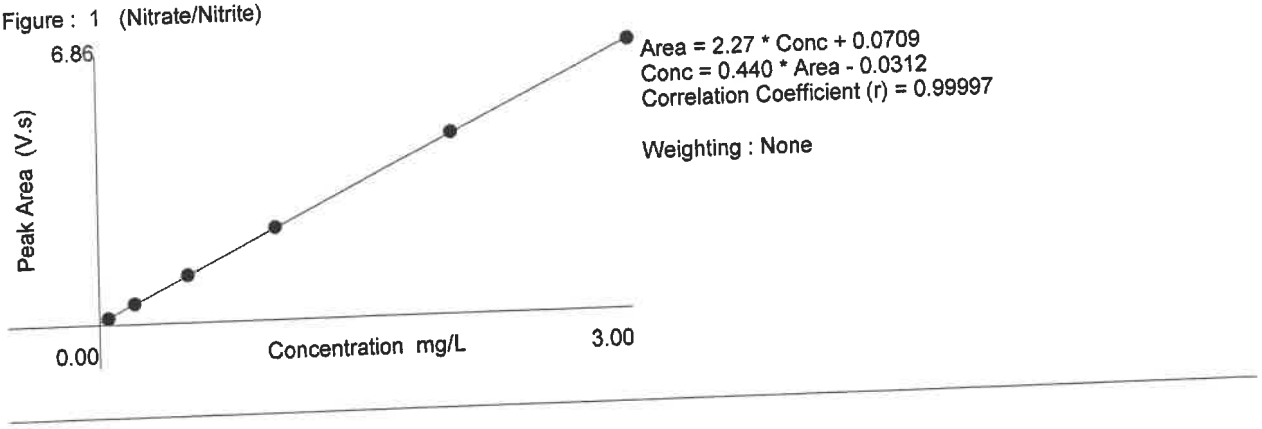
Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	6.86	0.660	0.0	0.3	2.99	12/11/2021	10:29:03 AM
2	2.00	1	4.64	0.445	0.0	-0.5	2.01	12/11/2021	10:30:25 AM
3	1.00	1	2.36	0.224	0.0	-0.6	1.01	12/11/2021	10:31:48 AM
4	0.500	1	1.21	0.114	0.0	-0.7	0.504	12/11/2021	10:33:11 AM
5	0.200	1	0.523	0.0463	0.0	0.4	0.199	12/11/2021	10:34:34 AM
6	0.0500	1	0.162	0.0133	0.0	12.0	0.0403	12/11/2021	10:35:58 AM

Date : 12/11/2021

Author: BufLachat3

Figure : 1 (Nitrate/Nitrite)



608492

Date : 12/11/2021

Author: BufLachat3

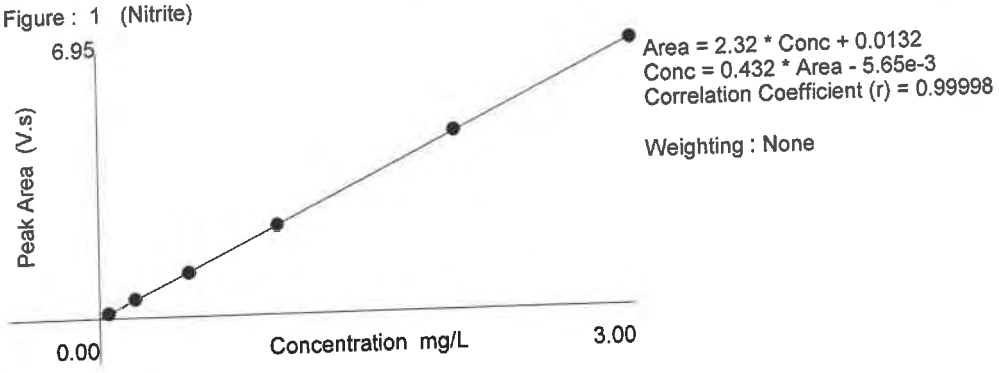
Original Run Filename: OM_12-11-2021_02-34-24PM.OMN Created: 12/11/2021 2:34:24 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_12-11-2021_02-34-24PM.OMN Last Modified: 12/11/2021 2:50:47 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S11	1.59	3.69	0.452	12/11/2021@2:35:35 PM
Known Conc:			1.50			
Calibration:			Table/Fig. : 1			
CCB	1	S10	-7.32e-3	-3.85e-3	-1.66e-3	12/11/2021@2:36:57 PM
Known Conc:			0.00			
MB	1	S10	2.73e-3	0.0194	1.86e-3	12/11/2021@2:38:19 PM
Known Conc:			0.00			
LCS	1	S11	1.59	3.69	0.449	12/11/2021@2:39:42 PM
Known Conc:			1.50			
480-193336-R-2	1	1	0.460	1.08	0.129	12/11/2021@2:41:05 PM
du 480-193336-R-2	1	2	0.459	1.08	0.128	12/11/2021@2:42:28 PM
ms 480-193336-R-2	1	3	1.36	3.17	0.385	12/11/2021@2:43:51 PM
CCV	1	S11	1.58	3.68	0.449	12/11/2021@2:45:14 PM
Known Conc:			1.50			
CCB	1	S10	-3.57e-3	4.83e-3	9.63e-4	12/11/2021@2:46:36 PM
Known Conc:			0.00			
MB	1	S10	2.06e-3	0.0179	2.32e-3	12/11/2021@2:47:58 PM
Known Conc:			0.00			
LCS	1	S11	1.58	3.67	0.449	12/11/2021@2:49:21 PM
Known Conc:			1.50			

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	6.95	0.845	0.0	0.1	3.00	12/11/2021	9:25:39 AM
2	2.00	1	4.67	0.570	0.0	-0.5	2.01	12/11/2021	9:27:01 AM
3	1.00	1	2.33	0.286	0.0	0.1	0.999	12/11/2021	9:28:24 AM
4	0.500	1	1.15	0.140	0.0	2.2	0.489	12/11/2021	9:29:46 AM
5	0.200	1	0.486	0.0576	0.0	-2.0	0.204	12/11/2021	9:31:09 AM
6	0.0500	1	0.136	0.0155	0.0	-5.3	0.0530	12/11/2021	9:32:33 AM

Figure : 1 (Nitrite)



Date : 12/11/2021

Author: BufLachat3

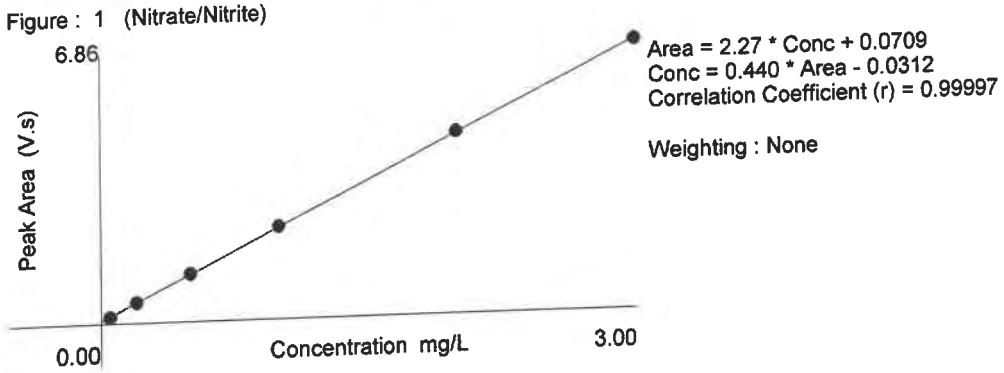
Original Run Filename: OM_12-11-2021_10-27-53AM.OMN Created: 12/11/2021 10:27:53 AM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_12-11-2021_10-27-53AM.OMN Last Modified: 12/11/2021 10:42:06 AM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
3.0	1	S1	3.00	6.86	0.660	12/11/2021@10:29:03 AM
2.0	1	S2	2.00	4.64	0.445	12/11/2021@10:30:25 AM
1.0	1	S3	1.00	2.36	0.224	12/11/2021@10:31:48 AM
0.5	1	S4	0.500	1.21	0.114	12/11/2021@10:33:11 AM
0.2	1	S5	0.200	0.523	0.0463	12/11/2021@10:34:34 AM
0.05	1	S6	0.0500	0.162	0.0133	12/11/2021@10:35:58 AM
ICV	1	S9	1.48	3.44	0.328	12/11/2021@10:37:20 AM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
ICB	1	S10	-0.0286	5.79e-3	-8.33e-4	12/11/2021@10:38:43 AM
	Known Conc:		0.00			
0.05	1	S6	0.0477	0.179	0.0143	12/11/2021@10:40:07 AM

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	6.86	0.660	0.0	0.3	2.99	12/11/2021	10:29:03 AM
2	2.00	1	4.64	0.445	0.0	-0.5	2.01	12/11/2021	10:30:25 AM
3	1.00	1	2.36	0.224	0.0	-0.6	1.01	12/11/2021	10:31:48 AM
4	0.500	1	1.21	0.114	0.0	-0.7	0.504	12/11/2021	10:33:11 AM
5	0.200	1	0.523	0.0463	0.0	0.4	0.199	12/11/2021	10:34:34 AM
6	0.0500	1	0.162	0.0133	0.0	12.0	0.0403	12/11/2021	10:35:58 AM

Figure : 1 (Nitrate/Nitrite)



Date : 12/11/2021

Author: BufLachat3

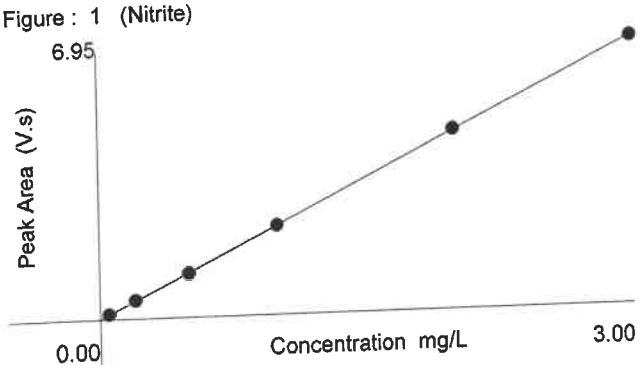
Original Run Filename: OM_12-11-2021_09-24-28AM.OMN Created: 12/11/2021 9:24:28 AM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_12-11-2021_09-24-28AM.OMN Last Modified: 12/11/2021 9:38:13 AM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
3.0	1	S1	3.00	6.95	0.845	12/11/2021@9:25:39 AM
2.0	1	S2	2.00	4.67	0.570	12/11/2021@9:27:01 AM
1.0	1	S3	1.00	2.33	0.286	12/11/2021@9:28:24 AM
0.5	1	S4	0.500	1.15	0.140	12/11/2021@9:29:46 AM
0.2	1	S5	0.200	0.486	0.0576	12/11/2021@9:31:09 AM
0.05	1	S6	0.0500	0.136	0.0155	12/11/2021@9:32:33 AM
ICV	1	S11	1.54	3.58	0.441	12/11/2021@9:33:55 AM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
ICB	1	S10	0.0101	0.0364	3.21e-3	12/11/2021@9:35:17 AM
	Known Conc:		0.00			
0.05	1	S6	0.0502	0.129	0.0144	12/11/2021@9:36:41 AM

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	6.95	0.845	0.0	0.1	3.00	12/11/2021	9:25:39 AM
2	2.00	1	4.67	0.570	0.0	-0.5	2.01	12/11/2021	9:27:01 AM
3	1.00	1	2.33	0.286	0.0	0.1	0.999	12/11/2021	9:28:24 AM
4	0.500	1	1.15	0.140	0.0	2.2	0.489	12/11/2021	9:29:46 AM
5	0.200	1	0.486	0.0576	0.0	-2.0	0.204	12/11/2021	9:31:09 AM
6	0.0500	1	0.136	0.0155	0.0	-5.3	0.0530	12/11/2021	9:32:33 AM

Figure : 1 (Nitrite)



Area = 2.32 * Conc + 0.0132
Conc = 0.432 * Area - 5.65e-3
Correlation Coefficient (r) = 0.99998

Weighting : None

Historical Data Summary Report

For Batch 608491

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193332-G-1	DUP	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.10	☐	0 - 0.115	☑	0 - 0.1
480-193335-I-1	MW-12AA	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.06	☐	0 - 0.065
480-193335-I-2	MW-12BBB	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-I-3	MW-13A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.152	☐	0 - 0.144
480-193335-I-4	MW-13B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.069	☐	0 - 0.074
480-193335-I-5	MW-17A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.168	☐	0 - 0.18
480-193335-I-6	MW-17B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.12	☐	0 - 0.084
480-193336-R-1	SLC-2A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.325	☐	0 - 0.276
480-193336-R-2	PLC-2A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	2.4	☐	0 - 10.166	☐	0 - 8.76
480-193336-R-3	PLC-1B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.314	☐	0 - 0.324
480-193337-J-1	CD-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.128	☐	0 - 0.091
480-193337-J-2	CD-1RA	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.063	☐	0 - 0.067

Confirmed -1

Historical Data Summary Report

For Batch 608492

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193336-R-2	PLC-2A	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	0.46	☐	0 - 7.71	☐	0 - 8.28

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Wet Chemistry Dept

Analysis: Sulfate

Method: 9038

Analyst/Primary Reviewer: SMW

Secondary Reviewer: Chawisa

Date of Analytical Run: 12/16/21

Date of Primary Review: 12/17/21

Date of Secondary Review: 12/20/2021

Prep Batch Number					
Analytical Batch Number	609236				

Criteria for QC	1st Level	2nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, r > or = 0.995, pH meter slope 90-110% (if applicable)	Y	✓		
Was Data Imported X Manually Entered ____ Balance Interface Used ____	Impt	✓		
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Y	✓		
Were the ICB, CCB and MB all <RL?	Y	✓		
Was there a CCV/CCB combination run after every 10 samples or less?	Y	✓		
Was there an LCS run with every batch of 20 samples or less?	Y	✓		
Was there a DU, MS or MSD run with every batch of 20 samples or less?	Y	✓		
Were all MS/MSD results within acceptable limits for QC recovery?	N	✓		
Were all DU or MSD RPDs within acceptable limits for QC recovery?	Y	✓		
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	Y	✓		
Are dilution factors all present and correct?	Y	✓		
Do all entries match raw data?	Y	✓		
Were there any holding time violations in this batch?	N	✓		**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y	✓		
Were any NCMs needed in the batch?	N	✓		NCM #s:
Data scanned in?	Y	✓		

12/27/2021
Chawisa 12/20/2021

Sulfate

9038/D516

1000 PPM	(MS/MSD/CAL)	6560004	EXP: 11/30/2022
30 PPM	(CCV/LCS)	6791930	EXP: 12/20/2021
Precipitating Solution:		6791929	EXP: 12/20/2021
ICV: made from IC standard		6791931	EXP: 02/22/2022

CURVE:

Kone 1: 11/19/2019 Batch: 505599
100 ppm: 5657751

Kone 2: 06/29/2020 Batch: 538610
100 ppm: 5994552

Kone 3: 07/23/2019 Batch: 483387
100 ppm: 5409342

Gallery 1: 12/16/2021 Batch: 609236
100 ppm: 6822609

12/27/2021 Chawisa 12/20/2021

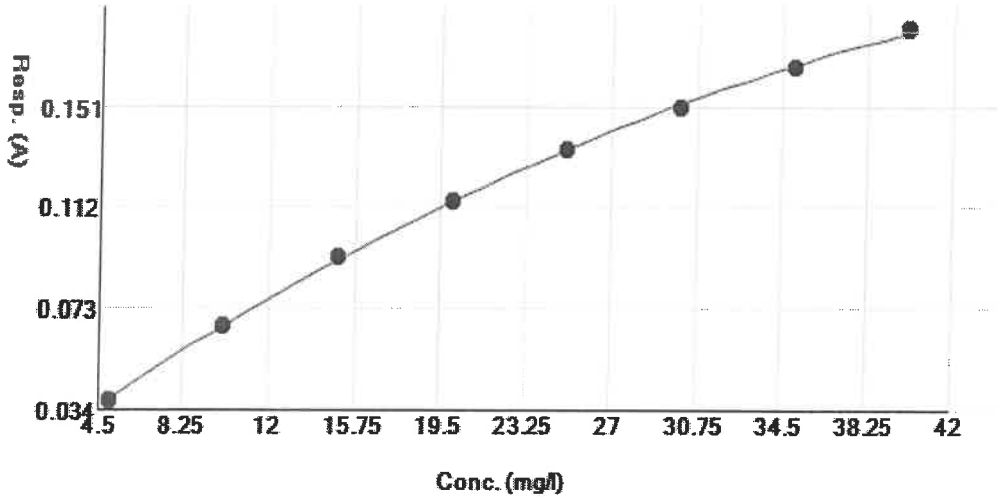
Calibration results

SO4 Version number 1.3

Date	12/16/2021	**User**	BufGallery1
Time	7:26:30PM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	SO4	**Coeff. of deter.**	0.999645
Status	Accepted	**Total factor**	246.737
Accepted	12/16/2021 7:26 PM		
Checked	12/16/2021 7:26 PM	Zero-order factor	0.008
User name	BufGallery1	1st order factor	0.006
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
SO4 5	0.037	4.844	5.000	Default	
SO4 10	0.067	10.097	10.000	Default	
SO4 15	0.093	15.241	15.000	Default	
SO4 20	0.114	20.010	20.000	Default	
SO4 25	0.135	25.054	25.000	Default	
SO4 30	0.151	29.656	30.000	Default	
SO4 35	0.166	34.626	35.000	Default	
SO4 40	0.181	40.512	40.000	Default	
ICB	0.013	0.59	0.00	Default	Outside calibration
SO4 ICV	0.156	31.04	30.00	Default	



Chawisa 12/20/2021

Water blank results

Date 12/17/2021 **User** BufGallery1

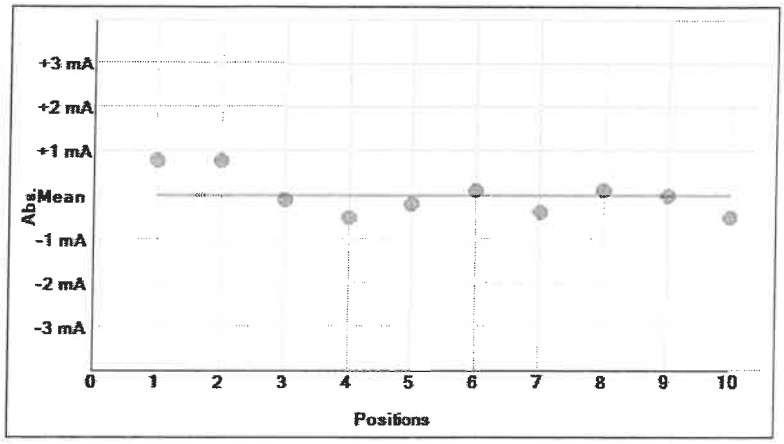
Time 4:13:02AM **Software version: 6.0.2**

Measurement time
12/16/2021 6:45 PM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1003.1**	**0.5**
420	-1036.4	0.2
480	-1046.9	0.2
510	-1050.5	0.2
540	-1054.0	0.1
575	-1057.1	0.2
600	-1058.6	0.2
620	-1060.0	0.2
660	-1062.3	0.1
700	-1063.5	0.1
880	-1047.0	0.2

340



12/27/2021
Chawisa 12/20/2021

Results by Test

Date 12/17/2021 **User** BufGallery1

Time 4:00:07AM **Software version: 6.0.2**

Test name SO4

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	CCB	1.3	0.53	mg/l		0.0	man acc	Outside calibration
2	CCV SO4	1.3	30.24	mg/l		0.0	man acc	
7	CCB	1.3	1.83	mg/l		0.0	man acc	Outside calibration
8	CCV SO4	1.3	30.41	mg/l		0.0	man acc	
11	480-193026-G-4	1.3	20.21	mg/l		0.0	man acc	
12	480-193026-G-5	1.3	7.13	mg/l		0.0	man acc	
13	CCB	1.3	0.54	mg/l		0.0	man acc	Outside calibration
14	CCV SO4	1.3	30.44	mg/l		0.0	man acc	
16	480-193026-G-6	1.3	0.61	mg/l		0.0	man acc	Outside calibration
17	480-193199-G-1	1.3	0.24	mg/l		0.0	man acc	Outside calibration
18	480-193199-G-2	1.3	0.32	mg/l		0.0	man acc	Outside calibration
19	480-193199-G-3	1.3	0.72	mg/l		0.0	man acc	Outside calibration
20	CCB	1.3	1.01	mg/l		0.0	man acc	Outside calibration
21	CCV SO4	1.3	30.61	mg/l		0.0	man acc	
22	480-193199-G-4	1.3	27.35	mg/l		0.0	man acc	
23	480-193199-G-5	1.3	0.29	mg/l		0.0	man acc	Outside calibration
24	480-193026-G-1	1.3	239.26	mg/l		9.0	man acc	
26	CCB	1.3	0.78	mg/l		0.0	man acc	Outside calibration
27	CCV SO4	1.3	30.89	mg/l		0.0	man acc	
28	ms480-193026-G-1	1.3	252.43	mg/l		9.0	man acc	
29	msd480-193026-G-	1.3	258.10	mg/l		9.0	man acc	
31	480-193199-G-7	1.3	58.55	mg/l		2.0	man acc	
37	CCB	1.3	0.45	mg/l		0.0	man acc	Outside calibration
38	CCV SO4	1.3	29.94	mg/l		0.0	man acc	
43	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
44	CCV SO4	1.3	29.24	mg/l		0.0	man acc	
45	ms480-193241-I-2	1.3	31.76	mg/l		0.0	man acc	
46	msd480-193241-I-2	1.3	34.56	mg/l		0.0	man acc	
49	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
50	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
51	480-193241-I-5	1.3	15.80	mg/l		0.0	man acc	
52	480-193241-I-6	1.3	16.02	mg/l		0.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
53	ms480-193241-I-6	1.3	36.21	mg/l		0.0	man acc	
54	msd480-193241-I-6	1.3	36.61	mg/l		0.0	man acc	
55	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
56	CCV SO4	1.3	29.72	mg/l		0.0	man acc	
57	480-193243-I-1	1.3	0.38	mg/l		0.0	man acc	Outside calibration
58	480-193243-I-2	1.3	1.58	mg/l		0.0	man acc	Outside calibration
59	480-193265-G-1	1.3	148.26	mg/l		9.0	man acc	
60	480-193265-G-2	1.3	264.60	mg/l		9.0	man acc	
61	CCB	1.3	0.33	mg/l		0.0	man acc	Outside calibration
62	CCV SO4	1.3	30.05	mg/l		0.0	man acc	
64	480-193265-G-4	1.3	180.61	mg/l		4.0	man acc	
65	480-193265-G-5	1.3	151.66	mg/l		4.0	man acc	
66	480-193265-G-6	1.3	154.37	mg/l		4.0	man acc	
67	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
68	CCV SO4	1.3	29.74	mg/l		0.0	man acc	
73	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
74	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
77	480-193265-G-3	1.3	497.87	mg/l		19.0	man acc	
78	ms480-193290-I-2	1.3	51.11	mg/l		1.0	man acc	
79	CCB	1.3	0.27	mg/l		0.0	man acc	Outside calibration
80	CCV SO4	1.3	29.53	mg/l		0.0	man acc	
84	CCB	1.3	0.59	mg/l		0.0	man acc	Outside calibration
85	CCV SO4	1.3	29.38	mg/l		0.0	man acc	
87	ms480-193290-I-4	1.3	31.64	mg/l		0.0	man acc	
89	msd480-193290-I-4	1.3	31.02	mg/l		0.0	man acc	
91	CCB	1.3	0.36	mg/l		0.0	man acc	Outside calibration
92	CCV SO4	1.3	29.90	mg/l		0.0	man acc	
97	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
98	CCV SO4	1.3	29.39	mg/l		0.0	man acc	
100	ms480-193290-I-9	1.3	160.89	mg/l		4.0	man acc	
101	msd480-193290-I-9	1.3	150.48	mg/l		4.0	man acc	
102	CCB	1.3	0.42	mg/l		0.0	man acc	Outside calibration
104	CCV SO4	1.3	31.98	mg/l		0.0	man acc	
105	ms480-193305-E-1	1.3	525.78	mg/l		24.0	man acc	
106	msd480-193305-E-	1.3	529.05	mg/l		24.0	man acc	
107	480-193310-G-1	1.3	1.72	mg/l		0.0	man acc	Outside calibration
108	480-193310-G-2	1.3	0.39	mg/l		0.0	man acc	Outside calibration
109	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
110	CCV SO4	1.3	29.14	mg/l		0.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
111	480-193310-G-3	1.3	1.01	mg/l		0.0	man acc	Outside calibration
112	480-193310-G-4	1.3	0.41	mg/l		0.0	man acc	Outside calibration
113	480-193310-G-5	1.3	0.50	mg/l		0.0	man acc	Outside calibration
114	480-193310-G-6	1.3	0.67	mg/l		0.0	man acc	Outside calibration
115	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
116	CCV SO4	1.3	28.91	mg/l		0.0	man acc	
117	480-193310-G-7	1.3	13.85	mg/l		0.0	man acc	
118	480-193310-G-8	1.3	0.28	mg/l		0.0	man acc	Outside calibration
119	480-193317-D-1	1.3	29.36	mg/l		0.0	man acc	
120	480-193317-D-2	1.3	27.32	mg/l		0.0	man acc	
121	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
122	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
123	480-193317-D-3	1.3	23.73	mg/l		0.0	man acc	
124	480-193317-D-4	1.3	24.23	mg/l		0.0	man acc	
126	480-193317-D-6	1.3	28.04	mg/l		0.0	man acc	
127	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
128	CCV SO4	1.3	29.11	mg/l		0.0	man acc	
133	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
134	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
137	480-193335-I-2	1.3	30.53	mg/l		0.0	man acc	
138	ms480-193335-I-2	1.3	49.23	mg/l		1.0	man acc	
141	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
142	CCV SO4	1.3	29.63	mg/l		0.0	man acc	
143	msd480-193335-I-2	1.3	49.90	mg/l		1.0	man acc	
144	480-193335-I-3	1.3	20.86	mg/l		0.0	man acc	
145	480-193317-D-5	1.3	48.01	mg/l		1.0	man acc	
146	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
148	CCV SO4	1.3	30.05	mg/l		0.0	man acc	
149	480-193317-D-7	1.3	36.13	mg/l		1.0	man acc	
150	480-193317-D-8	1.3	55.61	mg/l		1.0	man acc	
151	480-193334-J-1	1.3	78.00	mg/l		1.0	man acc	
152	msd480-193335-I-3	1.3	43.94	mg/l		1.0	man acc	
156	CCB	1.3	0.48	mg/l		0.0	man acc	Outside calibration
157	CCV SO4	1.3	28.71	mg/l		0.0	man acc	
158	CCB	1.3	0.43	mg/l		0.0	man acc	Outside calibration
159	CCV SO4	1.3	29.82	mg/l		0.0	man acc	
160	480-193024-G-1	1.3	448.33	mg/l		19.0	man acc	
162	480-193026-G-3	1.3	1.01	mg/l		0.0	man acc	Outside calibration
164	CCB	1.3	0.43	mg/l		0.0	man acc	Outside calibration

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
165	CCV SO4	1.3	29.45	mg/l		0.0	man acc	
166	480-193199-G-8	1.3	0.21	mg/l		0.0	man acc	Outside calibration
167	ms480-193199-G-7	1.3	72.73	mg/l		4.0	man acc	
168	msd480-193199-G-	1.3	82.48	mg/l		4.0	man acc	
169	480-193203-G-1	1.3	0.46	mg/l		0.0	man acc	Outside calibration
170	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
171	CCV SO4	1.3	30.29	mg/l		0.0	man acc	
173	480-193241-I-1	1.3	0.42	mg/l		0.0	man acc	Outside calibration
174	480-193241-I-2	1.3	9.58	mg/l		0.0	man acc	
175	480-193241-I-3	1.3	23.39	mg/l		0.0	man acc	
176	CCB	1.3	0.38	mg/l		0.0	man acc	Outside calibration
177	CCV SO4	1.3	30.02	mg/l		0.0	man acc	
178	480-193241-I-4	1.3	23.85	mg/l		0.0	man acc	
179	480-193265-G-9	1.3	33.04	mg/l		0.0	man acc	
180	480-193265-G-7	1.3	20.82	mg/l		1.0	man acc	
181	480-193265-G-8	1.3	867.42	mg/l		24.0	man acc	Test limit High
182	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
183	CCV SO4	1.3	28.98	mg/l		0.0	man acc	
184	480-193265-G-10	1.3	2.25	mg/l		0.0	man acc	Outside calibration
185	480-193290-I-2	1.3	31.60	mg/l		0.0	man acc	
186	480-193265-G-11	1.3	308.21	mg/l		9.0	man acc	
187	msd480-193290-I-2	1.3	52.31	mg/l		1.0	man acc	
188	CCB	1.3	0.22	mg/l		0.0	man acc	Outside calibration
189	CCV SO4	1.3	30.02	mg/l		0.0	man acc	
190	480-193290-I-4	1.3	9.43	mg/l		0.0	man acc	
191	480-193290-I-5	1.3	14.90	mg/l		0.0	man acc	
192	480-193290-I-3	1.3	40.66	mg/l		1.0	man acc	
193	480-193290-I-6	1.3	15.77	mg/l		0.0	man acc	
194	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
195	CCV SO4	1.3	29.55	mg/l		0.0	man acc	
198	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
201	CCV SO4	1.3	29.54	mg/l		0.0	man acc	
204	480-193331-G-2	1.3	33.47	mg/l		1.0	man acc	
205	ms480-193335-I-3	1.3	42.70	mg/l		1.0	man acc	
206	CCB	1.3	0.08	mg/l		0.0	man acc	Outside calibration
207	CCV SO4	1.3	30.62	mg/l		0.0	man acc	
208	480-193335-I-4	1.3	0.27	mg/l		0.0	man acc	Outside calibration
209	480-193335-I-5	1.3	17.94	mg/l		0.0	man acc	
211	480-193335-I-6	1.3	51.48	mg/l		1.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
212	CCB	1.3	0.33	mg/l		0.0	man acc	Outside calibration
213	CCV SO4	1.3	29.50	mg/l		0.0	man acc	
215	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
216	CCV SO4	1.3	29.34	mg/l		0.0	man acc	
217	CCB	1.3	0.00	mg/l		0.0	man acc	Outside calibration
218	CCV SO4	1.3	28.36	mg/l		0.0	man acc	
220	480-193199-G-6	1.3	25.13	mg/l		1.0	man acc	
221	480-193203-G-2	1.3	57.67	mg/l		1.0	man acc	
222	480-193290-I-7	1.3	-0.12	mg/l		0.0	man acc	Outside calibration
223	CCB	1.3	-0.09	mg/l		0.0	man acc	Outside calibration
224	CCV SO4	1.3	27.52	mg/l		0.0	man acc	
225	480-193331-I-1	1.3	3.97	mg/l		0.0	man acc	Outside calibration
226	480-193290-I-8	1.3	10.98	mg/l		1.0	man acc	
227	480-193290-I-9	1.3	131.06	mg/l		4.0	man acc	
231	480-193335-I-1	1.3	30.22	mg/l		0.0	man acc	
234	CCB	1.3	-0.07	mg/l		0.0	man acc	Outside calibration
235	CCV SO4	1.3	28.01	mg/l		0.0	man acc	
236	480-193026-G-2	1.3	18.17	mg/l		1.0	man acc	
237	480-193305-E-1	1.3	528.97	mg/l		24.0	man acc	
240	CCB	1.3	-0.06	mg/l		0.0	man acc	Outside calibration
241	CCV SO4	1.3	27.65	mg/l		0.0	man acc	
243	480-193336-Q-2	1.3	-1.64	mg/l		0.0	man acc	Outside calibration
244	480-193336-Q-3	1.3	2.73	mg/l		0.0	man acc	Outside calibration
245	480-193336-Q-5	1.3	0.23	mg/l		0.0	man acc	Outside calibration
246	CCB	1.3	-0.12	mg/l		0.0	man acc	Outside calibration
247	CCV SO4	1.3	27.99	mg/l		0.0	man acc	
248	480-193336-Q-6	1.3	3.84	mg/l		0.0	man acc	Outside calibration
249	480-193336-Q-7	1.3	42.69	mg/l		2.0	man acc	
250	480-193337-H-1	1.3	17.27	mg/l		0.0	man acc	
251	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
252	CCV SO4	1.3	27.24	mg/l		0.0	man acc	
253	ms480-193337-H-1	1.3	36.91	mg/l		1.0	man acc	
254	msd480-193337-H-	1.3	37.60	mg/l		1.0	man acc	
255	480-193337-H-2	1.3	17.76	mg/l		0.0	man acc	
256	CCB	1.3	-0.25	mg/l		0.0	man acc	Outside calibration
258	CCV SO4	1.3	28.61	mg/l		0.0	man acc	
260	msd480-193337-H-	1.3	37.48	mg/l		1.0	man acc	
261	480-193369-K-1	1.3	17.94	mg/l		0.0	man acc	
262	480-193369-K-2	1.3	-0.16	mg/l		0.0	man acc	Outside calibration

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
263	CCB	1.3	-0.18	mg/l		0.0	man acc	Outside calibration
264	CCV SO4	1.3	27.82	mg/l		0.0	man acc	
265	480-193369-K-3	1.3	-0.03	mg/l		0.0	man acc	Outside calibration
266	480-193369-K-4	1.3	7.21	mg/l		0.0	man acc	
267	480-193369-K-5	1.3	7.08	mg/l		0.0	man acc	
269	CCB	1.3	-0.19	mg/l		0.0	man acc	Outside calibration
270	CCV SO4	1.3	27.65	mg/l		0.0	man acc	
271	480-193397-D-2	1.3	3.37	mg/l		0.0	man acc	Outside calibration
274	480-193397-D-5	1.3	22.64	mg/l		0.0	man acc	
275	CCB	1.3	-0.21	mg/l		0.0	man acc	Outside calibration
276	CCV SO4	1.3	27.81	mg/l		0.0	man acc	
277	480-193397-D-6	1.3	31.06	mg/l		0.0	man acc	
278	480-193336-Q-1	1.3	93.02	mg/l		4.0	man acc	
280	480-193436-K-2	1.3	0.02	mg/l		0.0	man acc	Outside calibration
281	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
282	CCV SO4	1.3	27.72	mg/l		0.0	man acc	
283	480-193436-K-3	1.3	10.88	mg/l		0.0	man acc	
284	ms480-193436-K-3	1.3	33.25	mg/l		1.0	man acc	
285	480-193397-D-1	1.3	33.10	mg/l		1.0	man acc	
286	480-193397-D-3	1.3	52.14	mg/l		1.0	man acc	
287	CCB	1.3	-0.26	mg/l		0.0	man acc	Outside calibration
288	CCV SO4	1.3	27.49	mg/l		0.0	man acc	
289	msd480-193436-K-	1.3	36.07	mg/l		1.0	man acc	
290	480-193436-K-4	1.3	1.52	mg/l		0.0	man acc	Outside calibration
291	480-193397-D-4	1.3	60.96	mg/l		1.0	man acc	
292	480-193436-K-5	1.3	16.49	mg/l		0.0	man acc	
293	CCB	1.3	-0.11	mg/l		0.0	man acc	Outside calibration
294	CCV SO4	1.3	30.69	mg/l		0.0	man acc	
295	ms480-193436-K-5	1.3	36.09	mg/l		1.0	man acc	
296	msd480-193436-K-	1.3	39.57	mg/l		0.0	man acc	
297	480-193436-K-6	1.3	0.09	mg/l		0.0	man acc	Outside calibration
298	480-193397-D-7	1.3	50.78	mg/l		1.0	man acc	
299	CCB	1.3	-0.04	mg/l		0.0	man acc	Outside calibration
300	CCV SO4	1.3	27.27	mg/l		0.0	man acc	
301	480-193436-K-7	1.3	23.49	mg/l		0.0	man acc	
302	480-193436-K-8	1.3	0.31	mg/l		0.0	man acc	Outside calibration
303	480-193439-H-1	1.3	16.99	mg/l		0.0	man acc	
304	480-193439-H-2	1.3	15.81	mg/l		0.0	man acc	
305	CCB	1.3	0.02	mg/l		0.0	man acc	Outside calibration

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
306	CCV SO4	1.3	27.94	mg/l		0.0	man acc	
307	480-193439-H-3	1.3	17.36	mg/l		0.0	man acc	
308	480-193439-H-4	1.3	16.10	mg/l		0.0	man acc	
309	480-193439-H-5	1.3	15.78	mg/l		0.0	man acc	
310	480-193439-H-6	1.3	1.50	mg/l		0.0	man acc	Outside calibration
311	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
312	CCV SO4	1.3	28.50	mg/l		0.0	man acc	
313	480-193439-H-7	1.3	11.64	mg/l		0.0	man acc	
315	480-193439-H-9	1.3	28.03	mg/l		0.0	man acc	
319	CCB	1.3	-0.01	mg/l		0.0	man acc	Outside calibration
320	CCV SO4	1.3	28.08	mg/l		0.0	man acc	
321	480-193439-H-11	1.3	24.25	mg/l		0.0	man acc	
322	480-193444-I-1	1.3	0.66	mg/l		0.0	man acc	Outside calibration
323	480-193444-I-2	1.3	0.08	mg/l		0.0	man acc	Outside calibration
324	480-193444-I-3	1.3	0.67	mg/l		0.0	man acc	Outside calibration
325	CCB	1.3	0.08	mg/l		0.0	man acc	Outside calibration
326	CCV SO4	1.3	28.05	mg/l		0.0	man acc	
327	ms480-193444-I-3	1.3	21.52	mg/l		1.0	man acc	
328	msd480-193444-I-3	1.3	21.39	mg/l		1.0	man acc	
332	ms480-193444-I-4	1.3	59.66	mg/l		1.0	man acc	
333	msd480-193444-I-4	1.3	60.81	mg/l		1.0	man acc	
334	CCB	1.3	0.66	mg/l		0.0	man acc	Outside calibration
335	CCV SO4	1.3	29.70	mg/l		0.0	man acc	
337	480-193444-I-6	1.3	2.30	mg/l		0.0	man acc	Outside calibration
338	480-193467-I-1	1.3	0.59	mg/l		0.0	man acc	Outside calibration
339	ms480-193467-I-1	1.3	22.02	mg/l		0.0	man acc	
340	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
341	CCV SO4	1.3	29.19	mg/l		0.0	man acc	
342	msd480-193467-I-1	1.3	21.36	mg/l		0.0	man acc	
343	480-193444-I-4	1.3	39.64	mg/l		1.0	man acc	
344	480-193467-I-2	1.3	35.43	mg/l		4.0	man acc	
345	480-193439-H-10	1.3	95.98	mg/l		4.0	man acc	
346	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
347	CCV SO4	1.3	30.34	mg/l		0.0	man acc	
348	480-193439-H-8	1.3	88.12	mg/l		4.0	man acc	
349	480-193467-I-3	1.3	124.49	mg/l		4.0	man acc	
351	480-193467-I-4	1.3	158.35	mg/l		4.0	man acc	
352	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
353	CCV SO4	1.3	30.91	mg/l		0.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
354	480-193467-I-5	1.3	36.31	mg/l		0.0	man acc	
355	480-193467-I-6	1.3	1,611.10	mg/l		49.0	man acc	Test limit High
356	480-193467-I-7	1.3	833.00	mg/l		24.0	man acc	Test limit High
357	480-193481-G-1	1.3	698.32	mg/l		29.0	man acc	
358	CCB	1.3	0.54	mg/l		0.0	man acc	Outside calibration
359	CCV SO4	1.3	29.95	mg/l		0.0	man acc	
360	480-193482-G-1	1.3	0.32	mg/l		0.0	man acc	Outside calibration
361	480-193482-G-2	1.3	0.35	mg/l		0.0	man acc	Outside calibration
362	480-193482-G-3	1.3	628.62	mg/l		19.0	man acc	Test limit High
363	480-193444-I-5	1.3	92.51	mg/l		4.0	man acc	
364	CCB	1.3	0.58	mg/l		0.0	man acc	Outside calibration
365	CCV SO4	1.3	31.06	mg/l		0.0	man acc	
366	480-193482-G-4	1.3	473.13	mg/l		19.0	man acc	
367	480-193482-G-5	1.3	0.33	mg/l		0.0	man acc	Outside calibration
368	480-193482-G-6	1.3	1,623.59	mg/l		49.0	man acc	Test limit High
369	480-193482-G-7	1.3	56.37	mg/l		2.0	man acc	
370	CCB	1.3	0.40	mg/l		0.0	man acc	Outside calibration
371	CCV SO4	1.3	29.40	mg/l		0.0	man acc	
372	480-193482-G-8	1.3	1,201.07	mg/l		39.0	man acc	Test limit High
373	480-193482-G-9	1.3	361.30	mg/l		9.0	man acc	
374	480-193512-K-1	1.3	33.56	mg/l		0.0	man acc	
375	480-193512-K-2	1.3	0.67	mg/l		0.0	man acc	Outside calibration
376	CCB	1.3	0.48	mg/l		0.0	man acc	Outside calibration
377	CCV SO4	1.3	30.16	mg/l		0.0	man acc	
378	480-193512-K-3	1.3	2.66	mg/l		0.0	man acc	Outside calibration
379	480-193512-K-4	1.3	0.52	mg/l		0.0	man acc	Outside calibration
380	480-193526-C-5	1.3	21.67	mg/l		0.0	man acc	
382	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
383	CCV SO4	1.3	30.06	mg/l		0.0	man acc	
385	480-193526-C-6	1.3	21.74	mg/l		0.0	man acc	
387	480-193531-G-2	1.3	1.39	mg/l		0.0	man acc	Outside calibration
396	480-193531-G-7	1.3	32.06	mg/l		0.0	man acc	
399	ms480-193526-C-5	1.3	41.67	mg/l		1.0	man acc	
400	CCB	1.3	0.56	mg/l		0.0	man acc	Outside calibration
401	CCV SO4	1.3	30.14	mg/l		0.0	man acc	
402	msd480-193526-C-	1.3	40.96	mg/l		1.0	man acc	
403	480-193531-G-1	1.3	12.29	mg/l		1.0	man acc	
404	CCB	1.3	0.61	mg/l		0.0	man acc	Outside calibration
405	CCV SO4	1.3	29.85	mg/l		0.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
406	480-193531-G-3	1.3	35.46	mg/l		1.0	man acc	
407	480-193531-G-4	1.3	60.48	mg/l		1.0	man acc	
408	480-193531-G-5	1.3	48.41	mg/l		1.0	man acc	
409	480-193531-G-6	1.3	59.56	mg/l		1.0	man acc	
412	CCB	1.3	0.51	mg/l		0.0	man acc	Outside calibration
413	CCV SO4	1.3	29.96	mg/l		0.0	man acc	
414	ms480-193337-H-2	1.3	40.44	mg/l		1.0	man acc	
415	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
416	CCV SO4	1.3	30.40	mg/l		0.0	man acc	

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Results by Test

Date 12/17/2021 **User** BufGallery1

Time 4:08:01AM **Software version: 6.0.2**

Test name SO4 KIN

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	480-193024-G-1	1.1	-0.0046	mg/l		19.0	man acc	Reaction direction
6	480-193026-G-3	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
7	480-193026-G-4	1.1	-0.0048	mg/l		0.0	man acc	Point(s) out of curve, Reaction directi
8	480-193026-G-5	1.1	0.0001	mg/l		0.0	man acc	Point(s) out of curve
9	480-193026-G-6	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
10	480-193199-G-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
11	480-193199-G-2	1.1	0.0000	mg/l		0.0	man acc	
12	480-193199-G-3	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction
13	480-193199-G-4	1.1	-0.0019	mg/l		0.0	man acc	Reaction direction
14	480-193199-G-5	1.1	0.0001	mg/l		0.0	man acc	
16	480-193199-G-7	1.1	0.0362	mg/l		2.0	man acc	Point(s) out of curve
19	480-193199-G-8	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
20	480-193203-G-1	1.1	0.0013	mg/l		0.0	man acc	
22	480-193241-I-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
23	480-193241-I-2	1.1	0.0025	mg/l		0.0	man acc	
24	ms480-193241-I-2	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
25	msd480-193241-I-2	1.1	0.0001	mg/l		0.0	man acc	
26	480-193241-I-3	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
27	480-193241-I-4	1.1	0.0009	mg/l		0.0	man acc	
28	480-193241-I-5	1.1	0.0022	mg/l		0.0	man acc	
29	480-193241-I-6	1.1	0.0004	mg/l		0.0	man acc	
30	ms480-193241-I-6	1.1	-0.0007	mg/l		0.0	man acc	Reaction direction
31	msd480-193241-I-6	1.1	-0.0009	mg/l		0.0	man acc	Reaction direction
32	480-193243-I-1	1.1	0.0001	mg/l		0.0	man acc	
33	480-193243-I-2	1.1	0.0007	mg/l		0.0	man acc	
34	480-193265-G-1	1.1	0.0145	mg/l		9.0	man acc	
35	480-193265-G-2	1.1	0.0116	mg/l		9.0	man acc	Point(s) out of curve
37	480-193265-G-4	1.1	0.0088	mg/l		4.0	man acc	
38	480-193265-G-5	1.1	0.0040	mg/l		4.0	man acc	
39	480-193265-G-6	1.1	0.0036	mg/l		4.0	man acc	
42	480-193265-G-9	1.1	0.0052	mg/l		0.0	man acc	Point(s) out of curve
43	480-193265-G-10	1.1	0.0002	mg/l		0.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
44	480-193265-G-11	1.1	-0.0010	mg/l		9.0	man acc	Reaction direction
45	480-193290-I-2	1.1	0.0010	mg/l		0.0	man acc	
46	ms480-193290-I-2	1.1	0.0018	mg/l		1.0	man acc	
47	msd480-193290-I-2	1.1	0.0019	mg/l		1.0	man acc	
49	480-193290-I-4	1.1	0.0010	mg/l		0.0	man acc	Blank init abs. low
50	ms480-193290-I-4	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
51	msd480-193290-I-4	1.1	-0.0004	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
52	480-193290-I-5	1.1	0.0006	mg/l		0.0	man acc	
53	480-193290-I-6	1.1	0.0006	mg/l		0.0	man acc	
56	480-193290-I-9	1.1	0.0085	mg/l		4.0	man acc	
57	ms480-193290-I-9	1.1	0.0025	mg/l		4.0	man acc	
58	msd480-193290-I-9	1.1	0.0025	mg/l		4.0	man acc	
59	480-193305-E-1	1.1	0.0444	mg/l		24.0	man acc	
60	ms480-193305-E-1	1.1	0.0408	mg/l		24.0	man acc	
61	msd480-193305-E-	1.1	0.0382	mg/l		24.0	man acc	
62	480-193310-G-1	1.1	0.0004	mg/l		0.0	man acc	
63	480-193310-G-2	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
64	480-193310-G-3	1.1	0.0001	mg/l		0.0	man acc	
65	480-193310-G-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
66	480-193310-G-5	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction
67	480-193310-G-6	1.1	0.0002	mg/l		0.0	man acc	
68	480-193310-G-7	1.1	0.0008	mg/l		0.0	man acc	
69	480-193310-G-8	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
70	480-193317-D-1	1.1	0.0010	mg/l		0.0	man acc	
71	480-193317-D-2	1.1	0.0012	mg/l		0.0	man acc	
72	480-193317-D-3	1.1	0.0015	mg/l		0.0	man acc	
73	480-193317-D-4	1.1	0.0015	mg/l		0.0	man acc	
75	480-193317-D-6	1.1	0.0021	mg/l		0.0	man acc	
78	480-193331-I-1	1.1	-0.0007	mg/l		0.0	man acc	Reaction direction
81	480-193335-I-1	1.1	0.0008	mg/l		0.0	man acc	
82	480-193335-I-2	1.1	0.0012	mg/l		0.0	man acc	
83	ms480-193335-I-2	1.1	0.0016	mg/l		1.0	man acc	
84	msd480-193335-I-2	1.1	0.0017	mg/l		1.0	man acc	
85	480-193335-I-3	1.1	0.0018	mg/l		0.0	man acc	
86	ms480-193335-I-3	1.1	0.0022	mg/l		1.0	man acc	Blank init abs. low
87	msd480-193335-I-3	1.1	0.0025	mg/l		1.0	man acc	
88	480-193335-I-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
89	480-193335-I-5	1.1	0.0016	mg/l		0.0	man acc	
90	480-193335-I-6	1.1	-0.0012	mg/l		1.0	man acc	Point(s) out of curve, Reaction directi

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
91	480-193026-G-1	1.1	-0.0025	mg/l		9.0	man acc	Reaction direction
92	ms480-193026-G-1	1.1	-0.0045	mg/l		9.0	man acc	Reaction direction
93	msd480-193026-G-	1.1	-0.0034	mg/l		9.0	man acc	Reaction direction
94	480-193265-G-3	1.1	-0.0105	mg/l		19.0	man acc	Reaction direction
95	480-193317-D-5	1.1	0.0016	mg/l		1.0	man acc	
96	ms480-193199-G-7	1.1	0.0147	mg/l		4.0	man acc	Point(s) out of curve
97	msd480-193199-G-	1.1	0.0162	mg/l		4.0	man acc	Point(s) out of curve
98	480-193265-G-7	1.1	0.0069	mg/l		1.0	man acc	Point(s) out of curve
99	480-193265-G-8	1.1	-0.0149	mg/l		24.0	man acc	Reaction direction, Blank init abs. low
100	480-193290-I-3	1.1	0.0003	mg/l		1.0	man acc	
101	480-193331-G-2	1.1	0.0043	mg/l		1.0	man acc	
102	480-193199-G-6	1.1	-0.0042	mg/l		1.0	man acc	Reaction direction
103	480-193203-G-2	1.1	0.0044	mg/l		1.0	man acc	Point(s) out of curve
104	480-193290-I-7	1.1	0.0000	mg/l		0.0	man acc	
105	480-193290-I-8	1.1	0.0017	mg/l		1.0	man acc	
106	480-193026-G-2	1.1	0.0186	mg/l		1.0	man acc	Point(s) out of curve
107	480-193317-D-7	1.1	0.0030	mg/l		1.0	man acc	
108	480-193317-D-8	1.1	0.0012	mg/l		1.0	man acc	Blank init abs. low
109	480-193334-J-1	1.1	0.0077	mg/l		1.0	man acc	Point(s) out of curve
111	480-193336-Q-2	1.1	-0.0328	mg/l		0.0	man acc	Point(s) out of curve, Reaction directi
112	480-193336-Q-3	1.1	0.0012	mg/l		0.0	man acc	
113	480-193336-Q-5	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
114	480-193336-Q-6	1.1	0.0016	mg/l		0.0	man acc	
115	480-193336-Q-7	1.1	0.0089	mg/l		2.0	man acc	Point(s) out of curve
116	480-193337-H-1	1.1	0.0022	mg/l		0.0	man acc	Point(s) out of curve
117	ms480-193337-H-1	1.1	0.0032	mg/l		1.0	man acc	
118	msd480-193337-H-	1.1	0.0029	mg/l		1.0	man acc	
119	480-193337-H-2	1.1	0.0021	mg/l		0.0	man acc	Point(s) out of curve
120	ms480-193337-H-2	1.1	0.0026	mg/l		1.0	man acc	
121	msd480-193337-H-	1.1	0.0024	mg/l		1.0	man acc	
122	480-193369-K-1	1.1	0.0020	mg/l		0.0	man acc	
123	480-193369-K-2	1.1	0.0001	mg/l		0.0	man acc	
124	480-193369-K-3	1.1	0.0001	mg/l		0.0	man acc	
125	480-193369-K-4	1.1	0.0041	mg/l		0.0	man acc	Point(s) out of curve
126	480-193369-K-5	1.1	0.0043	mg/l		0.0	man acc	Point(s) out of curve
128	480-193397-D-2	1.1	0.0008	mg/l		0.0	man acc	
131	480-193397-D-5	1.1	0.0024	mg/l		0.0	man acc	Blank init abs. low
132	480-193397-D-6	1.1	0.0016	mg/l		0.0	man acc	
134	480-193436-K-2	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
135	480-193436-K-3	1.1	0.0041	mg/l		0.0	man acc	Point(s) out of curve
136	ms480-193436-K-3	1.1	0.0035	mg/l		1.0	man acc	
137	msd480-193436-K-	1.1	0.0035	mg/l		1.0	man acc	
138	480-193436-K-4	1.1	0.0014	mg/l		0.0	man acc	
139	480-193436-K-5	1.1	0.0026	mg/l		0.0	man acc	Point(s) out of curve
140	ms480-193436-K-5	1.1	0.0034	mg/l		1.0	man acc	
141	msd480-193436-K-	1.1	0.0000	mg/l		0.0	man acc	
142	480-193436-K-6	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
143	480-193436-K-7	1.1	0.0017	mg/l		0.0	man acc	
144	480-193436-K-8	1.1	0.0001	mg/l		0.0	man acc	
145	480-193439-H-1	1.1	0.0007	mg/l		0.0	man acc	
146	480-193439-H-2	1.1	0.0013	mg/l		0.0	man acc	
147	480-193439-H-3	1.1	0.0014	mg/l		0.0	man acc	
148	480-193439-H-4	1.1	0.0019	mg/l		0.0	man acc	
149	480-193439-H-5	1.1	0.0011	mg/l		0.0	man acc	
150	480-193439-H-6	1.1	0.0003	mg/l		0.0	man acc	
151	480-193439-H-7	1.1	0.0008	mg/l		0.0	man acc	
153	480-193439-H-9	1.1	0.0002	mg/l		0.0	man acc	
155	480-193439-H-11	1.1	0.0010	mg/l		0.0	man acc	
156	480-193444-I-1	1.1	0.0004	mg/l		0.0	man acc	
157	480-193444-I-2	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
158	480-193444-I-3	1.1	0.0003	mg/l		0.0	man acc	
159	ms480-193444-I-3	1.1	0.0026	mg/l		1.0	man acc	
160	msd480-193444-I-3	1.1	0.0026	mg/l		1.0	man acc	
162	ms480-193444-I-4	1.1	0.0004	mg/l		1.0	man acc	Point(s) out of curve
163	msd480-193444-I-4	1.1	-0.0002	mg/l		1.0	man acc	Reaction direction
165	480-193444-I-6	1.1	0.0018	mg/l		0.0	man acc	
166	480-193467-I-1	1.1	0.0000	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
167	ms480-193467-I-1	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
168	msd480-193467-I-1	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
169	480-193467-I-2	1.1	0.0099	mg/l		4.0	man acc	
170	480-193467-I-3	1.1	0.0037	mg/l		4.0	man acc	
171	480-193467-I-4	1.1	-0.0001	mg/l		4.0	man acc	Reaction direction
172	480-193467-I-5	1.1	0.0006	mg/l		0.0	man acc	
173	480-193467-I-6	1.1	-0.0368	mg/l		49.0	man acc	Reaction direction, Blank init abs. low
174	480-193467-I-7	1.1	-0.0179	mg/l		24.0	man acc	Reaction direction
175	480-193481-G-1	1.1	-0.0041	mg/l		29.0	man acc	Reaction direction
176	480-193482-G-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
177	480-193482-G-2	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
178	480-193482-G-3	1.1	-0.0102	mg/l		19.0	man acc	Reaction direction
179	480-193482-G-4	1.1	-0.0003	mg/l		19.0	man acc	Reaction direction
180	480-193482-G-5	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction
181	480-193482-G-6	1.1	-0.0545	mg/l		49.0	man acc	Reaction direction
182	480-193482-G-7	1.1	0.0420	mg/l		2.0	man acc	Point(s) out of curve
183	480-193482-G-8	1.1	-0.0211	mg/l		39.0	man acc	Reaction direction, Blank init abs. low
184	480-193482-G-9	1.1	0.0153	mg/l		9.0	man acc	
185	480-193512-K-1	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
186	480-193512-K-2	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
187	480-193512-K-3	1.1	0.0019	mg/l		0.0	man acc	
188	480-193512-K-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
189	480-193526-C-5	1.1	0.0015	mg/l		0.0	man acc	
192	480-193526-C-6	1.1	0.0015	mg/l		0.0	man acc	
194	480-193531-G-2	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
199	480-193531-G-7	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction
200	480-193336-Q-1	1.1	0.0104	mg/l		4.0	man acc	
201	480-193397-D-1	1.1	0.0039	mg/l		1.0	man acc	Point(s) out of curve
202	480-193397-D-3	1.1	0.0013	mg/l		1.0	man acc	
203	480-193397-D-4	1.1	0.0008	mg/l		1.0	man acc	
204	480-193397-D-7	1.1	0.0025	mg/l		1.0	man acc	
205	480-193444-I-4	1.1	0.0040	mg/l		1.0	man acc	
206	480-193439-H-8	1.1	0.0102	mg/l		4.0	man acc	
207	480-193439-H-10	1.1	0.0017	mg/l		4.0	man acc	
208	480-193444-I-5	1.1	0.0121	mg/l		4.0	man acc	Point(s) out of curve
209	ms480-193526-C-5	1.1	0.0011	mg/l		1.0	man acc	
210	msd480-193526-C-	1.1	0.0010	mg/l		1.0	man acc	
211	480-193531-G-1	1.1	0.0043	mg/l		1.0	man acc	
212	480-193531-G-3	1.1	0.0003	mg/l		1.0	man acc	
213	480-193531-G-4	1.1	-0.0007	mg/l		1.0	man acc	Reaction direction
214	480-193531-G-5	1.1	0.0019	mg/l		1.0	man acc	
215	480-193531-G-6	1.1	0.0003	mg/l		1.0	man acc	

Chan 1520/20/2021

Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193024-G-1	20-183-2R	9038	Sulfate	Total/NA	mg/L	6	20.0	448	☐	315.738 - 796.262	☐	350.4 - 778.8
480-193026-G-1	98-187-2	9038	Sulfate	Total/NA	mg/L	8	10.0	239	☐	0 - 336.988	☐	53.76 - 292.8
480-193026-G-2	98-188-1	9038	Sulfate	Total/NA	mg/L	8	2.0	18.2	☐	0 - 235.061	☐	0 - 212.4
480-193026-G-3	98-188-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193026-G-4	98-188-3	9038	Sulfate	Total/NA	mg/L	8	1.0	20.2	☑	0 - 0	☑	0 - 0
480-193026-G-5	98-193-2	9038	Sulfate	Total/NA	mg/L	8	1.0	7.1	☑	0 - 0	☑	0 - 0
480-193026-G-6	98-194-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-1	03-197-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-2	03-197-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-3	03-198-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-4	03-198-2	9038	Sulfate	Total/NA	mg/L	8	1.0	27.3	☐	0 - 61.922	☐	5.6 - 52.2
480-193199-G-5	03-199-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-6	03-199-2	9038	Sulfate	Total/NA	mg/L	8	2.0	25.1	☐	0 - 283.816	☐	0 - 210
480-193199-G-7	03-200-1	9038	Sulfate	Total/NA	mg/L	8	3.0	58.6	☐	30.057 - 128.668	☐	40 - 120
480-193199-G-8	03-200-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193203-G-1	88-148-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193203-G-2	96-148-2R	9038	Sulfate	Total/NA	mg/L	8	2.0	57.7	☐	0 - 122.217	☐	0 - 124.8
480-193241-I-1	01FB	D516	Sulfate	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 28.041	☐	0 - 30.12
480-193241-I-2	MW04	D516	Sulfate	Total/NA	mg/L as N	8	1.0	9.6	☐	5.942 - 19.183	☐	8.48 - 20.16
480-193241-I-3	MW05	D516	Sulfate	Total/NA	mg/L as N	8	1.0	23.4	☐	16.613 - 32.462	☐	18.16 - 37.2
480-193241-I-4	MW06D	D516	Sulfate	Total/NA	mg/L as N	8	1.0	23.9	☐	13.183 - 25.292	☐	13.84 - 28.44
480-193241-I-5	MW06S	D516	Sulfate	Total/NA	mg/L as N	8	1.0	15.8	☐	9.602 - 20.998	☐	8.72 - 21.72
480-193241-I-6	MW07	D516	Sulfate	Total/NA	mg/L as N	8	1.0	16.0	☐	11.142 - 18.633	☐	10.48 - 20.52
480-193243-I-1	SW001	D516	Sulfate	Total/NA	mg/L	6	1.0	ND	☐	0 - 49.646	☐	0 - 43.8
480-193243-I-2	SW003	D516	Sulfate	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0
480-193265-G-1	89-156-2	9038	Sulfate	Total/NA	mg/L	8	10.0	148	☐	10.6 - 643.4	☑	202.4 - 705.6
480-193265-G-10	357R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193265-G-11	D-19RR	9038	Sulfate	Total/NA	mg/L	8	10.0	308	☐	0 - 532.366	☐	0 - 378
480-193265-G-2	98-156-3	9038	Sulfate	Total/NA	mg/L	8	10.0	265	☐	0 - 958.473	☐	57.44 - 687.6
480-193265-G-3	98-186-2	9038	Sulfate	Total/NA	mg/L	8	20.0	498	☐	10.6 - 643.4	☐	202.4 - 705.6
480-193265-G-4	75R	9038	Sulfate	Total/NA	mg/L	8	5.0	181	☐	96.975 - 268.775	☐	108 - 292.8
480-193265-G-5	76R	9038	Sulfate	Total/NA	mg/L	8	5.0	152	☐	135.831 - 210.169	☐	125.6 - 230.4
480-193265-G-6	DUP@76R	9038	Sulfate	Total/NA	mg/L	1	5.0	154	☑	146 - 146	☐	116.8 - 175.2
480-193265-G-7	94R	9038	Sulfate	Total/NA	mg/L	8	2.0	20.8	☐	0 - 158.527	☐	13.2 - 162
480-193265-G-8	PELA-4	9038	Sulfate	Total/NA	mg/L	8	25.0	867	☐	0 - 1148.456	☐	180 - 948
480-193265-G-9	89-167-3	9038	Sulfate	Total/NA	mg/L	8	1.0	33.0	☐	0 - 85.88	☐	0 - 79.44
480-193290-I-2	MW-13S	9038	Sulfate	Total/NA	mg/L	8	1.0	31.6	☐	20.607 - 44.693	☐	20.08 - 45.96
480-193290-I-3	MW-19D	9038	Sulfate	Total/NA	mg/L	8	2.0	40.7	☐	0 - 47.396	☐	7.92 - 43.56
480-193290-I-4	MW-19S	9038	Sulfate	Total/NA	mg/L	8	1.0	9.4	☐	5.129 - 11.996	☐	5.76 - 12.36

Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193290-I-5	MW-7S	9038	Sulfate	Total/NA	mg/L	8	1.0	14.9	☐	12.755 - 47.72	☑	18.96 - 47.04
480-193290-I-6	MW-DUP	9038	Sulfate	Total/NA	mg/L	8	1.0	15.8	☐	0 - 106.443	☐	0 - 104.4
480-193290-I-7	MW-14S	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 95.4	☐	0 - 102.36
480-193290-I-8	MW-15S	9038	Sulfate	Total/NA	mg/L	8	2.0	11.0	☐	0 - 227.301	☐	0 - 184.8
480-193290-I-9	MW-6S2	9038	Sulfate	Total/NA	mg/L	8	5.0	131	☐	112.873 - 192.627	☐	103.2 - 205.2
480-193305-E-1	MHOLT	D516	Sulfate	Total/NA	mg/L	8	25.0	529	☐	202.379 - 1011.871	☐	303.2 - 939.6
480-193331-G-2	MW-16D	9038	Sulfate	Total/NA	mg/L	8	2.0	33.5	☐	28.997 - 50.128	☐	27.36 - 54.72
480-193331-I-1	MW-16S	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193334-J-1	WMNMH1	D516	Sulfate	Total/NA	mg/L	8	2.0	78.0	☐	0 - 399.614	☐	0 - 397.2
480-193335-I-1	MW-12AA	9038	Sulfate	Total/NA	mg/L	8	1.0	30.2	☐	15.534 - 40.316	☐	16.32 - 38.4
480-193335-I-2	MW-12BBB	9038	Sulfate	Total/NA	mg/L	8	1.0	30.5	☐	20.854 - 38.696	☐	18.48 - 41.04
480-193335-I-3	MW-13A	9038	Sulfate	Total/NA	mg/L	8	1.0	20.9	☐	18.749 - 26.076	☐	16.56 - 28.92
480-193335-I-4	MW-13B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-I-5	MW-17A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.9	☐	0.937 - 40.063	☐	9.52 - 35.88
480-193335-I-6	MW-17B	9038	Sulfate	Total/NA	mg/L	8	2.0	51.5	☐	41.329 - 82.996	☐	42.8 - 87
480-193336-Q-1	SLC-2A	9038	Sulfate	Total/NA	mg/L	8	5.0	93.0	☑	0 - 0	☑	0 - 0
480-193336-Q-2	PLC-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 118.419	☐	0 - 127.2
480-193336-Q-3	PLC-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 6.368	☐	0 - 6.84
480-193336-Q-5	SLC-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193336-Q-6	PLC-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 9.211	☐	0 - 7.92
480-193336-Q-7	LD-1	9038	Sulfate	Total/NA	mg/L	8	3.0	42.7	☐	36.367 - 123.958	☑	50.72 - 122.4
480-193337-H-1	CD-1	9038	Sulfate	Total/NA	mg/L	8	1.0	17.3	☐	10.432 - 28.668	☐	12.64 - 31.32
480-193337-H-2	CD-1RA	9038	Sulfate	Total/NA	mg/L	8	1.0	17.8	☐	5.672 - 28.503	☐	6.24 - 25.68
480-193369-K-1	MW-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.9	☐	0 - 38.339	☐	0 - 27.24
480-193369-K-2	MW-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-K-3	MW-2B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-K-4	MW-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	7.2	☐	0 - 23.524	☐	4.8 - 25.44
480-193369-K-5	DUP MW-1B	9038	Sulfate	Total/NA	mg/L	1	1.0	7.1	☑	7.8 - 7.8	☐	6.24 - 9.36
480-193436-K-2	MW-3A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-3	MW-3B	9038	Sulfate	Total/NA	mg/L	8	1.0	10.9	☐	4.627 - 16.923	☐	5.36 - 15.84
480-193436-K-4	MW-4A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.356	☐	0 - 8.76
480-193436-K-5	MW-5A	9038	Sulfate	Total/NA	mg/L	8	1.0	16.5	☐	3.112 - 26.588	☐	7.04 - 26.28
480-193436-K-6	MW-6A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-7	MW-6B	9038	Sulfate	Total/NA	mg/L	8	1.0	23.5	☐	0 - 41.713	☐	4.16 - 42.6
480-193436-K-8	MW-7A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 41.335	☐	0 - 44.4
480-193444-I-3	DUP-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 75.935	☐	0 - 62.4
480-193444-I-4	SW-2	9038	Sulfate	Total/NA	mg/L	8	2.0	40	☐	0 - 41.783	☑	6.4 - 37.2
480-193467-I-1	01FB	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-I-2	YSC01	9038	Sulfate	Total/NA	mg/L	8	5.0	35.4	☐	0 - 306.195	☐	0 - 216

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12/20/2021

Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193467-I-3	YSC02	9038	Sulfate	Total/NA	mg/L	8	5.0	124	☐	90.207 - 136.043	☐	81.6 - 148.8
480-193467-I-4	YSP03R	9038	Sulfate	Total/NA	mg/L	8	5.0	158	☐	65.75 - 331.75	☐	108 - 308.4
480-193467-I-5	YSP05	9038	Sulfate	Total/NA	mg/L	8	1.0	36.3	☐	29.717 - 43.133	☐	25.68 - 48.48
480-193467-I-6	YSP08	9038	Sulfate	Total/NA	mg/L	8	50.0	1610	☐	1403.099 - 1804.401	☐	1176 - 2052
480-193467-I-7	YSP09	9038	Sulfate	Total/NA	mg/L	8	25.0	833	☐	722.844 - 882.656	☐	599.2 - 1004.4
480-193481-G-1	MH8L-MLD	9038	Sulfate	Total/NA	mg/L	8	30.0	698	☐	362.619 - 2034.631	☐	618.4 - 1776
480-193482-G-1	172R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-G-2	413R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-G-3	173R	9038	Sulfate	Total/NA	mg/L	8	20.0	629	☐	560.507 - 711.493	☐	478.4 - 807.6
480-193482-G-4	171R	9038	Sulfate	Total/NA	mg/L	8	20.0	473	☐	373.205 - 562.295	☐	345.6 - 643.2
480-193482-G-5	169RR	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 11.06	☐	0 - 11.88
480-193482-G-6	170R	9038	Sulfate	Total/NA	mg/L	8	50.0	1620	☐	1596.505 - 2043.495	☐	1360 - 2352
480-193482-G-7	302R	9038	Sulfate	Total/NA	mg/L	8	3.0	56.4	☐	0 - 306.717	☑	58.48 - 289.2 OK
480-193482-G-8	301RR	9038	Sulfate	Total/NA	mg/L	8	40.0	1200	☐	598.967 - 1638.783	☐	568.8 - 1572
480-193482-G-9	300R	9038	Sulfate	Total/NA	mg/L	8	10.0	361	☐	91.276 - 482.974	☐	145.6 - 441.6
480-193512-K-1	WS-1	9038	Sulfate	Total/NA	mg/L	8	1.0	33.6	☐	0 - 75.901	☐	0 - 47.76
480-193512-K-2	CW-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 70.622	☐	0 - 54.48
480-193512-K-3	CW-15	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 48.258	☐	0 - 38.4
480-193512-K-4	CW-16	9038	Sulfate	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0

Chauvin 12/27/2021 12/28/2021

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Wet Chemistry Dept

Analysis: Sulfate

Method: 9038

Date of Analytical Run: 12/16/21

Analyst/Primary Reviewer: SMW

Date of Primary Review: 12/17/21

Secondary Reviewer: _____

Date of Secondary Review: _____

Prep Batch Number					
Analytical Batch Number	609236				

Criteria for QC	1st Level	2nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, r > or = 0.995, pH meter slope 90-110% (if applicable)	Y			
Was Data Imported X Manually Entered ____ Balance Interface Used ____	Impt			
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Y			
Were the ICB, CCB and MB all <RL?	Y			
Was there a CCV/CCB combination run after every 10 samples or less?	Y			
Was there an LCS run with every batch of 20 samples or less?	Y			
Was there a DU, MS or MSD run with every batch of 20 samples or less?	Y			
Were all MS/MSD results within acceptable limits for QC recovery?	N			
Were all DU or MSD RPDs within acceptable limits for QC recovery?	Y			
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	Y			
Are dilution factors all present and correct?	Y			
Do all entries match raw data?	Y			
Were there any holding time violations in this batch?	N			**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y			
Were any NCMs needed in the batch?	N			NCM #s:
Data scanned in?	Y			

Sulfate

9038/D516

1000 PPM	(MS/MSD/CAL)	6560004	EXP: 11/30/2022
30 PPM	(CCV/LCS)	6791930	EXP: 12/20/2021
Precipitating Solution:		6791929	EXP: 12/20/2021
ICV: made from IC standard		6791931	EXP: 02/22/2022

CURVE:

Kone 1: 11/19/2019 Batch: 505599
100 ppm: 5657751

Kone 2: 06/29/2020 Batch: 538610
100 ppm: 5994552

Kone 3: 07/23/2019 Batch: 483387
100 ppm: 5409342

Gallery 1: 12/16/2021 Batch: 609236
100 ppm: 6822609

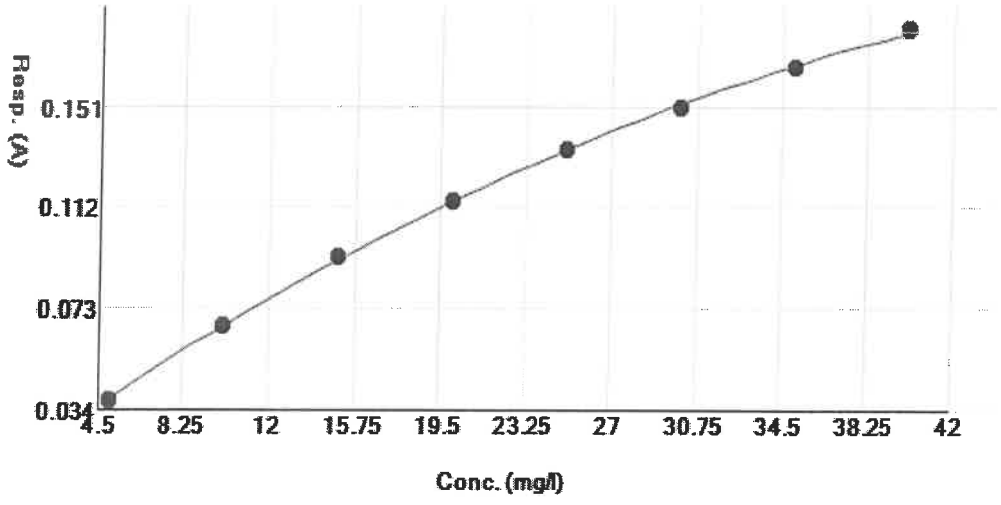
Calibration results

SO4 Version number 1.3

Date	12/16/2021	**User**	BufGallery1
Time	7:26:30PM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	SO4	**Coeff. of deter.**	0.999645
Status	Accepted	**Total factor**	246.737
Accepted	12/16/2021 7:26 PM		
Checked	12/16/2021 7:26 PM	Zero-order factor	0.008
User name	BufGallery1	1st order factor	0.006
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
SO4 5	0.037	4.844	5.000	Default	
SO4 10	0.067	10.097	10.000	Default	
SO4 15	0.093	15.241	15.000	Default	
SO4 20	0.114	20.010	20.000	Default	
SO4 25	0.135	25.054	25.000	Default	
SO4 30	0.151	29.656	30.000	Default	
SO4 35	0.166	34.626	35.000	Default	
SO4 40	0.181	40.512	40.000	Default	
ICB	0.013	0.59	0.00	Default	Outside calibration
SO4 ICV	0.156	31.04	30.00	Default	



Water blank results

Date 12/17/2021 **User** BufGallery1

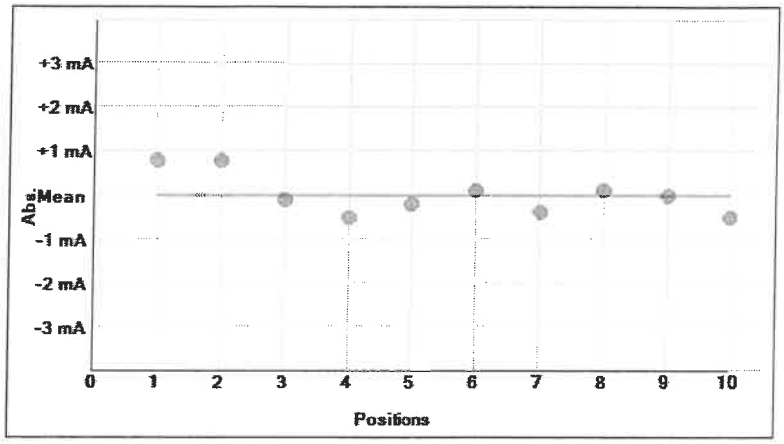
Time 4:13:02AM **Software version: 6.0.2**

Measurement time
12/16/2021 6:45 PM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1003.1**	**0.5**
420	-1036.4	0.2
480	-1046.9	0.2
510	-1050.5	0.2
540	-1054.0	0.1
575	-1057.1	0.2
600	-1058.6	0.2
620	-1060.0	0.2
660	-1062.3	0.1
700	-1063.5	0.1
880	-1047.0	0.2

340



Results by Test

Date 12/17/2021 **User** BufGallery1

Time 4:00:07AM **Software version: 6.0.2**

Test name SO4

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	CCB	1.3	0.53	mg/l		0.0	man acc	Outside calibration
2	CCV SO4	1.3	30.24	mg/l		0.0	man acc	
7	CCB	1.3	1.83	mg/l		0.0	man acc	Outside calibration
8	CCV SO4	1.3	30.41	mg/l		0.0	man acc	
11	480-193026-G-4	1.3	20.21	mg/l		0.0	man acc	
12	480-193026-G-5	1.3	7.13	mg/l		0.0	man acc	
13	CCB	1.3	0.54	mg/l		0.0	man acc	Outside calibration
14	CCV SO4	1.3	30.44	mg/l		0.0	man acc	
16	480-193026-G-6	1.3	0.61	mg/l		0.0	man acc	Outside calibration
17	480-193199-G-1	1.3	0.24	mg/l		0.0	man acc	Outside calibration
18	480-193199-G-2	1.3	0.32	mg/l		0.0	man acc	Outside calibration
19	480-193199-G-3	1.3	0.72	mg/l		0.0	man acc	Outside calibration
20	CCB	1.3	1.01	mg/l		0.0	man acc	Outside calibration
21	CCV SO4	1.3	30.61	mg/l		0.0	man acc	
22	480-193199-G-4	1.3	27.35	mg/l		0.0	man acc	
23	480-193199-G-5	1.3	0.29	mg/l		0.0	man acc	Outside calibration
24	480-193026-G-1	1.3	239.26	mg/l		9.0	man acc	
26	CCB	1.3	0.78	mg/l		0.0	man acc	Outside calibration
27	CCV SO4	1.3	30.89	mg/l		0.0	man acc	
28	ms480-193026-G-1	1.3	252.43	mg/l		9.0	man acc	
29	msd480-193026-G-	1.3	258.10	mg/l		9.0	man acc	
31	480-193199-G-7	1.3	58.55	mg/l		2.0	man acc	
37	CCB	1.3	0.45	mg/l		0.0	man acc	Outside calibration
38	CCV SO4	1.3	29.94	mg/l		0.0	man acc	
43	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
44	CCV SO4	1.3	29.24	mg/l		0.0	man acc	
45	ms480-193241-I-2	1.3	31.76	mg/l		0.0	man acc	
46	msd480-193241-I-2	1.3	34.56	mg/l		0.0	man acc	
49	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
50	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
51	480-193241-I-5	1.3	15.80	mg/l		0.0	man acc	
52	480-193241-I-6	1.3	16.02	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
53	ms480-193241-I-6	1.3	36.21	mg/l		0.0	man acc	
54	msd480-193241-I-6	1.3	36.61	mg/l		0.0	man acc	
55	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
56	CCV SO4	1.3	29.72	mg/l		0.0	man acc	
57	480-193243-I-1	1.3	0.38	mg/l		0.0	man acc	Outside calibration
58	480-193243-I-2	1.3	1.58	mg/l		0.0	man acc	Outside calibration
59	480-193265-G-1	1.3	148.26	mg/l		9.0	man acc	
60	480-193265-G-2	1.3	264.60	mg/l		9.0	man acc	
61	CCB	1.3	0.33	mg/l		0.0	man acc	Outside calibration
62	CCV SO4	1.3	30.05	mg/l		0.0	man acc	
64	480-193265-G-4	1.3	180.61	mg/l		4.0	man acc	
65	480-193265-G-5	1.3	151.66	mg/l		4.0	man acc	
66	480-193265-G-6	1.3	154.37	mg/l		4.0	man acc	
67	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
68	CCV SO4	1.3	29.74	mg/l		0.0	man acc	
73	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
74	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
77	480-193265-G-3	1.3	497.87	mg/l		19.0	man acc	
78	ms480-193290-I-2	1.3	51.11	mg/l		1.0	man acc	
79	CCB	1.3	0.27	mg/l		0.0	man acc	Outside calibration
80	CCV SO4	1.3	29.53	mg/l		0.0	man acc	
84	CCB	1.3	0.59	mg/l		0.0	man acc	Outside calibration
85	CCV SO4	1.3	29.38	mg/l		0.0	man acc	
87	ms480-193290-I-4	1.3	31.64	mg/l		0.0	man acc	
89	msd480-193290-I-4	1.3	31.02	mg/l		0.0	man acc	
91	CCB	1.3	0.36	mg/l		0.0	man acc	Outside calibration
92	CCV SO4	1.3	29.90	mg/l		0.0	man acc	
97	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
98	CCV SO4	1.3	29.39	mg/l		0.0	man acc	
100	ms480-193290-I-9	1.3	160.89	mg/l		4.0	man acc	
101	msd480-193290-I-9	1.3	150.48	mg/l		4.0	man acc	
102	CCB	1.3	0.42	mg/l		0.0	man acc	Outside calibration
104	CCV SO4	1.3	31.98	mg/l		0.0	man acc	
105	ms480-193305-E-1	1.3	525.78	mg/l		24.0	man acc	
106	msd480-193305-E-	1.3	529.05	mg/l		24.0	man acc	
107	480-193310-G-1	1.3	1.72	mg/l		0.0	man acc	Outside calibration
108	480-193310-G-2	1.3	0.39	mg/l		0.0	man acc	Outside calibration
109	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
110	CCV SO4	1.3	29.14	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
111	480-193310-G-3	1.3	1.01	mg/l		0.0	man acc	Outside calibration
112	480-193310-G-4	1.3	0.41	mg/l		0.0	man acc	Outside calibration
113	480-193310-G-5	1.3	0.50	mg/l		0.0	man acc	Outside calibration
114	480-193310-G-6	1.3	0.67	mg/l		0.0	man acc	Outside calibration
115	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
116	CCV SO4	1.3	28.91	mg/l		0.0	man acc	
117	480-193310-G-7	1.3	13.85	mg/l		0.0	man acc	
118	480-193310-G-8	1.3	0.28	mg/l		0.0	man acc	Outside calibration
119	480-193317-D-1	1.3	29.36	mg/l		0.0	man acc	
120	480-193317-D-2	1.3	27.32	mg/l		0.0	man acc	
121	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
122	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
123	480-193317-D-3	1.3	23.73	mg/l		0.0	man acc	
124	480-193317-D-4	1.3	24.23	mg/l		0.0	man acc	
126	480-193317-D-6	1.3	28.04	mg/l		0.0	man acc	
127	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
128	CCV SO4	1.3	29.11	mg/l		0.0	man acc	
133	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
134	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
137	480-193335-I-2	1.3	30.53	mg/l		0.0	man acc	
138	ms480-193335-I-2	1.3	49.23	mg/l		1.0	man acc	
141	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
142	CCV SO4	1.3	29.63	mg/l		0.0	man acc	
143	msd480-193335-I-2	1.3	49.90	mg/l		1.0	man acc	
144	480-193335-I-3	1.3	20.86	mg/l		0.0	man acc	
145	480-193317-D-5	1.3	48.01	mg/l		1.0	man acc	
146	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
148	CCV SO4	1.3	30.05	mg/l		0.0	man acc	
149	480-193317-D-7	1.3	36.13	mg/l		1.0	man acc	
150	480-193317-D-8	1.3	55.61	mg/l		1.0	man acc	
151	480-193334-J-1	1.3	78.00	mg/l		1.0	man acc	
152	msd480-193335-I-3	1.3	43.94	mg/l		1.0	man acc	
156	CCB	1.3	0.48	mg/l		0.0	man acc	Outside calibration
157	CCV SO4	1.3	28.71	mg/l		0.0	man acc	
158	CCB	1.3	0.43	mg/l		0.0	man acc	Outside calibration
159	CCV SO4	1.3	29.82	mg/l		0.0	man acc	
160	480-193024-G-1	1.3	448.33	mg/l		19.0	man acc	
162	480-193026-G-3	1.3	1.01	mg/l		0.0	man acc	Outside calibration
164	CCB	1.3	0.43	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
165	CCV SO4	1.3	29.45	mg/l		0.0	man acc	
166	480-193199-G-8	1.3	0.21	mg/l		0.0	man acc	Outside calibration
167	ms480-193199-G-7	1.3	72.73	mg/l		4.0	man acc	
168	msd480-193199-G-	1.3	82.48	mg/l		4.0	man acc	
169	480-193203-G-1	1.3	0.46	mg/l		0.0	man acc	Outside calibration
170	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
171	CCV SO4	1.3	30.29	mg/l		0.0	man acc	
173	480-193241-I-1	1.3	0.42	mg/l		0.0	man acc	Outside calibration
174	480-193241-I-2	1.3	9.58	mg/l		0.0	man acc	
175	480-193241-I-3	1.3	23.39	mg/l		0.0	man acc	
176	CCB	1.3	0.38	mg/l		0.0	man acc	Outside calibration
177	CCV SO4	1.3	30.02	mg/l		0.0	man acc	
178	480-193241-I-4	1.3	23.85	mg/l		0.0	man acc	
179	480-193265-G-9	1.3	33.04	mg/l		0.0	man acc	
180	480-193265-G-7	1.3	20.82	mg/l		1.0	man acc	
181	480-193265-G-8	1.3	867.42	mg/l		24.0	man acc	Test limit High
182	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
183	CCV SO4	1.3	28.98	mg/l		0.0	man acc	
184	480-193265-G-10	1.3	2.25	mg/l		0.0	man acc	Outside calibration
185	480-193290-I-2	1.3	31.60	mg/l		0.0	man acc	
186	480-193265-G-11	1.3	308.21	mg/l		9.0	man acc	
187	msd480-193290-I-2	1.3	52.31	mg/l		1.0	man acc	
188	CCB	1.3	0.22	mg/l		0.0	man acc	Outside calibration
189	CCV SO4	1.3	30.02	mg/l		0.0	man acc	
190	480-193290-I-4	1.3	9.43	mg/l		0.0	man acc	
191	480-193290-I-5	1.3	14.90	mg/l		0.0	man acc	
192	480-193290-I-3	1.3	40.66	mg/l		1.0	man acc	
193	480-193290-I-6	1.3	15.77	mg/l		0.0	man acc	
194	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
195	CCV SO4	1.3	29.55	mg/l		0.0	man acc	
198	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
201	CCV SO4	1.3	29.54	mg/l		0.0	man acc	
204	480-193331-G-2	1.3	33.47	mg/l		1.0	man acc	
205	ms480-193335-I-3	1.3	42.70	mg/l		1.0	man acc	
206	CCB	1.3	0.08	mg/l		0.0	man acc	Outside calibration
207	CCV SO4	1.3	30.62	mg/l		0.0	man acc	
208	480-193335-I-4	1.3	0.27	mg/l		0.0	man acc	Outside calibration
209	480-193335-I-5	1.3	17.94	mg/l		0.0	man acc	
211	480-193335-I-6	1.3	51.48	mg/l		1.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
212	CCB	1.3	0.33	mg/l		0.0	man acc	Outside calibration
213	CCV SO4	1.3	29.50	mg/l		0.0	man acc	
215	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
216	CCV SO4	1.3	29.34	mg/l		0.0	man acc	
217	CCB	1.3	0.00	mg/l		0.0	man acc	Outside calibration
218	CCV SO4	1.3	28.36	mg/l		0.0	man acc	
220	480-193199-G-6	1.3	25.13	mg/l		1.0	man acc	
221	480-193203-G-2	1.3	57.67	mg/l		1.0	man acc	
222	480-193290-I-7	1.3	-0.12	mg/l		0.0	man acc	Outside calibration
223	CCB	1.3	-0.09	mg/l		0.0	man acc	Outside calibration
224	CCV SO4	1.3	27.52	mg/l		0.0	man acc	
225	480-193331-I-1	1.3	3.97	mg/l		0.0	man acc	Outside calibration
226	480-193290-I-8	1.3	10.98	mg/l		1.0	man acc	
227	480-193290-I-9	1.3	131.06	mg/l		4.0	man acc	
231	480-193335-I-1	1.3	30.22	mg/l		0.0	man acc	
234	CCB	1.3	-0.07	mg/l		0.0	man acc	Outside calibration
235	CCV SO4	1.3	28.01	mg/l		0.0	man acc	
236	480-193026-G-2	1.3	18.17	mg/l		1.0	man acc	
237	480-193305-E-1	1.3	528.97	mg/l		24.0	man acc	
240	CCB	1.3	-0.06	mg/l		0.0	man acc	Outside calibration
241	CCV SO4	1.3	27.65	mg/l		0.0	man acc	
243	480-193336-Q-2	1.3	-1.64	mg/l		0.0	man acc	Outside calibration
244	480-193336-Q-3	1.3	2.73	mg/l		0.0	man acc	Outside calibration
245	480-193336-Q-5	1.3	0.23	mg/l		0.0	man acc	Outside calibration
246	CCB	1.3	-0.12	mg/l		0.0	man acc	Outside calibration
247	CCV SO4	1.3	27.99	mg/l		0.0	man acc	
248	480-193336-Q-6	1.3	3.84	mg/l		0.0	man acc	Outside calibration
249	480-193336-Q-7	1.3	42.69	mg/l		2.0	man acc	
250	480-193337-H-1	1.3	17.27	mg/l		0.0	man acc	
251	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
252	CCV SO4	1.3	27.24	mg/l		0.0	man acc	
253	ms480-193337-H-1	1.3	36.91	mg/l		1.0	man acc	
254	msd480-193337-H-	1.3	37.60	mg/l		1.0	man acc	
255	480-193337-H-2	1.3	17.76	mg/l		0.0	man acc	
256	CCB	1.3	-0.25	mg/l		0.0	man acc	Outside calibration
258	CCV SO4	1.3	28.61	mg/l		0.0	man acc	
260	msd480-193337-H-	1.3	37.48	mg/l		1.0	man acc	
261	480-193369-K-1	1.3	17.94	mg/l		0.0	man acc	
262	480-193369-K-2	1.3	-0.16	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
263	CCB	1.3	-0.18	mg/l		0.0	man acc	Outside calibration
264	CCV SO4	1.3	27.82	mg/l		0.0	man acc	
265	480-193369-K-3	1.3	-0.03	mg/l		0.0	man acc	Outside calibration
266	480-193369-K-4	1.3	7.21	mg/l		0.0	man acc	
267	480-193369-K-5	1.3	7.08	mg/l		0.0	man acc	
269	CCB	1.3	-0.19	mg/l		0.0	man acc	Outside calibration
270	CCV SO4	1.3	27.65	mg/l		0.0	man acc	
271	480-193397-D-2	1.3	3.37	mg/l		0.0	man acc	Outside calibration
274	480-193397-D-5	1.3	22.64	mg/l		0.0	man acc	
275	CCB	1.3	-0.21	mg/l		0.0	man acc	Outside calibration
276	CCV SO4	1.3	27.81	mg/l		0.0	man acc	
277	480-193397-D-6	1.3	31.06	mg/l		0.0	man acc	
278	480-193336-Q-1	1.3	93.02	mg/l		4.0	man acc	
280	480-193436-K-2	1.3	0.02	mg/l		0.0	man acc	Outside calibration
281	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
282	CCV SO4	1.3	27.72	mg/l		0.0	man acc	
283	480-193436-K-3	1.3	10.88	mg/l		0.0	man acc	
284	ms480-193436-K-3	1.3	33.25	mg/l		1.0	man acc	
285	480-193397-D-1	1.3	33.10	mg/l		1.0	man acc	
286	480-193397-D-3	1.3	52.14	mg/l		1.0	man acc	
287	CCB	1.3	-0.26	mg/l		0.0	man acc	Outside calibration
288	CCV SO4	1.3	27.49	mg/l		0.0	man acc	
289	msd480-193436-K-	1.3	36.07	mg/l		1.0	man acc	
290	480-193436-K-4	1.3	1.52	mg/l		0.0	man acc	Outside calibration
291	480-193397-D-4	1.3	60.96	mg/l		1.0	man acc	
292	480-193436-K-5	1.3	16.49	mg/l		0.0	man acc	
293	CCB	1.3	-0.11	mg/l		0.0	man acc	Outside calibration
294	CCV SO4	1.3	30.69	mg/l		0.0	man acc	
295	ms480-193436-K-5	1.3	36.09	mg/l		1.0	man acc	
296	msd480-193436-K-	1.3	39.57	mg/l		0.0	man acc	
297	480-193436-K-6	1.3	0.09	mg/l		0.0	man acc	Outside calibration
298	480-193397-D-7	1.3	50.78	mg/l		1.0	man acc	
299	CCB	1.3	-0.04	mg/l		0.0	man acc	Outside calibration
300	CCV SO4	1.3	27.27	mg/l		0.0	man acc	
301	480-193436-K-7	1.3	23.49	mg/l		0.0	man acc	
302	480-193436-K-8	1.3	0.31	mg/l		0.0	man acc	Outside calibration
303	480-193439-H-1	1.3	16.99	mg/l		0.0	man acc	
304	480-193439-H-2	1.3	15.81	mg/l		0.0	man acc	
305	CCB	1.3	0.02	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
306	CCV SO4	1.3	27.94	mg/l		0.0	man acc	
307	480-193439-H-3	1.3	17.36	mg/l		0.0	man acc	
308	480-193439-H-4	1.3	16.10	mg/l		0.0	man acc	
309	480-193439-H-5	1.3	15.78	mg/l		0.0	man acc	
310	480-193439-H-6	1.3	1.50	mg/l		0.0	man acc	Outside calibration
311	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
312	CCV SO4	1.3	28.50	mg/l		0.0	man acc	
313	480-193439-H-7	1.3	11.64	mg/l		0.0	man acc	
315	480-193439-H-9	1.3	28.03	mg/l		0.0	man acc	
319	CCB	1.3	-0.01	mg/l		0.0	man acc	Outside calibration
320	CCV SO4	1.3	28.08	mg/l		0.0	man acc	
321	480-193439-H-11	1.3	24.25	mg/l		0.0	man acc	
322	480-193444-I-1	1.3	0.66	mg/l		0.0	man acc	Outside calibration
323	480-193444-I-2	1.3	0.08	mg/l		0.0	man acc	Outside calibration
324	480-193444-I-3	1.3	0.67	mg/l		0.0	man acc	Outside calibration
325	CCB	1.3	0.08	mg/l		0.0	man acc	Outside calibration
326	CCV SO4	1.3	28.05	mg/l		0.0	man acc	
327	ms480-193444-I-3	1.3	21.52	mg/l		1.0	man acc	
328	msd480-193444-I-3	1.3	21.39	mg/l		1.0	man acc	
332	ms480-193444-I-4	1.3	59.66	mg/l		1.0	man acc	
333	msd480-193444-I-4	1.3	60.81	mg/l		1.0	man acc	
334	CCB	1.3	0.66	mg/l		0.0	man acc	Outside calibration
335	CCV SO4	1.3	29.70	mg/l		0.0	man acc	
337	480-193444-I-6	1.3	2.30	mg/l		0.0	man acc	Outside calibration
338	480-193467-I-1	1.3	0.59	mg/l		0.0	man acc	Outside calibration
339	ms480-193467-I-1	1.3	22.02	mg/l		0.0	man acc	
340	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
341	CCV SO4	1.3	29.19	mg/l		0.0	man acc	
342	msd480-193467-I-1	1.3	21.36	mg/l		0.0	man acc	
343	480-193444-I-4	1.3	39.64	mg/l		1.0	man acc	
344	480-193467-I-2	1.3	35.43	mg/l		4.0	man acc	
345	480-193439-H-10	1.3	95.98	mg/l		4.0	man acc	
346	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
347	CCV SO4	1.3	30.34	mg/l		0.0	man acc	
348	480-193439-H-8	1.3	88.12	mg/l		4.0	man acc	
349	480-193467-I-3	1.3	124.49	mg/l		4.0	man acc	
351	480-193467-I-4	1.3	158.35	mg/l		4.0	man acc	
352	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
353	CCV SO4	1.3	30.91	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
354	480-193467-I-5	1.3	36.31	mg/l		0.0	man acc	
355	480-193467-I-6	1.3	1,611.10	mg/l		49.0	man acc	Test limit High
356	480-193467-I-7	1.3	833.00	mg/l		24.0	man acc	Test limit High
357	480-193481-G-1	1.3	698.32	mg/l		29.0	man acc	
358	CCB	1.3	0.54	mg/l		0.0	man acc	Outside calibration
359	CCV SO4	1.3	29.95	mg/l		0.0	man acc	
360	480-193482-G-1	1.3	0.32	mg/l		0.0	man acc	Outside calibration
361	480-193482-G-2	1.3	0.35	mg/l		0.0	man acc	Outside calibration
362	480-193482-G-3	1.3	628.62	mg/l		19.0	man acc	Test limit High
363	480-193444-I-5	1.3	92.51	mg/l		4.0	man acc	
364	CCB	1.3	0.58	mg/l		0.0	man acc	Outside calibration
365	CCV SO4	1.3	31.06	mg/l		0.0	man acc	
366	480-193482-G-4	1.3	473.13	mg/l		19.0	man acc	
367	480-193482-G-5	1.3	0.33	mg/l		0.0	man acc	Outside calibration
368	480-193482-G-6	1.3	1,623.59	mg/l		49.0	man acc	Test limit High
369	480-193482-G-7	1.3	56.37	mg/l		2.0	man acc	
370	CCB	1.3	0.40	mg/l		0.0	man acc	Outside calibration
371	CCV SO4	1.3	29.40	mg/l		0.0	man acc	
372	480-193482-G-8	1.3	1,201.07	mg/l		39.0	man acc	Test limit High
373	480-193482-G-9	1.3	361.30	mg/l		9.0	man acc	
374	480-193512-K-1	1.3	33.56	mg/l		0.0	man acc	
375	480-193512-K-2	1.3	0.67	mg/l		0.0	man acc	Outside calibration
376	CCB	1.3	0.48	mg/l		0.0	man acc	Outside calibration
377	CCV SO4	1.3	30.16	mg/l		0.0	man acc	
378	480-193512-K-3	1.3	2.66	mg/l		0.0	man acc	Outside calibration
379	480-193512-K-4	1.3	0.52	mg/l		0.0	man acc	Outside calibration
380	480-193526-C-5	1.3	21.67	mg/l		0.0	man acc	
382	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
383	CCV SO4	1.3	30.06	mg/l		0.0	man acc	
385	480-193526-C-6	1.3	21.74	mg/l		0.0	man acc	
387	480-193531-G-2	1.3	1.39	mg/l		0.0	man acc	Outside calibration
396	480-193531-G-7	1.3	32.06	mg/l		0.0	man acc	
399	ms480-193526-C-5	1.3	41.67	mg/l		1.0	man acc	
400	CCB	1.3	0.56	mg/l		0.0	man acc	Outside calibration
401	CCV SO4	1.3	30.14	mg/l		0.0	man acc	
402	msd480-193526-C-	1.3	40.96	mg/l		1.0	man acc	
403	480-193531-G-1	1.3	12.29	mg/l		1.0	man acc	
404	CCB	1.3	0.61	mg/l		0.0	man acc	Outside calibration
405	CCV SO4	1.3	29.85	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
406	480-193531-G-3	1.3	35.46	mg/l		1.0	man acc	
407	480-193531-G-4	1.3	60.48	mg/l		1.0	man acc	
408	480-193531-G-5	1.3	48.41	mg/l		1.0	man acc	
409	480-193531-G-6	1.3	59.56	mg/l		1.0	man acc	
412	CCB	1.3	0.51	mg/l		0.0	man acc	Outside calibration
413	CCV SO4	1.3	29.96	mg/l		0.0	man acc	
414	ms480-193337-H-2	1.3	40.44	mg/l		1.0	man acc	
415	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
416	CCV SO4	1.3	30.40	mg/l		0.0	man acc	

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Results by Test

Date 12/17/2021 **User** BufGallery1

Time 4:08:01AM **Software version: 6.0.2**

Test name SO4 KIN

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	480-193024-G-1	1.1	-0.0046	mg/l		19.0	man acc	Reaction direction
6	480-193026-G-3	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
7	480-193026-G-4	1.1	-0.0048	mg/l		0.0	man acc	Point(s) out of curve, Reaction directi
8	480-193026-G-5	1.1	0.0001	mg/l		0.0	man acc	Point(s) out of curve
9	480-193026-G-6	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
10	480-193199-G-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
11	480-193199-G-2	1.1	0.0000	mg/l		0.0	man acc	
12	480-193199-G-3	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction
13	480-193199-G-4	1.1	-0.0019	mg/l		0.0	man acc	Reaction direction
14	480-193199-G-5	1.1	0.0001	mg/l		0.0	man acc	
16	480-193199-G-7	1.1	0.0362	mg/l		2.0	man acc	Point(s) out of curve
19	480-193199-G-8	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
20	480-193203-G-1	1.1	0.0013	mg/l		0.0	man acc	
22	480-193241-I-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
23	480-193241-I-2	1.1	0.0025	mg/l		0.0	man acc	
24	ms480-193241-I-2	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
25	msd480-193241-I-2	1.1	0.0001	mg/l		0.0	man acc	
26	480-193241-I-3	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
27	480-193241-I-4	1.1	0.0009	mg/l		0.0	man acc	
28	480-193241-I-5	1.1	0.0022	mg/l		0.0	man acc	
29	480-193241-I-6	1.1	0.0004	mg/l		0.0	man acc	
30	ms480-193241-I-6	1.1	-0.0007	mg/l		0.0	man acc	Reaction direction
31	msd480-193241-I-6	1.1	-0.0009	mg/l		0.0	man acc	Reaction direction
32	480-193243-I-1	1.1	0.0001	mg/l		0.0	man acc	
33	480-193243-I-2	1.1	0.0007	mg/l		0.0	man acc	
34	480-193265-G-1	1.1	0.0145	mg/l		9.0	man acc	
35	480-193265-G-2	1.1	0.0116	mg/l		9.0	man acc	Point(s) out of curve
37	480-193265-G-4	1.1	0.0088	mg/l		4.0	man acc	
38	480-193265-G-5	1.1	0.0040	mg/l		4.0	man acc	
39	480-193265-G-6	1.1	0.0036	mg/l		4.0	man acc	
42	480-193265-G-9	1.1	0.0052	mg/l		0.0	man acc	Point(s) out of curve
43	480-193265-G-10	1.1	0.0002	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
44	480-193265-G-11	1.1	-0.0010	mg/l		9.0	man acc	Reaction direction
45	480-193290-I-2	1.1	0.0010	mg/l		0.0	man acc	
46	ms480-193290-I-2	1.1	0.0018	mg/l		1.0	man acc	
47	msd480-193290-I-2	1.1	0.0019	mg/l		1.0	man acc	
49	480-193290-I-4	1.1	0.0010	mg/l		0.0	man acc	Blank init abs. low
50	ms480-193290-I-4	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
51	msd480-193290-I-4	1.1	-0.0004	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
52	480-193290-I-5	1.1	0.0006	mg/l		0.0	man acc	
53	480-193290-I-6	1.1	0.0006	mg/l		0.0	man acc	
56	480-193290-I-9	1.1	0.0085	mg/l		4.0	man acc	
57	ms480-193290-I-9	1.1	0.0025	mg/l		4.0	man acc	
58	msd480-193290-I-9	1.1	0.0025	mg/l		4.0	man acc	
59	480-193305-E-1	1.1	0.0444	mg/l		24.0	man acc	
60	ms480-193305-E-1	1.1	0.0408	mg/l		24.0	man acc	
61	msd480-193305-E-	1.1	0.0382	mg/l		24.0	man acc	
62	480-193310-G-1	1.1	0.0004	mg/l		0.0	man acc	
63	480-193310-G-2	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
64	480-193310-G-3	1.1	0.0001	mg/l		0.0	man acc	
65	480-193310-G-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
66	480-193310-G-5	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction
67	480-193310-G-6	1.1	0.0002	mg/l		0.0	man acc	
68	480-193310-G-7	1.1	0.0008	mg/l		0.0	man acc	
69	480-193310-G-8	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
70	480-193317-D-1	1.1	0.0010	mg/l		0.0	man acc	
71	480-193317-D-2	1.1	0.0012	mg/l		0.0	man acc	
72	480-193317-D-3	1.1	0.0015	mg/l		0.0	man acc	
73	480-193317-D-4	1.1	0.0015	mg/l		0.0	man acc	
75	480-193317-D-6	1.1	0.0021	mg/l		0.0	man acc	
78	480-193331-I-1	1.1	-0.0007	mg/l		0.0	man acc	Reaction direction
81	480-193335-I-1	1.1	0.0008	mg/l		0.0	man acc	
82	480-193335-I-2	1.1	0.0012	mg/l		0.0	man acc	
83	ms480-193335-I-2	1.1	0.0016	mg/l		1.0	man acc	
84	msd480-193335-I-2	1.1	0.0017	mg/l		1.0	man acc	
85	480-193335-I-3	1.1	0.0018	mg/l		0.0	man acc	
86	ms480-193335-I-3	1.1	0.0022	mg/l		1.0	man acc	Blank init abs. low
87	msd480-193335-I-3	1.1	0.0025	mg/l		1.0	man acc	
88	480-193335-I-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
89	480-193335-I-5	1.1	0.0016	mg/l		0.0	man acc	
90	480-193335-I-6	1.1	-0.0012	mg/l		1.0	man acc	Point(s) out of curve, Reaction directi

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
91	480-193026-G-1	1.1	-0.0025	mg/l		9.0	man acc	Reaction direction
92	ms480-193026-G-1	1.1	-0.0045	mg/l		9.0	man acc	Reaction direction
93	msd480-193026-G-	1.1	-0.0034	mg/l		9.0	man acc	Reaction direction
94	480-193265-G-3	1.1	-0.0105	mg/l		19.0	man acc	Reaction direction
95	480-193317-D-5	1.1	0.0016	mg/l		1.0	man acc	
96	ms480-193199-G-7	1.1	0.0147	mg/l		4.0	man acc	Point(s) out of curve
97	msd480-193199-G-	1.1	0.0162	mg/l		4.0	man acc	Point(s) out of curve
98	480-193265-G-7	1.1	0.0069	mg/l		1.0	man acc	Point(s) out of curve
99	480-193265-G-8	1.1	-0.0149	mg/l		24.0	man acc	Reaction direction, Blank init abs. low
100	480-193290-I-3	1.1	0.0003	mg/l		1.0	man acc	
101	480-193331-G-2	1.1	0.0043	mg/l		1.0	man acc	
102	480-193199-G-6	1.1	-0.0042	mg/l		1.0	man acc	Reaction direction
103	480-193203-G-2	1.1	0.0044	mg/l		1.0	man acc	Point(s) out of curve
104	480-193290-I-7	1.1	0.0000	mg/l		0.0	man acc	
105	480-193290-I-8	1.1	0.0017	mg/l		1.0	man acc	
106	480-193026-G-2	1.1	0.0186	mg/l		1.0	man acc	Point(s) out of curve
107	480-193317-D-7	1.1	0.0030	mg/l		1.0	man acc	
108	480-193317-D-8	1.1	0.0012	mg/l		1.0	man acc	Blank init abs. low
109	480-193334-J-1	1.1	0.0077	mg/l		1.0	man acc	Point(s) out of curve
111	480-193336-Q-2	1.1	-0.0328	mg/l		0.0	man acc	Point(s) out of curve, Reaction directi
112	480-193336-Q-3	1.1	0.0012	mg/l		0.0	man acc	
113	480-193336-Q-5	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
114	480-193336-Q-6	1.1	0.0016	mg/l		0.0	man acc	
115	480-193336-Q-7	1.1	0.0089	mg/l		2.0	man acc	Point(s) out of curve
116	480-193337-H-1	1.1	0.0022	mg/l		0.0	man acc	Point(s) out of curve
117	ms480-193337-H-1	1.1	0.0032	mg/l		1.0	man acc	
118	msd480-193337-H-	1.1	0.0029	mg/l		1.0	man acc	
119	480-193337-H-2	1.1	0.0021	mg/l		0.0	man acc	Point(s) out of curve
120	ms480-193337-H-2	1.1	0.0026	mg/l		1.0	man acc	
121	msd480-193337-H-	1.1	0.0024	mg/l		1.0	man acc	
122	480-193369-K-1	1.1	0.0020	mg/l		0.0	man acc	
123	480-193369-K-2	1.1	0.0001	mg/l		0.0	man acc	
124	480-193369-K-3	1.1	0.0001	mg/l		0.0	man acc	
125	480-193369-K-4	1.1	0.0041	mg/l		0.0	man acc	Point(s) out of curve
126	480-193369-K-5	1.1	0.0043	mg/l		0.0	man acc	Point(s) out of curve
128	480-193397-D-2	1.1	0.0008	mg/l		0.0	man acc	
131	480-193397-D-5	1.1	0.0024	mg/l		0.0	man acc	Blank init abs. low
132	480-193397-D-6	1.1	0.0016	mg/l		0.0	man acc	
134	480-193436-K-2	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
135	480-193436-K-3	1.1	0.0041	mg/l		0.0	man acc	Point(s) out of curve
136	ms480-193436-K-3	1.1	0.0035	mg/l		1.0	man acc	
137	msd480-193436-K-	1.1	0.0035	mg/l		1.0	man acc	
138	480-193436-K-4	1.1	0.0014	mg/l		0.0	man acc	
139	480-193436-K-5	1.1	0.0026	mg/l		0.0	man acc	Point(s) out of curve
140	ms480-193436-K-5	1.1	0.0034	mg/l		1.0	man acc	
141	msd480-193436-K-	1.1	0.0000	mg/l		0.0	man acc	
142	480-193436-K-6	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
143	480-193436-K-7	1.1	0.0017	mg/l		0.0	man acc	
144	480-193436-K-8	1.1	0.0001	mg/l		0.0	man acc	
145	480-193439-H-1	1.1	0.0007	mg/l		0.0	man acc	
146	480-193439-H-2	1.1	0.0013	mg/l		0.0	man acc	
147	480-193439-H-3	1.1	0.0014	mg/l		0.0	man acc	
148	480-193439-H-4	1.1	0.0019	mg/l		0.0	man acc	
149	480-193439-H-5	1.1	0.0011	mg/l		0.0	man acc	
150	480-193439-H-6	1.1	0.0003	mg/l		0.0	man acc	
151	480-193439-H-7	1.1	0.0008	mg/l		0.0	man acc	
153	480-193439-H-9	1.1	0.0002	mg/l		0.0	man acc	
155	480-193439-H-11	1.1	0.0010	mg/l		0.0	man acc	
156	480-193444-I-1	1.1	0.0004	mg/l		0.0	man acc	
157	480-193444-I-2	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
158	480-193444-I-3	1.1	0.0003	mg/l		0.0	man acc	
159	ms480-193444-I-3	1.1	0.0026	mg/l		1.0	man acc	
160	msd480-193444-I-3	1.1	0.0026	mg/l		1.0	man acc	
162	ms480-193444-I-4	1.1	0.0004	mg/l		1.0	man acc	Point(s) out of curve
163	msd480-193444-I-4	1.1	-0.0002	mg/l		1.0	man acc	Reaction direction
165	480-193444-I-6	1.1	0.0018	mg/l		0.0	man acc	
166	480-193467-I-1	1.1	0.0000	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
167	ms480-193467-I-1	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
168	msd480-193467-I-1	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
169	480-193467-I-2	1.1	0.0099	mg/l		4.0	man acc	
170	480-193467-I-3	1.1	0.0037	mg/l		4.0	man acc	
171	480-193467-I-4	1.1	-0.0001	mg/l		4.0	man acc	Reaction direction
172	480-193467-I-5	1.1	0.0006	mg/l		0.0	man acc	
173	480-193467-I-6	1.1	-0.0368	mg/l		49.0	man acc	Reaction direction, Blank init abs. low
174	480-193467-I-7	1.1	-0.0179	mg/l		24.0	man acc	Reaction direction
175	480-193481-G-1	1.1	-0.0041	mg/l		29.0	man acc	Reaction direction
176	480-193482-G-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
177	480-193482-G-2	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
178	480-193482-G-3	1.1	-0.0102	mg/l		19.0	man acc	Reaction direction
179	480-193482-G-4	1.1	-0.0003	mg/l		19.0	man acc	Reaction direction
180	480-193482-G-5	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction
181	480-193482-G-6	1.1	-0.0545	mg/l		49.0	man acc	Reaction direction
182	480-193482-G-7	1.1	0.0420	mg/l		2.0	man acc	Point(s) out of curve
183	480-193482-G-8	1.1	-0.0211	mg/l		39.0	man acc	Reaction direction, Blank init abs. low
184	480-193482-G-9	1.1	0.0153	mg/l		9.0	man acc	
185	480-193512-K-1	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
186	480-193512-K-2	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
187	480-193512-K-3	1.1	0.0019	mg/l		0.0	man acc	
188	480-193512-K-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
189	480-193526-C-5	1.1	0.0015	mg/l		0.0	man acc	
192	480-193526-C-6	1.1	0.0015	mg/l		0.0	man acc	
194	480-193531-G-2	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
199	480-193531-G-7	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction
200	480-193336-Q-1	1.1	0.0104	mg/l		4.0	man acc	
201	480-193397-D-1	1.1	0.0039	mg/l		1.0	man acc	Point(s) out of curve
202	480-193397-D-3	1.1	0.0013	mg/l		1.0	man acc	
203	480-193397-D-4	1.1	0.0008	mg/l		1.0	man acc	
204	480-193397-D-7	1.1	0.0025	mg/l		1.0	man acc	
205	480-193444-I-4	1.1	0.0040	mg/l		1.0	man acc	
206	480-193439-H-8	1.1	0.0102	mg/l		4.0	man acc	
207	480-193439-H-10	1.1	0.0017	mg/l		4.0	man acc	
208	480-193444-I-5	1.1	0.0121	mg/l		4.0	man acc	Point(s) out of curve
209	ms480-193526-C-5	1.1	0.0011	mg/l		1.0	man acc	
210	msd480-193526-C-	1.1	0.0010	mg/l		1.0	man acc	
211	480-193531-G-1	1.1	0.0043	mg/l		1.0	man acc	
212	480-193531-G-3	1.1	0.0003	mg/l		1.0	man acc	
213	480-193531-G-4	1.1	-0.0007	mg/l		1.0	man acc	Reaction direction
214	480-193531-G-5	1.1	0.0019	mg/l		1.0	man acc	
215	480-193531-G-6	1.1	0.0003	mg/l		1.0	man acc	

Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193024-G-1	20-183-2R	9038	Sulfate	Total/NA	mg/L	6	20.0	448	☐	315.738 - 796.262	☐	350.4 - 778.8
480-193026-G-1	98-187-2	9038	Sulfate	Total/NA	mg/L	8	10.0	239	☐	0 - 336.988	☐	53.76 - 292.8
480-193026-G-2	98-188-1	9038	Sulfate	Total/NA	mg/L	8	2.0	18.2	☐	0 - 235.061	☐	0 - 212.4
480-193026-G-3	98-188-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193026-G-4	98-188-3	9038	Sulfate	Total/NA	mg/L	8	1.0	20.2	☑	0 - 0	☑	0 - 0
480-193026-G-5	98-193-2	9038	Sulfate	Total/NA	mg/L	8	1.0	7.1	☑	0 - 0	☑	0 - 0
480-193026-G-6	98-194-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-1	03-197-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-2	03-197-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-3	03-198-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-4	03-198-2	9038	Sulfate	Total/NA	mg/L	8	1.0	27.3	☐	0 - 61.922	☐	5.6 - 52.2
480-193199-G-5	03-199-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-6	03-199-2	9038	Sulfate	Total/NA	mg/L	8	2.0	25.1	☐	0 - 283.816	☐	0 - 210
480-193199-G-7	03-200-1	9038	Sulfate	Total/NA	mg/L	8	3.0	58.6	☐	30.057 - 128.668	☐	40 - 120
480-193199-G-8	03-200-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193203-G-1	88-148-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193203-G-2	96-148-2R	9038	Sulfate	Total/NA	mg/L	8	2.0	57.7	☐	0 - 122.217	☐	0 - 124.8
480-193241-I-1	01FB	D516	Sulfate	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 28.041	☐	0 - 30.12
480-193241-I-2	MW04	D516	Sulfate	Total/NA	mg/L as N	8	1.0	9.6	☐	5.942 - 19.183	☐	8.48 - 20.16
480-193241-I-3	MW05	D516	Sulfate	Total/NA	mg/L as N	8	1.0	23.4	☐	16.613 - 32.462	☐	18.16 - 37.2
480-193241-I-4	MW06D	D516	Sulfate	Total/NA	mg/L as N	8	1.0	23.9	☐	13.183 - 25.292	☐	13.84 - 28.44
480-193241-I-5	MW06S	D516	Sulfate	Total/NA	mg/L as N	8	1.0	15.8	☐	9.602 - 20.998	☐	8.72 - 21.72
480-193241-I-6	MW07	D516	Sulfate	Total/NA	mg/L as N	8	1.0	16.0	☐	11.142 - 18.633	☐	10.48 - 20.52
480-193243-I-1	SW001	D516	Sulfate	Total/NA	mg/L	6	1.0	ND	☐	0 - 49.646	☐	0 - 43.8
480-193243-I-2	SW003	D516	Sulfate	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0
480-193265-G-1	89-156-2	9038	Sulfate	Total/NA	mg/L	8	10.0	148	☐	10.6 - 643.4	☑	202.4 - 705.6
480-193265-G-10	357R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193265-G-11	D-19RR	9038	Sulfate	Total/NA	mg/L	8	10.0	308	☐	0 - 532.366	☐	0 - 378
480-193265-G-2	98-156-3	9038	Sulfate	Total/NA	mg/L	8	10.0	265	☐	0 - 958.473	☐	57.44 - 687.6
480-193265-G-3	98-186-2	9038	Sulfate	Total/NA	mg/L	8	20.0	498	☐	10.6 - 643.4	☐	202.4 - 705.6
480-193265-G-4	75R	9038	Sulfate	Total/NA	mg/L	8	5.0	181	☐	96.975 - 268.775	☐	108 - 292.8
480-193265-G-5	76R	9038	Sulfate	Total/NA	mg/L	8	5.0	152	☐	135.831 - 210.169	☐	125.6 - 230.4
480-193265-G-6	DUP@76R	9038	Sulfate	Total/NA	mg/L	1	5.0	154	☑	146 - 146	☐	116.8 - 175.2
480-193265-G-7	94R	9038	Sulfate	Total/NA	mg/L	8	2.0	20.8	☐	0 - 158.527	☐	13.2 - 162
480-193265-G-8	PELA-4	9038	Sulfate	Total/NA	mg/L	8	25.0	867	☐	0 - 1148.456	☐	180 - 948
480-193265-G-9	89-167-3	9038	Sulfate	Total/NA	mg/L	8	1.0	33.0	☐	0 - 85.88	☐	0 - 79.44
480-193290-I-2	MW-13S	9038	Sulfate	Total/NA	mg/L	8	1.0	31.6	☐	20.607 - 44.693	☐	20.08 - 45.96
480-193290-I-3	MW-19D	9038	Sulfate	Total/NA	mg/L	8	2.0	40.7	☐	0 - 47.396	☐	7.92 - 43.56
480-193290-I-4	MW-19S	9038	Sulfate	Total/NA	mg/L	8	1.0	9.4	☐	5.129 - 11.996	☐	5.76 - 12.36

Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193290-I-5	MW-7S	9038	Sulfate	Total/NA	mg/L	8	1.0	14.9	☐	12.755 - 47.72	☑	18.96 - 47.04
480-193290-I-6	MW-DUP	9038	Sulfate	Total/NA	mg/L	8	1.0	15.8	☐	0 - 106.443	☐	0 - 104.4
480-193290-I-7	MW-14S	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 95.4	☐	0 - 102.36
480-193290-I-8	MW-15S	9038	Sulfate	Total/NA	mg/L	8	2.0	11.0	☐	0 - 227.301	☐	0 - 184.8
480-193290-I-9	MW-6S2	9038	Sulfate	Total/NA	mg/L	8	5.0	131	☐	112.873 - 192.627	☐	103.2 - 205.2
480-193305-E-1	MHOLT	D516	Sulfate	Total/NA	mg/L	8	25.0	529	☐	202.379 - 1011.871	☐	303.2 - 939.6
480-193331-G-2	MW-16D	9038	Sulfate	Total/NA	mg/L	8	2.0	33.5	☐	28.997 - 50.128	☐	27.36 - 54.72
480-193331-I-1	MW-16S	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193334-J-1	WMNMH1	D516	Sulfate	Total/NA	mg/L	8	2.0	78.0	☐	0 - 399.614	☐	0 - 397.2
480-193335-I-1	MW-12AA	9038	Sulfate	Total/NA	mg/L	8	1.0	30.2	☐	15.534 - 40.316	☐	16.32 - 38.4
480-193335-I-2	MW-12BBB	9038	Sulfate	Total/NA	mg/L	8	1.0	30.5	☐	20.854 - 38.696	☐	18.48 - 41.04
480-193335-I-3	MW-13A	9038	Sulfate	Total/NA	mg/L	8	1.0	20.9	☐	18.749 - 26.076	☐	16.56 - 28.92
480-193335-I-4	MW-13B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-I-5	MW-17A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.9	☐	0.937 - 40.063	☐	9.52 - 35.88
480-193335-I-6	MW-17B	9038	Sulfate	Total/NA	mg/L	8	2.0	51.5	☐	41.329 - 82.996	☐	42.8 - 87
480-193336-Q-1	SLC-2A	9038	Sulfate	Total/NA	mg/L	8	5.0	93.0	☑	0 - 0	☑	0 - 0
480-193336-Q-2	PLC-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 118.419	☐	0 - 127.2
480-193336-Q-3	PLC-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 6.368	☐	0 - 6.84
480-193336-Q-5	SLC-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193336-Q-6	PLC-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 9.211	☐	0 - 7.92
480-193336-Q-7	LD-1	9038	Sulfate	Total/NA	mg/L	8	3.0	42.7	☐	36.367 - 123.958	☑	50.72 - 122.4
480-193337-H-1	CD-1	9038	Sulfate	Total/NA	mg/L	8	1.0	17.3	☐	10.432 - 28.668	☐	12.64 - 31.32
480-193337-H-2	CD-1RA	9038	Sulfate	Total/NA	mg/L	8	1.0	17.8	☐	5.672 - 28.503	☐	6.24 - 25.68
480-193369-K-1	MW-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.9	☐	0 - 38.339	☐	0 - 27.24
480-193369-K-2	MW-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-K-3	MW-2B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-K-4	MW-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	7.2	☐	0 - 23.524	☐	4.8 - 25.44
480-193369-K-5	DUP MW-1B	9038	Sulfate	Total/NA	mg/L	1	1.0	7.1	☑	7.8 - 7.8	☐	6.24 - 9.36
480-193436-K-2	MW-3A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-3	MW-3B	9038	Sulfate	Total/NA	mg/L	8	1.0	10.9	☐	4.627 - 16.923	☐	5.36 - 15.84
480-193436-K-4	MW-4A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.356	☐	0 - 8.76
480-193436-K-5	MW-5A	9038	Sulfate	Total/NA	mg/L	8	1.0	16.5	☐	3.112 - 26.588	☐	7.04 - 26.28
480-193436-K-6	MW-6A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-7	MW-6B	9038	Sulfate	Total/NA	mg/L	8	1.0	23.5	☐	0 - 41.713	☐	4.16 - 42.6
480-193436-K-8	MW-7A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 41.335	☐	0 - 44.4
480-193444-I-3	DUP-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 75.935	☐	0 - 62.4
480-193444-I-4	SW-2	9038	Sulfate	Total/NA	mg/L	8	2.0	40	☐	0 - 41.783	☑	6.4 - 37.2
480-193467-I-1	01FB	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-I-2	YSC01	9038	Sulfate	Total/NA	mg/L	8	5.0	35.4	☐	0 - 306.195	☐	0 - 216

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Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193467-I-3	YSC02	9038	Sulfate	Total/NA	mg/L	8	5.0	124	☐	90.207 - 136.043	☐	81.6 - 148.8
480-193467-I-4	YSP03R	9038	Sulfate	Total/NA	mg/L	8	5.0	158	☐	65.75 - 331.75	☐	108 - 308.4
480-193467-I-5	YSP05	9038	Sulfate	Total/NA	mg/L	8	1.0	36.3	☐	29.717 - 43.133	☐	25.68 - 48.48
480-193467-I-6	YSP08	9038	Sulfate	Total/NA	mg/L	8	50.0	1610	☐	1403.099 - 1804.401	☐	1176 - 2052
480-193467-I-7	YSP09	9038	Sulfate	Total/NA	mg/L	8	25.0	833	☐	722.844 - 882.656	☐	599.2 - 1004.4
480-193481-G-1	MH8L-MLD	9038	Sulfate	Total/NA	mg/L	8	30.0	698	☐	362.619 - 2034.631	☐	618.4 - 1776
480-193482-G-1	172R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-G-2	413R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-G-3	173R	9038	Sulfate	Total/NA	mg/L	8	20.0	629	☐	560.507 - 711.493	☐	478.4 - 807.6
480-193482-G-4	171R	9038	Sulfate	Total/NA	mg/L	8	20.0	473	☐	373.205 - 562.295	☐	345.6 - 643.2
480-193482-G-5	169RR	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 11.06	☐	0 - 11.88
480-193482-G-6	170R	9038	Sulfate	Total/NA	mg/L	8	50.0	1620	☐	1596.505 - 2043.495	☐	1360 - 2352
480-193482-G-7	302R	9038	Sulfate	Total/NA	mg/L	8	3.0	56.4	☐	0 - 306.717	☑	58.48 - 289.2 OK
480-193482-G-8	301RR	9038	Sulfate	Total/NA	mg/L	8	40.0	1200	☐	598.967 - 1638.783	☐	568.8 - 1572
480-193482-G-9	300R	9038	Sulfate	Total/NA	mg/L	8	10.0	361	☐	91.276 - 482.974	☐	145.6 - 441.6
480-193512-K-1	WS-1	9038	Sulfate	Total/NA	mg/L	8	1.0	33.6	☐	0 - 75.901	☐	0 - 47.76
480-193512-K-2	CW-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 70.622	☐	0 - 54.48
480-193512-K-3	CW-15	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 48.258	☐	0 - 38.4
480-193512-K-4	CW-16	9038	Sulfate	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0

General Chemistry Worksheet

608781

Batch Number: 480-608781
Method: SM 2540C
Analyst: Olson, Jeffrey G

Date Open: Dec 14 2021 11:17AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	CrucibleID	Tare Weight	Initial weight/volume of sample	Third Weighing	Fourth Weighing	Percent different between 1st & 2nd
MB~480-608781/1		2540C_Calcd		MB	109.8018 g	100 mL	0 g	0 g	N/A No Unit
LCS~480-608781/2		2540C_Calcd		LCS	108.7280 g	100 mL	0 g	0 g	N/A No Unit
480-193265-B-10	357R	2540C_Calcd	T	3	113.7726 g	25 mL	0 g	0 g	N/A No Unit
480-193265-B-10~DU		2540C_Calcd	T	4	107.2897 g	25 mL	0 g	0 g	N/A No Unit
480-193265-C-11	D-19RR	2540C_Calcd	T	5	112.1638 g	25 mL	0 g	0 g	N/A No Unit
480-193290-A-2	MW-13S	2540C_Calcd	T	6	117.6124 g	100 mL	0 g	0 g	N/A No Unit
480-193310-A-4	MW-11B	2540C_Calcd	T	7	116.8007 g	100 mL	0 g	0 g	N/A No Unit
480-193331-A-1	MW-16S	2540C_Calcd	T	8	113.9724 g	100 mL	0 g	0 g	N/A No Unit
480-193331-A-2	MW-16D	2540C_Calcd	T	9	119.5293 g	100 mL	0 g	0 g	N/A No Unit
480-193332-A-1	DUP	2540C_Calcd	T	10	117.4690 g	100 mL	0 g	0 g	N/A No Unit
480-193332-A-3	WS-1D	2540C_Calcd	T	11	123.2461 g	100 mL	0 g	0 g	N/A No Unit
480-193332-A-4	WS-1S	2540C_Calcd	T	12	114.8826 g	100 mL	0 g	0 g	N/A No Unit
480-193334-C-1	WMNMH1	2540C_Calcd	T	13	115.5826 g	25 mL	0 g	0 g	N/A No Unit
480-193335-B-3	MW-13A	2540C_Calcd	T	14	123.3252 g	100 mL	0 g	0 g	N/A No Unit
480-193335-B-4	MW-13B	2540C_Calcd	T	15	115.7625 g	100 mL	0 g	0 g	N/A No Unit
480-193335-B-5	MW-17A	2540C_Calcd	T	16	110.9114 g	100 mL	0 g	0 g	N/A No Unit
480-193335-B-6	MW-17B	2540C_Calcd	T	17	117.8669 g	100 mL	0 g	0 g	N/A No Unit
480-193369-A-4	MW-1B	2540C_Calcd	T	18	113.2149 g	100 mL	0 g	0 g	N/A No Unit
480-193369-A-5	DUP MW-1B	2540C_Calcd	T	19	104.8665 g	100 mL	0 g	0 g	N/A No Unit
480-193337-B-1	CD-1	2540C_Calcd	T	20	108.2474 g	100 mL	0 g	0 g	N/A No Unit
480-193337-B-2	CD-1RA	2540C_Calcd	T	21	107.0014 g	100 mL	0 g	0 g	N/A No Unit
480-193337-B-2~DU		2540C_Calcd	T	22	106.3389 g	100 mL	0 g	0 g	N/A No Unit

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Historical Data Summary Report

For Batch 608781

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193265-B-10	357R	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2870	☐	1586.914 - 4805.586	☐	2000 - 4752
480-193265-C-11	D-19RR	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	1680	☐	697.361 - 4090.139	☐	1424 - 4164
480-193290-A-2	MW-13S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	434	☐	10.721 - 957.779	☐	124 - 824.4
480-193331-A-1	MW-16S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	351	☐	257.059 - 425.941	☐	244 - 484.8
480-193331-A-2	MW-16D	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	724	☐	453.032 - 822.468	☐	428.8 - 878.4
480-193332-A-1	DUP	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	286	☐	0 - 546.751	☐	103.2 - 601.2
480-193332-A-3	WS-1D	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	225	☑	109.024 - 222.726	☐	108.8 - 230.4
480-193332-A-4	WS-1S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	282	☐	123.869 - 300.131	☐	121.6 - 312
480-193334-C-1	WMNMH1	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2030	☐	953.143 - 5119.357	☐	1792 - 5400
480-193335-B-3	MW-13A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	246	☐	96.332 - 380.668	☐	132.8 - 374.4
480-193335-B-4	MW-13B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	401	☐	220.576 - 711.674	☐	279.2 - 738
480-193335-B-5	MW-17A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	200	☐	0 - 423.671	☐	0 - 321.6
480-193335-B-6	MW-17B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	280	☐	146.483 - 407.767	☐	168.8 - 440.4
480-193337-B-1	CD-1	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	206	☐	75.611 - 313.389	☐	120.8 - 344.4
480-193337-B-2	CD-1RA	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	212	☐	79.161 - 380.089	☐	130.4 - 385.2
480-193369-A-4	MW-1B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	143	☐	39.664 - 260.086	☐	83.2 - 255.6
480-193369-A-5	DUP MW-1B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	1	1.0	192	☑	295 - 295	☑	236 - 354 GK-DP

608717

Chloride

325.2/SM4500_CL_E/9251

1000 PPM (MS/MSD/CAL)	5222530	EXP: 04/12/2024
25 PPM (CCV/LCS)	6815292	EXP: 01/10/2022
Color reagent:	6344179	EXP: 02/28/2022
ERA Minerals (ICV): Actual = 61.9 MG/L Range = 56.3 – 66.9 MG/L	6318066	EXP: 04/01/2023

CURVE:

Kone 1: 06-13-2019 50ppm: 5352373	Batch: 478009
Kone 2: 06-24-2020 50ppm: 5988654	Batch: 537874
Kone 3: 05-11-2020 50 ppm: 5915012	Batch: 531059
Gallery 1: 12-13-2021 50 ppm: 6815388	Batch: 608717

608717

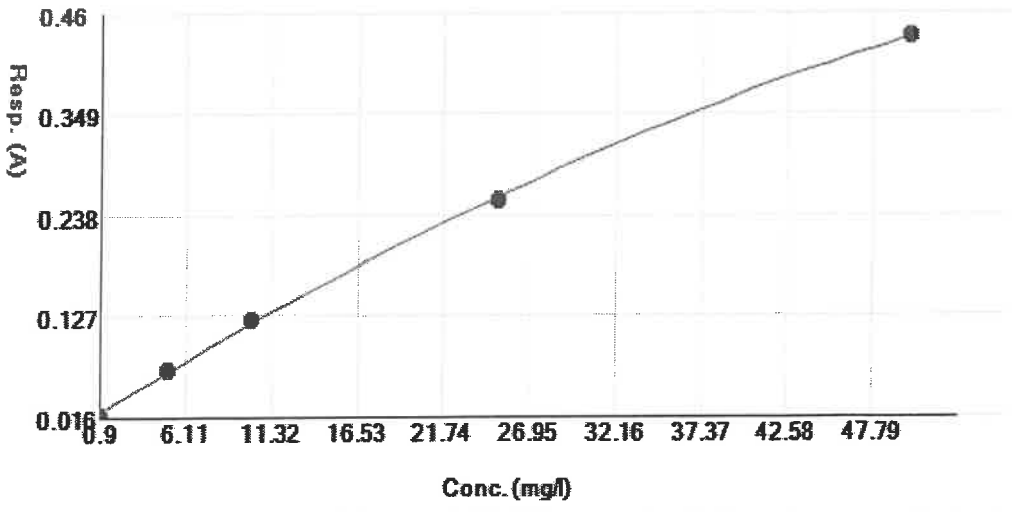
Calibration results

CL Version number 1.13

Date	12/14/2021	**User**	BufGallery1
Time	8:34:53AM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	CL	**Coeff. of deter.**	0.999537
Status	Accepted	**Total factor**	118.959
Accepted	12/13/2021 6:16 PM		
Checked	12/13/2021 6:16 PM	Zero-order factor	0.010
User name	BufGallery1	1st order factor	0.011
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
CL-50	0.018	0.683	1.000	Default	
CL-50	0.067	5.118	5.000	Default	
CL-50	0.123	10.497	10.000	Default	
CL-50	0.255	24.597	25.000	Default	
CL-50	0.434	50.115	50.000	Default	
CL CCVL	0.021	0.93	1.00	Default	QC, Outside calibration
CL-ICV	0.312	31.60	25.00	Default	QC, Rule 1 violated
ICB	0.006	-0.35	0.00	Default	QC, Outside calibration



Water blank results

Date 12/14/2021 **User** BufGallery1

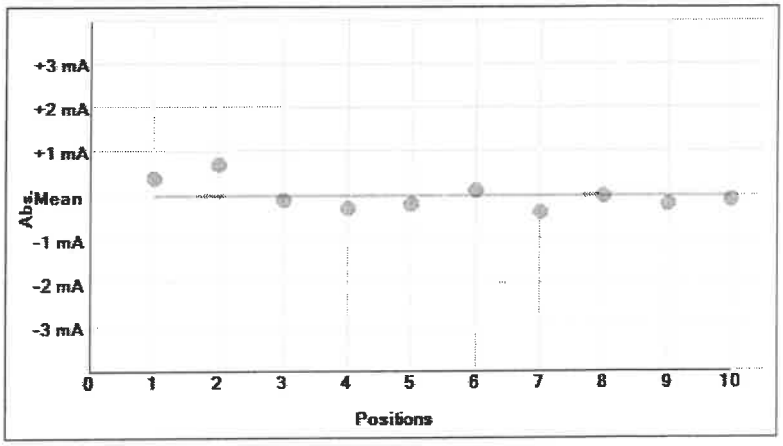
Time 8:35:10AM **Software version: 6.0.2**

Measurement time
12/13/2021 5:40 PM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1003.3**	**0.3**
420	-1036.4	0.2
480	-1046.9	0.1
510	-1050.5	0.2
540	-1054.0	0.1
575	-1057.1	0.3
600	-1058.5	0.1
620	-1060.0	0.2
660	-1062.3	0.1
700	-1063.5	0.3
880	-1046.9	0.3

340



Results by Test

Date 12/14/2021 **User** BufGallery1

Time 8:35:24AM **Software version: 6.0.2**

Test name CL

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
9	CCB	1.13	-0.28	mg/l		0.0	man acc	Outside calibration
10	CCV CL	1.13	26.05	mg/l		0.0	man acc	
11	LCS CL	1.13	26.53	mg/l		0.0	man acc	
12	MB	1.13	-0.02	mg/l		0.0	man acc	Outside calibration
13	480-192746-I-1	1.13	363.51	mg/l		9.0	man acc	
14	480-192842-L-3	1.13	24.74	mg/l		0.0	man acc	
15	ms480-192842-L-3	1.13	44.73	mg/l		0.0	man acc	
16	msd480-192842-L-3	1.13	44.06	mg/l		0.0	man acc	
19	480-193026-G-1	1.13	205.98	mg/l		4.0	man acc	
20	480-193026-G-2	1.13	308.60	mg/l		9.0	man acc	
21	CCB	1.13	-0.20	mg/l		0.0	man acc	Outside calibration
22	CCV CL	1.13	25.51	mg/l		0.0	man acc	
23	LCS CL	1.13	26.26	mg/l		0.0	man acc	
24	MB	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
25	480-193026-G-3	1.13	258.82	mg/l		9.0	man acc	
26	480-193026-G-4	1.13	244.89	mg/l		9.0	man acc	
27	480-193026-G-5	1.13	174.55	mg/l		4.0	man acc	
28	480-193033-K-1	1.13	21.42	mg/l		0.0	man acc	
29	ms480-193033-K-1	1.13	41.06	mg/l		0.0	man acc	
30	CCB	1.13	-0.23	mg/l		0.0	man acc	Outside calibration
31	CCV CL	1.13	26.18	mg/l		0.0	man acc	
32	LCS CL	1.13	26.40	mg/l		0.0	man acc	
33	MB	1.13	-0.12	mg/l		0.0	man acc	Outside calibration
34	msd480-193033-K-	1.13	40.78	mg/l		0.0	man acc	
35	480-193033-K-2	1.13	25.88	mg/l		0.0	man acc	
36	480-193034-K-1	1.13	12.17	mg/l		0.0	man acc	
37	480-193034-K-2	1.13	7.94	mg/l		0.0	man acc	
38	480-193034-K-3	1.13	17.56	mg/l		0.0	man acc	
40	480-193026-G-6	1.13	219.94	mg/l		4.0	man acc	
41	480-193027-G-1	1.13	607.49	mg/l		14.0	man acc	
42	480-193027-G-2	1.13	738.36	mg/l		14.0	man acc	
43	CCB	1.13	-0.43	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
44	CCV CL	1.13	26.03	mg/l		0.0	man acc	
45	LCS CL	1.13	26.59	mg/l		0.0	man acc	
46	MB	1.13	-0.26	mg/l		0.0	man acc	Outside calibration
47	480-193035-H-4	1.13	1.47	mg/l		0.0	man acc	
48	480-193035-F-5	1.13	1.91	mg/l		0.0	man acc	
49	480-193035-F-6	1.13	27.82	mg/l		0.0	man acc	
50	480-193035-F-7	1.13	6.86	mg/l		0.0	man acc	
51	ms480-193035-F-7	1.13	29.29	mg/l		0.0	man acc	
52	msd480-193035-F-7	1.13	28.87	mg/l		0.0	man acc	
53	CCB	1.13	-0.31	mg/l		0.0	man acc	Outside calibration
56	CCV CL	1.13	26.09	mg/l		0.0	man acc	
57	LCS CL	1.13	26.20	mg/l		0.0	man acc	
58	MB	1.13	-0.34	mg/l		0.0	man acc	Outside calibration
59	480-193035-F-8	1.13	4.30	mg/l		0.0	man acc	
61	480-193024-G-1	1.13	899.36	mg/l		19.0	man acc	
62	ms480-193035-F-8	1.13	26.11	mg/l		0.0	man acc	
63	msd480-193035-F-8	1.13	26.69	mg/l		0.0	man acc	
73	480-193099-L-7	1.13	9.41	mg/l		0.0	man acc	
83	480-193178-B-3	1.13	408.97	mg/l		9.0	man acc	
84	CCB	1.13	0.05	mg/l		0.0	man acc	Outside calibration
86	CCV CL	1.13	26.70	mg/l		0.0	man acc	
87	LCS CL	1.13	26.73	mg/l		0.0	man acc	
88	MB	1.13	-0.03	mg/l		0.0	man acc	Outside calibration
89	480-193199-G-3	1.13	181.31	mg/l		4.0	man acc	
90	ms480-193199-G-3	1.13	193.45	mg/l		4.0	man acc	
91	msd480-193199-G-3	1.13	198.20	mg/l		4.0	man acc	
92	480-193199-G-4	1.13	188.66	mg/l		4.0	man acc	
93	ms480-193199-G-4	1.13	204.57	mg/l		4.0	man acc	
94	msd480-193199-G-4	1.13	203.13	mg/l		4.0	man acc	
95	480-193021-C-3	1.13	168.61	mg/l		4.0	man acc	
96	480-193199-G-5	1.13	649.27	mg/l		14.0	man acc	
98	CCB	1.13	0.09	mg/l		0.0	man acc	Outside calibration
99	CCV CL	1.13	26.21	mg/l		0.0	man acc	
100	LCS CL	1.13	26.42	mg/l		0.0	man acc	
101	MB	1.13	-0.23	mg/l		0.0	man acc	Outside calibration
109	480-193206-K-1	1.13	1.06	mg/l		0.0	man acc	
112	480-193199-G-6	1.13	443.06	mg/l		9.0	man acc	
113	CCB	1.13	-0.34	mg/l		0.0	man acc	Outside calibration
114	CCV CL	1.13	26.00	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
115	LCS CL	1.13	26.17	mg/l		0.0	man acc	
116	MB	1.13	-0.30	mg/l		0.0	man acc	Outside calibration
117	ms480-193206-K-1	1.13	23.78	mg/l		0.0	man acc	
118	msd480-193206-K-	1.13	24.15	mg/l		0.0	man acc	
119	480-193199-G-7	1.13	888.36	mg/l		19.0	man acc	
120	480-193206-K-2	1.13	0.31	mg/l		0.0	man acc	Outside calibration
122	480-193203-G-1	1.13	1,017.89	mg/l		29.0	man acc	
123	480-193203-G-2	1.13	682.63	mg/l		14.0	man acc	
124	ms480-193206-K-2	1.13	23.52	mg/l		0.0	man acc	
125	msd480-193206-K-	1.13	23.42	mg/l		0.0	man acc	
129	CCB	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
130	CCV CL	1.13	26.13	mg/l		0.0	man acc	
131	LCS CL	1.13	26.43	mg/l		0.0	man acc	
132	MB	1.13	-0.10	mg/l		0.0	man acc	Outside calibration
133	480-193035-F-1	1.13	8.69	mg/l		0.0	man acc	
138	480-193035-F-2	1.13	56.43	mg/l		1.0	man acc	
139	480-193035-F-3	1.13	132.81	mg/l		2.0	man acc	
145	480-193206-K-8	1.13	5.68	mg/l		0.0	man acc	
148	480-193174-E-1	1.13	155.23	mg/l		4.0	man acc	
149	480-193174-E-2	1.13	196.17	mg/l		4.0	man acc	
150	CCB	1.13	-0.35	mg/l		0.0	man acc	Outside calibration
151	CCV CL	1.13	26.09	mg/l		0.0	man acc	
152	LCS CL	1.13	26.08	mg/l		0.0	man acc	
153	MB	1.13	-0.35	mg/l		0.0	man acc	Outside calibration
154	480-193206-K-9	1.13	1.57	mg/l		0.0	man acc	
155	480-193206-K-11	1.13	36.66	mg/l		0.0	man acc	
156	480-193206-K-12	1.13	9.14	mg/l		0.0	man acc	
157	480-193199-G-1	1.13	162.31	mg/l		4.0	man acc	
158	480-193199-G-2	1.13	162.77	mg/l		4.0	man acc	
159	480-193241-I-1	1.13	-0.56	mg/l		0.0	man acc	Outside calibration
160	480-193206-K-6	1.13	55.48	mg/l		1.0	man acc	
161	480-193241-I-2	1.13	22.15	mg/l		0.0	man acc	
165	CCB	1.13	-0.32	mg/l		0.0	man acc	Outside calibration
166	CCV CL	1.13	26.24	mg/l		0.0	man acc	
167	LCS CL	1.13	26.22	mg/l		0.0	man acc	
168	MB	1.13	-0.27	mg/l		0.0	man acc	Outside calibration
169	480-193241-I-6	1.13	13.60	mg/l		0.0	man acc	
170	ms480-193241-I-6	1.13	34.42	mg/l		0.0	man acc	
171	msd480-193241-I-6	1.13	33.49	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
172	480-193243-I-1	1.13	10.97	mg/l		0.0	man acc	
173	ms480-193243-I-1	1.13	32.11	mg/l		0.0	man acc	
174	msd480-193243-I-1	1.13	32.94	mg/l		0.0	man acc	
175	480-193243-I-2	1.13	25.14	mg/l		0.0	man acc	
180	480-193206-K-5	1.13	1.76	mg/l		0.0	man acc	
181	CCB	1.13	-0.05	mg/l		0.0	man acc	Outside calibration
182	CCV CL	1.13	26.64	mg/l		0.0	man acc	
184	LCS CL	1.13	26.60	mg/l		0.0	man acc	
185	MB	1.13	0.02	mg/l		0.0	man acc	Outside calibration
186	480-193206-K-7	1.13	9.53	mg/l		0.0	man acc	
187	480-193099-L-3	1.13	479.43	mg/l		9.0	man acc	
192	480-193099-L-9	1.13	486.15	mg/l		9.0	man acc	
193	480-193199-G-8	1.13	439.32	mg/l		9.0	man acc	
198	480-193264-G-5	1.13	285.41	mg/l		9.0	man acc	
199	480-193264-G-6	1.13	1,520.37	mg/l		39.0	man acc	
211	480-193099-L-6	1.13	793.61	mg/l		19.0	man acc	
213	CCB	1.13	-0.17	mg/l		0.0	man acc	Outside calibration
214	CCV CL	1.13	26.03	mg/l		0.0	man acc	
215	LCS CL	1.13	26.18	mg/l		0.0	man acc	
216	MB	1.13	-0.40	mg/l		0.0	man acc	Outside calibration
218	480-193264-G-7	1.13	484.10	mg/l		19.0	man acc	
228	480-193099-L-4	1.13	1,875.31	mg/l		49.0	man acc	
229	480-193099-L-5	1.13	1,336.34	mg/l		39.0	man acc	
231	480-193241-I-3	1.13	49.41	mg/l		0.0	man acc	
232	480-193241-I-4	1.13	32.85	mg/l		0.0	man acc	
233	480-193241-I-5	1.13	43.98	mg/l		0.0	man acc	
234	480-193264-G-1	1.13	1,565.16	mg/l		49.0	man acc	
235	CCB	1.13	-0.10	mg/l		0.0	man acc	Outside calibration
236	CCV CL	1.13	26.41	mg/l		0.0	man acc	
237	LCS CL	1.13	26.70	mg/l		0.0	man acc	
238	MB	1.13	-0.15	mg/l		0.0	man acc	Outside calibration
239	480-193264-G-2	1.13	763.46	mg/l		29.0	man acc	
240	480-193264-G-3	1.13	695.25	mg/l		29.0	man acc	
241	480-193264-G-4	1.13	4,625.24	mg/l		99.0	man acc	
246	480-193099-L-2	1.13	553.87	mg/l		19.0	man acc	
251	480-193099-L-8	1.13	4,466.01	mg/l		119.0	man acc	
256	CCB	1.13	-0.10	mg/l		0.0	man acc	Outside calibration
257	CCV CL	1.13	26.68	mg/l		0.0	man acc	
258	LCS CL	1.13	26.57	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
259	MB	1.13	-0.01	mg/l		0.0	man acc	Outside calibration
262	480-193265-G-2	1.13	909.18	mg/l		19.0	man acc	
263	480-193265-G-3	1.13	108.20	mg/l		9.0	man acc	
265	480-193265-G-5	1.13	609.50	mg/l		19.0	man acc	
266	480-193265-G-6	1.13	618.03	mg/l		19.0	man acc	
267	ms480-193265-G-6	1.13	580.47	mg/l		19.0	man acc	
272	msd480-193265-G-	1.13	628.32	mg/l		19.0	man acc	
273	480-193265-G-7	1.13	331.12	mg/l		19.0	man acc	
274	480-193265-G-8	1.13	706.67	mg/l		19.0	man acc	
275	CCB	1.13	-0.28	mg/l		0.0	man acc	Outside calibration
276	CCV CL	1.13	26.58	mg/l		0.0	man acc	
277	LCS CL	1.13	26.87	mg/l		0.0	man acc	
278	MB	1.13	0.08	mg/l		0.0	man acc	Outside calibration
285	480-193265-G-9	1.13	273.80	mg/l		9.0	man acc	
286	480-193265-G-10	1.13	596.99	mg/l		19.0	man acc	
287	ms480-193265-G-1	1.13	603.95	mg/l		19.0	man acc	
288	msd480-193265-G-	1.13	605.29	mg/l		19.0	man acc	
289	480-193265-G-11	1.13	755.46	mg/l		19.0	man acc	
306	480-193288-F-1	1.13	46,341.45	mg/l		1999.0	man acc	
307	480-193290-I-5	1.13	351.10	mg/l		14.0	man acc	
308	CCB	1.13	-0.05	mg/l		0.0	man acc	Outside calibration
309	CCV CL	1.13	26.58	mg/l		0.0	man acc	
310	LCS CL	1.13	26.96	mg/l		0.0	man acc	
311	MB	1.13	-0.10	mg/l		0.0	man acc	Outside calibration
317	480-193266-D-5	1.13	87.50	mg/l		1.0	man acc	
319	480-193290-I-7	1.13	128.62	mg/l		4.0	man acc	
320	CCB	1.13	-0.06	mg/l		0.0	man acc	Outside calibration
321	CCV CL	1.13	26.72	mg/l		0.0	man acc	
322	LCS CL	1.13	26.89	mg/l		0.0	man acc	
323	MB	1.13	-0.06	mg/l		0.0	man acc	Outside calibration
326	480-193266-D-9	1.13	81.43	mg/l		1.0	man acc	
327	480-193266-D-10	1.13	85.24	mg/l		1.0	man acc	
330	480-193266-D-11	1.13	78.99	mg/l		1.0	man acc	
333	480-193290-I-6	1.13	331.45	mg/l		9.0	man acc	
334	480-193266-D-1	1.13	121.21	mg/l		4.0	man acc	
336	480-193266-D-3	1.13	114.75	mg/l		4.0	man acc	
337	480-193266-D-4	1.13	132.91	mg/l		4.0	man acc	
338	480-193266-D-6	1.13	114.36	mg/l		4.0	man acc	
339	CCB	1.13	-0.30	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
341	CCV CL	1.13	26.44	mg/l		0.0	man acc	
342	LCS CL	1.13	26.38	mg/l		0.0	man acc	
343	MB	1.13	-0.10	mg/l		0.0	man acc	Outside calibration
344	480-193266-D-8	1.13	152.25	mg/l		4.0	man acc	
345	ms480-193266-D-1	1.13	109.74	mg/l		4.0	man acc	
346	msd480-193266-D-	1.13	109.35	mg/l		4.0	man acc	
348	CCB	1.13	-0.31	mg/l		0.0	man acc	Outside calibration
349	CCV CL	1.13	26.15	mg/l		0.0	man acc	
351	LCS CL	1.13	26.70	mg/l		0.0	man acc	
352	MB	1.13	-0.24	mg/l		0.0	man acc	Outside calibration
353	480-193306-C-1	1.13	2.92	mg/l		0.0	man acc	
354	ms480-193306-C-1	1.13	24.79	mg/l		0.0	man acc	
355	msd480-193306-C-	1.13	24.38	mg/l		0.0	man acc	
356	480-193310-G-1	1.13	7.65	mg/l		0.0	man acc	
357	480-193310-G-2	1.13	13.54	mg/l		0.0	man acc	
358	ms480-193290-I-9	1.13	199.39	mg/l		4.0	man acc	
359	480-193290-I-8	1.13	290.52	mg/l		9.0	man acc	
360	480-193310-G-3	1.13	10.45	mg/l		0.0	man acc	
361	CCB	1.13	-0.12	mg/l		0.0	man acc	Outside calibration
362	CCV CL	1.13	26.42	mg/l		0.0	man acc	
363	LCS CL	1.13	27.27	mg/l		0.0	man acc	
364	MB	1.13	-0.36	mg/l		0.0	man acc	Outside calibration
365	ms480-193290-I-8	1.13	305.74	mg/l		9.0	man acc	
366	msd480-193290-I-9	1.13	199.23	mg/l		4.0	man acc	
367	480-193310-G-4	1.13	9.24	mg/l		0.0	man acc	
368	480-193310-G-5	1.13	23.58	mg/l		0.0	man acc	
374	480-193310-G-7	1.13	31.11	mg/l		0.0	man acc	
375	480-193310-G-8	1.13	40.09	mg/l		0.0	man acc	
381	480-193266-D-2	1.13	282.87	mg/l		9.0	man acc	
382	CCB	1.13	0.06	mg/l		0.0	man acc	Outside calibration
383	CCV CL	1.13	26.67	mg/l		0.0	man acc	
384	LCS CL	1.13	26.63	mg/l		0.0	man acc	
385	MB	1.13	-0.23	mg/l		0.0	man acc	Outside calibration
388	msd480-193290-I-8	1.13	305.97	mg/l		9.0	man acc	
390	480-193323-A-1	1.13	-0.37	mg/l		0.0	man acc	Outside calibration
391	480-193323-A-2	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
392	480-193323-A-3	1.13	0.09	mg/l		0.0	man acc	Outside calibration
397	480-193332-H-1	1.13	43.68	mg/l		0.0	man acc	
398	480-193332-H-3	1.13	43.63	mg/l		0.0	man acc	

	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
399	CCB	1.13	0.10	mg/l		0.0	man acc	Outside calibration
402	CCV CL	1.13	26.70	mg/l		0.0	man acc	
403	LCS CL	1.13	26.92	mg/l		0.0	man acc	
404	MB	1.13	-0.12	mg/l		0.0	man acc	Outside calibration
405	480-193265-G-4	1.13	176.89	mg/l		9.0	man acc	
406	480-193266-D-7	1.13	131.05	mg/l		4.0	man acc	
407	480-193290-I-9	1.13	188.66	mg/l		4.0	man acc	
409	480-193331-I-1	1.13	95.29	mg/l		2.0	man acc	
410	480-193331-G-2	1.13	187.71	mg/l		4.0	man acc	
411	CCB	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
413	CCV CL	1.13	26.67	mg/l		0.0	man acc	
414	LCS CL	1.13	26.72	mg/l		0.0	man acc	
415	MB	1.13	-0.01	mg/l		0.0	man acc	Outside calibration
416	480-193335-I-1	1.13	3.35	mg/l		0.0	man acc	
417	480-193335-I-2	1.13	1.37	mg/l		0.0	man acc	
418	ms480-193335-I-2	1.13	24.08	mg/l		0.0	man acc	
425	480-193317-D-8	1.13	80.70	mg/l		1.0	man acc	
426	msd480-193335-I-2	1.13	23.92	mg/l		0.0	man acc	
427	480-193335-I-3	1.13	7.59	mg/l		0.0	man acc	
428	ms480-193335-I-3	1.13	29.16	mg/l		0.0	man acc	
429	msd480-193335-I-3	1.13	28.65	mg/l		0.0	man acc	
431	CCB	1.13	-0.14	mg/l		0.0	man acc	Outside calibration
432	CCV CL	1.13	26.90	mg/l		0.0	man acc	
433	LCS CL	1.13	26.58	mg/l		0.0	man acc	
434	MB	1.13	-0.09	mg/l		0.0	man acc	Outside calibration
435	480-193335-I-5	1.13	31.06	mg/l		0.0	man acc	
437	480-193336-Q-5	1.13	22.25	mg/l		0.0	man acc	
442	480-193337-H-1	1.13	1.98	mg/l		0.0	man acc	
443	480-193337-H-2	1.13	2.03	mg/l		0.0	man acc	
446	480-193369-K-1	1.13	35.29	mg/l		0.0	man acc	
447	480-193336-Q-2	1.13	862.13	mg/l		29.0	man acc	
448	480-193336-Q-3	1.13	537.24	mg/l		19.0	man acc	
449	480-193336-Q-6	1.13	663.97	mg/l		19.0	man acc	
450	CCB	1.13	-0.28	mg/l		0.0	man acc	Outside calibration
451	CCV CL	1.13	26.50	mg/l		0.0	man acc	
454	LCS CL	1.13	26.49	mg/l		0.0	man acc	
455	MB	1.13	-0.18	mg/l		0.0	man acc	Outside calibration
456	480-193317-D-2	1.13	109.72	mg/l		4.0	man acc	
457	480-193335-I-4	1.13	0.79	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
458	480-193317-D-3	1.13	125.11	mg/l		4.0	man acc	
459	480-193317-D-4	1.13	122.11	mg/l		4.0	man acc	
460	480-193369-K-2	1.13	19.98	mg/l		0.0	man acc	
461	CCB	1.13	-0.03	mg/l		0.0	man acc	Outside calibration
462	CCV CL	1.13	26.92	mg/l		0.0	man acc	
463	LCS CL	1.13	27.02	mg/l		0.0	man acc	
464	MB	1.13	0.01	mg/l		0.0	man acc	Outside calibration
465	480-193264-G-8	1.13	1,480.91	mg/l		39.0	man acc	
466	480-193265-G-1	1.13	101.36	mg/l		2.0	man acc	
467	480-193317-D-5	1.13	120.75	mg/l		4.0	man acc	
468	480-193317-D-6	1.13	164.96	mg/l		4.0	man acc	
469	480-193317-D-7	1.13	62.20	mg/l		1.0	man acc	
471	480-193369-K-4	1.13	4.33	mg/l		0.0	man acc	
472	480-193369-K-5	1.13	4.47	mg/l		0.0	man acc	
473	480-193336-Q-1	1.13	69.60	mg/l		1.0	man acc	
474	CCB	1.13	0.01	mg/l		0.0	man acc	Outside calibration
475	CCV CL	1.13	26.70	mg/l		0.0	man acc	
476	LCS CL	1.13	26.37	mg/l		0.0	man acc	
477	MB	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
479	CCB	1.13	-0.33	mg/l		0.0	man acc	Outside calibration
480	CCV CL	1.13	26.44	mg/l		0.0	man acc	
481	LCS CL	1.13	26.55	mg/l		0.0	man acc	
482	MB	1.13	-0.11	mg/l		0.0	man acc	Outside calibration
483	480-193310-G-6	1.13	736.57	mg/l		19.0	man acc	
484	480-193317-D-1	1.13	118.82	mg/l		4.0	man acc	
485	480-193335-I-6	1.13	8.94	mg/l		0.0	man acc	
486	480-193336-Q-7	1.13	202.22	mg/l		9.0	man acc	
487	480-193369-K-3	1.13	80.67	mg/l		1.0	man acc	
488	CCB	1.13	-0.17	mg/l		0.0	man acc	Outside calibration
489	CCV CL	1.13	26.46	mg/l		0.0	man acc	
490	LCS CL	1.13	26.54	mg/l		0.0	man acc	
491	MB	1.13	-0.34	mg/l		0.0	man acc	Outside calibration

Historical Data Summary Report

For Batch 608717

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-192746-I-1	G103	SM4500_Cl_I	Chloride, Dissolved	Dissolved	mg/L	8	10.0	364 365	☑	0 - 216.827	☑	53.44 - 241.2 OK: 608316
480-192842-L-3	G1L6	SM4500_Cl_I	Chloride, Dissolved	Dissolved	mg/L	8	1.0	24.7 24.5	☑	1.174 - 19.526	☑	4.96 - 18 OK: 608316
480-193024-G-1	20-183-2R	9251	Chloride	Total/NA	mg/L	6	20.0	899	☐	0 - 1598.949	☐	351.2 - 1380
480-193026-G-1	98-187-2	9251	Chloride	Total/NA	mg/L	8	5.0	206	☐	145.866 - 253.884	☐	135.2 - 262.8
480-193026-G-2	98-188-1	9251	Chloride	Total/NA	mg/L	8	10.0	309	☐	193.506 - 348.244	☐	184 - 372
480-193026-G-3	98-188-2	9251	Chloride	Total/NA	mg/L	8	10.0	259	☐	240.715 - 297.035	☐	202.4 - 340.8
480-193026-G-4	98-188-3	9251	Chloride	Total/NA	mg/L	8	10.0	245	☐	217.407 - 275.093	☐	184.8 - 312
480-193026-G-5	98-193-2	9251	Chloride	Total/NA	mg/L	8	5.0	175	☐	123.196 - 259.554	☐	139.2 - 297.6
480-193026-G-6	98-194-2	9251	Chloride	Total/NA	mg/L	8	5.0	220	☐	189.359 - 252.391	☐	168 - 295.2
480-193027-G-1	93-181-2	9251	Chloride	Total/NA	mg/L	8	15.0	607	☐	458.498 - 718.252	☐	437.6 - 832.8
480-193027-G-2	93-181-3	9251	Chloride	Total/NA	mg/L	8	15.0	738	☐	523.993 - 791.757	☐	468 - 892.8
480-193033-K-1	UD-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	21.4	☐	0 - 44.874	☐	7.68 - 45.24
480-193033-K-2	UD-2	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	25.9	☐	0 - 71.506	☐	11.2 - 71.76
480-193034-K-1	SW-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	12.2	☐	0 - 28.259	☐	5.2 - 24.96
480-193034-K-2	SW-2	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	7.9	☐	0.577 - 25.148	☐	5.76 - 25.8
480-193034-K-3	SW-3	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	17.6	☐	0 - 29.234	☐	5.92 - 31.2
480-193035-F-1	DO-2	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	8.7	☐	2.39 - 9.61	☐	3.92 - 9.24
480-193035-F-2	PGW-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	2.0	56.4	☐	16.116 - 74.204	☐	27.36 - 72.84
480-193035-F-3	PLT-2	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	3.0	133	☐	21.769 - 197.231	☐	45.2 - 169.2
480-193035-F-5	RE-5	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	1.9	☐	0.706 - 6.934	☐	1.84 - 6
480-193035-F-6	RE-6	SM4500_Cl_I	Chloride	Total/NA	mg/L	3	1.0	27.8	☑	12.916 - 19.284	☑	12.88 - 19.32 OK: ≤3 pts
480-193035-F-7	RE-7	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	6.9	☐	5.074 - 7.486	☐	4.64 - 8.28
480-193035-F-8	RE-8	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	4.3	☐	3.574 - 6.666	☐	3.36 - 6.84
480-193035-H-4	RE-4	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	1.5	☐	1.485 - 3.915	☑	1.76 - 3.84 OK
480-193178-B-3	R112	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	10.0	409	☐	0 - 797.611	☐	21.76 - 684
480-193199-G-1	03-197-1	9251	Chloride	Total/NA	mg/L	8	5.0	162	☐	123.237 - 188.513	☐	113.6 - 206.4
480-193199-G-2	03-197-2	9251	Chloride	Total/NA	mg/L	8	5.0	163	☐	113.998 - 174.502	☐	104 - 190.8
480-193199-G-3	03-198-1	9251	Chloride	Total/NA	mg/L	8	5.0	181	☐	134.829 - 193.421	☐	120 - 217.2
480-193199-G-4	03-198-2	9251	Chloride	Total/NA	mg/L	8	5.0	189	☐	155.642 - 230.608	☐	136.8 - 255.6
480-193199-G-5	03-199-1	9251	Chloride	Total/NA	mg/L	8	15.0	649	☐	490.599 - 772.151	☐	438.4 - 861.6
480-193199-G-6	03-199-2	9251	Chloride	Total/NA	mg/L	8	10.0	443	☐	305.599 - 504.651	☐	272 - 552
480-193199-G-7	03-200-1	9251	Chloride	Total/NA	mg/L	8	20.0	888	☐	643.162 - 948.838	☐	580.8 - 1054.8
480-193199-G-8	03-200-2	9251	Chloride	Total/NA	mg/L	8	10.0	439	☑	317.478 - 412.272	☐	267.2 - 465.6
480-193203-G-1	88-148-1	9251	Chloride	Total/NA	mg/L	8	30.0	1020	☐	848.402 - 1262.598	☐	783.2 - 1428
480-193203-G-2	96-148-2R	9251	Chloride	Total/NA	mg/L	8	15.0	683	☑	442.507 - 635.243	☐	392.8 - 704.4
480-193206-K-1	MW-11A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.1	☐	0 - 22.711	☐	0 - 24.36
480-193206-K-11	MW-18B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	36.7	☐	31.634 - 47.091	☐	28.32 - 53.04
480-193206-K-2	MW-11B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193206-K-5	MW-14A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.8	☐	0 - 36.277	☐	0.88 - 26.88

Historical Data Summary Report

For Batch 608717

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits	
480-193206-K-6	MW-14B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	2.0	55.5	☐	0 - 110.684	☐	0 - 81	
480-193206-K-7	MW-15A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	9.5	☐	7.009 - 11.016	☐	6.32 - 12.12	
480-193206-K-8	MW-15B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	5.7	☐	0 - 14.185	☐	2.16 - 12.48	
480-193206-K-9	MW-16A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.6	☐	0 - 164.574	☑	1.92 - 105.6	OK
480-193241-I-1	01FB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 23.22	☐	0 - 24.96	
480-193241-I-2	MW04	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	22.1	☐	0 - 40.303	☐	8.8 - 35.64	
480-193241-I-3	MW05	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	49.4	☑	23.109 - 46.366	☐	23.84 - 50.88	
480-193241-I-4	MW06D	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	32.8	☐	16.245 - 67.105	☐	20 - 65.04	
480-193241-I-5	MW06S	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	44.0	☐	11.181 - 47.669	☐	17.84 - 47.4	
480-193241-I-6	MW07	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	13.6	☐	4.686 - 13.664	☐	6.08 - 14.64	
480-193243-I-1	SW001	SM4500_Cl_I	Chloride	Total/NA	mg/L	6	1.0	11.0	☐	0 - 37.91	☐	6.8 - 36.48	
480-193243-I-2	SW003	SM4500_Cl_I	Chloride	Total/NA	mg/L	2	1.0	25.1	☐	19.9 - 25.9	☐	18.32 - 27.48	
480-193264-G-1	08-147-1R	9251	Chloride	Total/NA	mg/L	8	50.0	1570	☑	0 - 1484.73	☑	157.6 - 1320	OK: Dup w/8
480-193264-G-2	20-147-2R	9251	Chloride	Total/NA	mg/L	8	30.0	763	☐	0 - 3685.859	☐	115.2 - 2496	
480-193264-G-3	08-147-3	9251	Chloride	Total/NA	mg/L	8	30.0	695	☐	0 - 3261.472	☐	193.6 - 2496	
480-193264-G-4	10-152-1R	9251	Chloride	Total/NA	mg/L	8	100.0	4630	☐	0 - 6383.939	☐	333.6 - 5340	
480-193264-G-5	10-152-2R	9251	Chloride	Total/NA	mg/L	8	10.0	285	☐	84.646 - 653.854	☐	182.4 - 633.6	
480-193264-G-6	10-185-1	9251	Chloride	Total/NA	mg/L	8	40.0	1520	☐	0 - 2697.401	☐	193.6 - 2076	
480-193264-G-7	96-185-2	9251	Chloride	Total/NA	mg/L	8	20.0	484	☐	0 - 2606.935	☐	115.2 - 2184	
480-193264-G-8	DUP@08-147-1R	9251	Chloride	Total/NA	mg/L	8	40.0	1480	☑	236.35 - 500.4	☑	232.8 - 502.8	OK: Dup/1
480-193265-G-1	89-156-2	9251	Chloride	Total/NA	mg/L	8	3.0	101	☐	0 - 768.01	☑	144 - 687.6	OK
480-193265-G-10	357R	9251	Chloride	Total/NA	mg/L	8	20.0	597	☐	411.718 - 711.282	☐	374.4 - 744	
480-193265-G-11	D-19RR	9251	Chloride	Total/NA	mg/L	8	20.0	755	☐	142.715 - 958.785	☐	273.6 - 847.2	
480-193265-G-2	98-156-3	9251	Chloride	Total/NA	mg/L	8	20.0	909	☐	0 - 1378.331	☐	291.2 - 1308	
480-193265-G-3	98-186-2	9251	Chloride	Total/NA	mg/L	8	10.0	108	☐	0 - 768.01	☑	144 - 687.6	OK
480-193265-G-4	75R	9251	Chloride	Total/NA	mg/L	8	10.0	177	☐	0 - 1007.455	☐	168 - 973.2	
480-193265-G-5	76R	9251	Chloride	Total/NA	mg/L	8	20.0	609	☐	295.153 - 682.347	☐	341.6 - 771.6	
480-193265-G-6	DUP@76R	9251	Chloride	Total/NA	mg/L	1	20.0	618	☑	578 - 578	☐	462.4 - 693.6	
480-193265-G-7	94R	9251	Chloride	Total/NA	mg/L	8	20.0	331	☐	0 - 2026.03	☑	336.8 - 1980	OK
480-193265-G-8	PELA-4	9251	Chloride	Total/NA	mg/L	8	20.0	707	☐	471.358 - 827.142	☐	443.2 - 865.2	
480-193265-G-9	89-167-3	9251	Chloride	Total/NA	mg/L	8	10.0	274	☐	0 - 1554.549	☐	150.4 - 1668	
480-193288-F-1	21-08481 Acid	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	2000.0	46000	☐	0 - 110099.4	☐	14400 - 104400	
480-193290-I-5	MW-7S	9251	Chloride	Total/NA	mg/L	8	15.0	351	☐	157.217 - 765.283	☐	208.8 - 710.4	
480-193290-I-6	MW-DUP	9251	Chloride	Total/NA	mg/L	8	10.0	331	☐	0 - 606.015	☐	5.92 - 595.2	
480-193290-I-7	MW-14S	9251	Chloride	Total/NA	mg/L	8	5.0	129	☐	0 - 253.045	☐	51.68 - 229.2	
480-193290-I-8	MW-15S	9251	Chloride	Total/NA	mg/L	8	10.0	291	☐	0 - 348.929	☑	11.04 - 289.2	OK
480-193290-I-9	MW-6S2	9251	Chloride	Total/NA	mg/L	8	5.0	189	☐	126.495 - 295.255	☐	132.8 - 318	
480-193306-C-1	MH01	9251	Chloride	Total/NA	mg/L	8	1.0	2.9	☐	0 - 6.705	☐	0.8 - 5.64	
480-193331-G-2	MW-16D	9251	Chloride	Total/NA	mg/L	8	5.0	188	☐	145.022 - 269.728	☐	147.2 - 283.2	

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Historical Data Summary Report

For Batch 608717

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits	
480-193331-I-1	MW-16S	9251	Chloride	Total/NA	mg/L	8	3.0	95.3	☐	87.764 - 126.986	☐	75.2 - 139.2	
480-193332-H-1	DUP	9251	Chloride	Total/NA	mg/L	8	1.0	43.7	☐	19.99 - 60.86	☐	25.52 - 63.72	
480-193332-H-3	WS-1D	9251	Chloride	Total/NA	mg/L	8	1.0	43.6	☐	37.324 - 52.476	☐	32.8 - 58.08	
480-193335-I-1	MW-12AA	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	3.3	☐	0 - 74.601	☐	1.2 - 49.08	
480-193335-I-2	MW-12BBB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.4	☐	0 - 2.346	☐	0 - 2.52	
480-193335-I-3	MW-13A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	7.6	☐	5.148 - 11.177	☐	5.2 - 12.36	
480-193335-I-4	MW-13B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 4.017	☐	0 - 3.36	
480-193335-I-5	MW-17A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	31.1	☑	18.69 - 25.11	☑	16.16 - 28.92	RE:
480-193335-I-6	MW-17B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	8.9	☐	5.456 - 10.644	☐	4.8 - 10.56	
480-193336-Q-1	SLC-2A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	2.0	69.6	☐	0 - 511.949	☐	5.76 - 547.2	
480-193336-Q-2	PLC-2A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	30.0	862	☐	519.845 - 1521.905	☐	534.4 - 1428	
480-193336-Q-3	PLC-1B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	20.0	537	☐	471.587 - 1207.913	☐	504 - 1236	
480-193336-Q-5	SLC-1A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	22.3	☐	0 - 511.949	☐	5.76 - 547.2	
480-193336-Q-6	PLC-1A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	20.0	664	☐	447.528 - 1083.972	☐	439.2 - 1059.6	
480-193336-Q-7	LD-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	10.0	202	☐	101.979 - 413.271	☐	144 - 385.2	
480-193337-H-1	CD-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	2.0	☐	0 - 3.486	☐	0 - 2.76	
480-193337-H-2	CD-1RA	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	2.0	☐	0 - 9.206	☐	0 - 9.84	
480-193369-K-1	MW-1A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	35.3	☐	0 - 64.007	☐	2.48 - 45.24	
480-193369-K-2	MW-2A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	20.0	☐	5.809 - 27.766	☐	8.96 - 26.88	
480-193369-K-3	MW-2B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	2.0	80.7	☐	0 - 149.414	☐	12.24 - 105.6	
480-193369-K-4	MW-1B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	4.3	☐	0 - 38.448	☐	2.48 - 40.8	
480-193369-K-5	DUP MW-1B	SM4500_Cl_I	Chloride	Total/NA	mg/L	1	1.0	4.5	☑	8.2 - 8.2	☑	6.56 - 9.84	OK: ≤ 3pts

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12/27/2021

Eurofins TestAmerica Buffalo
BOD Documentation for BOD
Logbook # A21-19

BOD #	Rerun 2
Batch #	~~608493~~ 608499
Analyst	RM 12/11/21
Date & Time run set up	
Initial DO Air Calibration Barometer ID	973.3 @ 23.7°C 8.44 → 8.11 SN 19270711
Date & Time of read	12/11/21 11:10
Final DO Air Calibration Barometer ID	987.9 @ 23.8 8.42 → 8.22 SN 19270711
pH check of samples (6.0-8.0)	✓ See Rerun Sheet
Residual Chlorine check of samples	✓
Temperature Check of samples * (20+/- 3°C)	Measured Temperature= ✓ *Corrected Temperature= (after Correction factor has been applied)
Temperature Check of Dilution Water * (20+/- 3°C)	Measured Temperature= Carboy 6 @ 22.1 °C *Corrected Temperature= (after Correction factor has been applied)
Solutions	**BOD SEED:** 656163 **CBOD SEED:** —
	GLUCOSE: 664633 **GLUTAMIC ACID:**
	H2SO4: — **NaOH:** —
	Sodium Sulfite: —
	CARBOY NUTIENT BUFFER PILLOWS: 6614223
	BOD BOTTLE NUTRIENT BUFFER PILLOWS:
Check, MS, MSD CONCENTRATION:	**ACTUAL VALUE:** 198 mg/L **RANGE:** 187.5 – 228.5 mg/l
Incubator # 4	**GGA:** **GLUCOSE:** 0.1503 **GLUTAMIC ACID:** 0.1506

Reviewed by: RM **Date:** 12/16/21

161/200

Intials Operator:

Finals Operator:

PC-BOD Post Run Final Report

Flag Definitions

SR Standard - Outside of range
SAR Standard average out of range

bSS Blank supersaturated
bDe Blank - Depletion

cD Seed - Depletion
cF Seed - Final DO
cR Seed - Range
kD Spike - Depletion
kF Spike - Final DO
kR Spike - Range

sD
sF Sample Limit - Depletion
Sample Limit - Final DO

gF
gD Group Failure - Final DO
gT Group Failure - Depletion
Group Failure - Toxicity

In+
In-
iT
fT

Run Number: 10354
OrderNumber: PC_BOD_20211211-3
Start Time: 4:26 PM
Start Date: 12/11/2021
Finish Time: 11:10 AM
Finish Date: 12/16/2021

BOD Seed Correction: (per ml of seed) .13
CBOD Seed Correction: (per ml of seed) .00
BOD Blank Average Depletion: -.28
CBOD Blank Average Depletion: .00
Correction Factor: 1.00

Reading
96.20

Readingfinal
96.20

AtmoPressure
731.00

AtmosUnits
mmHg

AtmoPressurefinal
731.00

AtmosUnitsfinal
mmHg

Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
1	Rinse		1.00	.00	.00	7.17	22.30	5.99	19.70	1.18	< .00	.00	sD
2	Rinse		1.00	.00	.00	7.17	21.90	7.19	19.60	-.02	< .00	.00	sD
3	Rinse		1.00	.00	.00	7.07	21.50	4.55	19.60	2.52	.00	.00	
4	Rinse		1.00	.00	.00	7.10	21.40	7.45	19.70	-.35	< .00	.00	sD
5	Blank		1.00	.00	.00	7.06	21.60	7.34	19.60	-.28	.00	.00	
6	Seed		1.00	.00	20.00	7.24	21.80	4.52	20.70	2.72	.00	.00	
7	Seed		1.00	.00	20.00	7.26	21.80	4.32	19.70	2.94	.00	.00	
8	Seed		1.00	.00	20.00	7.16	21.60	4.84	19.70	2.32	.00	.00	
9	Check		1.00	6.00	4.00	7.31	21.80	3.38	19.80	3.93	169.90	.00	
10	Check		1.00	6.00	4.00	7.07	21.40	3.06	19.60	4.01	173.90	.00	
11	Check		1.00	6.00	4.00	7.08	21.30	2.85	19.60	4.23	184.90	176.23	
12	193336-C-1		1.00	300.00	4.00	7.03	20.00	6.25	19.70	.78	< .25	.00	sD
13	193336-C-1		1.00	200.00	4.00	7.02	20.60	6.67	19.80	.35	< -.27	.00	sD

Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
14	193336-C-1		1.00	100.00	4.00	7.40	20.90	7.22	19.70	.18	< -1.06	.00	sD
15	193336-C-1		1.00	50.00	4.00	7.07	20.90	6.75	19.70	.32	< -1.27	.00	sD
16	193336-C-1		1.00	25.00	4.00	7.08	21.10	6.97	19.70	.11	< -5.06	< .25	sDgDgT
17	193336-C-2		1.00	100.00	4.00	7.09	20.70	.16	19.90	6.93	> 19.19	.00	sF
18	193336-C-2		1.00	50.00	4.00	7.10	20.90	.29	19.50	6.81	> 37.67	.00	sF
19	193336-C-2		1.00	25.00	4.00	7.11	21.10	3.87	19.70	3.24	32.50	.00	
20	193336-C-2		1.00	10.00	4.00	7.11	21.20	6.22	19.80	.89	< 10.74	.00	sD
21	193336-C-2		1.00	5.00	4.00	7.09	21.30	6.55	20.00	.54	< .48	.00	sD
22	193336-C-2		1.00	3.00	4.00	7.09	21.30	6.80	19.90	.29	< -24.20	32.50	sDgT
23	193336-C-3		1.00	300.00	4.00	7.51	21.50	.18	20.90	7.33	> 6.80	.00	sF
24	193336-C-3		1.00	200.00	4.00	7.17	20.80	.13	20.70	7.04	> 9.76	.00	sF
1	193336-C-3		1.00	100.00	4.00	7.46	21.80	1.91	21.70	5.55	15.05	.00	
2	193336-C-3		1.00	50.00	4.00	7.53	21.90	3.65	20.00	3.88	20.09	.00	
3	193336-C-3		1.00	25.00	4.00	7.10	21.60	6.15	19.80	.95	< 5.02	17.57	sDgT
4	193334-A-1		1.00	300.00	4.00	7.46	21.70	.18	19.90	7.28	> 6.75	.00	sF
5	193334-A-1		1.00	200.00	4.00	7.01	21.60	.09	19.60	6.92	> 9.58	.00	sF
6	193334-A-1		1.00	100.00	4.00	7.23	21.00	.12	19.20	7.11	> 19.73	.00	sF
7	193334-A-1		1.00	50.00	4.00	7.42	21.00	.07	19.60	7.35	> 40.91	> 40.91	sFgFgT
8	193335-A-1		1.00	300.00	4.00	7.71	20.20	6.92	19.80	.79	< .26	.00	sD
9	193335-A-1		1.00	200.00	4.00	7.04	19.90	6.20	19.70	.84	< .46	.00	sD
10	193335-A-1		1.00	100.00	4.00	7.05	20.40	6.98	19.60	.07	< -1.39	< .26	sDgDgT
11	193334-A-2		1.00	300.00	4.00	7.04	18.50	6.45	19.60	.59	< .06	.00	sD
12	193334-A-2		1.00	200.00	4.00	7.12	19.50	6.07	19.40	1.05	< .78	.00	sD
13	193334-A-2		1.00	100.00	4.00	7.05	20.60	6.41	19.80	.64	< .32	< .06	sDgDgT
14	193334-A-3		1.00	300.00	4.00	7.32	18.50	6.58	19.70	.74	< .21	.00	sD
15	193334-A-3		1.00	200.00	4.00	7.30	19.20	6.70	19.60	.60	< .10	.00	sD
16	193334-A-3		1.00	100.00	4.00	7.16	20.40	6.61	19.70	.55	< .05	< .21	sDgDgT

2.70

32.50/12

5.016/3

AMS 12-17-21

17.57/3 = 5.856

Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
17	193334-A-4		1.00	300.00	4.00	7.53	21.70	6.08	21.00	1.45	< .92	.00	sD
18	193334-A-4		1.00	200.00	4.00	7.56	20.10	5.12	19.70	2.44	2.86/ 1.5	.00 1.96	
19	193334-A-4		1.00	100.00	4.00	7.33	20.50	6.21	19.60	1.12	< 1.76	2.86	sDgT
20	193334-A-5		1.00	300.00	4.00	7.77	19.00	7.05	19.80	.72	< .19	.00	sD
21	193334-A-5		1.00	200.00	4.00	7.44	20.20	6.68	19.90	.76	< .34	.00	sD
22	193334-A-5		1.00	100.00	4.00	7.20	20.70	7.00	19.80	.20	< -1.00	< .19	sDgDgT
23	193334-A-6		1.00	300.00	4.00	7.15	20.00	6.91	19.90	.24	< -.29	.00	sD
24	193334-A-6		1.00	200.00	4.00	7.05	20.30	6.71	19.80	.34	< -.29	.00	sD
1	193334-A-6		1.00	100.00	4.00	7.22	21.30	6.29	19.60	.93	< 1.19	< .00	sDgDgT
2	193337-A-1		1.00	300.00	4.00	7.23	21.30	6.55	19.40	.68	< .15	.00	sD
3	193337-A-1		1.00	200.00	4.00	7.20	21.30	7.09	19.30	.11	< -.63	.00	sD
4	193337-A-1		1.00	100.00	4.00	7.05	21.70	6.33	19.30	.72	< .56	< .15	sDgDgT
5	193337-A-2		1.00	300.00	.00	7.37	21.40	6.66	19.40	.71	< .71	.00	sD
6	193337-A-2		1.00	200.00	4.00	7.44	21.20	7.19	19.10	.25	< -.42	.00	sD
7	193337-A-2		1.00	100.00	4.00	7.19	21.50	6.99	19.30	.20	< -1.00	< .71	sDgDgT

Operator:

Test America Buffalo
PC-BOD Initial Report

Start Date: 12/11/2021

Start Time: 4:26 PM

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
1	1	Rinse		1.00	.00	.00	.00	7.17	22.30
1	2	Rinse		1.00	.00	.00	.00	7.17	21.90
1	3	Rinse		1.00	.00	.00	.00	7.07	21.50
1	4	Rinse		1.00	.00	.00	.00	7.10	21.40
1	5	Blank		1.00	.00	.00	.00	7.06	21.60
1	6	Seed		1.00	.00	20.00	.00	7.24	21.80
1	7	Seed		1.00	.00	20.00	.00	7.26	21.80
1	8	Seed		1.00	.00	20.00	.00	7.16	21.60
1	9	Check		1.00	6.00	4.00	.00	7.31	21.80
1	10	Check		1.00	6.00	4.00	.00	7.07	21.40
1	11	Check		1.00	6.00	4.00	.00	7.08	21.30
1	12	193336-C-1		1.00	300.00	4.00	.00	7.03	20.00
1	13	193336-C-1		1.00	200.00	4.00	.00	7.02	20.60
1	14	193336-C-1		1.00	100.00	4.00	.00	7.40	20.90
1	15	193336-C-1		1.00	50.00	4.00	.00	7.07	20.90
1	16	193336-C-1		1.00	25.00	4.00	.00	7.08	21.10
1	17	193336-C-2		1.00	100.00	4.00	.00	7.09	20.70
1	18	193336-C-2		1.00	50.00	4.00	.00	7.10	20.90
1	19	193336-C-2		1.00	25.00	4.00	.00	7.11	21.10
1	20	193336-C-2		1.00	10.00	4.00	.00	7.11	21.20
1	21	193336-C-2		1.00	5.00	4.00	.00	7.09	21.30

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
1	22	193336-C-2		1.00	3.00	4.00	.00	7.09	21.30
1	23	193336-C-3		1.00	300.00	4.00	.00	7.51	21.50
1	24	193336-C-3		1.00	200.00	4.00	.00	7.17	20.80
2	1	193336-C-3		1.00	100.00	4.00	.00	7.46	21.80
2	2	193336-C-3		1.00	50.00	4.00	.00	7.53	21.90
2	3	193336-C-3		1.00	25.00	4.00	.00	7.10	21.60
2	4	193334-A-1		1.00	300.00	4.00	.00	7.46	21.70
2	5	193334-A-1		1.00	200.00	4.00	.00	7.01	21.60
2	6	193334-A-1		1.00	100.00	4.00	.00	7.23	21.00
2	7	193334-A-1		1.00	50.00	4.00	.00	7.42	21.00
2	8	193335-A-1		1.00	300.00	4.00	.00	7.71	20.20
2	9	193335-A-1		1.00	200.00	4.00	.00	7.04	19.90
2	10	193335-A-1		1.00	100.00	4.00	.00	7.05	20.40
2	11	193334-A-2		1.00	300.00	4.00	.00	7.04	18.50
2	12	193334-A-2		1.00	200.00	4.00	.00	7.12	19.50
2	13	193334-A-2		1.00	100.00	4.00	.00	7.05	20.60
2	14	193334-A-3		1.00	300.00	4.00	.00	7.32	18.50
2	15	193334-A-3		1.00	200.00	4.00	.00	7.30	19.20
2	16	193334-A-3		1.00	100.00	4.00	.00	7.16	20.40
2	17	193334-A-4		1.00	300.00	4.00	.00	7.53	21.70
2	18	193334-A-4		1.00	200.00	4.00	.00	7.56	20.10
2	19	193334-A-4		1.00	100.00	4.00	.00	7.33	20.50
2	20	193334-A-5		1.00	300.00	4.00	.00	7.77	19.00
2	21	193334-A-5		1.00	200.00	4.00	.00	7.44	20.20
2	22	193334-A-5		1.00	100.00	4.00	.00	7.20	20.70

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
2	23	193334-A-6		1.00	300.00	4.00	.00	7.15	20.00
2	24	193334-A-6		1.00	200.00	4.00	.00	7.05	20.30
3	1	193334-A-6		1.00	100.00	4.00	.00	7.22	21.30
3	2	193337-A-1		1.00	300.00	4.00	.00	7.23	21.30
3	3	193337-A-1		1.00	200.00	4.00	.00	7.20	21.30
3	4	193337-A-1		1.00	100.00	4.00	.00	7.05	21.70
3	5	193337-A-2		1.00	300.00	.00	.00	7.37	21.40
3	6	193337-A-2		1.00	200.00	4.00	.00	7.44	21.20
3	7	193337-A-2		1.00	100.00	4.00	.00	7.19	21.50

Historical Data Summary Report

For Batch 608499

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193334-A-1	WMNMH1	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	123	☑	0 - 77.001	☑	10.8 - 79.56
480-193335-A-1	MW-12AA	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-A-2	MW-12BBB	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 4.692	☐	0 - 5.04
480-193335-A-3	MW-13A	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 3.685	☐	0 - 3.24
480-193335-A-4	MW-13B	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 15.769	☐	0 - 15.72
480-193335-A-5	MW-17A	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-A-6	MW-17B	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.346	☐	0 - 2.52
480-193336-C-1	SLC-2A	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 88.264	☐	0 - 81.6
480-193336-C-2	PLC-2A	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	32.4	☐	0 - 317.085	☐	31.44 - 339.6
480-193336-C-3	PLC-1B	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	15.0	☐	10.662 - 74.988	☑	18.32 - 66.72
480-193337-A-1	CD-1	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193337-A-2	CD-1RA	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0

BOD BENCH SHEET

BATCH # 608498

ANALYST: RM
DATE: 12/11/21

SAMPLE ID	SAMPLE TEMP	SAMPLE pH	DILUTION FACTOR	SAMPLE RANGE	BOTTLE NUMBERS	CHLORINE
193336 B1	19.1	6.47	1x	300-25	12-16	NA
B2	19.2	7.42	1x	100-3	17-22	
B3	19.2	6.99	1x	300-26	23-27	
193334 A1	20.1	7.44	1x	300-50	28-31	
193335 A1	20.2	7.56	1x	300-100	32-34	
A2	19.3	7.44	1x	300-100	35-37	
A3	19.6	7.43	1x	300-100	38-40	
A4	19.6	6.71	1x	300-100	41-43	
A5	19.9	7.96	1x	300-100	44-46	
A6	20.4	7.66	1x	300-100	47-49	
193337 A1	20.4	7.64	1x	300-100	50-52	
A2	19.8	7.54	1x	300-100	53-55	

RM 12/11/21

TOC Wheel Worksheet

BATCH # 608965 / 608987
Instrument # A
SRF # 57496

Method 5310
File Name 20211214A

	Sample ID	Dil	pH	Comment
1	Rinse			
2	CCV			
3	CCB			
4	MB			
5	LCS			
6	193335-P-1			
7	-Q-1 MS			
8	-Q-1 MSD			> SPLIT
9	193335-P-2			
10	-Q-2 INF			
11	-P-3			
12	P-4			
13	P-5			
14	CCV			
15	CCB			
16	193335-P-6			
17	193181-G-3	10X		4 mL > 40 mL
18	193336-Y-1			
19	Y-2	4X		10 mL > 40 mL
20	Y-3	4X		
21	Y-5	4X		
22	Y-6	4X		
23	Y-7			
24	193337-Q-1			
25	-Q-2			
26	CCV			
27	CCB			
28	MB			
29	LCS			
30	193369-P-1			
31	Q-1 MS			
32	Q-1 MSD			
33	P-2			
34	P-3			
35	P-4			
36	P-5			
37	193194-H-2			
38	CCV			
39	CCB			
40	193194-H-3			
41	H-4			
42	H-5			
43	H-6			
44	H-7			
45	H-8			
46	H-9			

	Sample ID	Dil	pH	Comment
47	193194-H-10			
48	H-12			
49	193195-F-1			
50	CCV			
51	CCB			
52	MB			
53	LCS			
54	193195-H-2			
55	I-2 MS			> SPLIT
56	I-2 MSD			
57	193388-G-1	8		5mL → 40mL
58	180-130740-F-1			
59	F-2			
60	F-3			
61	F-4			
62	CCV			
63	CCB			
64	180-130740-F-5			
65	F-6			
66	F-7			
67	193245-E-1			
68	E-2			
69	E-3			
70				
71				
72				
73				
74	CCV			
75	CCB			
76	MB			
77	LCS			
78				
79				
80				
81				
82				
83				
84				
85				
86	CCV			
87	CCB			

Date 12/14/21

Analyst JV

TIC 6503246

MS 6783095

CCV 6809848

LCS 6809849

All pH <2 JV

pipette (1000 uL) M43072G

acid 6775594

sodium persulfate 6783193

phosphoric acid 6792760

BF-WC-TOCWW-016 Rev.1 8/7/2019

User ID:toc Name:Total Organic Carbon
Title:Mr Dept:OIC-TOC

Calibration - Quick View -TOC

Revision: 1-20211122cal - Nov 22, 2021; 12-33-57 PM
Modified By: toc
Date Created: 2021/11/22; 12:33 PM
Last Modified: 2021/11/22; 03:24 PM
Last Calibrated: 2021/11/22; 03:11 PM

RF(ugC/k-cnt): 0.3748
R2: 0.9988
Reagent Blank(cts): 1,449
Offset Area(cts): 2,403
Offset Mass(ugC): -0.90

0-450 ppm cf 0.483 MDL

Std #	Conc (PPM)	Volume (mL)	# Reps	Area	Std. Dev	%RSD	Date Analysed
RW	0.000	2.000	2	2,352	44	1.87	2021-11-22; 01:34PM
1	1.000	2.000	2	8,710	262	3.01	2021-11-22; 01:49PM
2	2.000	2.000	2	14,357	265	1.85	2021-11-22; 02:04PM
3	5.000	2.000	2	30,522	230	0.75	2021-11-22; 02:19PM
4	10.000	2.000	2	58,431	1,051	1.80	2021-11-22; 02:35PM
5	50.000	2.000	2	275,256	32	0.01	2021-11-22; 02:50PM
6	100.000	2.000	2	525,050	17,144	3.27	2021-11-22; 03:05PM

ICV
ICB > in batch 606308

stds 6747760

$(NaSO_4)_2$ 6737363

H_3PO_4 6691875

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
2	Rinse	12/14/2021 4:08:33PM	1	2201	0.000	0.000
		12/14/2021 4:13:56PM	2	2069	0.000	0.000
			Avg	2135	0.000	0.000
			Std. Dev	94		
			%RSD	4.38		
3	CCV	12/14/2021 4:23:11PM	1	344445	128.205	64.103
		12/14/2021 4:28:59PM	2	335080	124.695	62.347
			Avg	339762	126.450	63.225
			Std. Dev	6622		
			%RSD	1.95		
4	CCB	12/14/2021 4:38:45PM	1	2543	0.052	0.026
		12/14/2021 4:44:38PM	2	2840	0.164	0.082
			Avg	2691	0.110	0.054
			Std. Dev	210		
			%RSD	7.82		
5	MB	12/14/2021 4:53:24PM	1	1693	0.000	0.000
		12/14/2021 4:59:52PM	2	2187	0.000	0.000
			Avg	1940	0.000	0.000
			Std. Dev	349		
			%RSD	18.01		
6	LCS	12/14/2021 5:09:02PM	1	335182	124.733	62.366
		12/14/2021 5:14:46PM	2	344495	128.224	64.112
			Avg	339838	126.480	63.239
			Std. Dev	6585		
			%RSD	1.94		
7	480-193335-P-1	12/14/2021 5:24:04PM	1	4753	0.881	0.440
		12/14/2021 5:30:26PM	2	5818	1.280	0.640
			Avg	5285	1.080	0.540
			Std. Dev	753		
			%RSD	14.25		
8	480-193335-Q-1 ms	12/14/2021 5:39:07PM	1	152053	56.092	28.046
		12/14/2021 5:45:01PM	2	155620	57.429	28.715
			Avg	153837	56.760	28.381
			Std. Dev	2522		
			%RSD	1.64		
9	480-193335-Q-1 msd	12/14/2021 5:54:22PM	1	154154	56.880	28.440
		12/14/2021 6:00:14PM	2	156301	57.684	28.842
			Avg	155228	57.280	28.641
			Std. Dev	1518		
			%RSD	0.98		
10	480-193335-P-2	12/14/2021 6:09:45PM	1	4646	0.841	0.420
		12/14/2021 6:16:09PM	2	5438	1.138	0.569

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	5042	0.990	0.495
			Std. Dev	560		
			%RSD	11.11		
11	480-193335-Q-2 inf	12/14/2021 6:24:53PM	1	5539	1.175	0.588
		12/14/2021 6:30:55PM	2	6037	1.362	0.681
			Avg	5788	1.270	0.635
			Std. Dev	352		
			%RSD	6.08		
12	480-193335-P-3	12/14/2021 6:40:06PM	1	4902	0.937	0.468
		12/14/2021 6:46:43PM	2	5241	1.064	0.532
			Avg	5072	1.000	0.500
			Std. Dev	240		
			%RSD	4.73		
13	480-193335-P-4	12/14/2021 6:55:27PM	1	31179	10.786	5.393
		12/14/2021 7:01:23PM	2	32561	11.304	5.651
			Avg	31870	11.040	5.522
			Std. Dev	977		
			%RSD	3.07		
14	480-193335-P-5	12/14/2021 7:11:25PM	1	5077	1.002	0.501
		12/14/2021 7:17:04PM	2	5850	1.292	0.645
			Avg	5464	1.150	0.573
			Std. Dev	546		
			%RSD	10.00		
15	CCV	12/14/2021 7:26:34PM	1	334976	124.656	62.328
		12/14/2021 7:32:15PM	2	338501	125.977	62.989
			Avg	336738	125.320	62.659
			Std. Dev	2493		
			%RSD	0.74		
16	CCB	12/14/2021 7:42:05PM	1	2298	0.000	0.000
		12/14/2021 7:47:57PM	2	3192	0.296	0.148
			Avg	2745	0.150	0.074
			Std. Dev	632		
			%RSD	23.03		
17	480-193335-P-6	12/14/2021 7:56:55PM	1	3586	0.444	0.222
		12/14/2021 8:03:12PM	2	4455	0.769	0.385
			Avg	4020	0.610	0.304
			Std. Dev	614		
			%RSD	15.27		
18	480-193131-G-3^10	12/14/2021 8:12:13PM	1	160531	59.270	29.635
		12/14/2021 8:18:08PM	2	163259	60.292	30.146
			Avg	161895	59.780	29.891
			Std. Dev	1929		
			%RSD	1.19		

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
19	480-193336-Y-1	12/14/2021 8:27:20PM	1	57208	20.542	10.271
		12/14/2021 8:33:19PM	2	60871	21.915	10.958
			Avg	59040	21.230	10.615
			Std. Dev	2590		
			%RSD	4.39		
20	480-193336-Y-2 ^4	12/14/2021 8:43:13PM	1	289371	107.562	53.780
		12/14/2021 8:49:05PM	2	289220	107.505	53.753
			Avg	289295	107.530	53.766
			Std. Dev	107		
			%RSD	0.04		
21	480-193336-Y-3^4	12/14/2021 8:58:31PM	1	133501	49.138	24.569
		12/14/2021 9:04:25PM	2	139434	51.362	25.681
			Avg	136467	50.250	25.125
			Std. Dev	4195		
			%RSD	3.07		
22	480-193336-Y-5^4	12/14/2021 9:13:50PM	1	14178	4.413	2.207
		12/14/2021 9:19:44PM	2	14569	4.560	2.279
			Avg	14373	4.490	2.243
			Std. Dev	276		
			%RSD	1.92		
23	480-193336-Y-6^4	12/14/2021 9:29:11PM	1	191665	70.940	35.470
		12/14/2021 9:35:03PM	2	193142	71.493	35.747
			Avg	192404	71.220	35.608
			Std. Dev	1044		
			%RSD	0.54		
24	480-193336-Y-7	12/14/2021 9:44:26PM	1	32280	11.199	5.599
		12/14/2021 9:50:04PM	2	32401	11.244	5.622
			Avg	32341	11.220	5.610
			Std. Dev	86		
			%RSD	0.26		
25	480-193337-Q-1	12/14/2021 9:59:51PM	1	5006	0.976	0.488
		12/14/2021 10:05:44PI	2	5154	1.031	0.516
			Avg	5080	1.000	0.502
			Std. Dev	104		
			%RSD	2.06		
26	480-193337-Q-2	12/14/2021 10:15:11PI	1	4927	0.946	0.473
		12/14/2021 10:21:07PI	2	5149	1.029	0.515
			Avg	5038	0.990	0.494
			Std. Dev	157		
			%RSD	3.12		
27	CCV	12/14/2021 10:30:16PI	1	337676	125.668	62.834
		12/14/2021 10:36:01PI	2	345399	128.563	64.281

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	341537	127.120	63.558
			Std. Dev	5461		
			%RSD	1.60		
28	CCB	12/14/2021 10:45:46PI	1	2712	0.116	0.058
		12/14/2021 10:51:40PI	2	2871	0.175	0.088
			Avg	2791	0.150	0.073
			Std. Dev	113		
			%RSD	4.03		
29	MB	12/14/2021 11:01:07PI	1	2328	0.000	0.000
		12/14/2021 11:06:58PI	2	2399	0.000	0.000
			Avg	2363	0.000	0.000
			Std. Dev	50		
			%RSD	2.12		
30	LCS	12/14/2021 11:16:12PI	1	334593	124.512	62.256
		12/14/2021 11:22:05PI	2	347864	129.486	64.743
			Avg	341229	127.000	63.499
			Std. Dev	9384		
			%RSD	2.75		
31	480-193369-P-1	12/14/2021 11:31:45PI	1	5124	1.020	0.510
		12/14/2021 11:37:37PI	2	5720	1.243	0.622
			Avg	5422	1.130	0.566
			Std. Dev	422		
			%RSD	7.78		
32	480-193369-Q-1 ms	12/14/2021 11:46:24PI	1	149852	55.267	27.634
		12/14/2021 11:52:20PI	2	153040	56.462	28.231
			Avg	151446	55.860	27.933
			Std. Dev	2254		
			%RSD	1.49		
33	480-193369-Q-1 msd	12/15/2021 12:01:47AI	1	148521	54.768	27.384
		12/15/2021 12:07:39AI	2	151644	55.939	27.969
			Avg	150082	55.350	27.677
			Std. Dev	2208		
			%RSD	1.47		
34	480-193369-P-2	12/15/2021 12:17:04AI	1	42058	14.864	7.432
		12/15/2021 12:23:02AI	2	42646	15.084	7.542
			Avg	42352	14.970	7.487
			Std. Dev	415		
			%RSD	0.98		
35	480-193369-P-3	12/15/2021 12:32:28AI	1	26189	8.916	4.458
		12/15/2021 12:38:15AI	2	27810	9.523	4.762
			Avg	26999	9.220	4.610
			Std. Dev	1146		
			%RSD	4.24		

Instrument ID: A547730578 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
36	480-193369-P-4	12/15/2021 12:47:38AM	1	3530	0.422	0.211
		12/15/2021 12:54:04AM	2	3550	0.430	0.215
			Avg	3540	0.430	0.213
			Std. Dev	15		
			%RSD	0.41		
37	480-193369-P-5	12/15/2021 1:02:56AM	1	3299	0.336	0.167
		12/15/2021 1:09:13AM	2	3978	0.590	0.295
			Avg	3639	0.460	0.231
			Std. Dev	480		
			%RSD	13.20		
38	480-193194-H-2	12/15/2021 1:18:27AM	1	11242	3.313	1.657
		12/15/2021 1:24:47AM	2	11933	3.572	1.786
			Avg	11587	3.440	1.722
			Std. Dev	489		
			%RSD	4.22		
39	CCV	12/15/2021 1:34:11AM	1	333406	124.067	62.034
		12/15/2021 1:39:55AM	2	348500	129.725	64.862
			Avg	340953	126.900	63.448
			Std. Dev	10673		
			%RSD	3.13		
40	CCB	12/15/2021 1:49:48AM	1	2621	0.082	0.041
		12/15/2021 1:55:40AM	2	2664	0.098	0.049
			Avg	2643	0.090	0.045
			Std. Dev	30		
			%RSD	1.14		
41	480-193194-H-3	12/15/2021 2:04:35AM	1	13625	4.206	2.103
		12/15/2021 2:10:38AM	2	15006	4.724	2.361
			Avg	14316	4.470	2.232
			Std. Dev	977		
			%RSD	6.82		
42	480-193194-H-4	12/15/2021 2:19:40AM	1	16461	5.269	2.635
		12/15/2021 2:25:40AM	2	17745	5.751	2.875
			Avg	17103	5.510	2.755
			Std. Dev	908		
			%RSD	5.31		
43	480-193194-H-5	12/15/2021 2:35:03AM	1	30009	10.347	5.174
		12/15/2021 2:40:58AM	2	31166	10.781	5.391
			Avg	30588	10.560	5.283
			Std. Dev	819		
			%RSD	2.68		
44	480-193194-H-6	12/15/2021 2:50:21AM	1	30248	10.437	5.218
		12/15/2021 2:56:18AM	2	30823	10.652	5.326

Instrument ID: A547730578 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	30535	10.540	5.272
			Std. Dev	407		
			%RSD	1.33		
45	480-193194-H-7	12/15/2021 3:05:53AM	1	28558	9.804	4.902
		12/15/2021 3:11:44AM	2	29676	10.222	5.111
			Avg	29117	10.010	5.006
			Std. Dev	790		
			%RSD	2.71		
46	480-193194-H-8	12/15/2021 3:21:13AM	1	29448	10.137	5.069
		12/15/2021 3:27:09AM	2	29792	10.266	5.133
			Avg	29620	10.200	5.101
			Std. Dev	243		
			%RSD	0.82		
47	480-193194-H-9	12/15/2021 3:36:29AM	1	32808	11.396	5.698
		12/15/2021 3:42:22AM	2	34396	11.992	5.996
			Avg	33602	11.690	5.847
			Std. Dev	1123		
			%RSD	3.34		
48	480-193194-H-10	12/15/2021 3:51:48AM	1	30952	10.701	5.350
		12/15/2021 3:57:44AM	2	32153	11.151	5.576
			Avg	31553	10.930	5.463
			Std. Dev	849		
			%RSD	2.69		
49	480-193194-H-12	12/15/2021 4:07:08AM	1	17031	5.483	2.741
		12/15/2021 4:12:57AM	2	17698	5.733	2.867
			Avg	17364	5.610	2.804
			Std. Dev	472		
			%RSD	2.72		
50	480-193195-I-1	12/15/2021 4:22:20AM	1	17024	5.480	2.740
		12/15/2021 4:28:20AM	2	18990	6.217	3.109
			Avg	18007	5.850	2.924
			Std. Dev	1390		
			%RSD	7.72		
51	CCV	12/15/2021 4:38:09AM	1	340523	126.735	63.367
		12/15/2021 4:43:56AM	2	340062	126.562	63.280
			Avg	340292	126.650	63.324
			Std. Dev	326		
			%RSD	0.10		
52	CCB	12/15/2021 4:53:43AM	1	2448	0.017	0.008
		12/15/2021 4:59:36AM	2	2533	0.049	0.024
			Avg	2491	0.030	0.016
			Std. Dev	61		
			%RSD	2.43		

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
53	MB	12/15/2021 5:09:06AM	1	2055	0.000	0.000
		12/15/2021 5:14:55AM	2	2127	0.000	0.000
			Avg	2091	0.000	0.000
			Std. Dev	51		
			%RSD	2.43		
54	LCS	12/15/2021 5:24:11AM	1	344159	128.098	64.049
		12/15/2021 5:30:00AM	2	340677	126.793	63.396
			Avg	342418	127.450	63.723
			Std. Dev	2462		
			%RSD	0.72		
55	480-193195-H-2	12/15/2021 5:39:46AM	1	11287	3.330	1.665
		12/15/2021 5:45:41AM	2	12460	3.770	1.885
			Avg	11874	3.550	1.775
			Std. Dev	829		
			%RSD	6.98		
56	480-193195-I-2 ms	12/15/2021 5:54:25AM	1	156382	57.715	28.857
		12/15/2021 6:00:20AM	2	157125	57.993	28.997
			Avg	156753	57.850	28.927
			Std. Dev	526		
			%RSD	0.34		
57	480-193195-I-2 msd	12/15/2021 6:09:48AM	1	154815	57.127	28.564
		12/15/2021 6:15:44AM	2	157562	58.157	29.079
			Avg	156189	57.640	28.822
			Std. Dev	1943		
			%RSD	1.24		
58	480-193388-G-1^8	12/15/2021 6:25:53AM	1	226965	84.171	42.085
		12/15/2021 6:31:47AM	2	253078	93.958	46.979
			Avg	240021	89.060	44.532
			Std. Dev	18464		
			%RSD	7.69		
59	180-130740-I-1	12/15/2021 6:41:18AM	1	12472	3.774	1.886
		12/15/2021 6:47:11AM	2	12738	3.874	1.937
			Avg	12605	3.820	1.912
			Std. Dev	189		
			%RSD	1.50		
60	180-130740-I-2	12/15/2021 6:56:43AM	1	13577	4.188	2.094
		12/15/2021 7:02:38AM	2	14654	4.592	2.296
			Avg	14115	4.390	2.195
			Std. Dev	761		
			%RSD	5.39		
61	180-130740-I-3	12/15/2021 7:12:08AM	1	18023	5.855	2.927
		12/15/2021 7:17:32AM	2	18754	6.129	3.064

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	18389	5.990	2.996
			Std. Dev	517		
			%RSD	2.81		
62	180-130740-I-4	12/15/2021 7:27:35AM	1	8075	2.126	1.062
		12/15/2021 7:33:35AM	2	9006	2.475	1.237
			Avg	8540	2.300	1.150
			Std. Dev	658		
			%RSD	7.70		
63	CCV	12/15/2021 7:42:45AM	1	332375	123.681	61.840
		12/15/2021 7:48:30AM	2	348199	129.612	64.806
			Avg	340287	126.650	63.323
			Std. Dev	11189		
			%RSD	3.29		
64	CCB	12/15/2021 7:58:27AM	1	2527	0.047	0.023
		12/15/2021 8:04:20AM	2	2522	0.045	0.022
			Avg	2525	0.050	0.023
			Std. Dev	4		
			%RSD	0.16		
65	180-130740-I-5	12/15/2021 8:13:50AM	1	7010	1.727	0.864
		12/15/2021 8:19:17AM	2	7991	2.094	1.047
			Avg	7501	1.910	0.955
			Std. Dev	693		
			%RSD	9.24		
66	180-130740-I-6	12/15/2021 8:29:16AM	1	9896	2.809	1.404
		12/15/2021 8:34:32AM	2	10382	2.991	1.495
			Avg	10139	2.900	1.449
			Std. Dev	343		
			%RSD	3.39		
67	180-130740-I-7	12/15/2021 8:44:35AM	1	8309	2.214	1.107
		12/15/2021 8:50:08AM	2	8618	2.329	1.165
			Avg	8463	2.270	1.136
			Std. Dev	218		
			%RSD	2.58		
68	480-193245-E-1	12/15/2021 9:00:02AM	1	37144	13.022	6.511
		12/15/2021 9:05:26AM	2	38128	13.391	6.695
			Avg	37636	13.210	6.603
			Std. Dev	696		
			%RSD	1.85		
69	480-193245-E-2	12/15/2021 9:15:07AM	1	6465	1.522	0.761
		12/15/2021 9:20:47AM	2	6976	1.714	0.857
			Avg	6721	1.620	0.809
			Std. Dev	362		
			%RSD	5.38		

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
70	480-193245-E-3	12/15/2021 9:30:52AM	1	7942	2.076	1.038
		12/15/2021 9:36:18AM	2	8167	2.160	1.080
			Avg	8055	2.120	1.059
			Std. Dev	159		
			%RSD	1.97		
71	CCV	12/15/2021 9:45:57AM	1	334850	124.609	62.304
		12/15/2021 9:51:44AM	2	336764	125.326	62.663
			Avg	335807	124.970	62.484
			Std. Dev	1353		
			%RSD	0.40		
72	CCB	12/15/2021 10:01:46AI	1	2899	0.186	0.093
		12/15/2021 10:07:37AI	2	2470	0.025	0.013
			Avg	2684	0.110	0.053
			Std. Dev	304		
			%RSD	11.31		
73	CCVL	12/15/2021 10:17:09AI	1	8726	2.370	1.184
		12/15/2021 10:23:02AI	2	9356	2.606	1.303
			Avg	9041	2.490	1.243
			Std. Dev	446		
			%RSD	4.93		

Historical Data Summary Report

For Batch 608987

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193245-E-1	MW210A	SM5310_DOC	Dissolved Organic Carbon	Dissolved	mg/L	8	1.0	6.6	☑	2.022 - 6.428	☐	2.56 - 6.6
480-193245-E-2	BW229	SM5310_DOC	Dissolved Organic Carbon	Dissolved	mg/L	8	1.0	0.81	☐	0 - 3.644	☐	0 - 3.48
480-193245-E-3	BW229A	SM5310_DOC	Dissolved Organic Carbon	Dissolved	mg/L	8	1.0	1.1	☐	0 - 2.907	☐	0.352 - 3

Historical Data Summary Report

For Batch 608965

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193194-H-10	MW306	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.5	☐	0 - 8.752	☐	0 - 6.24
480-193194-H-12	MW307	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	2.8	☐	0.031 - 4.044	☐	0.8 - 4.08
480-193194-H-2	MW210	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	1.7	☐	0 - 3.929	☐	0.504 - 4.2
480-193194-H-3	MW211	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	2.2	☐	0 - 3.89	☐	0.88 - 4.08
480-193194-H-4	MW212	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	2.8	☐	0.418 - 3.532	☐	0.88 - 3.24
480-193194-H-5	MW213	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.3	☐	0 - 8.442	☐	0 - 6.12
480-193194-H-6	MW214	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.3	☐	0 - 9.812	☐	0 - 6.96
480-193194-H-7	MW215	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.0	☐	0 - 8.009	☐	0 - 5.76
480-193194-H-8	MW216	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.1	☐	0 - 8.27	☐	0 - 6.12
480-193194-H-9	MW217	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.8	☐	0 - 9.086	☐	0 - 6.72
480-193195-H-2	MW105	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	1.8	☐	0 - 3.688	☐	0.64 - 3.96
480-193195-I-1	MW-102	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	2.9	☐	0.786 - 3.564	☐	1.28 - 3.48
480-193335-P-1	MW-12AA	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.712	☐	0 - 1.44
480-193335-P-1	MW-12AA	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.452	☐	0 - 1.56
480-193335-P-1	MW-12AA	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.712	☐	0 - 1.44
480-193335-P-2	MW-12BBB	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.341	☐	0 - 1.44
480-193335-P-2	MW-12BBB	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.564	☐	0 - 1.68
480-193335-P-2	MW-12BBB	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.452	☐	0 - 1.56
480-193335-P-3	MW-13A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 3.731	☐	0 - 3.72
480-193335-P-3	MW-13A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 4.17	☐	0 - 4.2
480-193335-P-3	MW-13A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 3.965	☐	0 - 3.96
480-193335-P-4	MW-13B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	5.4	☐	0 - 11.919	☐	2.64 - 12.24
480-193335-P-4	MW-13B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	5.7	☐	0 - 11.978	☐	2.72 - 12.48
480-193335-P-4	MW-13B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	5.5	☐	0 - 11.929	☐	2.72 - 12.36
480-193335-P-5	MW-17A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.336	☐	0 - 1.68
480-193335-P-5	MW-17A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.355	☐	0 - 1.8
480-193335-P-5	MW-17A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.355	☐	0 - 1.8
480-193335-P-6	MW-17B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-P-6	MW-17B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-P-6	MW-17B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193336-Y-1	SLC-2A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	10.3	☐	0 - 90.737	☐	0 - 97.44
480-193336-Y-1	SLC-2A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	11.0	☐	0 - 89.963	☐	0 - 96.6
480-193336-Y-1	SLC-2A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	10.6	☐	0 - 90.287	☐	0 - 96.96
480-193336-Y-2 ^4	PLC-2A	5310C	TOC Result 1	Total/NA	mg/L	8	4.0	215	☐	43.46 - 435.29	☐	112.8 - 386.4
480-193336-Y-2 ^4	PLC-2A	5310C	TOC Result 2	Total/NA	mg/L	8	4.0	215	☐	42.816 - 438.934	☐	115.2 - 400.8

Historical Data Summary Report

For Batch 608965

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193336-Y-2 ^4	PLC-2A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	4.0	215	☐	44.049 - 436.451	☐	116 - 393.6
480-193336-Y-3 ^4	PLC-1B	5310C	TOC Result 1	Total/NA	mg/L	8	4.0	98.3	☑	99.016 - 250.984	☐	93.6 - 242.4
480-193336-Y-3 ^4	PLC-1B	5310C	TOC Result 2	Total/NA	mg/L	8	4.0	103	☐	98.215 - 256.035	☐	96.8 - 242.4
480-193336-Y-3 ^4	PLC-1B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	4.0	101	☐	98.826 - 253.174	☐	95.2 - 242.4
480-193336-Y-5 ^4	SLC-1A	5310C	TOC Result 1	Total/NA	mg/L	8	4.0	8.8	☐	0 - 90.737	☐	0 - 97.44
480-193336-Y-5 ^4	SLC-1A	5310C	TOC Result 2	Total/NA	mg/L	8	4.0	9.1	☐	0 - 89.963	☐	0 - 96.6
480-193336-Y-5 ^4	SLC-1A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	4.0	9.0	☐	0 - 90.287	☐	0 - 96.96
480-193336-Y-6 ^4	PLC-1A	5310C	TOC Result 1	Total/NA	mg/L	8	4.0	142	☐	67.334 - 213.591	☐	70.16 - 206.4
480-193336-Y-6 ^4	PLC-1A	5310C	TOC Result 2	Total/NA	mg/L	8	4.0	143	☐	66.605 - 223.27	☐	70.8 - 214.8
480-193336-Y-6 ^4	PLC-1A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	4.0	142	☐	67.63 - 217.645	☐	70.48 - 210
480-193336-Y-7	LD-1	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	5.6	☐	0 - 21.839	☐	2.32 - 23.76
480-193336-Y-7	LD-1	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	5.6	☐	0 - 22.023	☐	2.48 - 24
480-193336-Y-7	LD-1	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	5.6	☐	0 - 21.934	☐	2.4 - 23.88
480-193337-Q-1	CD-1	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.229	☐	0 - 1.32
480-193337-Q-1	CD-1	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.341	☐	0 - 1.44
480-193337-Q-1	CD-1	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.229	☐	0 - 1.32
480-193337-Q-2	CD-1RA	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.117	☐	0 - 1.2
480-193337-Q-2	CD-1RA	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.117	☐	0 - 1.2
480-193337-Q-2	CD-1RA	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.117	☐	0 - 1.2
480-193369-P-1	MW-1A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.787	☐	0 - 1.92
480-193369-P-1	MW-1A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.787	☐	0 - 1.92
480-193369-P-1	MW-1A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.787	☐	0 - 1.92
480-193369-P-2	MW-2A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	7.4	☐	2.539 - 7.811	☐	3.28 - 8.28
480-193369-P-2	MW-2A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	7.5	☐	2.381 - 8.194	☐	3.2 - 8.76
480-193369-P-2	MW-2A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	7.5	☐	2.445 - 7.98	☐	3.2 - 8.52
480-193369-P-3	MW-2B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	4.5	☐	2.067 - 7.983	☐	2.96 - 8.28
480-193369-P-3	MW-2B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	4.8	☐	1.919 - 8.331	☐	3.04 - 8.76
480-193369-P-3	MW-2B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	4.6	☐	2.011 - 8.114	☐	3.04 - 8.52
480-193369-P-4	MW-1B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.676	☐	0 - 1.8
480-193369-P-4	MW-1B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.887	☐	0 - 1.68
480-193369-P-4	MW-1B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.564	☐	0 - 1.68
480-193369-P-5	DUP MW-1B	5310C	TOC Result 1	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-P-5	DUP MW-1B	5310C	TOC Result 2	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0

Historical Data Summary Report

For Batch 608965

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193369-P-5	DUP MW-1B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0
480-193388-G-1 ^8	Leachate	5310C	Total Organic Carbon	Total/NA	mg/L	8	8.0	356	☐	28.371 - 731.379	☐	151.2 - 606

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 609054 Batch Start Date: 11/22/21 19:44 Batch Analyst: Weglarski, Scott R

Batch Method: 310.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Minerals 00024	WC_50ppmALK 00180		
ICV 480-609054/9		310.2		2 mL	2 mL	# mL			
CCB 480-609054/42		310.2		2 mL	2 mL				
CCV 480-609054/43		310.2		2 mL	2 mL		# mL		
MB 480-609054/45		310.2		2 mL	2 mL				
CCB 480-609054/52		310.2		2 mL	2 mL				
CCV 480-609054/53		310.2		2 mL	2 mL		# mL		
LCS 480-609054/54		310.2		2 mL	2 mL		# mL		
MB 480-609054/55		310.2		2 mL	2 mL				
CCB 480-609054/61		310.2		2 mL	2 mL				
CCV 480-609054/62		310.2		2 mL	2 mL		# mL		
CCB 480-609054/116		310.2		2 mL	2 mL				
CCV 480-609054/117		310.2		2 mL	2 mL		# mL		
MB 480-609054/119		310.2		2 mL	2 mL				
CCB 480-609054/124		310.2		2 mL	2 mL				
CCV 480-609054/125		310.2		2 mL	2 mL		# mL		
LCS 480-609054/126		310.2		2 mL	2 mL		# mL		
MB 480-609054/127		310.2		2 mL	2 mL				
CCB 480-609054/136		310.2		2 mL	2 mL				
CCV 480-609054/137		310.2		2 mL	2 mL		# mL		
LCS 480-609054/138		310.2		2 mL	2 mL		# mL		
MB 480-609054/139		310.2		2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 609054 Batch Start Date: 11/22/21 19:44 Batch Analyst: Weglarski, Scott R

Batch Method: 310.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Minerals 00024	WC_50ppmALK 00180		
CCB 480-609054/148		310.2		2 mL	2 mL				
CCV 480-609054/149		310.2		2 mL	2 mL		# mL		
CCB 480-609054/200		310.2		2 mL	2 mL				
CCV 480-609054/201		310.2		2 mL	2 mL		# mL		
MB 480-609054/203		310.2		2 mL	2 mL				
CCB 480-609054/212		310.2		2 mL	2 mL				
CCV 480-609054/213		310.2		2 mL	2 mL		# mL		
LCS 480-609054/214		310.2		2 mL	2 mL		# mL		
MB 480-609054/215		310.2		2 mL	2 mL				
480-193337-H-2	CD-1RA	310.2	T	2 mL	2 mL				
CCB 480-609054/224		310.2		2 mL	2 mL				
CCV 480-609054/225		310.2		2 mL	2 mL		# mL		
CCB 480-609054/262		310.2		2 mL	2 mL				
CCV 480-609054/263		310.2		2 mL	2 mL		# mL		
MB 480-609054/265		310.2		2 mL	2 mL				
CCB 480-609054/272		310.2		2 mL	2 mL				
CCV 480-609054/273		310.2		2 mL	2 mL		# mL		
LCS 480-609054/274		310.2		2 mL	2 mL		# mL		
MB 480-609054/275		310.2		2 mL	2 mL				
480-193337-H-1	CD-1	310.2	T	2 mL	2 mL				
CCB 480-609054/283		310.2		2 mL	2 mL				
CCV 480-609054/284		310.2		2 mL	2 mL		# mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 609054 Batch Start Date: 11/22/21 19:44 Batch Analyst: Weglarski, Scott R

Batch Method: 310.2 Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608774 Batch Start Date: 12/14/21 10:51 Batch Analyst: Mooney, Ryan J

Batch Method: Distill/CN Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN LCS 250 00233			
MB 480-608774/1		Distill/CN, 335.4		6 mL	6 mL				
LCS 480-608774/2		Distill/CN, 335.4		6 mL	6 mL	6 mL			
480-193337-F-1	CD-1	Distill/CN, 335.4	T	6 mL	6 mL				
480-193337-F-2	CD-1RA	Distill/CN, 335.4	T	6 mL	6 mL				

Batch Notes	
Distillation Start Time	12/14/2021 10:45
Distillation End Time	12/14/2021 11:15
Chlorination Start Time	12/14/2021 10:45
Chlorination End Time	12/14/2021 11:15

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608835 Batch Start Date: 12/14/21 13:11 Batch Analyst: Olson, Jeffrey G

Batch Method: 335.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CCV 01608			
CCV 480-608835/1		335.4		5 mL	5 mL	# mL			
CCB 480-608835/2		335.4		5 mL	5 mL				
MB 480-608774/1-A		335.4		5 mL	5 mL				
LCS 480-608774/2-A		335.4		5 mL	5 mL				
CCV 480-608835/13		335.4		5 mL	5 mL	# mL			
CCB 480-608835/14		335.4		5 mL	5 mL				
480-193337-F-1-A	CD-1	335.4	T	5 mL	5 mL				
480-193337-F-2-A	CD-1RA	335.4	T	5 mL	5 mL				
CCV 480-608835/25		335.4		5 mL	5 mL	# mL			
CCB 480-608835/26		335.4		5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608583 Batch Start Date: 12/13/21 08:14 Batch Analyst: Thomas, Christine L

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	NH3 CCV 01457	WC_NH3_MS 00465		
CCV 480-608583/73		350.1		5 mL	5 mL	# mL			
CCB 480-608583/74		350.1		5 mL	5 mL				
MB 480-608583/75		350.1		5 mL	5 mL				
LCS 480-608583/76		350.1		5 mL	5 mL	# mL			
CCV 480-608583/85		350.1		5 mL	5 mL	# mL			
CCB 480-608583/86		350.1		5 mL	5 mL				
480-193337-C-1	CD-1	350.1	T	5 mL	5 mL				
480-193337-C-2	CD-1RA	350.1	T	5 mL	5 mL				
480-193337-C-2 DU	CD-1RA	350.1	T	5 mL	5 mL				
480-193337-C-2 MS	CD-1RA	350.1	T	5 mL	5 mL		10 uL		
CCV 480-608583/97		350.1		5 mL	5 mL	# mL			
CCB 480-608583/98		350.1		5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608523 Batch Start Date: 12/12/21 17:51 Batch Analyst: Bauer, Katherine E

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TKN1000ppmSTD 00016			
MB 480-608523/1		351.2, 351.2		25 mL	25 mL				
LCS 480-608523/2		351.2, 351.2		25 mL	25 mL	0.0625 mL			
480-193337-C-1	CD-1	351.2, 351.2	T	25 mL	25 mL				
480-193337-C-2	CD-1RA	351.2, 351.2	T	25 mL	25 mL				

Batch Notes	
Block Digestor ID	-
Block Digestion Start time	-
Oven, Bath or Block Temperature 1	- Degrees C
Block Digestion End time	-
Oven, Bath or Block Temperature 2	- Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608564 Batch Start Date: 12/13/21 07:40 Batch Analyst: Thomas, Christine L

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TKN CCV 01304				
CCV 480-608564/1		351.2		2 mL	# mL				
CCB 480-608564/2		351.2		2 mL					
MB 480-608523/1-A		351.2		2 mL					
LCS 480-608523/2-A		351.2		2 mL					
CCV 480-608564/7		351.2		2 mL	# mL				
CCB 480-608564/8		351.2		2 mL					
CCV 480-608564/26		351.2		2 mL	# mL				
CCB 480-608564/27		351.2		2 mL					
CCV 480-608564/38		351.2		2 mL	# mL				
CCB 480-608564/39		351.2		2 mL					
480-193337-C-1-A	CD-1	351.2	T	2 mL					
480-193337-C-2-A	CD-1RA	351.2	T	2 mL					
CCV 480-608564/47		351.2		2 mL	# mL				
CCB 480-608564/48		351.2		2 mL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 596905 Batch Start Date: 09/17/21 17:55 Batch Analyst: Stone, Chandler S

Batch Method: 410.4 Batch End Date: 09/17/21 19:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ChlorideScrn	COD STD 00053		
IC 480-596905/1		410.4		100 mL	100 mL	N			
IC 480-596905/2		410.4		100 mL	100 mL	N	0.5 mL		
IC 480-596905/3		410.4		100 mL	100 mL	N	1 mL		
IC 480-596905/4		410.4		100 mL	100 mL	N	2.5 mL		
IC 480-596905/5		410.4		100 mL	100 mL	N	5 mL		
IC 480-596905/6		410.4		100 mL	100 mL	N	7.5 mL		
IC 480-596905/7		410.4		100 mL	100 mL	N	10 mL		
IC 480-596905/8		410.4		100 mL	100 mL	N	12.5 mL		
IC 480-596905/9		410.4		100 mL	100 mL	N	15 mL		

Batch Notes	
Temperature - Uncorrected - Start	150.5 Degrees C
Temperature - Corrected - Start	150.1 Degrees C
Digestion Start Time	09/17/2021 17:55
Digestion End Time	09/17/2021 19:55
Temperature - Uncorrected - End	150.5 Degrees C
Temperature - Corrected - End	150.1 Degrees C

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 609052 Batch Start Date: 12/15/21 18:00 Batch Analyst: Stone, Chandler S

Batch Method: 410.4 Batch End Date: 12/15/21 20:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ChlorideScrn	COD 25 PPM 00082	COD 75 PPM 00045	COD STD 00053
CCV 480-609052/73		410.4		2 mL	2 mL	N		2 mL	
CCB 480-609052/74		410.4		2 mL	2 mL	N			
MB 480-609052/75		410.4		2 mL	2 mL	N			
LCS 480-609052/76		410.4		2 mL	2 mL	N	2 mL		
CCV 480-609052/85		410.4		2 mL	2 mL	N		2 mL	
CCB 480-609052/86		410.4		2 mL	2 mL	N			
480-193337-C-1	CD-1	410.4	T	2 mL	2 mL	N			
480-193337-C-1 MS	CD-1	410.4	T	2 mL	2 mL	N			0.1 mL
480-193337-C-2	CD-1RA	410.4	T	2 mL	2 mL	N			
CCV 480-609052/97		410.4		2 mL	2 mL	N		2 mL	
CCB 480-609052/98		410.4		2 mL	2 mL	N			

Batch Notes	
Temperature - Uncorrected - Start	150.1 Degrees C
Temperature - Corrected - Start	150.3 Degrees C
Digestion Start Time	12/15/2021 18:00
Digestion End Time	12/15/2021 20:00
Temperature - Uncorrected - End	150.1 Degrees C
Temperature - Corrected - End	150.3 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608634 Batch Start Date: 12/13/21 06:53 Batch Analyst: Thomas, Christine L

Batch Method: 420.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Phenol ICV 00334	WC_Phenol_CCV 00467	WC_Phenol10W3 01252	
ICV 480-608634/10		420.4		2 mL	2 mL	# mL			
ICB 480-608634/11		420.4		2 mL	2 mL				
CCV 480-608634/68		420.4		2 mL	2 mL		# mL		
CCB 480-608634/69		420.4		2 mL	2 mL				
MB 480-608634/72		420.4		2 mL	2 mL				
LCS 480-608634/73		420.4		2 mL	2 mL		# mL		
480-193337-G-1	CD-1	420.4	T	2 mL	2 mL				
CCV 480-608634/83		420.4		2 mL	2 mL		# mL		
CCB 480-608634/84		420.4		2 mL	2 mL				
480-193337-G-2	CD-1RA	420.4	T	2 mL	2 mL				
480-193337-G-2 MS	CD-1RA	420.4	T	2 mL	2 mL			20 uL	
CCV 480-608634/97		420.4		2 mL	2 mL		# mL		
CCB 480-608634/98		420.4		2 mL	2 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 598173 Batch Start Date: 09/28/21 08:55 Batch Analyst: Bauer, Katherine E

Batch Method: 7196A Batch End Date: 09/28/21 09:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	Initial pH	Final pH
IC 480-598173/1		7196A		25 mL	25 mL	0 Absorbance	0 Absorbance	2 SU	2 SU
IC 480-598173/2		7196A		25 mL	25 mL	0 Absorbance	0.008 Absorbance	2 SU	2 SU
IC 480-598173/3		7196A		25 mL	25 mL	0 Absorbance	0.018 Absorbance	2 SU	2 SU
IC 480-598173/4		7196A		25 mL	25 mL	0 Absorbance	0.037 Absorbance	2 SU	2 SU
IC 480-598173/5		7196A		25 mL	25 mL	0 Absorbance	0.079 Absorbance	2 SU	2 SU
IC 480-598173/6		7196A		25 mL	25 mL	0 Absorbance	0.153 Absorbance	2 SU	2 SU
IC 480-598173/7		7196A		25 mL	25 mL	0 Absorbance	0.232 Absorbance	2 SU	2 SU
IC 480-598173/8		7196A		25 mL	25 mL	0 Absorbance	0.306 Absorbance	2 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	0.01 hex 00027	0.02 hex 00027	0.05 hex 00028	0.1 hex 00027	0.2 hex 00029	0.3 hex 00027
IC 480-598173/1		7196A							
IC 480-598173/2		7196A		0.125 mL					
IC 480-598173/3		7196A			0.125 mL				
IC 480-598173/4		7196A				0.125 mL			
IC 480-598173/5		7196A					0.125 mL		
IC 480-598173/6		7196A						0.125 mL	
IC 480-598173/7		7196A							0.125 mL
IC 480-598173/8		7196A							

Lab Sample ID	Client Sample ID	Method Chain	Basis	0.4 hex 00027					
IC 480-598173/1		7196A							
IC 480-598173/2		7196A							
IC 480-598173/3		7196A							
IC 480-598173/4		7196A							
IC 480-598173/5		7196A							
IC 480-598173/6		7196A							
IC 480-598173/7		7196A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 598173 Batch Start Date: 09/28/21 08:55 Batch Analyst: Bauer, Katherine E

Batch Method: 7196A Batch End Date: 09/28/21 09:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	0.4 hex 00027					
IC 480-598173/8		7196A		0.125 mL					

Batch Notes	
Color Reagent ID	-

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608495 Batch Start Date: 12/11/21 15:30 Batch Analyst: Mooney, Ryan J

Batch Method: 7196A Batch End Date: 12/11/21 15:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	HEX INT STD 00109	
CCV 480-608495/1		7196A		25 mL	25 mL	00 Absorbance	.044 Absorbance	125 uL	
CCB 480-608495/2		7196A		25 mL	25 mL	00 Absorbance	.002 Absorbance		
MB 480-608495/3		7196A		25 mL	25 mL	00 Absorbance	.002 Absorbance		
LCS 480-608495/4		7196A		25 mL	25 mL	00 Absorbance	.044 Absorbance	125 uL	
CCV 480-608495/13		7196A		25 mL	25 mL	00 Absorbance	.043 Absorbance	125 uL	
CCB 480-608495/14		7196A		25 mL	25 mL	00 Absorbance	.002 Absorbance		
480-193337-L-1	CD-1	7196A	T	25 mL	25 mL	00 Absorbance	.008 Absorbance		
480-193337-L-2	CD-1RA	7196A	T	25 mL	25 mL	00 Absorbance	.002 Absorbance		
CCV 480-608495/21		7196A		25 mL	25 mL	00 Absorbance	.044 Absorbance	125 uL	
CCB 480-608495/22		7196A		25 mL	25 mL	00 Absorbance	.002 Absorbance		

Batch Notes	
Calibration Date and Time	12/11/2021 16:51

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608880 Batch Start Date: 12/14/21 14:36 Batch Analyst: Mooney, Ryan J

Batch Method: 7196A Batch End Date: 12/14/21 15:53

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	HEX INT STD 00109	
CCV 480-608880/1		7196A		25 mL	25 mL	0 Absorbance	.042 Absorbance	125 uL	
CCB 480-608880/2		7196A		25 mL	25 mL	0 Absorbance	0 Absorbance		
MB 480-608880/3		7196A		25 mL	25 mL	0 Absorbance	0 Absorbance		
LCS 480-608880/4		7196A		25 mL	25 mL	0 Absorbance	.042 Absorbance	125 uL	
480-193337-L-1	CD-1	7196A	T	25 mL	25 mL	0 Absorbance	.002 Absorbance		
480-193337-L-2	CD-1RA	7196A	T	25 mL	25 mL	0 Absorbance	.004 Absorbance		
CCV 480-608880/13		7196A		25 mL	25 mL	0 Absorbance	.042 Absorbance	125 uL	
CCB 480-608880/14		7196A		25 mL	25 mL	0 Absorbance	0 Absorbance		

Batch Notes	
Color Reagent ID	6805695

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608517 Batch Start Date: 12/12/21 08:48 Batch Analyst: Bauer, Matthew J

Batch Method: SM 2120B Batch End Date: 12/12/21 09:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	Color Std-2 00020		
CCV 480-608517/1		SM 2120B		1 SU	50 mL	50 mL	3 mL		
CCB 480-608517/2		SM 2120B		5 SU	50 mL	50 mL			
MB 480-608517/3		SM 2120B		5 SU	50 mL	50 mL			
LCS 480-608517/4		SM 2120B		1 SU	50 mL	50 mL	3 mL		
480-193337-L-1	CD-1	SM 2120B	T	6 SU	50 mL	50 mL			
480-193337-L-2	CD-1RA	SM 2120B	T	6 SU	50 mL	50 mL			
CCV 480-608517/13		SM 2120B		1 SU	50 mL	50 mL	3 mL		
CCB 480-608517/14		SM 2120B		5 SU	50 mL	50 mL			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 599886 Batch Start Date: 10/11/21 12:37 Batch Analyst: Zahniser, Ian M

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_6ANION_STD 00001				
IC 480-599886/2		300.0		5 mL	2.5 uL				
IC 480-599886/3		300.0		5 mL	10 uL				
IC 480-599886/4		300.0		5 mL	25 uL				
IC 480-599886/5		300.0		5 mL	100 uL				
IC 480-599886/6		300.0		5 mL	250 uL				
IC 480-599886/7		300.0		5 mL	500 uL				
IC 480-599886/8		300.0		5 mL	1000 uL				

Batch Notes	
Filter ID	17201245
Eluent 1 ID	210672425313

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 609280 Batch Start Date: 12/17/21 13:48 Batch Analyst: Zahniser, Ian M

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION_LCS_00395				
CCV 480-609280/1		300.0		5 mL	5 mL				
CCB 480-609280/2		300.0		5 mL					
MB 480-609280/4		300.0		5 mL					
CCV 480-609280/13		300.0		5 mL	5 mL				
CCB 480-609280/14		300.0		5 mL					
CCV 480-609280/25		300.0		5 mL	5 mL				
CCB 480-609280/26		300.0		5 mL					
LCS 480-609280/27		300.0		5 mL	5 mL				
MB 480-609280/28		300.0		5 mL					
CCV 480-609280/37		300.0		5 mL	5 mL				
CCB 480-609280/38		300.0		5 mL					
480-193337-M-1	CD-1	300.0	T	1 mL					
480-193337-M-2	CD-1RA	300.0	T	1 mL					
CCV 480-609280/49		300.0		5 mL	5 mL				
CCB 480-609280/50		300.0		5 mL					

Batch Notes	
Filter ID	17201245
Eluent 1 ID	210982424316

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608493 Batch Start Date: 12/11/21 14:55 Batch Analyst: Debergalis, Paul R

Batch Method: 353.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
480-193337-J-1	CD-1	353.2	T	5 mL	5 mL				
480-193337-J-2	CD-1RA	353.2	T	5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 609236 Batch Start Date: 12/16/21 19:00 Batch Analyst: Weglarski, Scott R

Batch Method: 9038 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Sulf 1000 ppm 00042	Sulf 30ppm 00184	Sulf 30ppm 00185	
ICB 480-609236/9		9038		2 mL	2 mL				
ICV 480-609236/10		9038		2 mL	2 mL			# mL	
CCB 480-609236/160		9038		2 mL	2 mL				
CCV 480-609236/161		9038		2 mL	2 mL		# mL		
MB 480-609236/162		9038		2 mL	2 mL				
LCS 480-609236/163		9038		2 mL	2 mL		# mL		
CCB 480-609236/164		9038		2 mL	2 mL				
CCV 480-609236/165		9038		2 mL	2 mL		# mL		
CCB 480-609236/184		9038		2 mL	2 mL				
CCV 480-609236/185		9038		2 mL	2 mL		# mL		
480-193337-H-1	CD-1	9038	T	2 mL	2 mL				
CCB 480-609236/189		9038		2 mL	2 mL				
CCV 480-609236/190		9038		2 mL	2 mL		# mL		
480-193337-H-1 MS	CD-1	9038	T	2 mL	2 mL	0.04 mL			
480-193337-H-1 MSD	CD-1	9038	T	2 mL	2 mL	0.04 mL			
480-193337-H-2	CD-1RA	9038	T	2 mL	2 mL				
CCB 480-609236/194		9038		2 mL	2 mL				
CCV 480-609236/195		9038		2 mL	2 mL		# mL		
480-193337-H-2 MSD	CD-1RA	9038	T	2 mL	2 mL	0.04 mL			
CCB 480-609236/199		9038		2 mL	2 mL				
CCV 480-609236/200		9038		2 mL	2 mL		# mL		
CCB 480-609236/320		9038		2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 609236 Batch Start Date: 12/16/21 19:00 Batch Analyst: Weglarski, Scott R

Batch Method: 9038 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Sulf 1000 ppm 00042	Sulf 30ppm 00184	Sulf 30ppm 00185	
CCV 480-609236/321		9038		2 mL	2 mL		# mL		
480-193337-H-2 MS	CD-1RA	9038	T	2 mL	2 mL	0.04 mL			
CCB 480-609236/323		9038		2 mL	2 mL				
CCV 480-609236/324		9038		2 mL	2 mL		# mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608781 Batch Start Date: 12/14/21 11:17 Batch Analyst: Olson, Jeffrey G

Batch Method: SM 2540C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	Weight3
MB 480-608781/1		SM 2540C		MB	109.8018 g	100 mL	109.8019 g	109.8021 g	0 g
LCS 480-608781/2		SM 2540C		LCS	108.7280 g	100 mL	108.7808 g	108.7806 g	0 g
480-193337-B-1	CD-1	SM 2540C	T	20	108.2474 g	100 mL	108.2679 g	108.2680 g	0 g
480-193337-B-2	CD-1RA	SM 2540C	T	21	107.0014 g	100 mL	107.0226 g	107.0226 g	0 g
480-193337-B-2 DU	CD-1RA	SM 2540C	T	22	106.3389 g	100 mL	106.3588 g	106.3587 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight4	WeightOne%Diff	WeightTwo%Diff	Weight4OK	Residue	Residue2
MB 480-608781/1		SM 2540C		0 g	Pass No Unit	N/A No Unit	N/A	0.0001 g	0.0003 g
LCS 480-608781/2		SM 2540C		0 g	Pass No Unit	N/A No Unit	N/A	0.0528 g	0.0526 g
480-193337-B-1	CD-1	SM 2540C	T	0 g	Pass No Unit	N/A No Unit	N/A	0.0205 g	0.0206 g
480-193337-B-2	CD-1RA	SM 2540C	T	0 g	Pass No Unit	N/A No Unit	N/A	0.0212 g	0.0212 g
480-193337-B-2 DU	CD-1RA	SM 2540C	T	0 g	Pass No Unit	N/A No Unit	N/A	0.0199 g	0.0198 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue3	Residue4	FinalAmount	CalcMsg	NaCl Std 02 00420	
MB 480-608781/1		SM 2540C		N/A g	N/A g	100 mL	OK		
LCS 480-608781/2		SM 2540C		N/A g	N/A g	100 mL	OK	100 mL	
480-193337-B-1	CD-1	SM 2540C	T	N/A g	N/A g	100 mL	OK		
480-193337-B-2	CD-1RA	SM 2540C	T	N/A g	N/A g	100 mL	OK		
480-193337-B-2 DU	CD-1RA	SM 2540C	T	N/A g	N/A g	100 mL	OK		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608781 Batch Start Date: 12/14/21 11:17 Batch Analyst: Olson, Jeffrey G

Batch Method: SM 2540C Batch End Date:

Batch Notes	
Nominal Amount Used	100 mL
Balance ID	3
Oven ID - Low Temperature	105-1
Thermometer ID - Low Temperature	105
Date/Time - In	12/14/2021 09:32
Temperature - Start - Uncorrected	105 Celsius
Temperature - Start - Corrected	105 Celsius
Date/Time - Out	12/15/2021 15:32
Temperature - End - Uncorrected	105 Celsius
Temperature - End - Corrected	105 Celsius
Oven ID	180-1
Thermometer ID	180
Weight(WT1) Start Date/Time	12/15/2021 15:32 No Unit
Uncorrected Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Date/Time Out	12/17/2021 08:15
Uncorrected Weight(WT1) Temp Out	180 Celsius
Weight(WT1) Temp Out	180 Celsius
Date/Time - In - CW (WT2)	12/17/2021 09:33
Temperature - Start-CW(WT2) -Uncorrected	180 Celsius
Temperature - Start - CW (WT2) - Correct	180 Celsius
Date/Time - Out - CW (WT2)	12/21/2021 09:45
Temperature - End-CW(WT2) -Uncorrected	180 Celsius
Temperature - End - CW (WT2) - Correct	180 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608717 Batch Start Date: 12/13/21 17:57 Batch Analyst: Bauer, Katherine E

Batch Method: SM 4500 Cl- E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC25ppmChlInt 00155			
ICB 480-608717/8		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-608717/236		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-608717/237		SM 4500 Cl- E		2 mL	2 mL	# mL			
MB 480-608717/239		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-608717/245		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-608717/246		SM 4500 Cl- E		2 mL	2 mL	# mL			
LCS 480-608717/247		SM 4500 Cl- E		2 mL	2 mL	# mL			
MB 480-608717/248		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-608717/257		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-608717/258		SM 4500 Cl- E		2 mL	2 mL	# mL			
LCS 480-608717/259		SM 4500 Cl- E		2 mL	2 mL	# mL			
MB 480-608717/260		SM 4500 Cl- E		2 mL	2 mL				
480-193337-H-1	CD-1	SM 4500 Cl- E	T	2 mL	2 mL				
480-193337-H-2	CD-1RA	SM 4500 Cl- E	T	2 mL	2 mL				
CCB 480-608717/269		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-608717/270		SM 4500 Cl- E		2 mL	2 mL	# mL			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608499 Batch Start Date: 12/11/21 17:24 Batch Analyst: Mooney, Ryan J

Batch Method: SM 5210B Batch End Date: 12/16/21 11:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialTemp	Final pH	InitialAmount	FinalAmount	GGA 00014
MB 480-608499/1		SM 5210B					300 mL	300 mL	
LCS 480-608499/2		SM 5210B					300 mL	300 mL	6 mL
480-193337-A-1	CD-1	SM 5210B	T	7.69 SU	20.4 Celsius	7.69 SU	300 mL	300 mL	
480-193337-A-2	CD-1RA	SM 5210B	T	7.59 SU	19.8 Celsius	7.59 SU	300 mL	300 mL	

Batch Notes	
Seed ID	6561632
Nutrient Buffer Pillow ID	6614223
Incubator ID	4
Uncorrected Incubator Temp - Initial	20.2 Celsius
Corrected Incubator Temp - Initial	20.1 Celsius
Uncorrected Incubator Temp - Final	19.2 Celsius
Corrected Incubator Temp - Final	19.0 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193337-1

SDG No.: 193337

Batch Number: 608965 Batch Start Date: 12/14/21 16:08 Batch Analyst: Zahniser, Ian M

Batch Method: SM 5310C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Res1&2RPD	RPDOK	TOC_CCV 00190	TOC_LCS 00187		
CCV 480-608965/2		SM 5310C		3 %	TOC Pass	# mL			
CCB 480-608965/3		SM 5310C		104 %	TOC Fail				
MB 480-608965/4		SM 5310C			TOC Pass				
LCS 480-608965/5		SM 5310C		3 %	TOC Pass		# mL		
CCV 480-608965/14		SM 5310C		1 %	TOC Pass	# mL			
CCB 480-608965/15		SM 5310C		200 %	TOC Fail				
480-193337-Q-1	CD-1	SM 5310C	T	6 %	TOC Pass				
480-193337-Q-2	CD-1RA	SM 5310C	T	9 %	TOC Pass				
CCV 480-608965/26		SM 5310C		2 %	TOC Pass	# mL			
CCB 480-608965/27		SM 5310C		41 %	TOC Fail				

Batch Notes	
Acid ID	6775594
Phosphoric Acid ID	6792760
Sodium Persulfate ID	6783103
Pipette/Syringe/Dispenser ID	M43072G

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Syracuse #225

Client Information	Sampler: K McGrath	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-167798-13274.1
Client Contact: Ms. Kathleen McGrath	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 1 of 2
Company: Cortland Cty Soil & Water Cons District	PWSID:			Job #:
Address: 100 Grange Place Rm 202	Due Date Requested:			
City: Cortland	TAT Requested (days): Normal			
State, Zip: NY, 13045	Compliance Project: Δ Yes Δ No			
Phone: 607-345-4624(Tel)	PO #: Purchase Order not required			
Email: kathleen.mcgrath@cortlandswcd.org	WO #:			
Project Name: Cortland Landfill/ Event Desc: Towslee Landfill - Baseline	Project #: 48009337			
Site: New York	SSOW#:			

SHORT HOLD

480-193337 Chain of Custody

Analysis Requested

Preservation Codes: A - HCl M - Hexane L - EDA Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	350.1, 351.2, 410.4	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb	2120B, 353.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	5310C - Total Organic Carbon	335.4 - Cyanide	420.4_NP - Total Phenolics	Total Number of containe	Special Instructions/Note:
Preservation Code:					X	X	N	S	D	A	N	N	N	N	N	N	A	B	S	X	
CD-1	12/9/21	11:45	G	Water	N	N	X	X	X	X	X	X		X	X	X	X	X	X		+6010C diss + 7470A dissolved
CD-1RA	12/9/21	11:15	G	Water	N	N	X	X	X	X	X	X		X	X	X	X	X	X		+6010C diss metals + 7470A
MW-4A				Water																	
MW-1B	12/9/21	12:20	G	Water	N	Y	X	X	X	X	X	X		X	X	X	X	X	X		
MW-2A				Water																	
MW-2B				Water																	
MW-3A				Water																	
MW-3B				Water																	
MW-4A				Water																	
MW-5A				Water																	
MW-6A				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	K McGrath	12/9/21 5:00			12/9/21 1700	ES-Syr
2		12-9-21, 1500	FedEx		12/11/21 1:30	TAB
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.4, 2.8

Ver: 06/08/2021

12/27/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: K McGrath	Lab PM: Johnson, Orlette S	Carrier Tracking No(s): Syracuse #225	COC No: 480-167798-13274.2
Client Contact: Ms. Kathleen McGrath	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 2 of 2
Company: Cortland Cty Soil & Water Cons District	PWSID:			Job #:
Address: 100 Grange Place Rm 202	Due Date Requested:			
City: Cortland	TAT Requested (days): Normal			
State, Zip: NY, 13045	Compliance Project: Δ Yes Δ No			
Phone: 607-345-4624(Tel)	PO #: Purchase Order not required			
Email: kathleen.mcgrath@cortlandswcd.org	WO #:			
Project Name: Cortland Landfill/ Event Desc: Towslee Landfill - Baseline	Project #: 48009337			
Site: New York	SSOW#:			

SHORT HOLD

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	360.1, 351.2, 410.4	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb	2120B, 353.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	5310C - Total Organic Carbon	335.4 - Cyanide	420.4_NP - Total Phenolics	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	S	D	A	N	N	N	N	N	N	A	B	S	X	
MW-6B				Water																	
MW-7A				Water																	
DUP MW1B	12/9/21	1:45	G	Water	N	N	X	X	X	X	X	X		X	X	X	X	X	X		
Trip Blank 1				Water																	
Trip Blank 2				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	K McGrath	12/9/21 5:00			12/9/21 1700	ES-SYR
2	Relinquished	12.9.21, 1900	Tya		12/11/21 11:30	TAS
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-193337-1
SDG Number: 193337

Login Number: 193337
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	False	past hold for Cr+6 both, past 48hr holds for #2
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-193369-1

SDG Number: 193337

Job Description: Towslee Landfill - Baseline

For:
Cortland Cty Soil & Water Cons District
100 Grange Place
Rm 202
Cortland, NY 13045

Attention: Ms. Kathleen McGrath

Approved for release.
Judy L Stone
Senior Project Manager
12/23/2021 3:01 PM

Designee for
Orlette S Johnson, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0864
Orlette.Johnson@Eurofinset.com
12/23/2021

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NYDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Job Narrative
480-193369-1

Comments
No additional comments.

Receipt
The samples were received on 12/13/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6º C and 1.9º C.

Receipt Exceptions
Samples were received outside of holding time for tests with 48 hour holding times or less due to delays in Fed Ex. MW-1A (480-193369-1), MW-2A (480-193369-2), MW-2B (480-193369-3), MW-1B (480-193369-4) and DUP MW-1B (480-193369-5)

The laboratory received sample points "MW-1B" and "DUP MW-1B" that were not listed on the chain of custody (COC). Samples were added to the login with dates/times of collection taken from containers. These samples were listed on the COC for job 480-193337 received 12/11/21 but no containers were received on that date. MW-1B (480-193369-4) and DUP MW-1B (480-193369-5)

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

HPLC/IC
Method 300.0: The following samples were diluted due to the abundance of non-target analytes: MW-2A (480-193369-2) and MW-2B (480-193369-3). Elevated reporting limits (RLs) are provided.

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

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

General Chemistry
Method SM 2120B: The following samples were received outside of holding time: MW-1A (480-193369-1), MW-2A (480-193369-2), MW-2B (480-193369-3), MW-1B (480-193369-4) and DUP MW-1B (480-193369-5).

Method SM 2120B: The following samples were filtered prior to analysis, therefore the analytical results are being report as "True Color": MW-1A (480-193369-1) and MW-2A (480-193369-2)

Method 353.2: The following samples were received outside of holding time: MW-1A (480-193369-1), MW-2A (480-193369-2), MW-2B (480-193369-3), MW-1B (480-193369-4), DUP MW-1B (480-193369-5) and (480-193369-I-1 MS).

Method SM 5210B: The following samples were received outside of holding time: MW-1A (480-193369-1), MW-2A (480-193369-2), MW-2B (480-193369-3), MW-1B (480-193369-4) and DUP MW-1B (480-193369-5).

Method 7196A: The following samples were received outside of holding time: MW-1A (480-193369-1), MW-2A (480-193369-2), MW-2B (480-193369-3), MW-1B (480-193369-4) and DUP MW-1B (480-193369-5).

Method Nitrate by calc: The following samples were received outside of holding time: MW-1A (480-193369-1), MW-2A (480-193369-2), MW-2B (480-193369-3), MW-1B (480-193369-4) and DUP MW-1B (480-193369-5).

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

Sample Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193369-1
SDG: 193337

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-193369-1	MW-1A	Water	12/10/21 08:45	12/13/21 10:00
480-193369-2	MW-2A	Water	12/10/21 07:45	12/13/21 10:00
480-193369-3	MW-2B	Water	12/10/21 08:05	12/13/21 10:00
480-193369-4	MW-1B	Water	12/09/21 12:20	12/13/21 10:00
480-193369-5	DUP MW-1B	Water	12/09/21 13:45	12/13/21 10:00

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193369-1
SDG: 193337

Client Sample ID: MW-1A — Lab Sample ID: 480-193369-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1.1		0.20		mg/L	1		6010C	Total/NA
Barium	0.080		0.0020		mg/L	1		6010C	Total/NA
Boron	0.023		0.020		mg/L	1		6010C	Total/NA
Calcium	49.6		0.50		mg/L	1		6010C	Total/NA
Iron	1.0		0.050		mg/L	1		6010C	Total/NA
Magnesium	11.1		0.20		mg/L	1		6010C	Total/NA
Manganese	0.13		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.2		0.50		mg/L	1		6010C	Total/NA
Sodium	12.3		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	169		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	130		20.0		mg/L	2		310.2	Total/NA
Total Kjeldahl Nitrogen	0.20		0.20		mg/L	1		351.2	Total/NA
Sulfate	17.9		5.0		mg/L	1		9038	Total/NA
Color	5.00	H H3	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	242		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	35.3		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-2A — Lab Sample ID: 480-193369-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.1		1.0		ug/L	1		8260C	Total/NA
Benzene	1.3		1.0		ug/L	1		8260C	Total/NA
Chlorobenzene	2.1		1.0		ug/L	1		8260C	Total/NA
Aluminum	1.1		0.20		mg/L	1		6010C	Total/NA
Barium	0.44		0.0020		mg/L	1		6010C	Total/NA
Boron	0.20		0.020		mg/L	1		6010C	Total/NA
Calcium	84.1		0.50		mg/L	1		6010C	Total/NA
Iron	9.5		0.050		mg/L	1		6010C	Total/NA
Magnesium	17.6		0.20		mg/L	1		6010C	Total/NA
Manganese	11.4		0.0030		mg/L	1		6010C	Total/NA
Potassium	9.0		0.50		mg/L	1		6010C	Total/NA
Sodium	13.5		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	282		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	339		40.0		mg/L	4		310.2	Total/NA
Ammonia	7.1		0.10		mg/L	5		350.1	Total/NA
Total Kjeldahl Nitrogen	7.4		0.40		mg/L	2		351.2	Total/NA
Nitrate as N	0.11	H H3	0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	11.5		10.0		mg/L	1		410.4	Total/NA
Color	10.0	H H3	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	350		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	20.0		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Biochemical Oxygen Demand	2.2	H H3 b	2.0		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon - Duplicates	7.5		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	7.4		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	7.5		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-2B — Lab Sample ID: 480-193369-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	4.7		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	47		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	20		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-2B (Continued) — Lab Sample ID: 480-193369-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.32		0.20		mg/L	1		6010C	Total/NA
Barium	1.0		0.0020		mg/L	1		6010C	Total/NA
Boron	0.20		0.020		mg/L	1		6010C	Total/NA
Calcium	175		0.50		mg/L	1		6010C	Total/NA
Iron	0.34		0.050		mg/L	1		6010C	Total/NA
Magnesium	36.7		0.20		mg/L	1		6010C	Total/NA
Manganese	4.5		0.0030		mg/L	1		6010C	Total/NA
Potassium	2.0		0.50		mg/L	1		6010C	Total/NA
Sodium	40.5		1.0		mg/L	1		6010C	Total/NA
Zinc	0.034		0.010		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	588		0.50		mg/L	1		SM 2340B	Total/NA
Bromide	0.63		0.40		mg/L	2		300.0	Total/NA
Alkalinity, Total	560		80.0		mg/L	8		310.2	Total/NA
Ammonia	0.44		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.0		0.20		mg/L	1		351.2	Total/NA
Color	10.0	H H3	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	696		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	80.7		2.0		mg/L	2		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	4.6		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	4.5		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	4.8		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-1B — Lab Sample ID: 480-193369-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.20		0.20		mg/L	1		6010C	Total/NA
Barium	0.74		0.0020		mg/L	1		6010C	Total/NA
Calcium	26.8		0.50		mg/L	1		6010C	Total/NA
Iron	0.63		0.050		mg/L	1		6010C	Total/NA
Magnesium	6.0		0.20		mg/L	1		6010C	Total/NA
Manganese	5.6		0.0030		mg/L	1		6010C	Total/NA
Sodium	6.0		1.0		mg/L	1		6010C	Total/NA
Zinc	0.046		0.010		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	91.6		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	95.9		20.0		mg/L	2		310.2	Total/NA
Sulfate	7.2		5.0		mg/L	1		9038	Total/NA
Color	5.00	H H3	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	143		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	4.3		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: DUP MW-1B — Lab Sample ID: 480-193369-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.32		0.0020		mg/L	1		6010C	Total/NA
Calcium	27.0		0.50		mg/L	1		6010C	Total/NA
Iron	0.19		0.050		mg/L	1		6010C	Total/NA
Magnesium	6.1		0.20		mg/L	1		6010C	Total/NA
Manganese	1.2		0.0030		mg/L	1		6010C	Total/NA
Sodium	6.2		1.0		mg/L	1		6010C	Total/NA
Zinc	0.019		0.010		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	92.4		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	90.7		20.0		mg/L	2		310.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP MW-1B (Continued)

Lab Sample ID: 480-193369-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	7.1		5.0		mg/L	1		9038	Total/NA
Color	5.00	H H3	5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	192		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	4.5		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193369-1
SDG: 193337

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
420.4	Phenolics, Total Recoverable	MCAWW	TAL BUF
7196A	Chromium, Hexavalent	SW846	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
SM 2120B	Color, Colorimetric	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 4500 Cl- E	Chloride, Total	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample ID: MW-1A
Date Collected: 12/10/21 08:45
Date Received: 12/13/21 10:00

Lab Sample ID: 480-193369-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/14/21 05:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/14/21 05:20	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/14/21 05:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/14/21 05:20	1
1,1-Dichloroethane	ND		1.0		ug/L			12/14/21 05:20	1
1,1-Dichloroethene	ND		1.0		ug/L			12/14/21 05:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/14/21 05:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/14/21 05:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/14/21 05:20	1
1,2-Dichloroethane	ND		1.0		ug/L			12/14/21 05:20	1
1,2-Dichloropropane	ND		1.0		ug/L			12/14/21 05:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/14/21 05:20	1
2-Butanone (MEK)	ND		10		ug/L			12/14/21 05:20	1
2-Hexanone	ND		5.0		ug/L			12/14/21 05:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/14/21 05:20	1
Acetone	ND		10		ug/L			12/14/21 05:20	1
Acrylonitrile	ND		5.0		ug/L			12/14/21 05:20	1
Benzene	ND		1.0		ug/L			12/14/21 05:20	1
Chlorobromomethane	ND		1.0		ug/L			12/14/21 05:20	1
Bromodichloromethane	ND		1.0		ug/L			12/14/21 05:20	1
Bromoform	ND		1.0		ug/L			12/14/21 05:20	1
Bromomethane	ND		1.0		ug/L			12/14/21 05:20	1
Carbon disulfide	ND		1.0		ug/L			12/14/21 05:20	1
Carbon tetrachloride	ND		1.0		ug/L			12/14/21 05:20	1
Chlorobenzene	ND		1.0		ug/L			12/14/21 05:20	1
Dibromochloromethane	ND		1.0		ug/L			12/14/21 05:20	1
Chloroethane	ND		1.0		ug/L			12/14/21 05:20	1
Chloroform	ND		1.0		ug/L			12/14/21 05:20	1
Chloromethane	ND		1.0		ug/L			12/14/21 05:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/14/21 05:20	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/14/21 05:20	1
Dibromomethane	ND		1.0		ug/L			12/14/21 05:20	1
Ethylbenzene	ND		1.0		ug/L			12/14/21 05:20	1
1,2-Dibromoethane	ND		1.0		ug/L			12/14/21 05:20	1
Iodomethane	ND		1.0		ug/L			12/14/21 05:20	1
Methylene Chloride	ND		1.0		ug/L			12/14/21 05:20	1
Styrene	ND		1.0		ug/L			12/14/21 05:20	1
Tetrachloroethene	ND		1.0		ug/L			12/14/21 05:20	1
Trichlorofluoromethane	ND		1.0		ug/L			12/14/21 05:20	1
Trichloroethene	ND		1.0		ug/L			12/14/21 05:20	1
Toluene	ND		1.0		ug/L			12/14/21 05:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/14/21 05:20	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/14/21 05:20	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/14/21 05:20	1
Vinyl acetate	ND		5.0		ug/L			12/14/21 05:20	1
Vinyl chloride	ND		1.0		ug/L			12/14/21 05:20	1
Xylenes, Total	ND		2.0		ug/L			12/14/21 05:20	1
m,p-Xylene	ND		2.0		ug/L			12/14/21 05:20	1
o-Xylene	ND		1.0		ug/L			12/14/21 05:20	1

Client Sample ID: MW-1A

Date Collected: 12/10/21 08:45
Date Received: 12/13/21 10:00

Lab Sample ID: 480-193369-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*12/14/21 05:20*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/14/21 05:20*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*12/14/21 05:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.1**		0.20		mg/L		12/15/21 08:40	12/15/21 21:53	1
Antimony	ND		0.020		mg/L		12/15/21 08:40	12/15/21 21:53	1
Arsenic	ND		0.015		mg/L		12/15/21 08:40	12/15/21 21:53	1
Barium	**0.080**		0.0020		mg/L		12/15/21 08:40	12/15/21 21:53	1
Beryllium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 21:53	1
Boron	**0.023**		0.020		mg/L		12/15/21 08:40	12/15/21 21:53	1
Cadmium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 21:53	1
Calcium	**49.6**		0.50		mg/L		12/15/21 08:40	12/15/21 21:53	1
Chromium	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 21:53	1
Cobalt	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 21:53	1
Copper	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:53	1
Iron	**1.0**		0.050		mg/L		12/15/21 08:40	12/15/21 21:53	1
Lead	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:53	1
Magnesium	**11.1**		0.20		mg/L		12/15/21 08:40	12/15/21 21:53	1
Manganese	**0.13**		0.0030		mg/L		12/15/21 08:40	12/15/21 21:53	1
Nickel	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:53	1
Potassium	**1.2**		0.50		mg/L		12/15/21 08:40	12/15/21 21:53	1
Selenium	ND		0.025		mg/L		12/15/21 08:40	12/15/21 21:53	1
Silver	ND		0.0060		mg/L		12/15/21 08:40	12/15/21 21:53	1
Sodium	**12.3**		1.0		mg/L		12/15/21 08:40	12/15/21 21:53	1
Thallium	ND		0.020		mg/L		12/15/21 08:40	12/15/21 21:53	1
Vanadium	ND		0.0050		mg/L		12/15/21 08:40	12/15/21 21:53	1
Zinc	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/15/21 12:48	12/15/21 16:20	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**169**		0.50		mg/L			12/17/21 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/18/21 03:28	1
Alkalinity, Total	**130**		20.0		mg/L			12/15/21 21:21	2
Cyanide, Total	ND		0.010		mg/L		12/14/21 10:51	12/14/21 13:39	1
Ammonia	ND	F1	0.020		mg/L			12/14/21 10:57	1
Total Kjeldahl Nitrogen	**0.20**		0.20		mg/L		12/14/21 16:03	12/15/21 05:51	1
Nitrate as N	ND	H H3	0.050		mg/L			12/14/21 11:38	1
Chemical Oxygen Demand	ND		10.0		mg/L			12/17/21 19:30	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/14/21 06:56	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			12/13/21 14:10	1
Sulfate	**17.9**		5.0		mg/L			12/17/21 02:55	1
Total Dissolved Solids	**242**		10.0		mg/L			12/15/21 09:42	1

Client Sample ID: MW-1A
Lab Sample ID: 480-193369-1
Date Collected: 12/10/21 08:45
Matrix: Water
Date Received: 12/13/21 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.3**		1.0		mg/L			12/14/21 07:14	1
Biochemical Oxygen Demand	ND	H H3	2.0		mg/L			12/13/21 19:56	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			12/14/21 23:31	1
TOC Result 1	ND		1.0		mg/L			12/14/21 23:31	1
TOC Result 2	ND		1.0		mg/L			12/14/21 23:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**5.00**	**H H3**	5.00		Color Units			12/13/21 16:06	1

Client Sample ID: MW-2A
Lab Sample ID: 480-193369-2
Date Collected: 12/10/21 07:45
Matrix: Water
Date Received: 12/13/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/14/21 05:41	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/14/21 05:41	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/14/21 05:41	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/14/21 05:41	1
1,1-Dichloroethane	ND		1.0		ug/L			12/14/21 05:41	1
1,1-Dichloroethene	ND		1.0		ug/L			12/14/21 05:41	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/14/21 05:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/14/21 05:41	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/14/21 05:41	1
1,2-Dichloroethane	ND		1.0		ug/L			12/14/21 05:41	1
1,2-Dichloropropane	ND		1.0		ug/L			12/14/21 05:41	1
1,4-Dichlorobenzene	**1.1**		1.0		ug/L			12/14/21 05:41	1
2-Butanone (MEK)	ND		10		ug/L			12/14/21 05:41	1
2-Hexanone	ND		5.0		ug/L			12/14/21 05:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/14/21 05:41	1
Acetone	ND		10		ug/L			12/14/21 05:41	1
Acrylonitrile	ND		5.0		ug/L			12/14/21 05:41	1
Benzene	**1.3**		1.0		ug/L			12/14/21 05:41	1
Chlorobromomethane	ND		1.0		ug/L			12/14/21 05:41	1
Bromodichloromethane	ND		1.0		ug/L			12/14/21 05:41	1
Bromoform	ND		1.0		ug/L			12/14/21 05:41	1
Bromomethane	ND		1.0		ug/L			12/14/21 05:41	1
Carbon disulfide	ND		1.0		ug/L			12/14/21 05:41	1
Carbon tetrachloride	ND		1.0		ug/L			12/14/21 05:41	1
Chlorobenzene	**2.1**		1.0		ug/L			12/14/21 05:41	1
Dibromochloromethane	ND		1.0		ug/L			12/14/21 05:41	1
Chloroethane	ND		1.0		ug/L			12/14/21 05:41	1
Chloroform	ND		1.0		ug/L			12/14/21 05:41	1
Chloromethane	ND		1.0		ug/L			12/14/21 05:41	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/14/21 05:41	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/14/21 05:41	1
Dibromomethane	ND		1.0		ug/L			12/14/21 05:41	1
Ethylbenzene	ND		1.0		ug/L			12/14/21 05:41	1
1,2-Dibromoethane	ND		1.0		ug/L			12/14/21 05:41	1
Iodomethane	ND		1.0		ug/L			12/14/21 05:41	1
Methylene Chloride	ND		1.0		ug/L			12/14/21 05:41	1

Client Sample ID: MW-2A
Date Collected: 12/10/21 07:45
Date Received: 12/13/21 10:00

Lab Sample ID: 480-193369-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			12/14/21 05:41	1
Tetrachloroethene	ND		1.0		ug/L			12/14/21 05:41	1
Trichlorofluoromethane	ND		1.0		ug/L			12/14/21 05:41	1
Trichloroethene	ND		1.0		ug/L			12/14/21 05:41	1
Toluene	ND		1.0		ug/L			12/14/21 05:41	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/14/21 05:41	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/14/21 05:41	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/14/21 05:41	1
Vinyl acetate	ND		5.0		ug/L			12/14/21 05:41	1
Vinyl chloride	ND		1.0		ug/L			12/14/21 05:41	1
Xylenes, Total	ND		2.0		ug/L			12/14/21 05:41	1
m,p-Xylene	ND		2.0		ug/L			12/14/21 05:41	1
o-Xylene	ND		1.0		ug/L			12/14/21 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*12/14/21 05:41*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/14/21 05:41*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*12/14/21 05:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.1**		0.20		mg/L		12/15/21 08:40	12/15/21 21:57	1
Antimony	ND		0.020		mg/L		12/15/21 08:40	12/15/21 21:57	1
Arsenic	ND		0.015		mg/L		12/15/21 08:40	12/15/21 21:57	1
Barium	**0.44**		0.0020		mg/L		12/15/21 08:40	12/15/21 21:57	1
Beryllium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 21:57	1
Boron	**0.20**		0.020		mg/L		12/15/21 08:40	12/15/21 21:57	1
Cadmium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 21:57	1
Calcium	**84.1**		0.50		mg/L		12/15/21 08:40	12/15/21 21:57	1
Chromium	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 21:57	1
Cobalt	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 21:57	1
Copper	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:57	1
Iron	**9.5**		0.050		mg/L		12/15/21 08:40	12/15/21 21:57	1
Lead	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:57	1
Magnesium	**17.6**		0.20		mg/L		12/15/21 08:40	12/15/21 21:57	1
Manganese	**11.4**		0.0030		mg/L		12/15/21 08:40	12/15/21 21:57	1
Nickel	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:57	1
Potassium	**9.0**		0.50		mg/L		12/15/21 08:40	12/15/21 21:57	1
Selenium	ND		0.025		mg/L		12/15/21 08:40	12/15/21 21:57	1
Silver	ND		0.0060		mg/L		12/15/21 08:40	12/15/21 21:57	1
Sodium	**13.5**		1.0		mg/L		12/15/21 08:40	12/15/21 21:57	1
Thallium	ND		0.020		mg/L		12/15/21 08:40	12/15/21 21:57	1
Vanadium	ND		0.0050		mg/L		12/15/21 08:40	12/15/21 21:57	1
Zinc	ND		0.010		mg/L		12/15/21 08:40	12/15/21 21:57	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/15/21 12:48	12/15/21 16:26	1

Client Sample ID: MW-2A
Lab Sample ID: 480-193369-2

Date Collected: 12/10/21 07:45
Matrix: Water
Date Received: 12/13/21 10:00

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**282**		0.50		mg/L			12/17/21 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.40		mg/L			12/18/21 03:48	2
Alkalinity, Total	**339**		40.0		mg/L			12/15/21 21:22	4
Cyanide, Total	ND		0.010		mg/L		12/14/21 10:51	12/14/21 13:37	1
Ammonia	**7.1**		0.10		mg/L			12/14/21 11:09	5
Total Kjeldahl Nitrogen	**7.4**		0.40		mg/L		12/14/21 16:03	12/15/21 06:24	2
Nitrate as N	**0.11**	**H H3**	0.050		mg/L			12/14/21 12:44	1
Chemical Oxygen Demand	**11.5**		10.0		mg/L			12/17/21 19:30	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/14/21 06:59	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			12/13/21 14:10	1
Sulfate	ND		5.0		mg/L			12/17/21 02:55	1
Total Dissolved Solids	**350**		10.0		mg/L			12/15/21 09:42	1
Chloride	**20.0**		1.0		mg/L			12/14/21 07:21	1
Biochemical Oxygen Demand	**2.2**	**H H3 b**	2.0		mg/L			12/13/21 19:56	1
Total Organic Carbon - Duplicates	**7.5**		1.0		mg/L			12/15/21 00:17	1
TOC Result 1	**7.4**		1.0		mg/L			12/15/21 00:17	1
TOC Result 2	**7.5**		1.0		mg/L			12/15/21 00:17	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**10.0**	**H H3**	5.00		Color Units			12/13/21 16:06	1

Client Sample ID: MW-2B
Lab Sample ID: 480-193369-3

Date Collected: 12/10/21 08:05
Matrix: Water
Date Received: 12/13/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/14/21 06:04	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/14/21 06:04	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/14/21 06:04	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/14/21 06:04	1
1,1-Dichloroethane	ND		1.0		ug/L			12/14/21 06:04	1
1,1-Dichloroethene	ND		1.0		ug/L			12/14/21 06:04	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/14/21 06:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/14/21 06:04	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/14/21 06:04	1
1,2-Dichloroethane	ND		1.0		ug/L			12/14/21 06:04	1
1,2-Dichloropropane	ND		1.0		ug/L			12/14/21 06:04	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/14/21 06:04	1
2-Butanone (MEK)	ND		10		ug/L			12/14/21 06:04	1
2-Hexanone	ND		5.0		ug/L			12/14/21 06:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/14/21 06:04	1
Acetone	ND		10		ug/L			12/14/21 06:04	1
Acrylonitrile	ND		5.0		ug/L			12/14/21 06:04	1
Benzene	ND		1.0		ug/L			12/14/21 06:04	1
Chlorobromomethane	ND		1.0		ug/L			12/14/21 06:04	1
Bromodichloromethane	ND		1.0		ug/L			12/14/21 06:04	1
Bromoform	ND		1.0		ug/L			12/14/21 06:04	1

Client Sample ID: MW-2B
Date Collected: 12/10/21 08:05
Date Received: 12/13/21 10:00

Lab Sample ID: 480-193369-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0		ug/L			12/14/21 06:04	1
Carbon disulfide	ND		1.0		ug/L			12/14/21 06:04	1
Carbon tetrachloride	ND		1.0		ug/L			12/14/21 06:04	1
Chlorobenzene	ND		1.0		ug/L			12/14/21 06:04	1
Dibromochloromethane	ND		1.0		ug/L			12/14/21 06:04	1
Chloroethane	**4.7**		1.0		ug/L			12/14/21 06:04	1
Chloroform	ND		1.0		ug/L			12/14/21 06:04	1
Chloromethane	ND		1.0		ug/L			12/14/21 06:04	1
cis-1,2-Dichloroethene	**47**		1.0		ug/L			12/14/21 06:04	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/14/21 06:04	1
Dibromomethane	ND		1.0		ug/L			12/14/21 06:04	1
Ethylbenzene	ND		1.0		ug/L			12/14/21 06:04	1
1,2-Dibromoethane	ND		1.0		ug/L			12/14/21 06:04	1
Iodomethane	ND		1.0		ug/L			12/14/21 06:04	1
Methylene Chloride	ND		1.0		ug/L			12/14/21 06:04	1
Styrene	ND		1.0		ug/L			12/14/21 06:04	1
Tetrachloroethene	ND		1.0		ug/L			12/14/21 06:04	1
Trichlorofluoromethane	ND		1.0		ug/L			12/14/21 06:04	1
Trichloroethene	ND		1.0		ug/L			12/14/21 06:04	1
Toluene	ND		1.0		ug/L			12/14/21 06:04	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/14/21 06:04	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/14/21 06:04	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/14/21 06:04	1
Vinyl acetate	ND		5.0		ug/L			12/14/21 06:04	1
Vinyl chloride	**20**		1.0		ug/L			12/14/21 06:04	1
Xylenes, Total	ND		2.0		ug/L			12/14/21 06:04	1
m,p-Xylene	ND		2.0		ug/L			12/14/21 06:04	1
o-Xylene	ND		1.0		ug/L			12/14/21 06:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*12/14/21 06:04*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*12/14/21 06:04*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*12/14/21 06:04*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.32**		0.20		mg/L		12/15/21 08:40	12/15/21 22:01	1
Antimony	ND		0.020		mg/L		12/15/21 08:40	12/15/21 22:01	1
Arsenic	ND		0.015		mg/L		12/15/21 08:40	12/15/21 22:01	1
Barium	**1.0**		0.0020		mg/L		12/15/21 08:40	12/15/21 22:01	1
Beryllium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 22:01	1
Boron	**0.20**		0.020		mg/L		12/15/21 08:40	12/15/21 22:01	1
Cadmium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 22:01	1
Calcium	**175**		0.50		mg/L		12/15/21 08:40	12/15/21 22:01	1
Chromium	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 22:01	1
Cobalt	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 22:01	1
Copper	ND		0.010		mg/L		12/15/21 08:40	12/15/21 22:01	1
Iron	**0.34**		0.050		mg/L		12/15/21 08:40	12/15/21 22:01	1
Lead	ND		0.010		mg/L		12/15/21 08:40	12/15/21 22:01	1
Magnesium	**36.7**		0.20		mg/L		12/15/21 08:40	12/15/21 22:01	1

Client Sample ID: MW-2B
Lab Sample ID: 480-193369-3

Date Collected: 12/10/21 08:05
Matrix: Water
Date Received: 12/13/21 10:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**4.5**		0.0030		mg/L		12/15/21 08:40	12/15/21 22:01	1
Nickel	ND		0.010		mg/L		12/15/21 08:40	12/15/21 22:01	1
Potassium	**2.0**		0.50		mg/L		12/15/21 08:40	12/15/21 22:01	1
Selenium	ND		0.025		mg/L		12/15/21 08:40	12/15/21 22:01	1
Silver	ND		0.0060		mg/L		12/15/21 08:40	12/15/21 22:01	1
Sodium	**40.5**		1.0		mg/L		12/15/21 08:40	12/15/21 22:01	1
Thallium	ND		0.020		mg/L		12/15/21 08:40	12/15/21 22:01	1
Vanadium	ND		0.0050		mg/L		12/15/21 08:40	12/15/21 22:01	1
Zinc	**0.034**		0.010		mg/L		12/15/21 08:40	12/15/21 22:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/15/21 12:48	12/15/21 16:27	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**588**		0.50		mg/L			12/17/21 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.63**		0.40		mg/L			12/18/21 04:07	2
Alkalinity, Total	**560**		80.0		mg/L			12/15/21 21:27	8
Cyanide, Total	ND		0.010		mg/L		12/14/21 10:51	12/14/21 13:40	1
Ammonia	**0.44**		0.020		mg/L			12/14/21 11:01	1
Total Kjeldahl Nitrogen	**1.0**		0.20		mg/L		12/14/21 16:03	12/15/21 05:58	1
Nitrate as N	ND	H H3	0.050		mg/L			12/14/21 11:42	1
Chemical Oxygen Demand	ND		10.0		mg/L			12/17/21 19:30	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/14/21 10:47	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			12/13/21 14:10	1
Sulfate	ND		5.0		mg/L			12/17/21 02:56	1
Total Dissolved Solids	**696**		10.0		mg/L			12/15/21 09:42	1
Chloride	**80.7**		2.0		mg/L			12/14/21 07:44	2
Biochemical Oxygen Demand	ND	H H3	2.0		mg/L			12/13/21 19:56	1
Total Organic Carbon - Duplicates	**4.6**		1.0		mg/L			12/15/21 00:32	1
TOC Result 1	**4.5**		1.0		mg/L			12/15/21 00:32	1
TOC Result 2	**4.8**		1.0		mg/L			12/15/21 00:32	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**10.0**	**H H3**	5.00		Color Units			12/13/21 16:06	1

Client Sample ID: MW-1B
Lab Sample ID: 480-193369-4

Date Collected: 12/09/21 12:20
Matrix: Water
Date Received: 12/13/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/14/21 06:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/14/21 06:25	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/14/21 06:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/14/21 06:25	1
1,1-Dichloroethane	ND		1.0		ug/L			12/14/21 06:25	1

Client Sample ID: MW-1B
Date Collected: 12/09/21 12:20
Date Received: 12/13/21 10:00

Lab Sample ID: 480-193369-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0		ug/L			12/14/21 06:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/14/21 06:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/14/21 06:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/14/21 06:25	1
1,2-Dichloroethane	ND		1.0		ug/L			12/14/21 06:25	1
1,2-Dichloropropane	ND		1.0		ug/L			12/14/21 06:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/14/21 06:25	1
2-Butanone (MEK)	ND		10		ug/L			12/14/21 06:25	1
2-Hexanone	ND		5.0		ug/L			12/14/21 06:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/14/21 06:25	1
Acetone	ND		10		ug/L			12/14/21 06:25	1
Acrylonitrile	ND		5.0		ug/L			12/14/21 06:25	1
Benzene	ND		1.0		ug/L			12/14/21 06:25	1
Chlorobromomethane	ND		1.0		ug/L			12/14/21 06:25	1
Bromodichloromethane	ND		1.0		ug/L			12/14/21 06:25	1
Bromoform	ND		1.0		ug/L			12/14/21 06:25	1
Bromomethane	ND		1.0		ug/L			12/14/21 06:25	1
Carbon disulfide	ND		1.0		ug/L			12/14/21 06:25	1
Carbon tetrachloride	ND		1.0		ug/L			12/14/21 06:25	1
Chlorobenzene	ND		1.0		ug/L			12/14/21 06:25	1
Dibromochloromethane	ND		1.0		ug/L			12/14/21 06:25	1
Chloroethane	ND		1.0		ug/L			12/14/21 06:25	1
Chloroform	ND		1.0		ug/L			12/14/21 06:25	1
Chloromethane	ND		1.0		ug/L			12/14/21 06:25	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/14/21 06:25	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/14/21 06:25	1
Dibromomethane	ND		1.0		ug/L			12/14/21 06:25	1
Ethylbenzene	ND		1.0		ug/L			12/14/21 06:25	1
1,2-Dibromoethane	ND		1.0		ug/L			12/14/21 06:25	1
Iodomethane	ND		1.0		ug/L			12/14/21 06:25	1
Methylene Chloride	ND		1.0		ug/L			12/14/21 06:25	1
Styrene	ND		1.0		ug/L			12/14/21 06:25	1
Tetrachloroethene	ND		1.0		ug/L			12/14/21 06:25	1
Trichlorofluoromethane	ND		1.0		ug/L			12/14/21 06:25	1
Trichloroethene	ND		1.0		ug/L			12/14/21 06:25	1
Toluene	ND		1.0		ug/L			12/14/21 06:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/14/21 06:25	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/14/21 06:25	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/14/21 06:25	1
Vinyl acetate	ND		5.0		ug/L			12/14/21 06:25	1
Vinyl chloride	ND		1.0		ug/L			12/14/21 06:25	1
Xylenes, Total	ND		2.0		ug/L			12/14/21 06:25	1
m,p-Xylene	ND		2.0		ug/L			12/14/21 06:25	1
o-Xylene	ND		1.0		ug/L			12/14/21 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*12/14/21 06:25*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/14/21 06:25*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*12/14/21 06:25*	*1*

Client Sample ID: MW-1B
Date Collected: 12/09/21 12:20
Date Received: 12/13/21 10:00

Lab Sample ID: 480-193369-4
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.20**		0.20		mg/L		12/15/21 08:40	12/15/21 22:05	1
Antimony	ND		0.020		mg/L		12/15/21 08:40	12/15/21 22:05	1
Arsenic	ND		0.015		mg/L		12/15/21 08:40	12/15/21 22:05	1
Barium	**0.74**		0.0020		mg/L		12/15/21 08:40	12/15/21 22:05	1
Beryllium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 22:05	1
Boron	ND		0.020		mg/L		12/15/21 08:40	12/15/21 22:05	1
Cadmium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 22:05	1
Calcium	**26.8**		0.50		mg/L		12/15/21 08:40	12/15/21 22:05	1
Chromium	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 22:05	1
Cobalt	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 22:05	1
Copper	ND		0.010		mg/L		12/15/21 08:40	12/15/21 22:05	1
Iron	**0.63**		0.050		mg/L		12/15/21 08:40	12/15/21 22:05	1
Lead	ND		0.010		mg/L		12/15/21 08:40	12/15/21 22:05	1
Magnesium	**6.0**		0.20		mg/L		12/15/21 08:40	12/15/21 22:05	1
Manganese	**5.6**		0.0030		mg/L		12/15/21 08:40	12/15/21 22:05	1
Nickel	ND		0.010		mg/L		12/15/21 08:40	12/15/21 22:05	1
Potassium	ND		0.50		mg/L		12/15/21 08:40	12/15/21 22:05	1
Selenium	ND		0.025		mg/L		12/15/21 08:40	12/15/21 22:05	1
Silver	ND		0.0060		mg/L		12/15/21 08:40	12/15/21 22:05	1
Sodium	**6.0**		1.0		mg/L		12/15/21 08:40	12/15/21 22:05	1
Thallium	ND		0.020		mg/L		12/15/21 08:40	12/15/21 22:05	1
Vanadium	ND		0.0050		mg/L		12/15/21 08:40	12/15/21 22:05	1
Zinc	**0.046**		0.010		mg/L		12/15/21 08:40	12/15/21 22:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/15/21 12:48	12/15/21 16:28	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**91.6**		0.50		mg/L			12/17/21 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/18/21 04:27	1
Alkalinity, Total	**95.9**		20.0		mg/L			12/15/21 21:27	2
Cyanide, Total	ND		0.010		mg/L		12/14/21 10:51	12/14/21 13:42	1
Ammonia	ND		0.020		mg/L			12/14/21 11:02	1
Total Kjeldahl Nitrogen	ND		0.20		mg/L		12/14/21 16:03	12/15/21 05:58	1
Nitrate as N	ND	H H3	0.050		mg/L			12/14/21 11:43	1
Chemical Oxygen Demand	ND		10.0		mg/L			12/17/21 19:30	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/14/21 07:03	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			12/13/21 14:10	1
Sulfate	**7.2**		5.0		mg/L			12/17/21 02:56	1
Total Dissolved Solids	**143**		10.0		mg/L			12/14/21 11:17	1
Chloride	**4.3**		1.0		mg/L			12/14/21 07:25	1
Biochemical Oxygen Demand	ND	H H3	2.0		mg/L			12/13/21 19:56	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			12/15/21 00:47	1
TOC Result 1	ND		1.0		mg/L			12/15/21 00:47	1
TOC Result 2	ND		1.0		mg/L			12/15/21 00:47	1

Client Sample ID: MW-1B
Lab Sample ID: 480-193369-4

Date Collected: 12/09/21 12:20
Matrix: Water
Date Received: 12/13/21 10:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	5.00	H H3	5.00		Color Units			12/13/21 16:06	1

Client Sample ID: DUP MW-1B
Lab Sample ID: 480-193369-5

Date Collected: 12/09/21 13:45
Matrix: Water
Date Received: 12/13/21 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/14/21 06:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/14/21 06:47	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/14/21 06:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/14/21 06:47	1
1,1-Dichloroethane	ND		1.0		ug/L			12/14/21 06:47	1
1,1-Dichloroethene	ND		1.0		ug/L			12/14/21 06:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/14/21 06:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/14/21 06:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/14/21 06:47	1
1,2-Dichloroethane	ND		1.0		ug/L			12/14/21 06:47	1
1,2-Dichloropropane	ND		1.0		ug/L			12/14/21 06:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/14/21 06:47	1
2-Butanone (MEK)	ND		10		ug/L			12/14/21 06:47	1
2-Hexanone	ND		5.0		ug/L			12/14/21 06:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/14/21 06:47	1
Acetone	ND		10		ug/L			12/14/21 06:47	1
Acrylonitrile	ND		5.0		ug/L			12/14/21 06:47	1
Benzene	ND		1.0		ug/L			12/14/21 06:47	1
Chlorobromomethane	ND		1.0		ug/L			12/14/21 06:47	1
Bromodichloromethane	ND		1.0		ug/L			12/14/21 06:47	1
Bromoform	ND		1.0		ug/L			12/14/21 06:47	1
Bromomethane	ND		1.0		ug/L			12/14/21 06:47	1
Carbon disulfide	ND		1.0		ug/L			12/14/21 06:47	1
Carbon tetrachloride	ND		1.0		ug/L			12/14/21 06:47	1
Chlorobenzene	ND		1.0		ug/L			12/14/21 06:47	1
Dibromochloromethane	ND		1.0		ug/L			12/14/21 06:47	1
Chloroethane	ND		1.0		ug/L			12/14/21 06:47	1
Chloroform	ND		1.0		ug/L			12/14/21 06:47	1
Chloromethane	ND		1.0		ug/L			12/14/21 06:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/14/21 06:47	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/14/21 06:47	1
Dibromomethane	ND		1.0		ug/L			12/14/21 06:47	1
Ethylbenzene	ND		1.0		ug/L			12/14/21 06:47	1
1,2-Dibromoethane	ND		1.0		ug/L			12/14/21 06:47	1
Iodomethane	ND		1.0		ug/L			12/14/21 06:47	1
Methylene Chloride	ND		1.0		ug/L			12/14/21 06:47	1
Styrene	ND		1.0		ug/L			12/14/21 06:47	1
Tetrachloroethene	ND		1.0		ug/L			12/14/21 06:47	1
Trichlorofluoromethane	ND		1.0		ug/L			12/14/21 06:47	1
Trichloroethene	ND		1.0		ug/L			12/14/21 06:47	1
Toluene	ND		1.0		ug/L			12/14/21 06:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/14/21 06:47	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/14/21 06:47	1

Client Sample ID: DUP MW-1B
Lab Sample ID: 480-193369-5

Date Collected: 12/09/21 13:45
Matrix: Water
Date Received: 12/13/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/14/21 06:47	1
Vinyl acetate	ND		5.0		ug/L			12/14/21 06:47	1
Vinyl chloride	ND		1.0		ug/L			12/14/21 06:47	1
Xylenes, Total	ND		2.0		ug/L			12/14/21 06:47	1
m,p-Xylene	ND		2.0		ug/L			12/14/21 06:47	1
o-Xylene	ND		1.0		ug/L			12/14/21 06:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*12/14/21 06:47*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/14/21 06:47*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*12/14/21 06:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		12/15/21 08:40	12/15/21 22:09	1
Antimony	ND		0.020		mg/L		12/15/21 08:40	12/15/21 22:09	1
Arsenic	ND		0.015		mg/L		12/15/21 08:40	12/15/21 22:09	1
Barium	**0.32**		0.0020		mg/L		12/15/21 08:40	12/15/21 22:09	1
Beryllium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 22:09	1
Boron	ND		0.020		mg/L		12/15/21 08:40	12/15/21 22:09	1
Cadmium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 22:09	1
Calcium	**27.0**		0.50		mg/L		12/15/21 08:40	12/15/21 22:09	1
Chromium	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 22:09	1
Cobalt	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 22:09	1
Copper	ND		0.010		mg/L		12/15/21 08:40	12/15/21 22:09	1
Iron	**0.19**		0.050		mg/L		12/15/21 08:40	12/15/21 22:09	1
Lead	ND		0.010		mg/L		12/15/21 08:40	12/15/21 22:09	1
Magnesium	**6.1**		0.20		mg/L		12/15/21 08:40	12/15/21 22:09	1
Manganese	**1.2**		0.0030		mg/L		12/15/21 08:40	12/15/21 22:09	1
Nickel	ND		0.010		mg/L		12/15/21 08:40	12/15/21 22:09	1
Potassium	ND		0.50		mg/L		12/15/21 08:40	12/15/21 22:09	1
Selenium	ND		0.025		mg/L		12/15/21 08:40	12/15/21 22:09	1
Silver	ND		0.0060		mg/L		12/15/21 08:40	12/15/21 22:09	1
Sodium	**6.2**		1.0		mg/L		12/15/21 08:40	12/15/21 22:09	1
Thallium	ND		0.020		mg/L		12/15/21 08:40	12/15/21 22:09	1
Vanadium	ND		0.0050		mg/L		12/15/21 08:40	12/15/21 22:09	1
Zinc	**0.019**		0.010		mg/L		12/15/21 08:40	12/15/21 22:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/15/21 12:48	12/15/21 16:30	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**92.4**		0.50		mg/L			12/17/21 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/18/21 04:46	1
Alkalinity, Total	**90.7**		20.0		mg/L			12/15/21 21:27	2
Cyanide, Total	ND		0.010		mg/L		12/14/21 10:51	12/14/21 13:43	1

Client Sample ID: DUP MW-1B
Lab Sample ID: 480-193369-5

Date Collected: 12/09/21 13:45
Matrix: Water
Date Received: 12/13/21 10:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			12/14/21 11:05	1
Total Kjeldahl Nitrogen	ND		0.20		mg/L		12/14/21 16:03	12/15/21 05:58	1
Nitrate as N	ND	H H3	0.050		mg/L			12/14/21 11:45	1
Chemical Oxygen Demand	ND		10.0		mg/L			12/17/21 19:30	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/14/21 10:57	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			12/13/21 14:10	1
Sulfate	**7.1**		5.0		mg/L			12/17/21 02:56	1
Total Dissolved Solids	**192**		10.0		mg/L			12/14/21 11:17	1
Chloride	**4.5**		1.0		mg/L			12/14/21 07:25	1
Biochemical Oxygen Demand	ND	H H3	2.0		mg/L			12/13/21 19:56	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			12/15/21 01:02	1
TOC Result 1	ND		1.0		mg/L			12/15/21 01:02	1
TOC Result 2	ND		1.0		mg/L			12/15/21 01:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**5.00**	**H H3**	5.00		Color Units			12/13/21 16:06	1

Surrogate Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193369-1
SDG: 193337

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	BFB
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)
480-193369-1	MW-1A	111	102	97
480-193369-2	MW-2A	111	102	95
480-193369-3	MW-2B	109	103	96
480-193369-4	MW-1B	111	102	94
480-193369-5	DUP MW-1B	111	101	94
LCS 480-608629/6	Lab Control Sample	103	103	102
MB 480-608629/8	Method Blank	108	103	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-608629/8
Matrix: Water
Analysis Batch: 608629

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/13/21 23:29	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/13/21 23:29	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/13/21 23:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/13/21 23:29	1
1,1-Dichloroethane	ND		1.0		ug/L			12/13/21 23:29	1
1,1-Dichloroethene	ND		1.0		ug/L			12/13/21 23:29	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/13/21 23:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/13/21 23:29	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/13/21 23:29	1
1,2-Dichloroethane	ND		1.0		ug/L			12/13/21 23:29	1
1,2-Dichloropropane	ND		1.0		ug/L			12/13/21 23:29	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/13/21 23:29	1
2-Butanone (MEK)	ND		10		ug/L			12/13/21 23:29	1
2-Hexanone	ND		5.0		ug/L			12/13/21 23:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/13/21 23:29	1
Acetone	ND		10		ug/L			12/13/21 23:29	1
Acrylonitrile	ND		5.0		ug/L			12/13/21 23:29	1
Benzene	ND		1.0		ug/L			12/13/21 23:29	1
Chlorobromomethane	ND		1.0		ug/L			12/13/21 23:29	1
Bromodichloromethane	ND		1.0		ug/L			12/13/21 23:29	1
Bromoform	ND		1.0		ug/L			12/13/21 23:29	1
Bromomethane	ND		1.0		ug/L			12/13/21 23:29	1
Carbon disulfide	ND		1.0		ug/L			12/13/21 23:29	1
Carbon tetrachloride	ND		1.0		ug/L			12/13/21 23:29	1
Chlorobenzene	ND		1.0		ug/L			12/13/21 23:29	1
Dibromochloromethane	ND		1.0		ug/L			12/13/21 23:29	1
Chloroethane	ND		1.0		ug/L			12/13/21 23:29	1
Chloroform	ND		1.0		ug/L			12/13/21 23:29	1
Chloromethane	ND		1.0		ug/L			12/13/21 23:29	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/13/21 23:29	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/13/21 23:29	1
Dibromomethane	ND		1.0		ug/L			12/13/21 23:29	1
Ethylbenzene	ND		1.0		ug/L			12/13/21 23:29	1
1,2-Dibromoethane	ND		1.0		ug/L			12/13/21 23:29	1
Iodomethane	ND		1.0		ug/L			12/13/21 23:29	1
Methylene Chloride	ND		1.0		ug/L			12/13/21 23:29	1
Styrene	ND		1.0		ug/L			12/13/21 23:29	1
Tetrachloroethene	ND		1.0		ug/L			12/13/21 23:29	1
Trichlorofluoromethane	ND		1.0		ug/L			12/13/21 23:29	1
Trichloroethene	ND		1.0		ug/L			12/13/21 23:29	1
Toluene	ND		1.0		ug/L			12/13/21 23:29	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/13/21 23:29	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/13/21 23:29	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/13/21 23:29	1
Vinyl acetate	ND		5.0		ug/L			12/13/21 23:29	1
Vinyl chloride	ND		1.0		ug/L			12/13/21 23:29	1
Xylenes, Total	ND		2.0		ug/L			12/13/21 23:29	1
m,p-Xylene	ND		2.0		ug/L			12/13/21 23:29	1

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

Lab Sample ID: MB 480-608629/8
Matrix: Water
Analysis Batch: 608629

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			12/13/21 23:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*12/13/21 23:29*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*12/13/21 23:29*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*12/13/21 23:29*	*1*

Lab Sample ID: LCS 480-608629/6
Matrix: Water
Analysis Batch: 608629

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.7		ug/L		107	80 - 120
1,1,1-Trichloroethane	25.0	30.2		ug/L		121	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.6		ug/L		106	76 - 120
1,1,2-Trichloroethane	25.0	27.2		ug/L		109	76 - 122
1,1-Dichloroethane	25.0	28.0		ug/L		112	77 - 120
1,1-Dichloroethene	25.0	30.4		ug/L		122	66 - 127
1,2,3-Trichloropropane	25.0	26.1		ug/L		104	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.5		ug/L		110	56 - 134
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	26.7		ug/L		107	75 - 120
1,2-Dichloropropane	25.0	29.7		ug/L		119	76 - 120
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 120
2-Butanone (MEK)	125	149		ug/L		119	57 - 140
2-Hexanone	125	142		ug/L		114	65 - 127
4-Methyl-2-pentanone (MIBK)	125	136		ug/L		109	71 - 125
Acetone	125	144		ug/L		116	56 - 142
Acrylonitrile	250	275		ug/L		110	63 - 125
Benzene	25.0	28.8		ug/L		115	71 - 124
Chlorobromomethane	25.0	27.7		ug/L		111	72 - 130
Bromodichloromethane	25.0	28.5		ug/L		114	80 - 122
Bromoform	25.0	26.7		ug/L		107	61 - 132
Bromomethane	25.0	29.2		ug/L		117	55 - 144
Carbon disulfide	25.0	29.5		ug/L		118	59 - 134
Carbon tetrachloride	25.0	30.8		ug/L		123	72 - 134
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120
Dibromochloromethane	25.0	27.1		ug/L		108	75 - 125
Chloroethane	25.0	27.8		ug/L		111	69 - 136
Chloroform	25.0	26.2		ug/L		105	73 - 127
Chloromethane	25.0	27.5		ug/L		110	68 - 124
cis-1,2-Dichloroethene	25.0	28.0		ug/L		112	74 - 124
cis-1,3-Dichloropropene	25.0	29.8		ug/L		119	74 - 124
Dibromomethane	25.0	27.6		ug/L		111	76 - 127
Ethylbenzene	25.0	27.0		ug/L		108	77 - 123
1,2-Dibromoethane	25.0	26.5		ug/L		106	77 - 120
Iodomethane	25.0	26.3		ug/L		105	78 - 123
Methylene Chloride	25.0	25.3		ug/L		101	75 - 124

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

Lab Sample ID: LCS 480-608629/6
Matrix: Water
Analysis Batch: 608629

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	27.1		ug/L		109	80 - 120
Tetrachloroethene	25.0	26.6		ug/L		106	74 - 122
Trichlorofluoromethane	25.0	27.1		ug/L		109	62 - 150
Trichloroethene	25.0	29.2		ug/L		117	74 - 123
Toluene	25.0	26.3		ug/L		105	80 - 122
trans-1,2-Dichloroethene	25.0	27.9		ug/L		111	73 - 127
trans-1,3-Dichloropropene	25.0	28.0		ug/L		112	80 - 120
trans-1,4-Dichloro-2-butene	25.0	26.1		ug/L		105	41 - 131
Vinyl acetate	50.0	57.5		ug/L		115	50 - 144
Vinyl chloride	25.0	31.3		ug/L		125	65 - 133
m,p-Xylene	25.0	26.6		ug/L		106	76 - 122
o-Xylene	25.0	26.1		ug/L		105	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-608816/1-A
Matrix: Water
Analysis Batch: 609081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608816

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		12/15/21 08:40	12/15/21 20:31	1
Antimony	ND		0.020		mg/L		12/15/21 08:40	12/15/21 20:31	1
Arsenic	ND		0.015		mg/L		12/15/21 08:40	12/15/21 20:31	1
Barium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 20:31	1
Beryllium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 20:31	1
Boron	ND		0.020		mg/L		12/15/21 08:40	12/15/21 20:31	1
Cadmium	ND		0.0020		mg/L		12/15/21 08:40	12/15/21 20:31	1
Calcium	ND		0.50		mg/L		12/15/21 08:40	12/15/21 20:31	1
Chromium	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 20:31	1
Cobalt	ND		0.0040		mg/L		12/15/21 08:40	12/15/21 20:31	1
Copper	ND		0.010		mg/L		12/15/21 08:40	12/15/21 20:31	1
Iron	ND		0.050		mg/L		12/15/21 08:40	12/15/21 20:31	1
Lead	ND		0.010		mg/L		12/15/21 08:40	12/15/21 20:31	1
Magnesium	ND		0.20		mg/L		12/15/21 08:40	12/15/21 20:31	1
Manganese	ND		0.0030		mg/L		12/15/21 08:40	12/15/21 20:31	1
Nickel	ND		0.010		mg/L		12/15/21 08:40	12/15/21 20:31	1
Potassium	ND		0.50		mg/L		12/15/21 08:40	12/15/21 20:31	1
Selenium	ND		0.025		mg/L		12/15/21 08:40	12/15/21 20:31	1
Silver	ND		0.0060		mg/L		12/15/21 08:40	12/15/21 20:31	1
Sodium	ND		1.0		mg/L		12/15/21 08:40	12/15/21 20:31	1
Thallium	ND		0.020		mg/L		12/15/21 08:40	12/15/21 20:31	1
Vanadium	ND		0.0050		mg/L		12/15/21 08:40	12/15/21 20:31	1
Zinc	ND		0.010		mg/L		12/15/21 08:40	12/15/21 20:31	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-608816/2-A
Matrix: Water
Analysis Batch: 609081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.94		mg/L		99	80 - 120
Antimony	0.200	0.217		mg/L		108	80 - 120
Arsenic	0.200	0.209		mg/L		104	80 - 120
Barium	0.200	0.213		mg/L		107	80 - 120
Beryllium	0.200	0.207		mg/L		103	80 - 120
Boron	0.200	0.207		mg/L		104	80 - 120
Cadmium	0.200	0.205		mg/L		102	80 - 120
Calcium	10.0	10.01		mg/L		100	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.200	0.193		mg/L		97	80 - 120
Copper	0.200	0.193		mg/L		97	80 - 120
Iron	10.0	10.03		mg/L		100	80 - 120
Lead	0.200	0.194		mg/L		97	80 - 120
Magnesium	10.0	10.16		mg/L		102	80 - 120
Manganese	0.200	0.202		mg/L		101	80 - 120
Nickel	0.200	0.191		mg/L		95	80 - 120
Potassium	10.0	9.61		mg/L		96	80 - 120
Selenium	0.200	0.195		mg/L		98	80 - 120
Silver	0.0500	0.0486		mg/L		97	80 - 120
Sodium	10.0	9.61		mg/L		96	80 - 120
Thallium	0.200	0.198		mg/L		99	80 - 120
Vanadium	0.200	0.197		mg/L		99	80 - 120
Zinc	0.200	0.206		mg/L		103	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-608976/1-A
Matrix: Water
Analysis Batch: 609041

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/15/21 12:48	12/15/21 16:07	1

Lab Sample ID: LCS 480-608976/2-A
Matrix: Water
Analysis Batch: 609041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00648		mg/L		97	80 - 120

Lab Sample ID: LCSD 480-608976/3-A
Matrix: Water
Analysis Batch: 609041

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 608976

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00667	0.00658		mg/L		99	80 - 120	2	20

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-193369-1 MS — **Client Sample ID: MW-1A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609041 — **Prep Batch: 608976**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00662		mg/L		99	80 - 120

Lab Sample ID: 480-193369-1 MSD — **Client Sample ID: MW-1A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609041 — **Prep Batch: 608976**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00668		mg/L		100	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-609280/28 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/17/21 22:35	1

Lab Sample ID: LCS 480-609280/27 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	4.86		mg/L		97	90 - 110

Lab Sample ID: 480-193369-5 MS — **Client Sample ID: DUP MW-1B**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609280

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	ND		5.00	4.68		mg/L		94	80 - 120

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-609054/119 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 19:41	1

Lab Sample ID: MB 480-609054/127 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 19:44	1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-609054/139
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 19:56	1

Lab Sample ID: MB 480-609054/227
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 21:17	1

Lab Sample ID: MB 480-609054/236
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 21:20	1

Lab Sample ID: MB 480-609054/248
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 21:24	1

Lab Sample ID: MB 480-609054/45
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 19:18	1

Lab Sample ID: MB 480-609054/55
Matrix: Water
Analysis Batch: 609054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/15/21 19:23	1

Lab Sample ID: LCS 480-609054/126
Matrix: Water
Analysis Batch: 609054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.96		mg/L		106	90 - 110

Lab Sample ID: LCS 480-609054/138
Matrix: Water
Analysis Batch: 609054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.22		mg/L		102	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-609054/235
Matrix: Water
Analysis Batch: 609054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.04		mg/L		104	90 - 110

Lab Sample ID: LCS 480-609054/247
Matrix: Water
Analysis Batch: 609054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.39		mg/L		105	90 - 110

Lab Sample ID: LCS 480-609054/54
Matrix: Water
Analysis Batch: 609054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.34		mg/L		105	90 - 110

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-608774/1-A
Matrix: Water
Analysis Batch: 608835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 608774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		12/14/21 10:51	12/14/21 13:14	1

Lab Sample ID: LCS 480-608774/2-A
Matrix: Water
Analysis Batch: 608835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 608774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.234		mg/L		94	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-608780/3
Matrix: Water
Analysis Batch: 608780

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			12/14/21 10:52	1

Lab Sample ID: LCS 480-608780/4
Matrix: Water
Analysis Batch: 608780

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.997		mg/L		100	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 480-193369-1 MS — **Client Sample ID: MW-1A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 608780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND	F1	0.200	0.183	F1	mg/L		82	90 - 110

Lab Sample ID: 480-193369-5 MS — **Client Sample ID: DUP MW-1B**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 608780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND		0.200	0.204		mg/L		102	90 - 110

Lab Sample ID: 480-193369-5 DU — **Client Sample ID: DUP MW-1B**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 608780

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND		ND		mg/L		NC	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-608866/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 608899 — **Prep Batch: 608866**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		12/14/21 16:03	12/15/21 05:20	1

Lab Sample ID: LCS 480-608866/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 608899 — **Prep Batch: 608866**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.33		mg/L		93	90 - 110

Lab Sample ID: 480-193369-2 MS — **Client Sample ID: MW-2A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 608899 — **Prep Batch: 608866**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	7.4		1.00	8.30	4	mg/L		87	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-609392/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			12/17/21 19:30	1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-609392/5
Matrix: Water
Analysis Batch: 609392

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	26.35		mg/L		105	90 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-608721/16
Matrix: Water
Analysis Batch: 608721

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			12/14/21 06:29	1

Lab Sample ID: LCS 480-608721/17
Matrix: Water
Analysis Batch: 608721

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.0943		mg/L		94	90 - 110

Lab Sample ID: MB 480-608788/16
Matrix: Water
Analysis Batch: 608788

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			12/14/21 10:32	1

Lab Sample ID: LCS 480-608788/17
Matrix: Water
Analysis Batch: 608788

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.0937		mg/L		94	90 - 110

Lab Sample ID: 480-193369-3 MS
Matrix: Water
Analysis Batch: 608788

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	ND		0.100	0.0997		mg/L		100	90 - 110

Lab Sample ID: 480-193369-3 DU
Matrix: Water
Analysis Batch: 608788

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Phenolics, Total Recoverable	ND		ND		mg/L		NC	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-608674/3
Matrix: Water
Analysis Batch: 608674

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010		mg/L			12/13/21 14:10	1

Lab Sample ID: LCS 480-608674/4
Matrix: Water
Analysis Batch: 608674

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0500	0.0525		mg/L		105	85 - 115

Lab Sample ID: 480-193369-4 MS
Matrix: Water
Analysis Batch: 608674

Client Sample ID: MW-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND	H H3	0.0500	0.0512		mg/L		102	85 - 115

Lab Sample ID: 480-193369-5 DU
Matrix: Water
Analysis Batch: 608674

Client Sample ID: DUP MW-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	ND	H H3	ND		mg/L		NC	20

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-609236/162
Matrix: Water
Analysis Batch: 609236

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			12/16/21 21:16	1

Lab Sample ID: LCS 480-609236/163
Matrix: Water
Analysis Batch: 609236

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	29.34		mg/L		98	90 - 110

Method: SM 2120B - Color, Colorimetric

Lab Sample ID: MB 480-608673/3
Matrix: Water
Analysis Batch: 608673

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.00		Color Units			12/13/21 16:06	1

Method: SM 2120B - Color, Colorimetric (Continued)

Lab Sample ID: LCS 480-608673/4
Matrix: Water
Analysis Batch: 608673

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Color			30.0	30.00		Color Units		100	90 - 110		

Lab Sample ID: 480-193369-5 DU
Matrix: Water
Analysis Batch: 608673

Client Sample ID: DUP MW-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Color	5.00	H H3		5.000		Color Units				0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-608781/1
Matrix: Water
Analysis Batch: 608781

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			12/14/21 11:17	1

Lab Sample ID: LCS 480-608781/2
Matrix: Water
Analysis Batch: 608781

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			504	526.0		mg/L		104	85 - 115		

Lab Sample ID: MB 480-608941/1
Matrix: Water
Analysis Batch: 608941

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			12/15/21 09:42	1

Lab Sample ID: LCS 480-608941/2
Matrix: Water
Analysis Batch: 608941

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			504	486.0		mg/L		96	85 - 115		

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 480-608717/239
Matrix: Water
Analysis Batch: 608717

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/14/21 06:57	1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: MB 480-608717/248
Matrix: Water
Analysis Batch: 608717

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/14/21 07:03	1

Lab Sample ID: MB 480-608717/260
Matrix: Water
Analysis Batch: 608717

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/14/21 07:09	1

Lab Sample ID: MB 480-608717/272
Matrix: Water
Analysis Batch: 608717

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/14/21 07:18	1

Lab Sample ID: MB 480-608717/281
Matrix: Water
Analysis Batch: 608717

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/14/21 07:22	1

Lab Sample ID: MB 480-608717/293
Matrix: Water
Analysis Batch: 608717

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/14/21 07:27	1

Lab Sample ID: MB 480-608717/297
Matrix: Water
Analysis Batch: 608717

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/14/21 07:43	1

Lab Sample ID: LCS 480-608717/247
Matrix: Water
Analysis Batch: 608717

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.72		mg/L		107	90 - 110

Lab Sample ID: LCS 480-608717/259
Matrix: Water
Analysis Batch: 608717

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.58		mg/L		106	90 - 110

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: LCS 480-608717/271
Matrix: Water
Analysis Batch: 608717

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.49		mg/L		106	90 - 110

Lab Sample ID: LCS 480-608717/280
Matrix: Water
Analysis Batch: 608717

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	27.02		mg/L		108	90 - 110

Lab Sample ID: LCS 480-608717/296
Matrix: Water
Analysis Batch: 608717

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.55		mg/L		106	90 - 110

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-608699/1
Matrix: Water
Analysis Batch: 608699

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			12/13/21 19:56	1

Lab Sample ID: LCS 480-608699/2
Matrix: Water
Analysis Batch: 608699

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	201.1		mg/L		102	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 480-608965/28
Matrix: Water
Analysis Batch: 608965

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			12/14/21 23:01	1
TOC Result 1	ND		1.0		mg/L			12/14/21 23:01	1
TOC Result 2	ND		1.0		mg/L			12/14/21 23:01	1

Lab Sample ID: LCS 480-608965/29
Matrix: Water
Analysis Batch: 608965

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	60.0	63.50		mg/L		106	90 - 110
TOC Result 1	60.0	62.26		mg/L		104	90 - 110

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-608965/29
Matrix: Water
Analysis Batch: 608965

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
TOC Result 2			60.0	64.74		mg/L		108	90 - 110		

Lab Sample ID: 480-193369-1 MS
Matrix: Water
Analysis Batch: 608965

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates	ND		22.7	27.93		mg/L		120	54 - 131		
TOC Result 1	ND		22.7	27.63		mg/L		119	54 - 131		
TOC Result 2	ND		22.7	28.23		mg/L		121	54 - 131		

Lab Sample ID: 480-193369-1 MSD
Matrix: Water
Analysis Batch: 608965

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	ND		22.7	27.68		mg/L		119	54 - 131	1	20
TOC Result 1	ND		22.7	27.38		mg/L		118	54 - 131	1	20
TOC Result 2	ND		22.7	27.97		mg/L		120	54 - 131	1	20

Qualifiers

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
b	Result Detected in the Unseeded Control blank (USB).
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

Glossary

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

GC/MS VOA

Analysis Batch: 608629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	8260C	
480-193369-2	MW-2A	Total/NA	Water	8260C	
480-193369-3	MW-2B	Total/NA	Water	8260C	
480-193369-4	MW-1B	Total/NA	Water	8260C	
480-193369-5	DUP MW-1B	Total/NA	Water	8260C	
MB 480-608629/8	Method Blank	Total/NA	Water	8260C	
LCS 480-608629/6	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 608816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	3005A	
480-193369-2	MW-2A	Total/NA	Water	3005A	
480-193369-3	MW-2B	Total/NA	Water	3005A	
480-193369-4	MW-1B	Total/NA	Water	3005A	
480-193369-5	DUP MW-1B	Total/NA	Water	3005A	
MB 480-608816/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-608816/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 608976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	7470A	
480-193369-2	MW-2A	Total/NA	Water	7470A	
480-193369-3	MW-2B	Total/NA	Water	7470A	
480-193369-4	MW-1B	Total/NA	Water	7470A	
480-193369-5	DUP MW-1B	Total/NA	Water	7470A	
MB 480-608976/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-608976/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 480-608976/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
480-193369-1 MS	MW-1A	Total/NA	Water	7470A	
480-193369-1 MSD	MW-1A	Total/NA	Water	7470A	

Analysis Batch: 609041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	7470A	608976
480-193369-2	MW-2A	Total/NA	Water	7470A	608976
480-193369-3	MW-2B	Total/NA	Water	7470A	608976
480-193369-4	MW-1B	Total/NA	Water	7470A	608976
480-193369-5	DUP MW-1B	Total/NA	Water	7470A	608976
MB 480-608976/1-A	Method Blank	Total/NA	Water	7470A	608976
LCS 480-608976/2-A	Lab Control Sample	Total/NA	Water	7470A	608976
LCSD 480-608976/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	608976
480-193369-1 MS	MW-1A	Total/NA	Water	7470A	608976
480-193369-1 MSD	MW-1A	Total/NA	Water	7470A	608976

Analysis Batch: 609081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	6010C	608816
480-193369-2	MW-2A	Total/NA	Water	6010C	608816
480-193369-3	MW-2B	Total/NA	Water	6010C	608816

Metals (Continued)

Analysis Batch: 609081 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-4	MW-1B	Total/NA	Water	6010C	608816
480-193369-5	DUP MW-1B	Total/NA	Water	6010C	608816
MB 480-608816/1-A	Method Blank	Total/NA	Water	6010C	608816
LCS 480-608816/2-A	Lab Control Sample	Total/NA	Water	6010C	608816

Analysis Batch: 609320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	SM 2340B	
480-193369-2	MW-2A	Total/NA	Water	SM 2340B	
480-193369-3	MW-2B	Total/NA	Water	SM 2340B	
480-193369-4	MW-1B	Total/NA	Water	SM 2340B	
480-193369-5	DUP MW-1B	Total/NA	Water	SM 2340B	

General Chemistry

Analysis Batch: 608673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	SM 2120B	
480-193369-2	MW-2A	Total/NA	Water	SM 2120B	
480-193369-3	MW-2B	Total/NA	Water	SM 2120B	
480-193369-4	MW-1B	Total/NA	Water	SM 2120B	
480-193369-5	DUP MW-1B	Total/NA	Water	SM 2120B	
MB 480-608673/3	Method Blank	Total/NA	Water	SM 2120B	
LCS 480-608673/4	Lab Control Sample	Total/NA	Water	SM 2120B	
480-193369-5 DU	DUP MW-1B	Total/NA	Water	SM 2120B	

Analysis Batch: 608674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	7196A	
480-193369-2	MW-2A	Total/NA	Water	7196A	
480-193369-3	MW-2B	Total/NA	Water	7196A	
480-193369-4	MW-1B	Total/NA	Water	7196A	
480-193369-5	DUP MW-1B	Total/NA	Water	7196A	
MB 480-608674/3	Method Blank	Total/NA	Water	7196A	
LCS 480-608674/4	Lab Control Sample	Total/NA	Water	7196A	
480-193369-4 MS	MW-1B	Total/NA	Water	7196A	
480-193369-5 DU	DUP MW-1B	Total/NA	Water	7196A	

Analysis Batch: 608699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	SM 5210B	
480-193369-2	MW-2A	Total/NA	Water	SM 5210B	
480-193369-3	MW-2B	Total/NA	Water	SM 5210B	
480-193369-4	MW-1B	Total/NA	Water	SM 5210B	
480-193369-5	DUP MW-1B	Total/NA	Water	SM 5210B	
USB 480-608699/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-608699/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 608717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 608717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-2	MW-2A	Total/NA	Water	SM 4500 Cl- E	
480-193369-3	MW-2B	Total/NA	Water	SM 4500 Cl- E	
480-193369-4	MW-1B	Total/NA	Water	SM 4500 Cl- E	
480-193369-5	DUP MW-1B	Total/NA	Water	SM 4500 Cl- E	
MB 480-608717/239	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-608717/248	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-608717/260	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-608717/272	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-608717/281	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-608717/293	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-608717/297	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 480-608717/247	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-608717/259	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-608717/271	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-608717/280	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-608717/296	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 608721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	420.4	
480-193369-2	MW-2A	Total/NA	Water	420.4	
480-193369-4	MW-1B	Total/NA	Water	420.4	
MB 480-608721/16	Method Blank	Total/NA	Water	420.4	
LCS 480-608721/17	Lab Control Sample	Total/NA	Water	420.4	

Prep Batch: 608774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	Distill/CN	
480-193369-2	MW-2A	Total/NA	Water	Distill/CN	
480-193369-3	MW-2B	Total/NA	Water	Distill/CN	
480-193369-4	MW-1B	Total/NA	Water	Distill/CN	
480-193369-5	DUP MW-1B	Total/NA	Water	Distill/CN	
MB 480-608774/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-608774/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 608780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	350.1	
480-193369-2	MW-2A	Total/NA	Water	350.1	
480-193369-3	MW-2B	Total/NA	Water	350.1	
480-193369-4	MW-1B	Total/NA	Water	350.1	
480-193369-5	DUP MW-1B	Total/NA	Water	350.1	
MB 480-608780/3	Method Blank	Total/NA	Water	350.1	
LCS 480-608780/4	Lab Control Sample	Total/NA	Water	350.1	
480-193369-1 MS	MW-1A	Total/NA	Water	350.1	
480-193369-5 MS	DUP MW-1B	Total/NA	Water	350.1	
480-193369-5 DU	DUP MW-1B	Total/NA	Water	350.1	

Analysis Batch: 608781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-4	MW-1B	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 608781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-5	DUP MW-1B	Total/NA	Water	SM 2540C	
MB 480-608781/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-608781/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 608788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-3	MW-2B	Total/NA	Water	420.4	
480-193369-5	DUP MW-1B	Total/NA	Water	420.4	
MB 480-608788/16	Method Blank	Total/NA	Water	420.4	
LCS 480-608788/17	Lab Control Sample	Total/NA	Water	420.4	
480-193369-3 MS	MW-2B	Total/NA	Water	420.4	
480-193369-3 DU	MW-2B	Total/NA	Water	420.4	

Analysis Batch: 608835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	335.4	608774
480-193369-2	MW-2A	Total/NA	Water	335.4	608774
480-193369-3	MW-2B	Total/NA	Water	335.4	608774
480-193369-4	MW-1B	Total/NA	Water	335.4	608774
480-193369-5	DUP MW-1B	Total/NA	Water	335.4	608774
MB 480-608774/1-A	Method Blank	Total/NA	Water	335.4	608774
LCS 480-608774/2-A	Lab Control Sample	Total/NA	Water	335.4	608774

Analysis Batch: 608837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	353.2	
480-193369-2	MW-2A	Total/NA	Water	353.2	
480-193369-3	MW-2B	Total/NA	Water	353.2	
480-193369-4	MW-1B	Total/NA	Water	353.2	
480-193369-5	DUP MW-1B	Total/NA	Water	353.2	

Prep Batch: 608866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	351.2	
480-193369-2	MW-2A	Total/NA	Water	351.2	
480-193369-3	MW-2B	Total/NA	Water	351.2	
480-193369-4	MW-1B	Total/NA	Water	351.2	
480-193369-5	DUP MW-1B	Total/NA	Water	351.2	
MB 480-608866/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-608866/2-A	Lab Control Sample	Total/NA	Water	351.2	
480-193369-2 MS	MW-2A	Total/NA	Water	351.2	

Analysis Batch: 608899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	351.2	608866
480-193369-2	MW-2A	Total/NA	Water	351.2	608866
480-193369-3	MW-2B	Total/NA	Water	351.2	608866
480-193369-4	MW-1B	Total/NA	Water	351.2	608866
480-193369-5	DUP MW-1B	Total/NA	Water	351.2	608866
MB 480-608866/1-A	Method Blank	Total/NA	Water	351.2	608866
LCS 480-608866/2-A	Lab Control Sample	Total/NA	Water	351.2	608866

General Chemistry (Continued)

Analysis Batch: 608899 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-2 MS	MW-2A	Total/NA	Water	351.2	608866

Analysis Batch: 608941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	SM 2540C	
480-193369-2	MW-2A	Total/NA	Water	SM 2540C	
480-193369-3	MW-2B	Total/NA	Water	SM 2540C	
MB 480-608941/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-608941/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 608965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	SM 5310C	
480-193369-2	MW-2A	Total/NA	Water	SM 5310C	
480-193369-3	MW-2B	Total/NA	Water	SM 5310C	
480-193369-4	MW-1B	Total/NA	Water	SM 5310C	
480-193369-5	DUP MW-1B	Total/NA	Water	SM 5310C	
MB 480-608965/28	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-608965/29	Lab Control Sample	Total/NA	Water	SM 5310C	
480-193369-1 MS	MW-1A	Total/NA	Water	SM 5310C	
480-193369-1 MSD	MW-1A	Total/NA	Water	SM 5310C	

Analysis Batch: 609054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	310.2	
480-193369-2	MW-2A	Total/NA	Water	310.2	
480-193369-3	MW-2B	Total/NA	Water	310.2	
480-193369-4	MW-1B	Total/NA	Water	310.2	
480-193369-5	DUP MW-1B	Total/NA	Water	310.2	
MB 480-609054/119	Method Blank	Total/NA	Water	310.2	
MB 480-609054/127	Method Blank	Total/NA	Water	310.2	
MB 480-609054/139	Method Blank	Total/NA	Water	310.2	
MB 480-609054/227	Method Blank	Total/NA	Water	310.2	
MB 480-609054/236	Method Blank	Total/NA	Water	310.2	
MB 480-609054/248	Method Blank	Total/NA	Water	310.2	
MB 480-609054/45	Method Blank	Total/NA	Water	310.2	
MB 480-609054/55	Method Blank	Total/NA	Water	310.2	
LCS 480-609054/126	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-609054/138	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-609054/235	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-609054/247	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-609054/54	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 609236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	9038	
480-193369-2	MW-2A	Total/NA	Water	9038	
480-193369-3	MW-2B	Total/NA	Water	9038	
480-193369-4	MW-1B	Total/NA	Water	9038	
480-193369-5	DUP MW-1B	Total/NA	Water	9038	
MB 480-609236/162	Method Blank	Total/NA	Water	9038	

General Chemistry (Continued)

Analysis Batch: 609236 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-609236/163	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 609280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	300.0	
480-193369-2	MW-2A	Total/NA	Water	300.0	
480-193369-3	MW-2B	Total/NA	Water	300.0	
480-193369-4	MW-1B	Total/NA	Water	300.0	
480-193369-5	DUP MW-1B	Total/NA	Water	300.0	
MB 480-609280/28	Method Blank	Total/NA	Water	300.0	
LCS 480-609280/27	Lab Control Sample	Total/NA	Water	300.0	
480-193369-5 MS	DUP MW-1B	Total/NA	Water	300.0	

Analysis Batch: 609392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193369-1	MW-1A	Total/NA	Water	410.4	
480-193369-2	MW-2A	Total/NA	Water	410.4	
480-193369-3	MW-2B	Total/NA	Water	410.4	
480-193369-4	MW-1B	Total/NA	Water	410.4	
480-193369-5	DUP MW-1B	Total/NA	Water	410.4	
MB 480-609392/4	Method Blank	Total/NA	Water	410.4	
LCS 480-609392/5	Lab Control Sample	Total/NA	Water	410.4	

Client Sample ID: MW-1A

Date Collected: 12/10/21 08:45
Date Received: 12/13/21 10:00

Lab Sample ID: 480-193369-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	608629	12/14/21 05:20	CRL	TAL BUF
Total/NA	Prep	3005A			608816	12/15/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609081	12/15/21 21:53	AMH	TAL BUF
Total/NA	Prep	7470A			608976	12/15/21 12:48	BMB	TAL BUF
Total/NA	Analysis	7470A		1	609041	12/15/21 16:20	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	609320	12/17/21 12:12	JJP	TAL BUF
Total/NA	Analysis	300.0		1	609280	12/18/21 03:28	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	609054	12/15/21 21:21	SRW	TAL BUF
Total/NA	Prep	Distill/CN			608774	12/14/21 10:51	RJM	TAL BUF
Total/NA	Analysis	335.4		1	608835	12/14/21 13:39	JGO	TAL BUF
Total/NA	Analysis	350.1		1	608780	12/14/21 10:57	CLT	TAL BUF
Total/NA	Prep	351.2			608866	12/14/21 16:03	KEB	TAL BUF
Total/NA	Analysis	351.2		1	608899	12/15/21 05:51	CLT	TAL BUF
Total/NA	Analysis	353.2		1	608837	12/14/21 11:38	PRD	TAL BUF
Total/NA	Analysis	410.4		1	609392	12/17/21 19:30	CSS	TAL BUF
Total/NA	Analysis	420.4		1	608721	12/14/21 06:56	CLT	TAL BUF
Total/NA	Analysis	7196A		1	608674	12/13/21 14:10	MJB	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 02:55	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	608673	12/13/21 16:06	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	608941	12/15/21 09:42	EJL	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	608717	12/14/21 07:14	KEB	TAL BUF
Total/NA	Analysis	SM 5210B		1	608699	12/13/21 19:56	SRW	TAL BUF
Total/NA	Analysis	SM 5310C		1	608965	12/14/21 23:31	IMZ	TAL BUF

Client Sample ID: MW-2A

Date Collected: 12/10/21 07:45
Date Received: 12/13/21 10:00

Lab Sample ID: 480-193369-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	608629	12/14/21 05:41	CRL	TAL BUF
Total/NA	Prep	3005A			608816	12/15/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609081	12/15/21 21:57	AMH	TAL BUF
Total/NA	Prep	7470A			608976	12/15/21 12:48	BMB	TAL BUF
Total/NA	Analysis	7470A		1	609041	12/15/21 16:26	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	609320	12/17/21 12:12	JJP	TAL BUF
Total/NA	Analysis	300.0		2	609280	12/18/21 03:48	IMZ	TAL BUF
Total/NA	Analysis	310.2		4	609054	12/15/21 21:22	SRW	TAL BUF
Total/NA	Prep	Distill/CN			608774	12/14/21 10:51	RJM	TAL BUF
Total/NA	Analysis	335.4		1	608835	12/14/21 13:37	JGO	TAL BUF
Total/NA	Analysis	350.1		5	608780	12/14/21 11:09	CLT	TAL BUF
Total/NA	Prep	351.2			608866	12/14/21 16:03	KEB	TAL BUF
Total/NA	Analysis	351.2		2	608899	12/15/21 06:24	CLT	TAL BUF

Client Sample ID: MW-2A

Date Collected: 12/10/21 07:45
Date Received: 12/13/21 10:00

Lab Sample ID: 480-193369-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	608837	12/14/21 12:44	PRD	TAL BUF
Total/NA	Analysis	410.4		1	609392	12/17/21 19:30	CSS	TAL BUF
Total/NA	Analysis	420.4		1	608721	12/14/21 06:59	CLT	TAL BUF
Total/NA	Analysis	7196A		1	608674	12/13/21 14:10	MJB	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 02:55	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	608673	12/13/21 16:06	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	608941	12/15/21 09:42	EJL	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	608717	12/14/21 07:21	KEB	TAL BUF
Total/NA	Analysis	SM 5210B		1	608699	12/13/21 19:56	SRW	TAL BUF
Total/NA	Analysis	SM 5310C		1	608965	12/15/21 00:17	IMZ	TAL BUF

Client Sample ID: MW-2B

Date Collected: 12/10/21 08:05
Date Received: 12/13/21 10:00

Lab Sample ID: 480-193369-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	608629	12/14/21 06:04	CRL	TAL BUF
Total/NA	Prep	3005A			608816	12/15/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609081	12/15/21 22:01	AMH	TAL BUF
Total/NA	Prep	7470A			608976	12/15/21 12:48	BMB	TAL BUF
Total/NA	Analysis	7470A		1	609041	12/15/21 16:27	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	609320	12/17/21 12:12	JJP	TAL BUF
Total/NA	Analysis	300.0		2	609280	12/18/21 04:07	IMZ	TAL BUF
Total/NA	Analysis	310.2		8	609054	12/15/21 21:27	SRW	TAL BUF
Total/NA	Prep	Distill/CN			608774	12/14/21 10:51	RJM	TAL BUF
Total/NA	Analysis	335.4		1	608835	12/14/21 13:40	JGO	TAL BUF
Total/NA	Analysis	350.1		1	608780	12/14/21 11:01	CLT	TAL BUF
Total/NA	Prep	351.2			608866	12/14/21 16:03	KEB	TAL BUF
Total/NA	Analysis	351.2		1	608899	12/15/21 05:58	CLT	TAL BUF
Total/NA	Analysis	353.2		1	608837	12/14/21 11:42	PRD	TAL BUF
Total/NA	Analysis	410.4		1	609392	12/17/21 19:30	CSS	TAL BUF
Total/NA	Analysis	420.4		1	608788	12/14/21 10:47	CLT	TAL BUF
Total/NA	Analysis	7196A		1	608674	12/13/21 14:10	MJB	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 02:56	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	608673	12/13/21 16:06	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	608941	12/15/21 09:42	EJL	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		2	608717	12/14/21 07:44	KEB	TAL BUF
Total/NA	Analysis	SM 5210B		1	608699	12/13/21 19:56	SRW	TAL BUF
Total/NA	Analysis	SM 5310C		1	608965	12/15/21 00:32	IMZ	TAL BUF

Client Sample ID: MW-1B

Date Collected: 12/09/21 12:20
Date Received: 12/13/21 10:00

Lab Sample ID: 480-193369-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	608629	12/14/21 06:25	CRL	TAL BUF
Total/NA	Prep	3005A			608816	12/15/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609081	12/15/21 22:05	AMH	TAL BUF
Total/NA	Prep	7470A			608976	12/15/21 12:48	BMB	TAL BUF
Total/NA	Analysis	7470A		1	609041	12/15/21 16:28	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	609320	12/17/21 12:12	JJP	TAL BUF
Total/NA	Analysis	300.0		1	609280	12/18/21 04:27	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	609054	12/15/21 21:27	SRW	TAL BUF
Total/NA	Prep	Distill/CN			608774	12/14/21 10:51	RJM	TAL BUF
Total/NA	Analysis	335.4		1	608835	12/14/21 13:42	JGO	TAL BUF
Total/NA	Analysis	350.1		1	608780	12/14/21 11:02	CLT	TAL BUF
Total/NA	Prep	351.2			608866	12/14/21 16:03	KEB	TAL BUF
Total/NA	Analysis	351.2		1	608899	12/15/21 05:58	CLT	TAL BUF
Total/NA	Analysis	353.2		1	608837	12/14/21 11:43	PRD	TAL BUF
Total/NA	Analysis	410.4		1	609392	12/17/21 19:30	CSS	TAL BUF
Total/NA	Analysis	420.4		1	608721	12/14/21 07:03	CLT	TAL BUF
Total/NA	Analysis	7196A		1	608674	12/13/21 14:10	MJB	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 02:56	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	608673	12/13/21 16:06	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	608781	12/14/21 11:17	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	608717	12/14/21 07:25	KEB	TAL BUF
Total/NA	Analysis	SM 5210B		1	608699	12/13/21 19:56	SRW	TAL BUF
Total/NA	Analysis	SM 5310C		1	608965	12/15/21 00:47	IMZ	TAL BUF

Client Sample ID: DUP MW-1B

Date Collected: 12/09/21 13:45
Date Received: 12/13/21 10:00

Lab Sample ID: 480-193369-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	608629	12/14/21 06:47	CRL	TAL BUF
Total/NA	Prep	3005A			608816	12/15/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609081	12/15/21 22:09	AMH	TAL BUF
Total/NA	Prep	7470A			608976	12/15/21 12:48	BMB	TAL BUF
Total/NA	Analysis	7470A		1	609041	12/15/21 16:30	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	609320	12/17/21 12:12	JJP	TAL BUF
Total/NA	Analysis	300.0		1	609280	12/18/21 04:46	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	609054	12/15/21 21:27	SRW	TAL BUF
Total/NA	Prep	Distill/CN			608774	12/14/21 10:51	RJM	TAL BUF
Total/NA	Analysis	335.4		1	608835	12/14/21 13:43	JGO	TAL BUF
Total/NA	Analysis	350.1		1	608780	12/14/21 11:05	CLT	TAL BUF
Total/NA	Prep	351.2			608866	12/14/21 16:03	KEB	TAL BUF
Total/NA	Analysis	351.2		1	608899	12/15/21 05:58	CLT	TAL BUF

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193369-1
SDG: 193337

Client Sample ID: DUP MW-1B

Date Collected: 12/09/21 13:45
Date Received: 12/13/21 10:00

Lab Sample ID: 480-193369-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	608837	12/14/21 11:45	PRD	TAL BUF
Total/NA	Analysis	410.4		1	609392	12/17/21 19:30	CSS	TAL BUF
Total/NA	Analysis	420.4		1	608788	12/14/21 10:57	CLT	TAL BUF
Total/NA	Analysis	7196A		1	608674	12/13/21 14:10	MJB	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 02:56	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	608673	12/13/21 16:06	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	608781	12/14/21 11:17	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	608717	12/14/21 07:25	KEB	TAL BUF
Total/NA	Analysis	SM 5210B		1	608699	12/13/21 19:56	SRW	TAL BUF
Total/NA	Analysis	SM 5310C		1	608965	12/15/21 01:02	IMZ	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-193369-1
Project/Site: Towslee Landfill - Baseline
SDG: 193337

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Water	Sulfate
SM 5310C		Water	TOC Result 1
SM 5310C		Water	TOC Result 2

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Matrix: Water Level: Low

GC Column (1): ZB-624 (30) ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
MW-1A	480-193369-1	111	102	97
MW-2A	480-193369-2	111	102	95
MW-2B	480-193369-3	109	103	96
MW-1B	480-193369-4	111	102	94
DUP MW-1B	480-193369-5	111	101	94
	MB 480-608629/8	108	103	95
	LCS 480-608629/6	103	103	102

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Matrix: Water Level: Low Lab File ID: L16205.D

Lab ID: LCS 480-608629/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	25.0	26.7	107	80-120	
1,1,1-Trichloroethane	25.0	30.2	121	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.6	106	76-120	
1,1,2-Trichloroethane	25.0	27.2	109	76-122	
1,1-Dichloroethane	25.0	28.0	112	77-120	
1,1-Dichloroethene	25.0	30.4	122	66-127	
1,2,3-Trichloropropane	25.0	26.1	104	68-122	
1,2-Dibromo-3-Chloropropane	25.0	27.5	110	56-134	
1,2-Dichlorobenzene	25.0	24.7	99	80-124	
1,2-Dichloroethane	25.0	26.7	107	75-120	
1,2-Dichloropropane	25.0	29.7	119	76-120	
1,4-Dichlorobenzene	25.0	24.5	98	80-120	
2-Butanone (MEK)	125	149	119	57-140	
2-Hexanone	125	142	114	65-127	
4-Methyl-2-pentanone (MIBK)	125	136	109	71-125	
Acetone	125	144	116	56-142	
Acrylonitrile	250	275	110	63-125	
Benzene	25.0	28.8	115	71-124	
Chlorobromomethane	25.0	27.7	111	72-130	
Bromodichloromethane	25.0	28.5	114	80-122	
Bromoform	25.0	26.7	107	61-132	
Bromomethane	25.0	29.2	117	55-144	
Carbon disulfide	25.0	29.5	118	59-134	
Carbon tetrachloride	25.0	30.8	123	72-134	
Chlorobenzene	25.0	25.8	103	80-120	
Dibromochloromethane	25.0	27.1	108	75-125	
Chloroethane	25.0	27.8	111	69-136	
Chloroform	25.0	26.2	105	73-127	
Chloromethane	25.0	27.5	110	68-124	
cis-1,2-Dichloroethene	25.0	28.0	112	74-124	
cis-1,3-Dichloropropene	25.0	29.8	119	74-124	
Dibromomethane	25.0	27.6	111	76-127	
Ethylbenzene	25.0	27.0	108	77-123	
1,2-Dibromoethane	25.0	26.5	106	77-120	
Iodomethane	25.0	26.3	105	78-123	
Methylene Chloride	25.0	25.3	101	75-124	
Styrene	25.0	27.1	109	80-120	
Tetrachloroethene	25.0	26.6	106	74-122	
Trichlorofluoromethane	25.0	27.1	109	62-150	
Trichloroethene	25.0	29.2	117	74-123	
Toluene	25.0	26.3	105	80-122	
trans-1,2-Dichloroethene	25.0	27.9	111	73-127	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Matrix: Water Level: Low Lab File ID: L16205.D

Lab ID: LCS 480-608629/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	25.0	28.0	112	80-120	
trans-1,4-Dichloro-2-butene	25.0	26.1	105	41-131	
Vinyl acetate	50.0	57.5	115	50-144	
Vinyl chloride	25.0	31.3	125	65-133	
m,p-Xylene	25.0	26.6	106	76-122	
o-Xylene	25.0	26.1	105	76-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Lab File ID: L16207.D Lab Sample ID: MB 480-608629/8

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

Instrument ID: HP5977L Date Analyzed: 12/13/2021 23:29

GC Column: ZB-624 (30) VOA ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-608629/6	L16205.D	12/13/2021 22:45
MW-1A	480-193369-1	L16223.D	12/14/2021 05:20
MW-2A	480-193369-2	L16224.D	12/14/2021 05:41
MW-2B	480-193369-3	L16225.D	12/14/2021 06:04
MW-1B	480-193369-4	L16226.D	12/14/2021 06:25
DUP MW-1B	480-193369-5	L16227.D	12/14/2021 06:47

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Lab File ID: L16082.D BFB Injection Date: 12/08/2021

Instrument ID: HP5977L BFB Injection Time: 15:28

Analysis Batch No.: 608018

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	49.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	1.0	(1.0) 1
174	Greater than 50% of mass 95	102.0	
175	5.0 - 9.0 % of mass 174	7.6	(7.4) 1
176	95.0 - 101.0 % of mass 174	98.0	(96.1) 1
177	5.0 - 9.0 % of mass 176	6.7	(6.8) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-608018/8	L16084.D	12/08/2021	16:14
	IC 480-608018/9	L16085.D	12/08/2021	16:36
	IC 480-608018/10	L16086.D	12/08/2021	16:58
	IC 480-608018/11	L16087.D	12/08/2021	17:21
	IC 480-608018/12	L16088.D	12/08/2021	17:42
	ICIS 480-608018/13	L16089.D	12/08/2021	18:04
	IC 480-608018/14	L16090.D	12/08/2021	18:25
	IC 480-608018/15	L16091.D	12/08/2021	18:47
	ICV 480-608018/29	L16105.D	12/08/2021	23:57

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Lab File ID: L16202.D BFB Injection Date: 12/13/2021

Instrument ID: HP5977L BFB Injection Time: 21:40

Analysis Batch No.: 608629

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.2	
75	30.0 - 60.0 % of mass 95	49.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	1.1	(1.1) 1
174	Greater than 50% of mass 95	96.7	
175	5.0 - 9.0 % of mass 174	7.2	(7.5) 1
176	95.0 - 101.0 % of mass 174	95.6	(98.9) 1
177	5.0 - 9.0 % of mass 176	6.4	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-608629/4	L16203.D	12/13/2021	22:02
	CCV 480-608629/5	L16204.D	12/13/2021	22:23
	LCS 480-608629/6	L16205.D	12/13/2021	22:45
	MB 480-608629/8	L16207.D	12/13/2021	23:29
MW-1A	480-193369-1	L16223.D	12/14/2021	5:20
MW-2A	480-193369-2	L16224.D	12/14/2021	5:41
MW-2B	480-193369-3	L16225.D	12/14/2021	6:04
MW-1B	480-193369-4	L16226.D	12/14/2021	6:25
DUP MW-1B	480-193369-5	L16227.D	12/14/2021	6:47

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Sample No.: ICIS 480-608018/13 Date Analyzed: 12/08/2021 18:04

Instrument ID: HP5977L GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): L16089.D Heated Purge: (Y/N) N

Calibration ID: 42816

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		126368	6.35	590112	9.30	375982	11.61
UPPER LIMIT		252736	6.85	1180224	9.80	751964	12.11
LOWER LIMIT		63184	5.85	295056	8.80	187991	11.11
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-608018/29		125904	6.35	606530	9.30	372576	11.61
CCVIS 480-608629/4		133515	6.35	678304	9.30	399229	11.61

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Sample No.: CCVIS 480-608629/4 Date Analyzed: 12/13/2021 22:02

Instrument ID: HP5977L GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): L16203.D Heated Purge: (Y/N) N

Calibration ID: 42819

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		133515	6.35	678304	9.30	399229	11.61
UPPER LIMIT		267030	6.85	1356608	9.80	798458	12.11
LOWER LIMIT		66758	5.85	339152	8.80	199615	11.11
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-608629/5		132171	6.35	653029	9.30	378198	11.61
LCS 480-608629/6		137007	6.35	689777	9.30	410023	11.61
MB 480-608629/8		127198	6.35	642177	9.30	377790	11.61
480-193369-1	MW-1A	119753	6.35	617274	9.30	361379	11.61
480-193369-2	MW-2A	123161	6.35	626100	9.30	362552	11.61
480-193369-3	MW-2B	127909	6.35	663586	9.30	379101	11.61
480-193369-4	MW-1B	120304	6.35	612336	9.30	358565	11.61
480-193369-5	DUP MW-1B	121063	6.35	631775	9.30	365526	11.61

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: MW-1A Lab Sample ID: 480-193369-1

Matrix: Water Lab File ID: L16223.D

Analysis Method: 8260C Date Collected: 12/10/2021 08:45

Sample wt/vol: 5(mL) Date Analyzed: 12/14/2021 05:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: MW-1A Lab Sample ID: 480-193369-1

Matrix: Water Lab File ID: L16223.D

Analysis Method: 8260C Date Collected: 12/10/2021 08:45

Sample wt/vol: 5(mL) Date Analyzed: 12/14/2021 05:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16223.D
Lims ID: 480-193369-M-1
Client ID: MW-1A
Sample Type: Client
Inject. Date: 14-Dec-2021 05:20:05 ALS Bottle#: 0 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193369-M-1
Misc. Info.: 480-0103021-024
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Dec-2021 10:30:46 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1664

First Level Reviewer: lapointec Date: 14-Dec-2021 10:30:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.351	6.351	0.001	99	119753	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	84	617274	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	93	361379	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.097	6.096	0.001	97	231672	27.7	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	93	763115	25.6	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	95	274701	24.1	
13 Chloromethane	50		2.344				ND	
14 Vinyl chloride	62		2.473				ND	
18 Bromomethane	94		2.862				ND	
19 Chloroethane	64		2.952				ND	
21 Trichlorofluoromethane	101		3.186				ND	
30 1,1-Dichloroethene	96		3.730				ND	
31 Acetone	43		3.823				ND	U
33 Iodomethane	142		3.910				ND	
35 Carbon disulfide	76		3.964				ND	
39 Methylene Chloride	84		4.219				ND	
42 trans-1,2-Dichloroethene	96		4.437				ND	
44 Acrylonitrile	53		4.476				ND	
50 1,1-Dichloroethane	63		4.833				ND	
49 Vinyl acetate	43		4.836				ND	
58 cis-1,2-Dichloroethene	96		5.354				ND	
57 2-Butanone (MEK)	43		5.354				ND	
60 Chlorobromomethane	128		5.585				ND	
62 Chloroform	83		5.630				ND	
64 1,1,1-Trichloroethane	97		5.768				ND	
66 Carbon tetrachloride	117		5.907				ND	
70 Benzene	78		6.112				ND	
72 1,2-Dichloroethane	62		6.164				ND	
75 Trichloroethene	95		6.678				ND	
77 1,2-Dichloropropane	63		6.916				ND	
82 Dibromomethane	93		7.061				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
83 Dichlorobromomethane	83		7.180				ND	
85 cis-1,3-Dichloropropene	75		7.575				ND	
87 4-Methyl-2-pentanone (MIBK)	43		7.681				ND	
88 Toluene	92		7.874				ND	
91 trans-1,3-Dichloropropene	75		8.119				ND	
93 1,1,2-Trichloroethane	83		8.321				ND	
94 Tetrachloroethene	166		8.408				ND	
96 2-Hexanone	43		8.501				ND	
98 Chlorodibromomethane	129		8.739				ND	
101 Ethylene Dibromide	107		8.874				ND	
103 Chlorobenzene	112		9.331				ND	
104 Ethylbenzene	91		9.389				ND	
105 1,1,1,2-Tetrachloroethane	131		9.408				ND	
106 m-Xylene & p-Xylene	106		9.505				ND	
107 o-Xylene	106		9.945				ND	
109 Styrene	104		9.971				ND	
110 Bromoform	173		10.251				ND	
112 1,1,2,2-Tetrachloroethane	83		10.681				ND	
115 trans-1,4-Dichloro-2-butene	53		10.723				ND	
116 1,2,3-Trichloropropane	110		10.736				ND	
126 1,4-Dichlorobenzene	146		11.633				ND	
128 1,2-Dichlorobenzene	146		11.977				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.656				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent

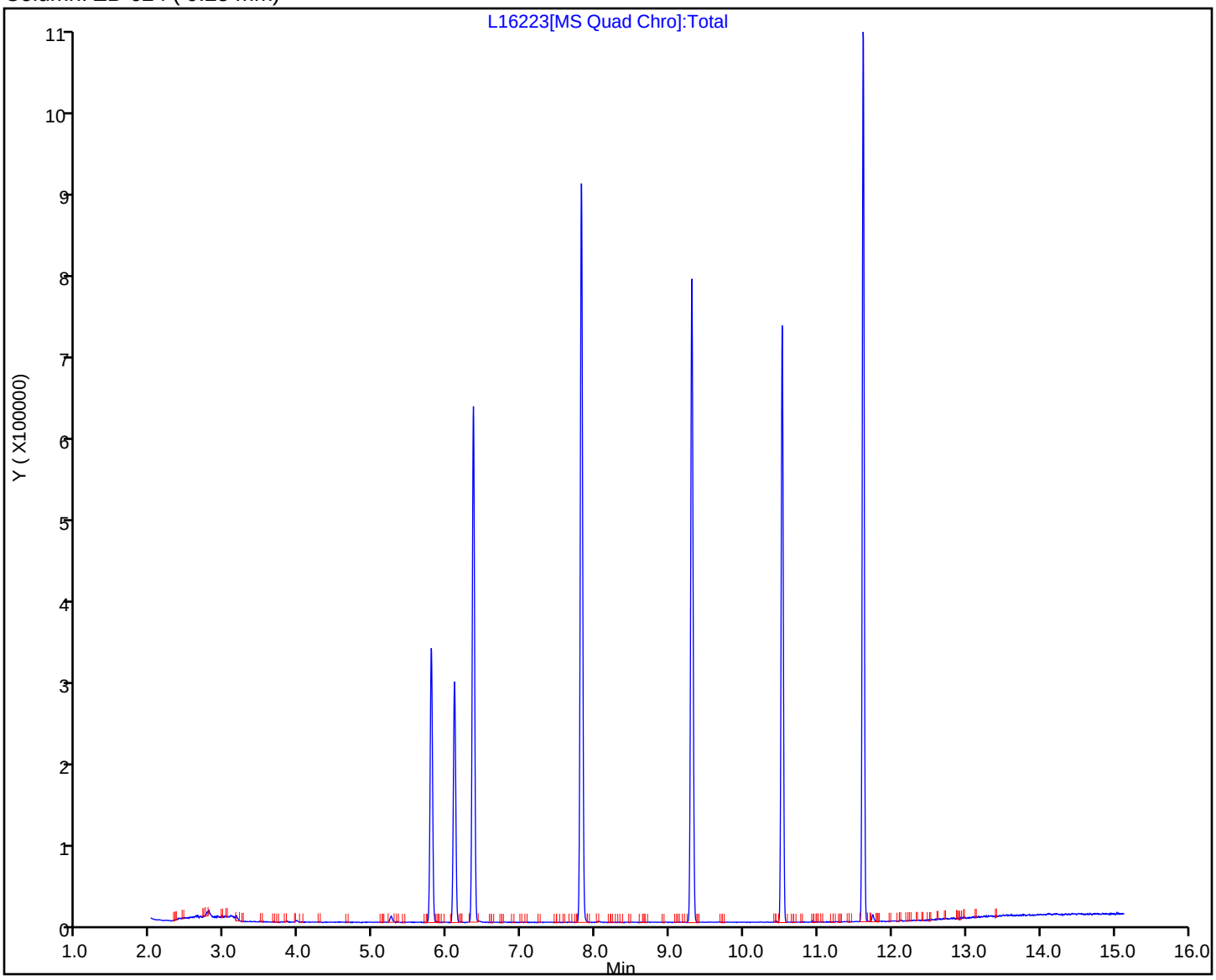
Report Date: 14-Dec-2021 10:30:47 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16223.D

Injection Date:	14-Dec-2021 05:20:05	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-1	Lab Sample ID:	480-193369-1		
Client ID:	MW-1A				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



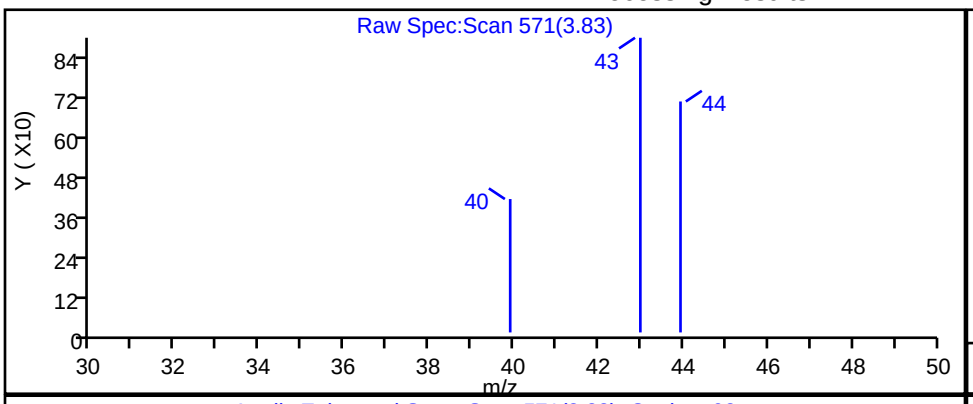
User Disabled Compound Report

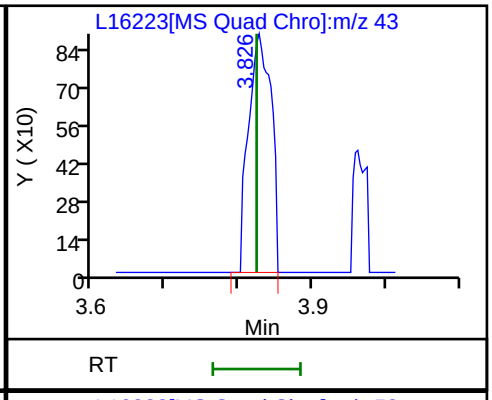
Eurofins TestAmerica, Buffalo

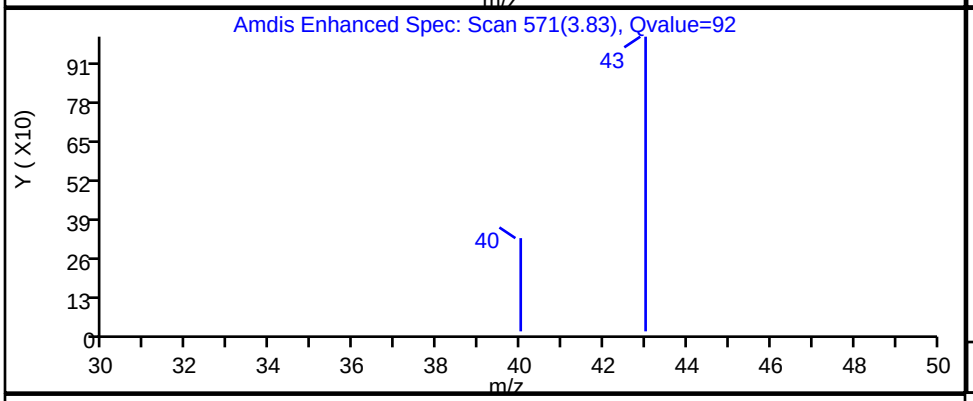
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16223.D				
Injection Date:	14-Dec-2021 05:20:05	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-1	Lab Sample ID:	480-193369-1		
Client ID:	MW-1A				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

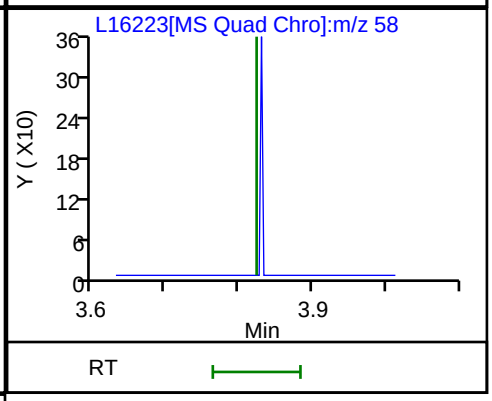
31 Acetone, CAS: 67-64-1

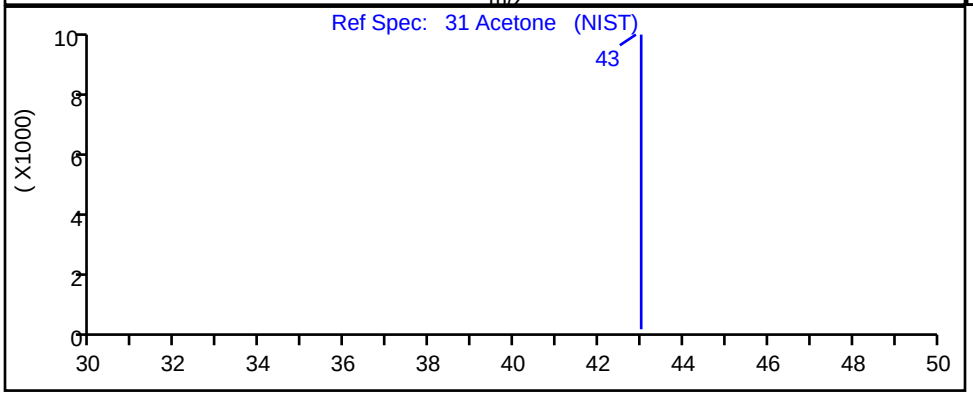
Processing Results











RT	Mass	Response	Amount
3.83	43.00	1920	0.735527
3.82	58.00	0	

Reviewer: lapointec, 14-Dec-2021 10:30:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: MW-2A Lab Sample ID: 480-193369-2

Matrix: Water Lab File ID: L16224.D

Analysis Method: 8260C Date Collected: 12/10/2021 07:45

Sample wt/vol: 5(mL) Date Analyzed: 12/14/2021 05:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	1.1		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	1.3		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	2.1		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: MW-2A Lab Sample ID: 480-193369-2

Matrix: Water Lab File ID: L16224.D

Analysis Method: 8260C Date Collected: 12/10/2021 07:45

Sample wt/vol: 5(mL) Date Analyzed: 12/14/2021 05:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16224.D
Lims ID: 480-193369-M-2
Client ID: MW-2A
Sample Type: Client
Inject. Date: 14-Dec-2021 05:41:54 ALS Bottle#: 0 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193369-M-2
Misc. Info.: 480-0103021-025
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Dec-2021 10:31:53 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1664

First Level Reviewer: lapointec Date: 14-Dec-2021 10:31:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.351	0.000	100	123161	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	626100	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	93	362552	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	237684	27.6	
$ 6 Toluene-d8 (Surr)	98	7.807	7.810	-0.003	93	767054	25.4	
$ 7 4-Bromofluorobenzene (Surr)	174	10.521	10.518	0.003	96	275363	23.8	
13 Chloromethane	50		2.344				ND	
14 Vinyl chloride	62		2.473				ND	
18 Bromomethane	94		2.862				ND	
19 Chloroethane	64		2.952				ND	U
21 Trichlorofluoromethane	101		3.186				ND	
30 1,1-Dichloroethene	96		3.730				ND	
31 Acetone	43	3.826	3.823	0.003	96	5590	2.08	
33 Iodomethane	142		3.910				ND	
35 Carbon disulfide	76		3.964				ND	
39 Methylene Chloride	84		4.219				ND	
42 trans-1,2-Dichloroethene	96		4.437				ND	
44 Acrylonitrile	53		4.476				ND	
50 1,1-Dichloroethane	63		4.833				ND	
49 Vinyl acetate	43		4.836				ND	
58 cis-1,2-Dichloroethene	96		5.354				ND	U
57 2-Butanone (MEK)	43		5.354				ND	
60 Chlorobromomethane	128		5.585				ND	
62 Chloroform	83		5.630				ND	
64 1,1,1-Trichloroethane	97		5.768				ND	
66 Carbon tetrachloride	117		5.907				ND	
70 Benzene	78	6.112	6.112	0.000	94	33846	1.27	
72 1,2-Dichloroethane	62		6.164				ND	
75 Trichloroethene	95		6.678				ND	
77 1,2-Dichloropropane	63		6.916				ND	
82 Dibromomethane	93		7.061				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
83 Dichlorobromomethane	83		7.180				ND	
85 cis-1,3-Dichloropropene	75		7.575				ND	
87 4-Methyl-2-pentanone (MIBK)	43		7.681				ND	
88 Toluene	92		7.874				ND	
91 trans-1,3-Dichloropropene	75		8.119				ND	
93 1,1,2-Trichloroethane	83		8.321				ND	
94 Tetrachloroethene	166		8.408				ND	
96 2-Hexanone	43		8.501				ND	
98 Chlorodibromomethane	129		8.739				ND	
101 Ethylene Dibromide	107		8.874				ND	
103 Chlorobenzene	112	9.331	9.328	0.000	98	50094	2.11	
104 Ethylbenzene	91		9.389				ND	
105 1,1,1,2-Tetrachloroethane	131		9.408				ND	
106 m-Xylene & p-Xylene	106		9.505				ND	
107 o-Xylene	106		9.945				ND	
109 Styrene	104		9.971				ND	
110 Bromoform	173		10.251				ND	
112 1,1,2,2-Tetrachloroethane	83		10.681				ND	
115 trans-1,4-Dichloro-2-butene	53		10.723				ND	
116 1,2,3-Trichloropropane	110		10.736				ND	
126 1,4-Dichlorobenzene	146	11.633	11.630	0.000	96	24260	1.11	
128 1,2-Dichlorobenzene	146	11.980	11.977	0.003	90	2824	0.1329	
129 1,2-Dibromo-3-Chloropropane	75		12.656				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent

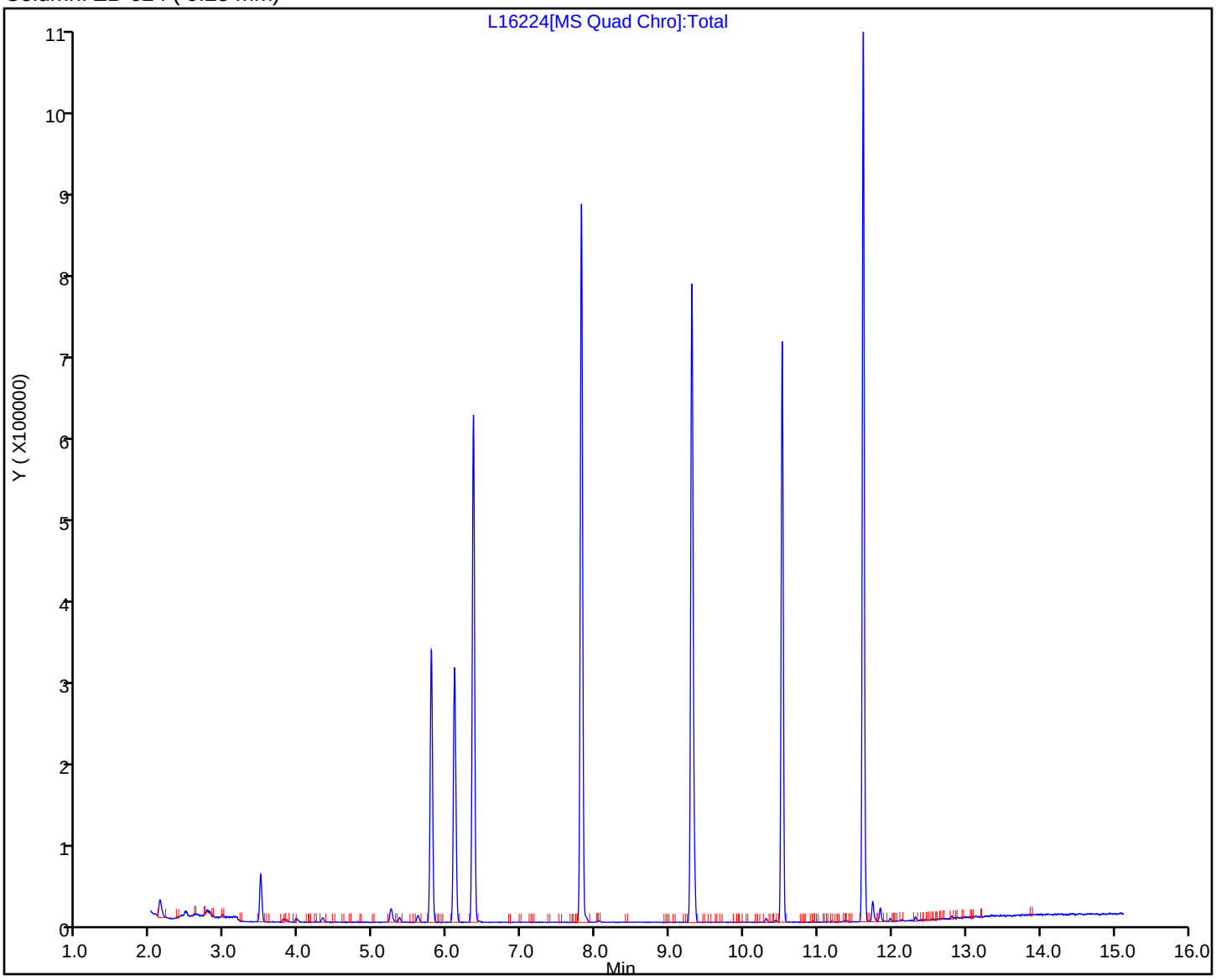
Report Date: 14-Dec-2021 10:31:53 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16224.D

Injection Date:	14-Dec-2021 05:41:54	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-2	Lab Sample ID:	480-193369-2		
Client ID:	MW-2A				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

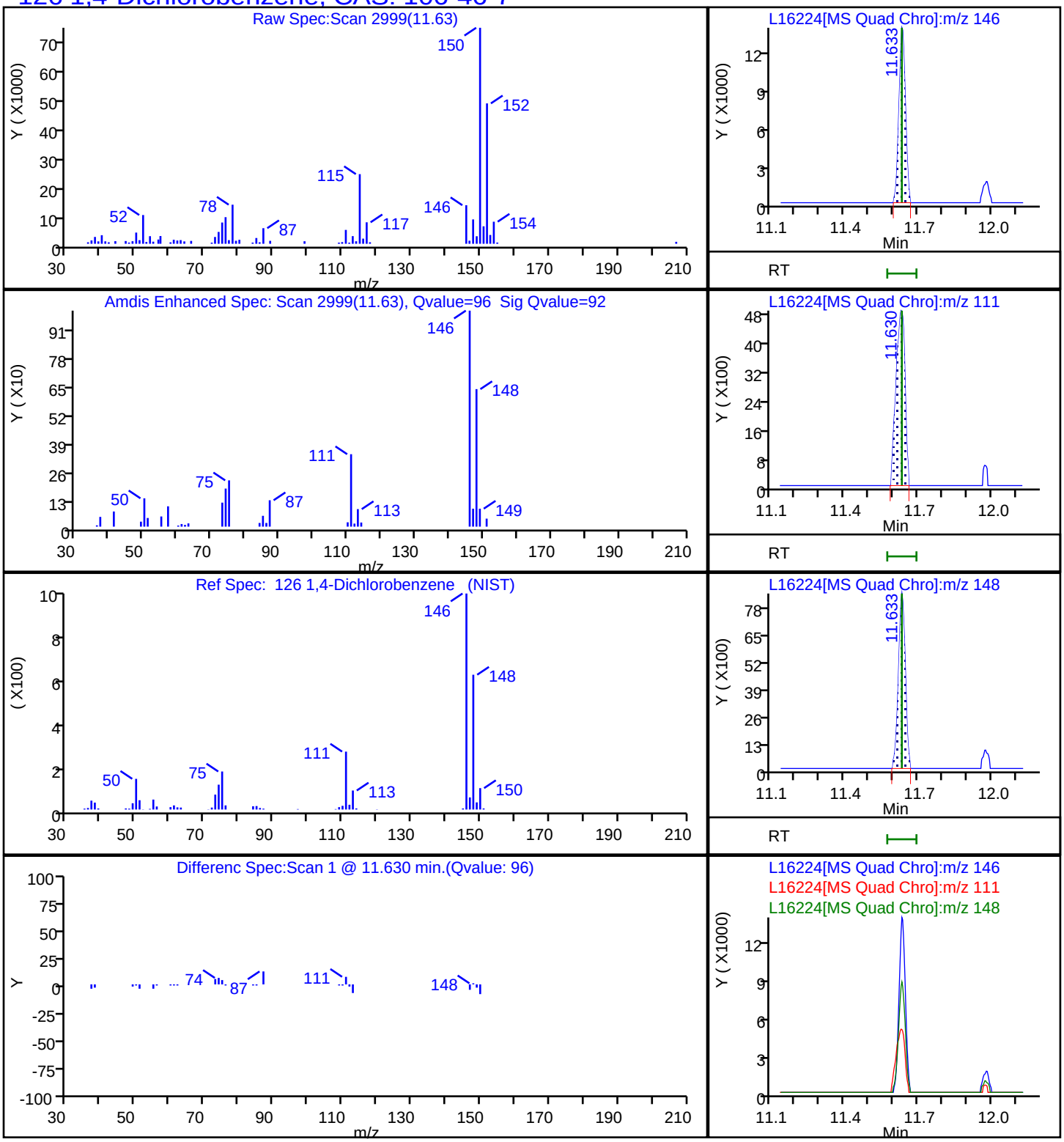


Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16224.D

Injection Date:	14-Dec-2021 05:41:54	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-2	Lab Sample ID:	480-193369-2		
Client ID:	MW-2A				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

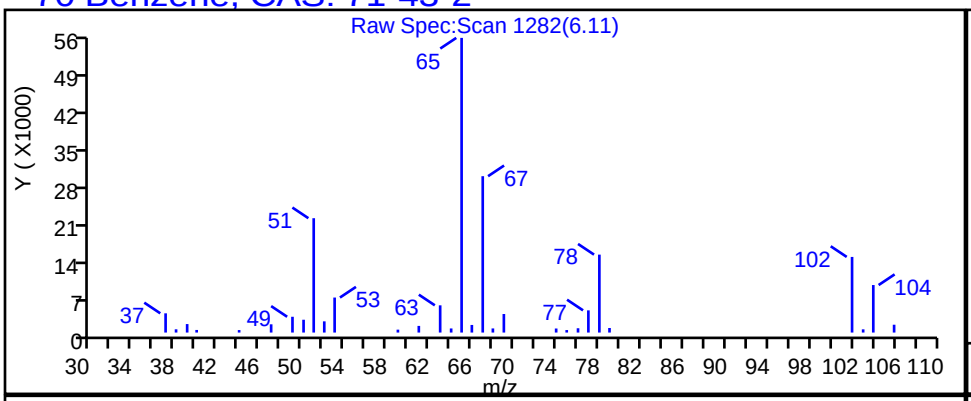
126 1,4-Dichlorobenzene, CAS: 106-46-7

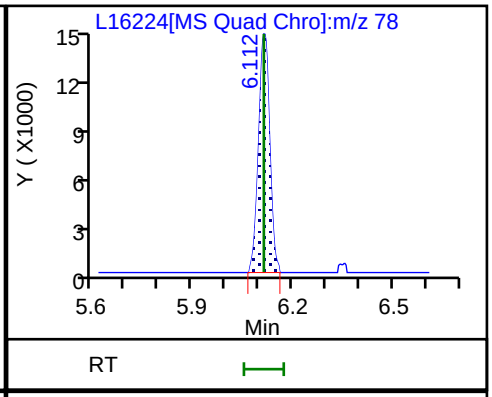


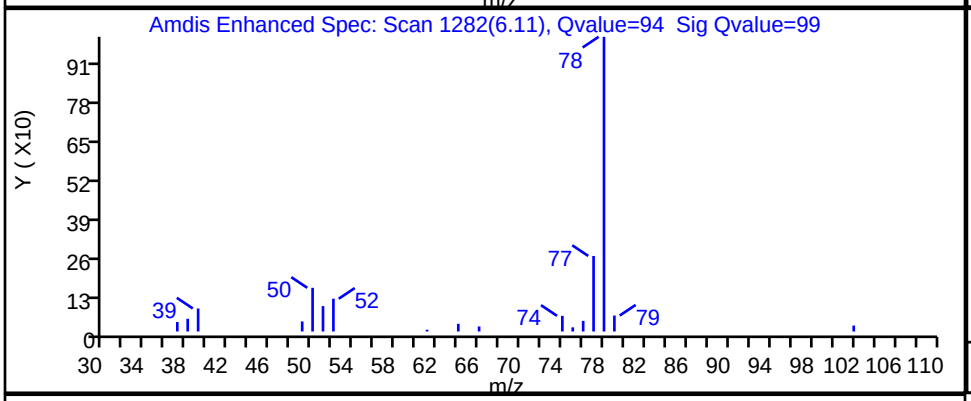
Eurofins TestAmerica, Buffalo

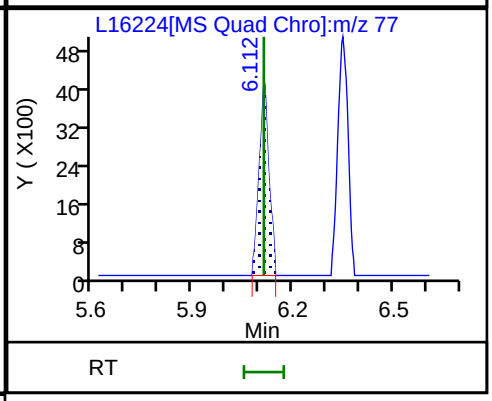
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16224.D		
Injection Date:	14-Dec-2021 05:41:54	Instrument ID:	HP5977L
Lims ID:	480-193369-M-2	Lab Sample ID:	480-193369-2
Client ID:	MW-2A		
Operator ID:	wd	ALS Bottle#:	0 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	L-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS Quad

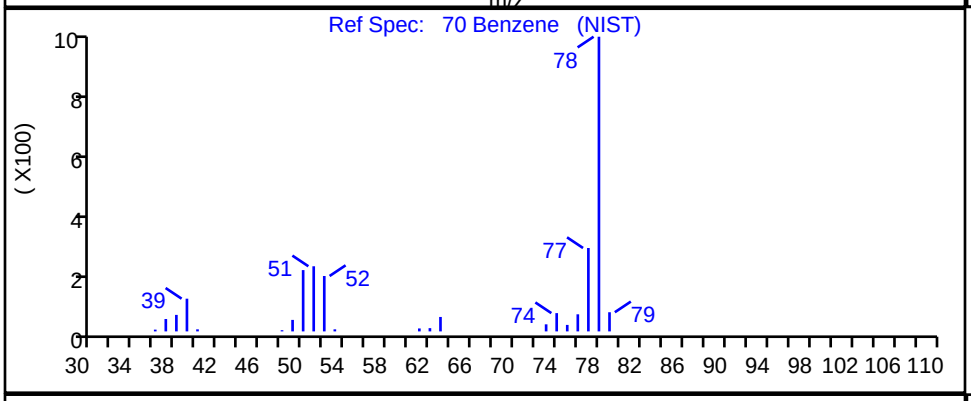
70 Benzene, CAS: 71-43-2

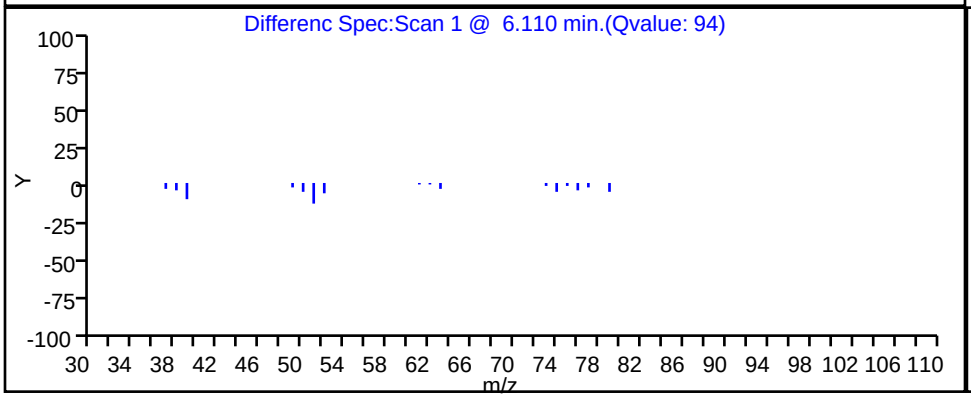


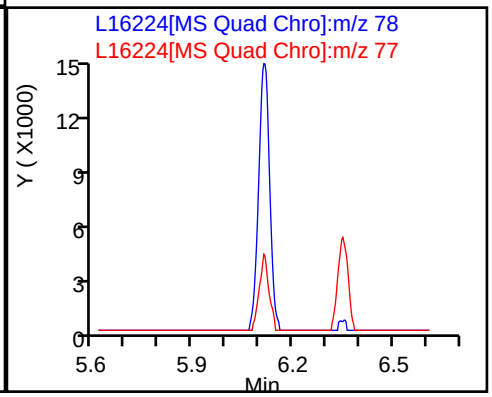










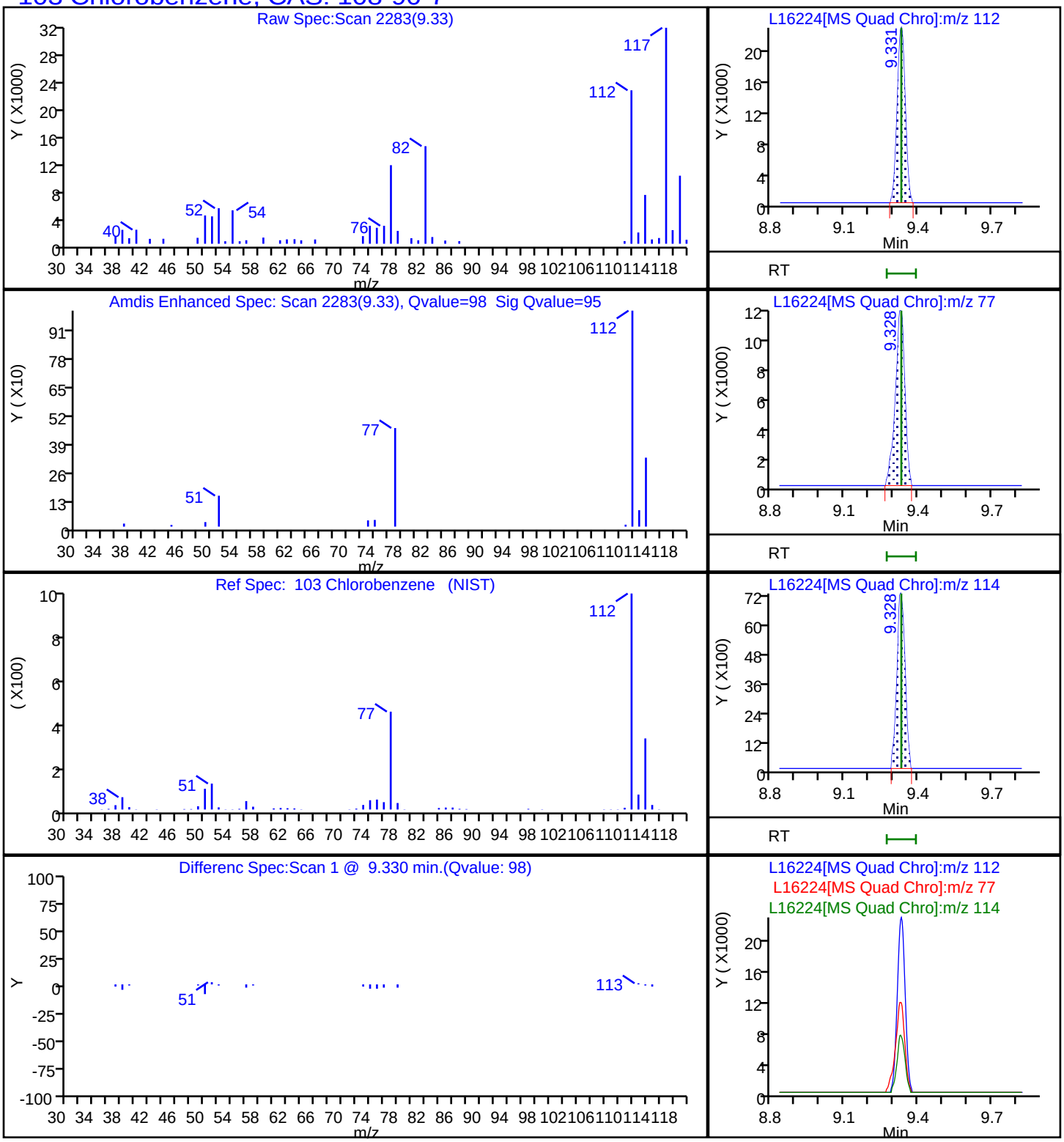


Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16224.D

Injection Date:	14-Dec-2021 05:41:54	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-2	Lab Sample ID:	480-193369-2		
Client ID:	MW-2A				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

103 Chlorobenzene, CAS: 108-90-7



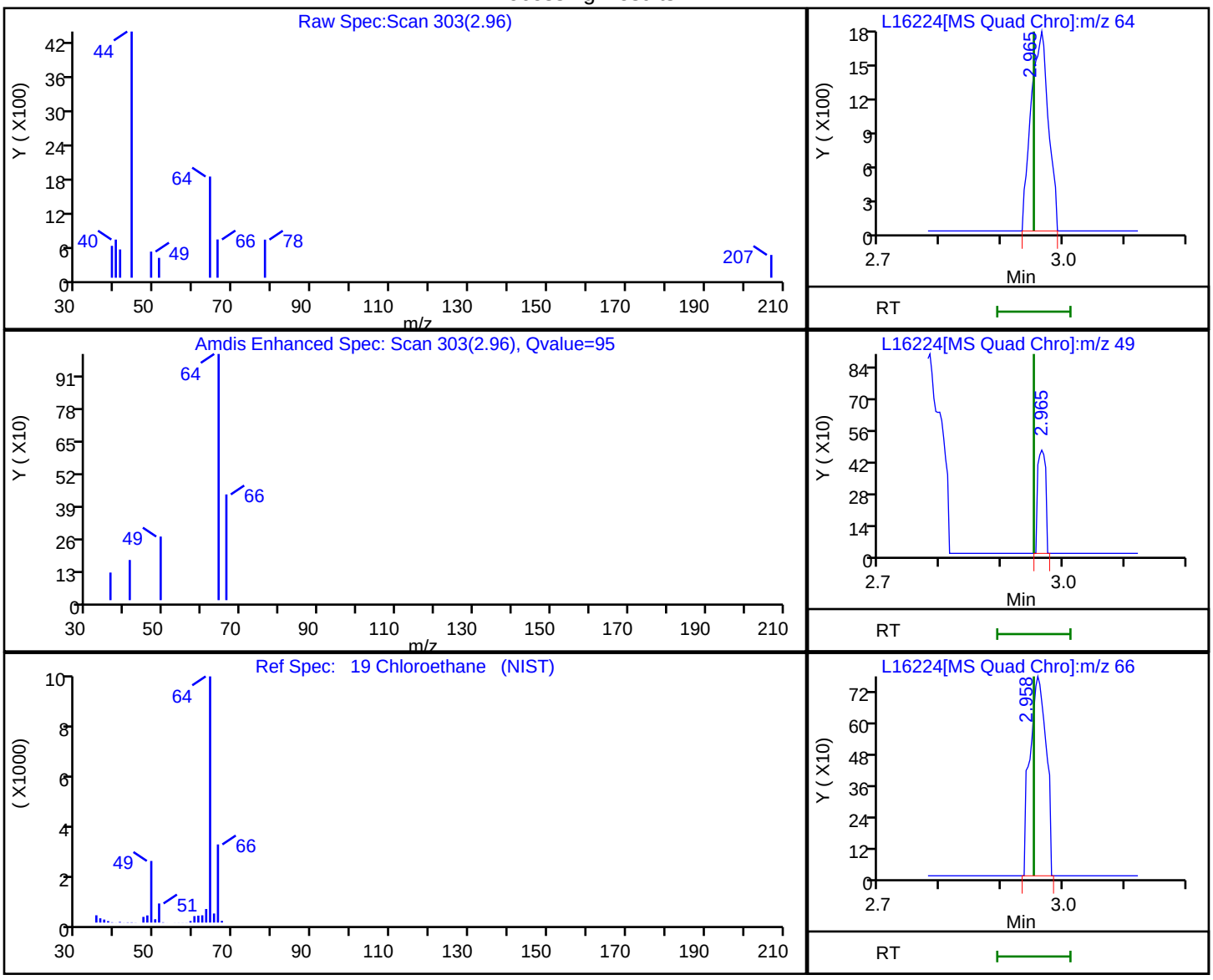
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16224.D				
Injection Date:	14-Dec-2021 05:41:54	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-2	Lab Sample ID:	480-193369-2		
Client ID:	MW-2A				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

19 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.96	64.00	3545	0.587997
2.96	49.00	411	
2.96	66.00	1423	

Reviewer: lapointec, 14-Dec-2021 10:31:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: MW-2B Lab Sample ID: 480-193369-3

Matrix: Water Lab File ID: L16225.D

Analysis Method: 8260C Date Collected: 12/10/2021 08:05

Sample wt/vol: 5(mL) Date Analyzed: 12/14/2021 06:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	4.7		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	47		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: MW-2B Lab Sample ID: 480-193369-3

Matrix: Water Lab File ID: L16225.D

Analysis Method: 8260C Date Collected: 12/10/2021 08:05

Sample wt/vol: 5(mL) Date Analyzed: 12/14/2021 06:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	20		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
2037-26-5	Toluene-d8 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16225.D
Lims ID: 480-193369-M-3
Client ID: MW-2B
Sample Type: Client
Inject. Date: 14-Dec-2021 06:04:11 ALS Bottle#: 0 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193369-M-3
Misc. Info.: 480-0103021-026
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Dec-2021 10:33:00 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1664

First Level Reviewer: lapointec Date: 14-Dec-2021 10:33:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.351	0.000	100	127909	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	84	663586	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	94	379101	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	98	242696	27.2	
$ 6 Toluene-d8 (Surr)	98	7.807	7.810	-0.003	93	823426	25.7	
$ 7 4-Bromofluorobenzene (Surr)	174	10.521	10.518	0.002	94	293101	23.9	
13 Chloromethane	50		2.344				ND	
14 Vinyl chloride	62	2.476	2.473	0.003	98	153886	19.7	
18 Bromomethane	94		2.862				ND	
19 Chloroethane	64	2.958	2.952	0.006	99	29462	4.71	
21 Trichlorofluoromethane	101		3.186				ND	
30 1,1-Dichloroethene	96		3.730				ND	
31 Acetone	43	3.833	3.823	0.010	99	3580	1.28	
33 Iodomethane	142		3.910				ND	
35 Carbon disulfide	76		3.964				ND	
39 Methylene Chloride	84		4.219				ND	U
42 trans-1,2-Dichloroethene	96	4.440	4.437	0.003	95	2603	0.3235	
44 Acrylonitrile	53		4.476				ND	
50 1,1-Dichloroethane	63		4.833				ND	U
49 Vinyl acetate	43		4.836				ND	U
58 cis-1,2-Dichloroethene	96	5.353	5.357	-0.001	76	418251	47.5	
57 2-Butanone (MEK)	43		5.354				ND	
60 Chlorobromomethane	128		5.585				ND	
62 Chloroform	83		5.630				ND	
64 1,1,1-Trichloroethane	97		5.768				ND	
66 Carbon tetrachloride	117		5.907				ND	
70 Benzene	78	6.112	6.112	0.000	94	17920	0.6455	
72 1,2-Dichloroethane	62		6.164				ND	
75 Trichloroethene	95	6.681	6.678	0.003	83	1522	0.1946	
77 1,2-Dichloropropane	63		6.916				ND	
82 Dibromomethane	93		7.061				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
83 Dichlorobromomethane	83		7.180				ND	
85 cis-1,3-Dichloropropene	75		7.575				ND	
87 4-Methyl-2-pentanone (MIBK)	43		7.681				ND	
88 Toluene	92		7.874				ND	
91 trans-1,3-Dichloropropene	75		8.119				ND	
93 1,1,2-Trichloroethane	83		8.321				ND	
94 Tetrachloroethene	166		8.408				ND	
96 2-Hexanone	43		8.501				ND	
98 Chlorodibromomethane	129		8.739				ND	
101 Ethylene Dibromide	107		8.874				ND	
103 Chlorobenzene	112		9.331				ND	U
104 Ethylbenzene	91		9.389				ND	
105 1,1,1,2-Tetrachloroethane	131		9.408				ND	
106 m-Xylene & p-Xylene	106		9.505				ND	
107 o-Xylene	106		9.945				ND	
109 Styrene	104		9.971				ND	
110 Bromoform	173		10.251				ND	
112 1,1,2,2-Tetrachloroethane	83		10.681				ND	
115 trans-1,4-Dichloro-2-butene	53		10.723				ND	
116 1,2,3-Trichloropropane	110		10.736				ND	
126 1,4-Dichlorobenzene	146		11.633				ND	U
128 1,2-Dichlorobenzene	146		11.977				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.656				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent

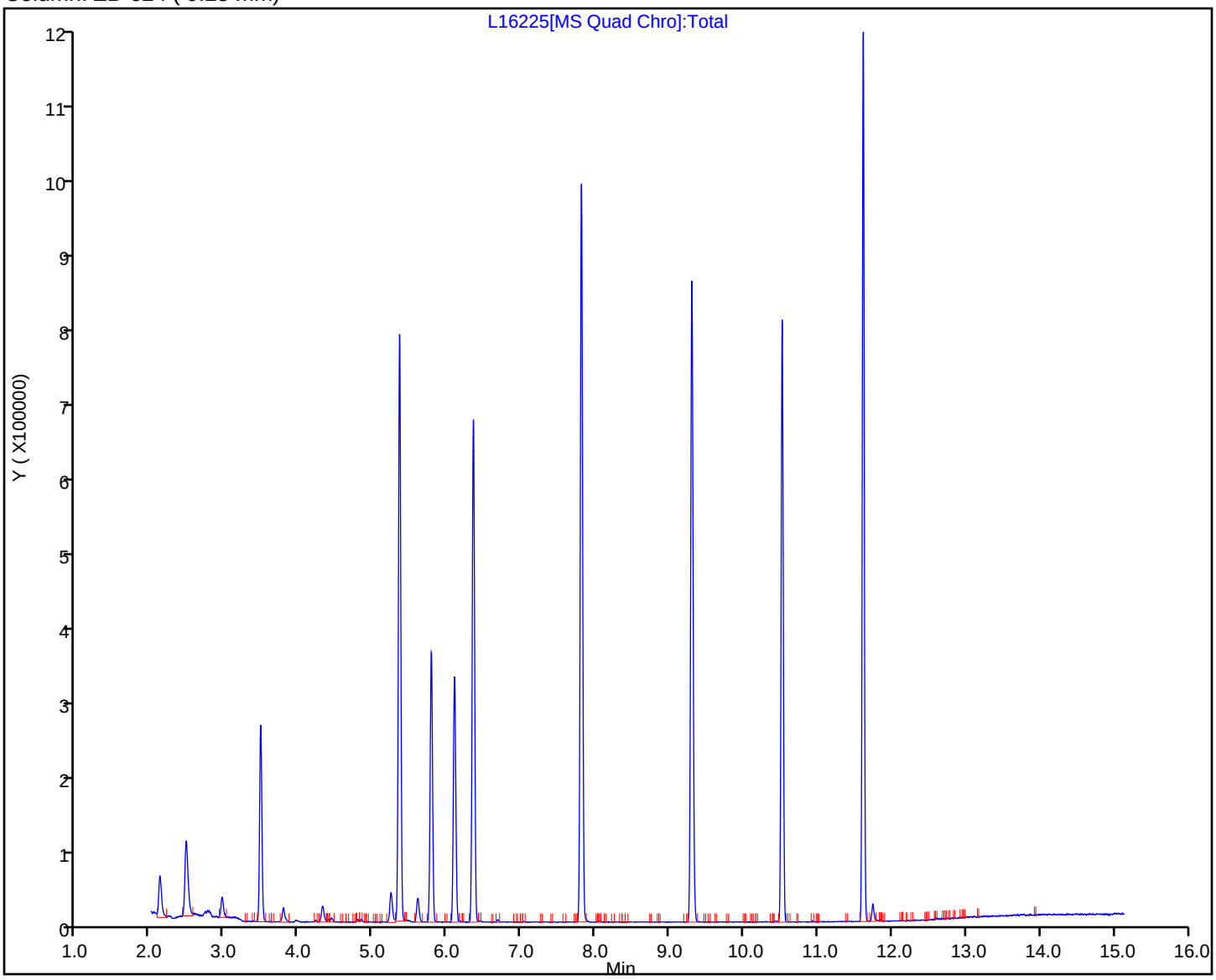
Report Date: 14-Dec-2021 10:33:00 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16225.D

Injection Date:	14-Dec-2021 06:04:11	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-3	Lab Sample ID:	480-193369-3		
Client ID:	MW-2B				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

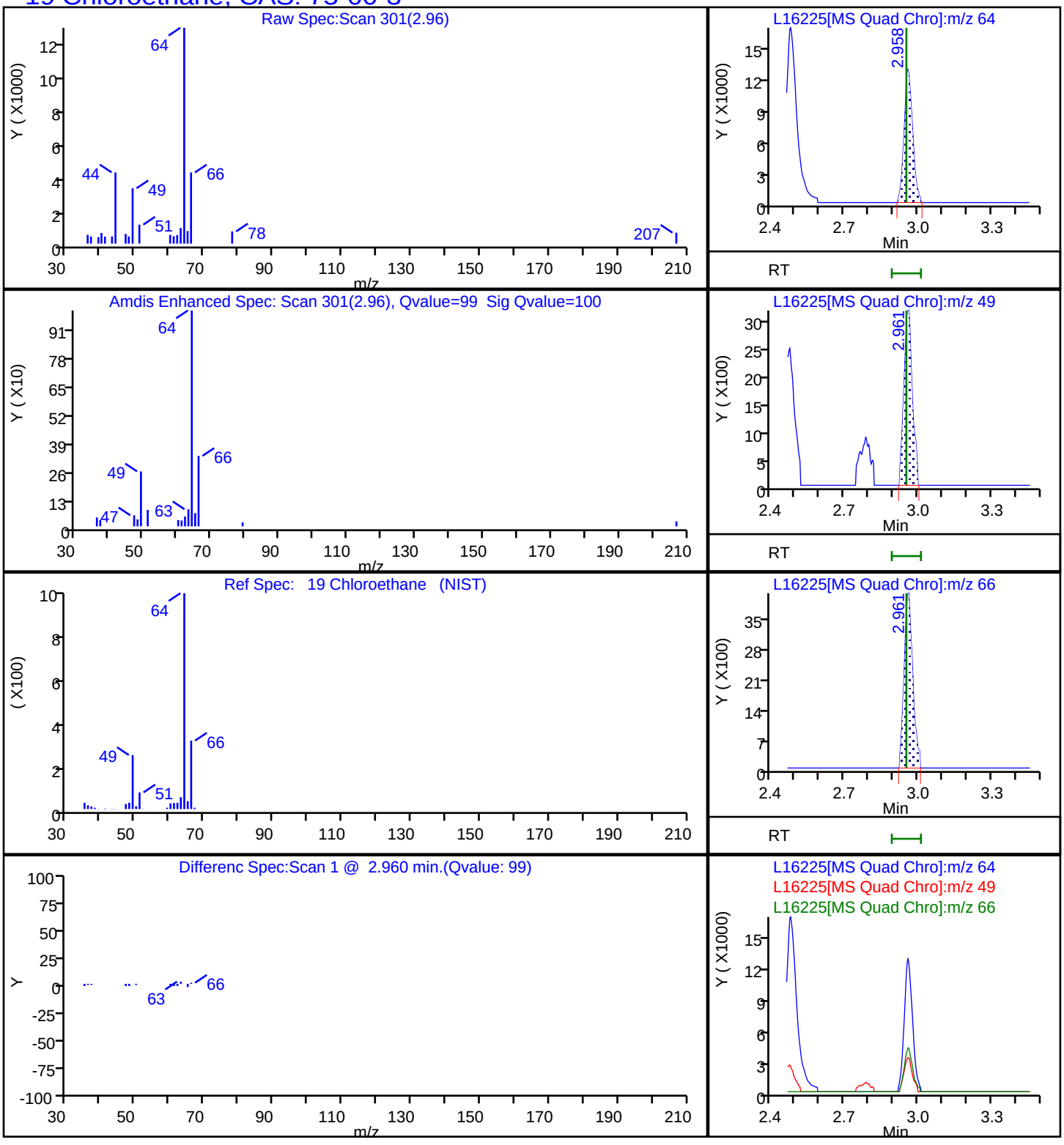
Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16225.D				
Injection Date:	14-Dec-2021 06:04:11	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-3	Lab Sample ID:	480-193369-3		
Client ID:	MW-2B				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

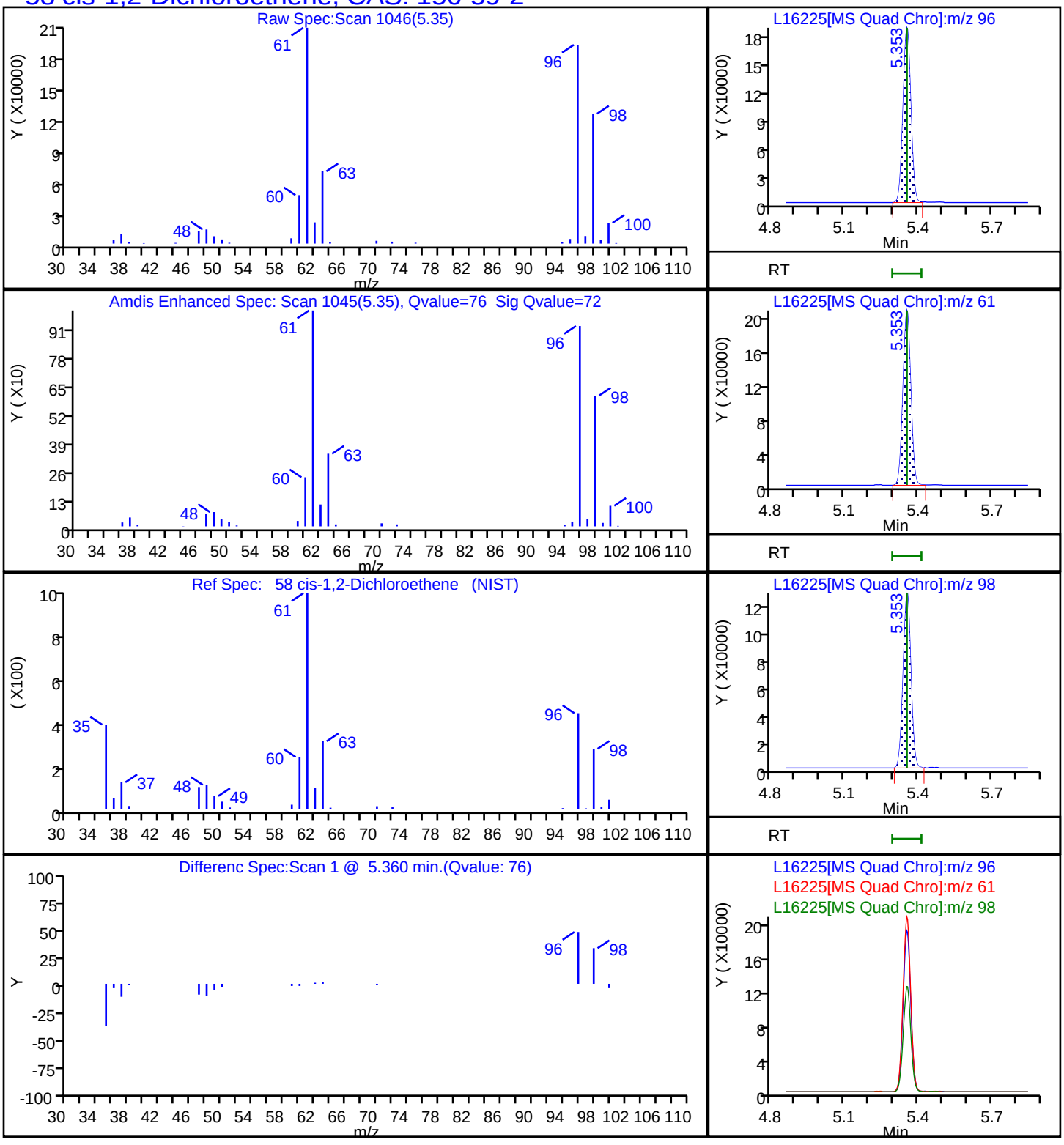
19 Chloroethane, CAS: 75-00-3



Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16225.D				
Injection Date:	14-Dec-2021 06:04:11	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-3	Lab Sample ID:	480-193369-3		
Client ID:	MW-2B				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

58 cis-1,2-Dichloroethene, CAS: 156-59-2

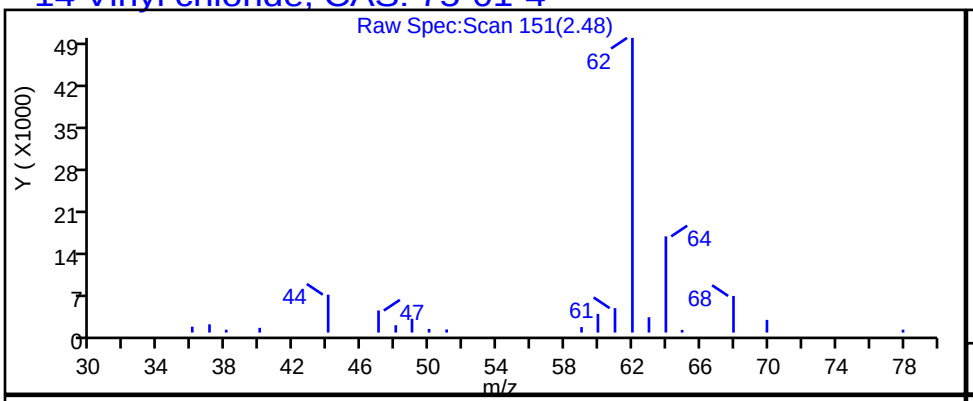


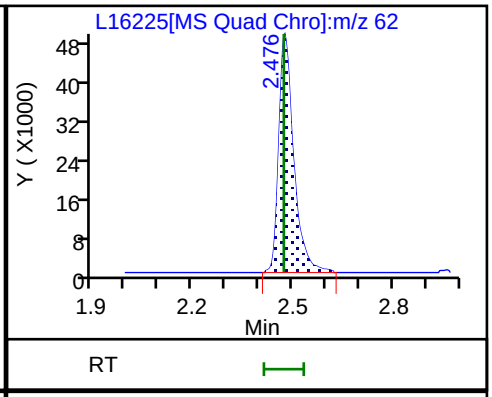
Eurofins TestAmerica, Buffalo

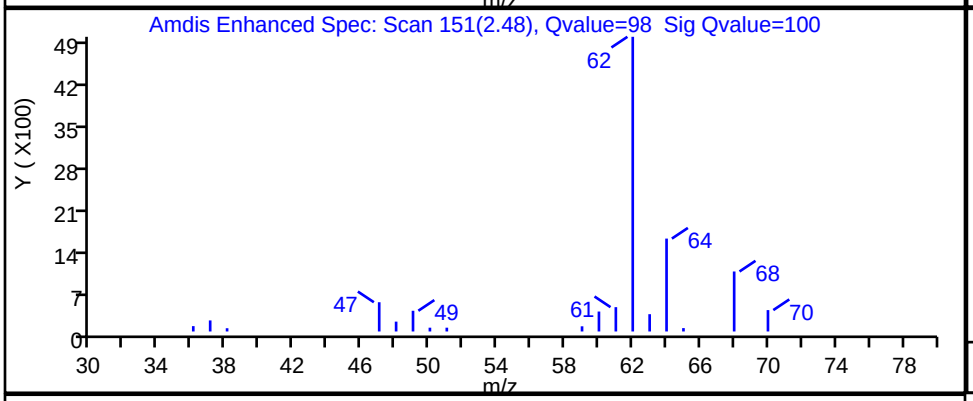
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16225.D

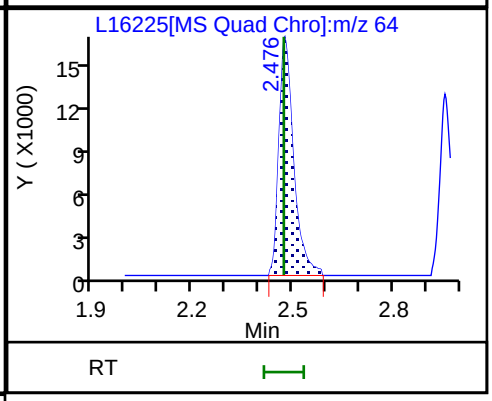
Injection Date:	14-Dec-2021 06:04:11	Instrument ID:	HP5977L
Lims ID:	480-193369-M-3	Lab Sample ID:	480-193369-3
Client ID:	MW-2B		
Operator ID:	wd	ALS Bottle#:	0 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	L-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS Quad

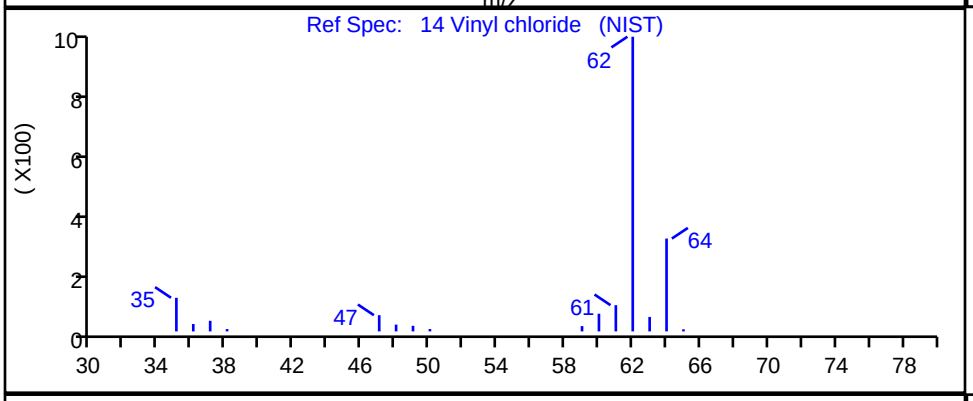
14 Vinyl chloride, CAS: 75-01-4

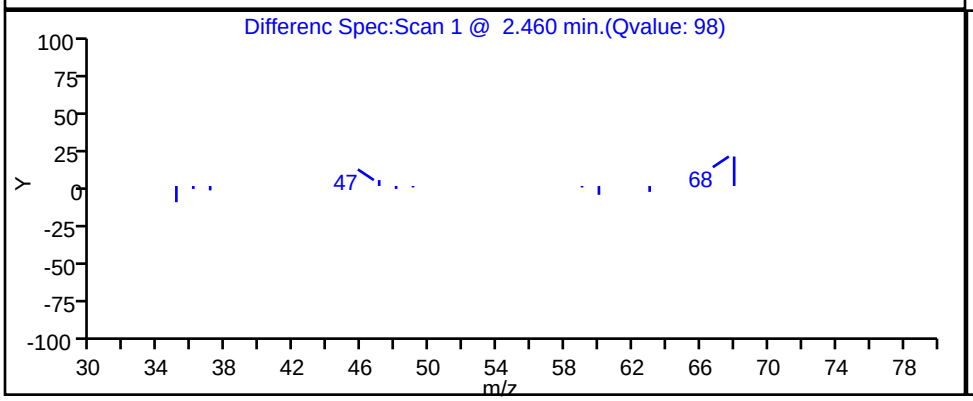


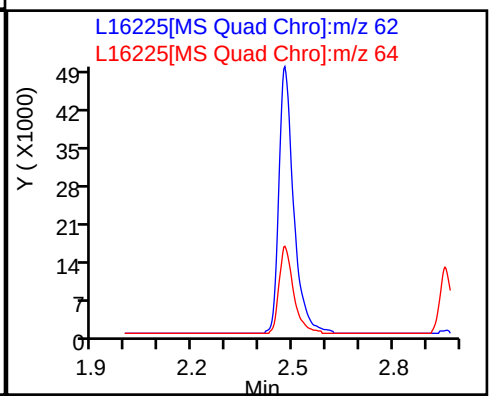












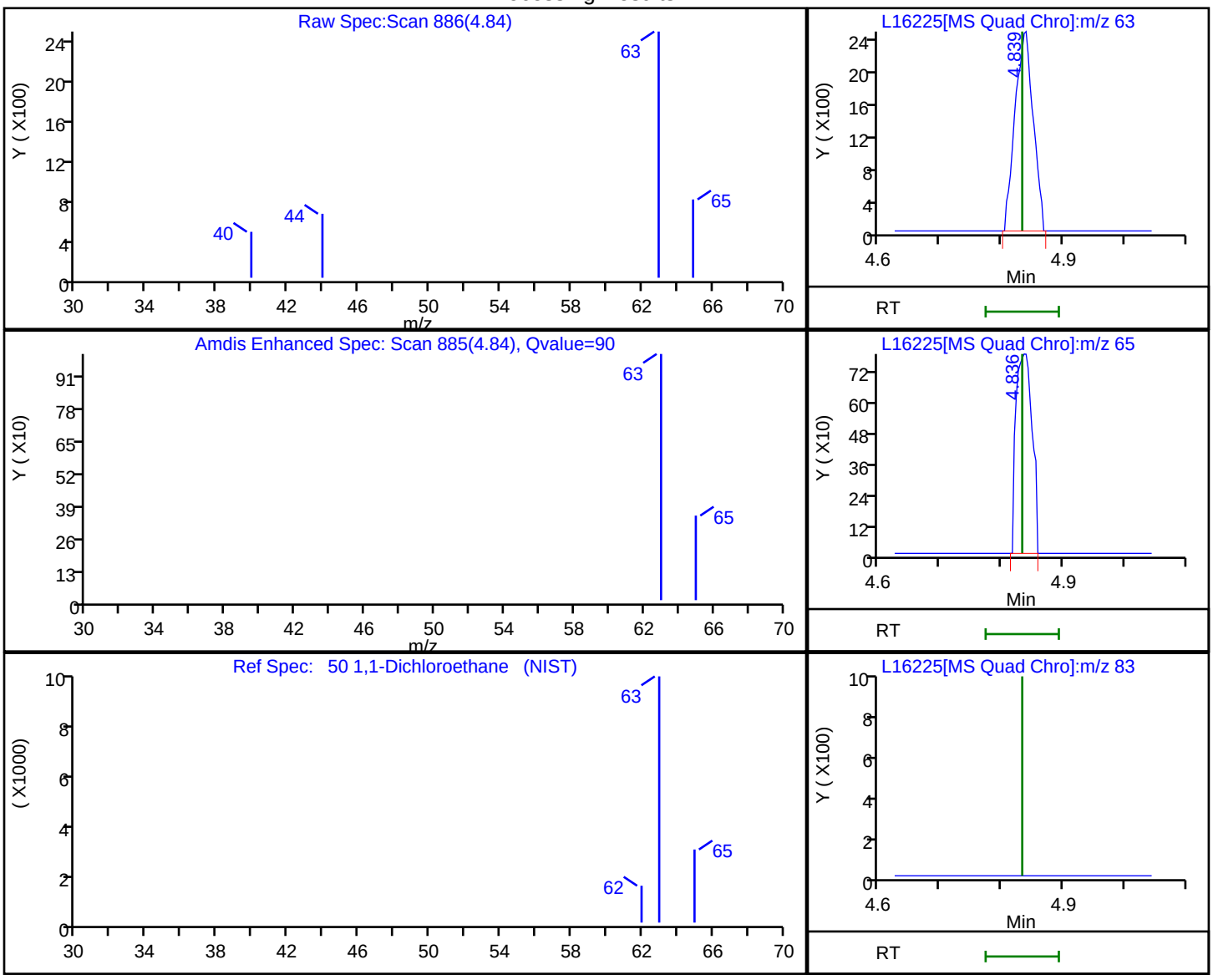
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16225.D				
Injection Date:	14-Dec-2021 06:04:11	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-3	Lab Sample ID:	480-193369-3		
Client ID:	MW-2B				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

50 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



RT	Mass	Response	Amount
4.84	63.00	5061	0.419775
4.84	65.00	1436	
4.83	83.00	0	

Reviewer: lapointec, 14-Dec-2021 10:32:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

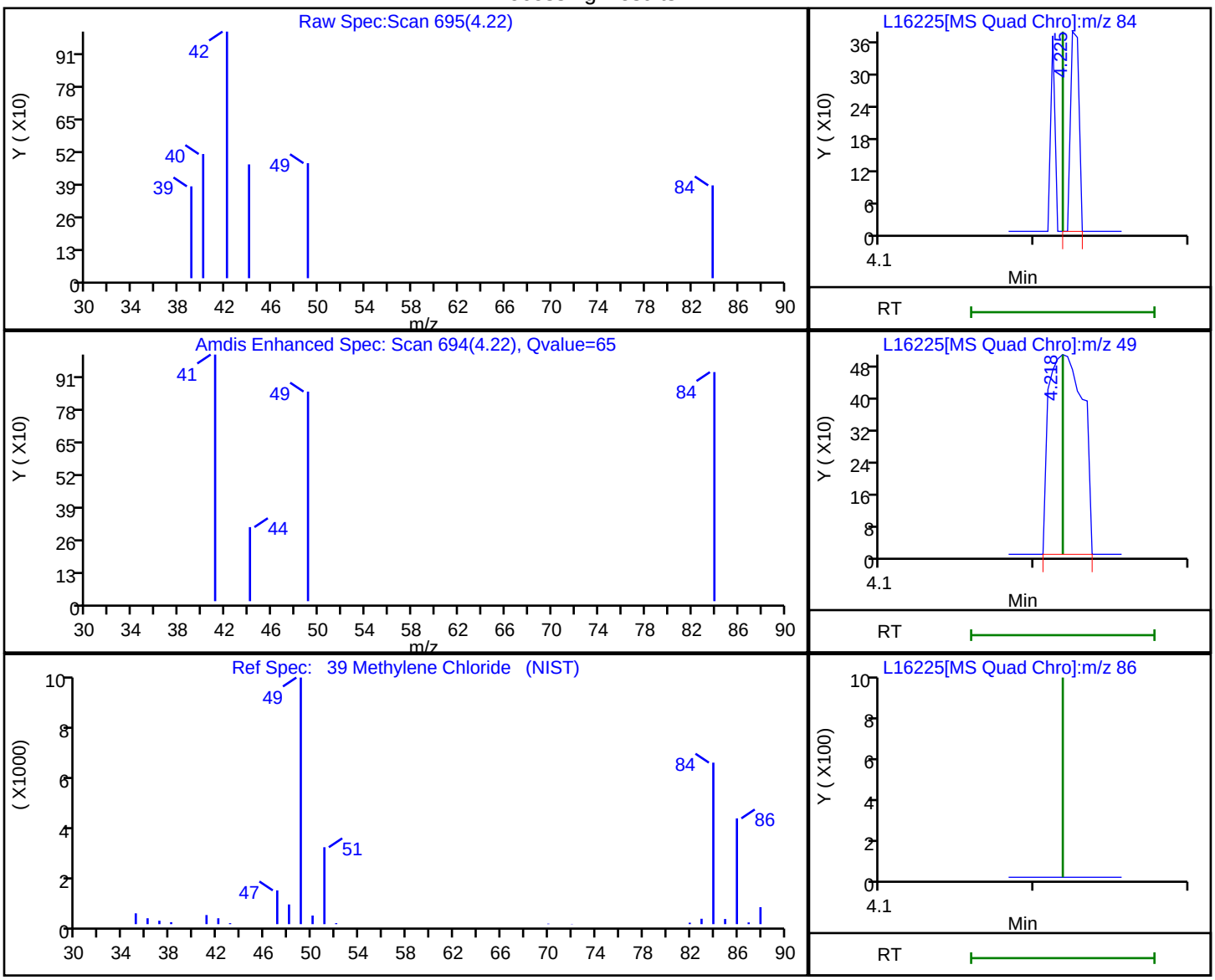
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16225.D				
Injection Date:	14-Dec-2021 06:04:11	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-3	Lab Sample ID:	480-193369-3		
Client ID:	MW-2B				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

39 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
4.22	84.00	143	-2.054751
4.22	49.00	778	
4.22	86.00	0	

Reviewer: lapointec, 14-Dec-2021 10:32:09

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

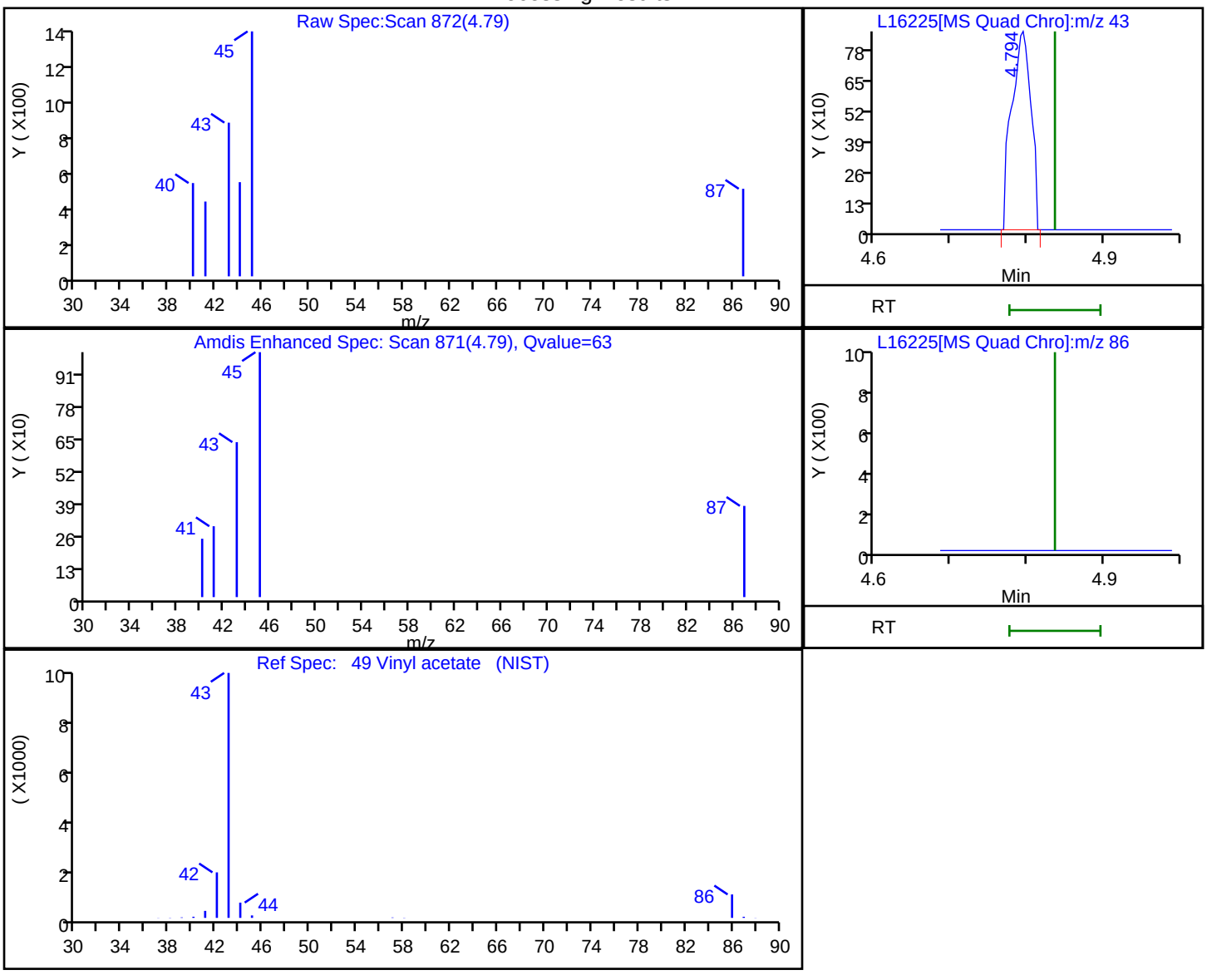
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16225.D				
Injection Date:	14-Dec-2021 06:04:11	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-3	Lab Sample ID:	480-193369-3		
Client ID:	MW-2B				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

49 Vinyl acetate, CAS: 108-05-4

Processing Results



RT	Mass	Response	Amount
4.79	43.00	1505	0.106561
4.84	86.00	0	

Reviewer: lapointec, 14-Dec-2021 10:32:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: MW-1B Lab Sample ID: 480-193369-4

Matrix: Water Lab File ID: L16226.D

Analysis Method: 8260C Date Collected: 12/09/2021 12:20

Sample wt/vol: 5(mL) Date Analyzed: 12/14/2021 06:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: MW-1B Lab Sample ID: 480-193369-4

Matrix: Water Lab File ID: L16226.D

Analysis Method: 8260C Date Collected: 12/09/2021 12:20

Sample wt/vol: 5(mL) Date Analyzed: 12/14/2021 06:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16226.D
Lims ID: 480-193369-M-4
Client ID: MW-1B
Sample Type: Client
Inject. Date: 14-Dec-2021 06:25:38 ALS Bottle#: 0 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193369-M-4
Misc. Info.: 480-0103021-027
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Dec-2021 10:33:00 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1664

First Level Reviewer: lapointec Date: 14-Dec-2021 10:33:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.351	0.000	99	120304	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	84	612336	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	94	358565	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	233963	27.9	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	93	756153	25.6	
$ 7 4-Bromofluorobenzene (Surr)	174	10.517	10.518	-0.001	94	266446	23.6	
13 Chloromethane	50		2.344				ND	
14 Vinyl chloride	62		2.473				ND	
18 Bromomethane	94		2.862				ND	
19 Chloroethane	64		2.952				ND	
21 Trichlorofluoromethane	101		3.186				ND	
30 1,1-Dichloroethene	96		3.730				ND	
31 Acetone	43	3.829	3.823	0.006	99	3916	1.49	
33 Iodomethane	142		3.910				ND	
35 Carbon disulfide	76		3.964				ND	
39 Methylene Chloride	84		4.219				ND	
42 trans-1,2-Dichloroethene	96		4.437				ND	
44 Acrylonitrile	53		4.476				ND	
50 1,1-Dichloroethane	63		4.833				ND	
49 Vinyl acetate	43		4.836				ND	
58 cis-1,2-Dichloroethene	96		5.354				ND	
57 2-Butanone (MEK)	43		5.354				ND	
60 Chlorobromomethane	128		5.585				ND	
62 Chloroform	83		5.630				ND	
64 1,1,1-Trichloroethane	97		5.768				ND	
66 Carbon tetrachloride	117		5.907				ND	
70 Benzene	78		6.112				ND	
72 1,2-Dichloroethane	62		6.164				ND	
75 Trichloroethene	95		6.678				ND	
77 1,2-Dichloropropane	63		6.916				ND	
82 Dibromomethane	93		7.061				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
83 Dichlorobromomethane	83		7.180				ND	
85 cis-1,3-Dichloropropene	75		7.575				ND	
87 4-Methyl-2-pentanone (MIBK)	43		7.681				ND	
88 Toluene	92		7.874				ND	
91 trans-1,3-Dichloropropene	75		8.119				ND	
93 1,1,2-Trichloroethane	83		8.321				ND	
94 Tetrachloroethene	166		8.408				ND	
96 2-Hexanone	43		8.501				ND	
98 Chlorodibromomethane	129		8.739				ND	
101 Ethylene Dibromide	107		8.874				ND	
103 Chlorobenzene	112		9.331				ND	
104 Ethylbenzene	91		9.389				ND	
105 1,1,1,2-Tetrachloroethane	131		9.408				ND	
106 m-Xylene & p-Xylene	106		9.505				ND	
107 o-Xylene	106		9.945				ND	
109 Styrene	104		9.971				ND	
110 Bromoform	173		10.251				ND	
112 1,1,2,2-Tetrachloroethane	83		10.681				ND	
115 trans-1,4-Dichloro-2-butene	53		10.723				ND	
116 1,2,3-Trichloropropane	110		10.736				ND	
126 1,4-Dichlorobenzene	146		11.633				ND	
128 1,2-Dichlorobenzene	146		11.977				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.656				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent

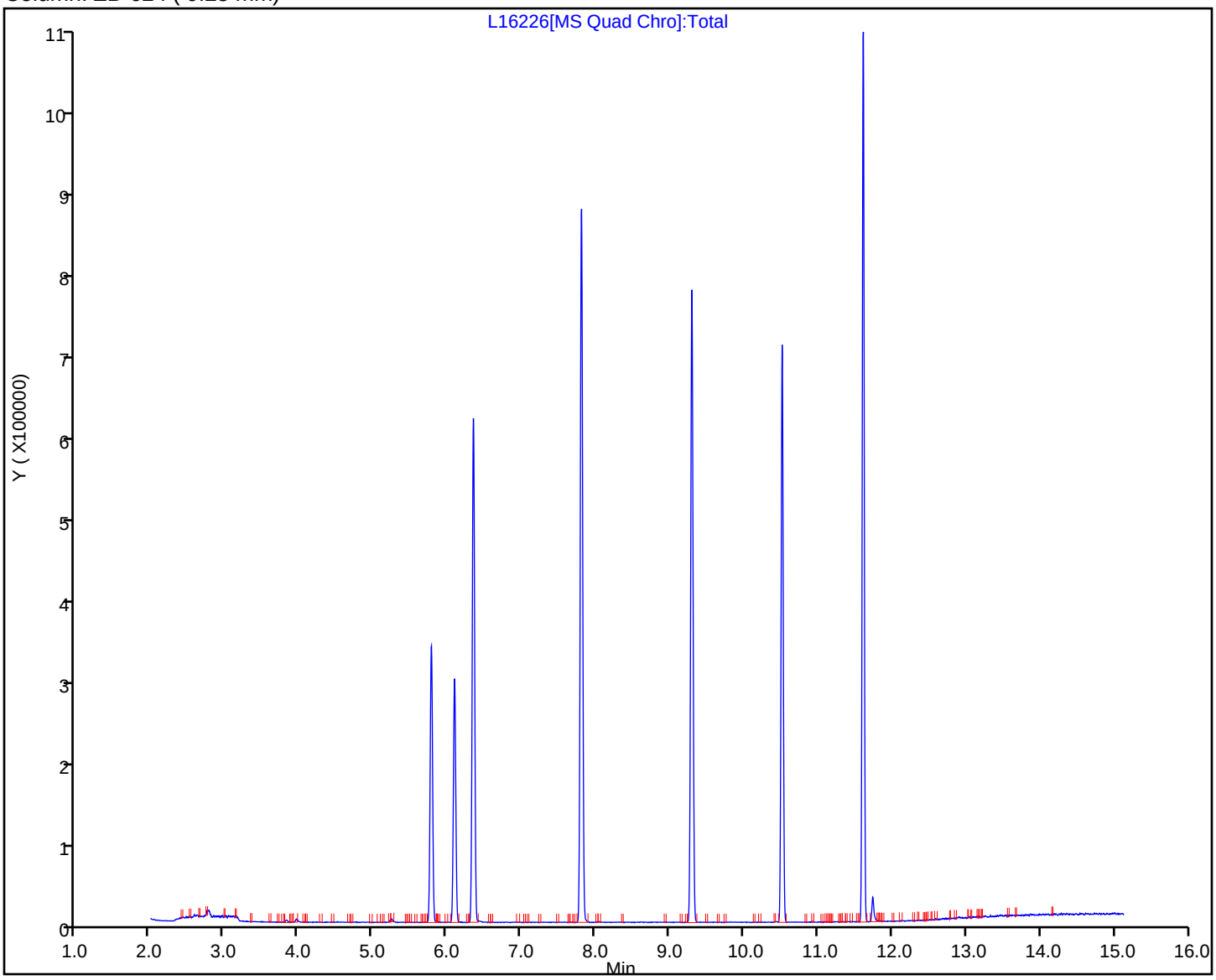
Report Date: 14-Dec-2021 10:33:26 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16226.D

Injection Date:	14-Dec-2021 06:25:38	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-4	Lab Sample ID:	480-193369-4		
Client ID:	MW-1B				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: DUP MW-1B Lab Sample ID: 480-193369-5

Matrix: Water Lab File ID: L16227.D

Analysis Method: 8260C Date Collected: 12/09/2021 13:45

Sample wt/vol: 5(mL) Date Analyzed: 12/14/2021 06:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: DUP MW-1B Lab Sample ID: 480-193369-5

Matrix: Water Lab File ID: L16227.D

Analysis Method: 8260C Date Collected: 12/09/2021 13:45

Sample wt/vol: 5(mL) Date Analyzed: 12/14/2021 06:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16227.D
Lims ID: 480-193369-M-5
Client ID: DUP @ MW-1B
Sample Type: Client
Inject. Date: 14-Dec-2021 06:47:29 ALS Bottle#: 0 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193369-M-5
Misc. Info.: 480-0103021-028
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Dec-2021 10:33:51 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1664

First Level Reviewer: lapointec Date: 14-Dec-2021 10:33:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.351	0.000	99	121063	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	84	631775	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	94	365526	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	96	234613	27.8	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	93	766812	25.1	
$ 7 4-Bromofluorobenzene (Surr)	174	10.521	10.518	0.003	94	275299	23.6	
13 Chloromethane	50		2.344				ND	
14 Vinyl chloride	62		2.473				ND	
18 Bromomethane	94		2.862				ND	
19 Chloroethane	64		2.952				ND	
21 Trichlorofluoromethane	101		3.186				ND	
30 1,1-Dichloroethene	96		3.730				ND	
31 Acetone	43		3.823				ND	U
33 Iodomethane	142		3.910				ND	
35 Carbon disulfide	76		3.964				ND	
39 Methylene Chloride	84		4.219				ND	
42 trans-1,2-Dichloroethene	96		4.437				ND	
44 Acrylonitrile	53		4.476				ND	
50 1,1-Dichloroethane	63		4.833				ND	
49 Vinyl acetate	43		4.836				ND	
58 cis-1,2-Dichloroethene	96		5.354				ND	
57 2-Butanone (MEK)	43		5.354				ND	
60 Chlorobromomethane	128		5.585				ND	
62 Chloroform	83		5.630				ND	
64 1,1,1-Trichloroethane	97		5.768				ND	
66 Carbon tetrachloride	117		5.907				ND	
70 Benzene	78		6.112				ND	
72 1,2-Dichloroethane	62		6.164				ND	
75 Trichloroethene	95		6.678				ND	
77 1,2-Dichloropropane	63		6.916				ND	
82 Dibromomethane	93		7.061				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
83 Dichlorobromomethane	83		7.180				ND	
85 cis-1,3-Dichloropropene	75		7.575				ND	
87 4-Methyl-2-pentanone (MIBK)	43		7.681				ND	
88 Toluene	92		7.874				ND	
91 trans-1,3-Dichloropropene	75		8.119				ND	
93 1,1,2-Trichloroethane	83		8.321				ND	
94 Tetrachloroethene	166		8.408				ND	
96 2-Hexanone	43		8.501				ND	
98 Chlorodibromomethane	129		8.739				ND	
101 Ethylene Dibromide	107		8.874				ND	
103 Chlorobenzene	112		9.331				ND	
104 Ethylbenzene	91		9.389				ND	
105 1,1,1,2-Tetrachloroethane	131		9.408				ND	
106 m-Xylene & p-Xylene	106		9.505				ND	
107 o-Xylene	106		9.945				ND	
109 Styrene	104		9.971				ND	
110 Bromoform	173		10.251				ND	
112 1,1,2,2-Tetrachloroethane	83		10.681				ND	
115 trans-1,4-Dichloro-2-butene	53		10.723				ND	
116 1,2,3-Trichloropropane	110		10.736				ND	
126 1,4-Dichlorobenzene	146		11.633				ND	
128 1,2-Dichlorobenzene	146		11.977				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.656				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent

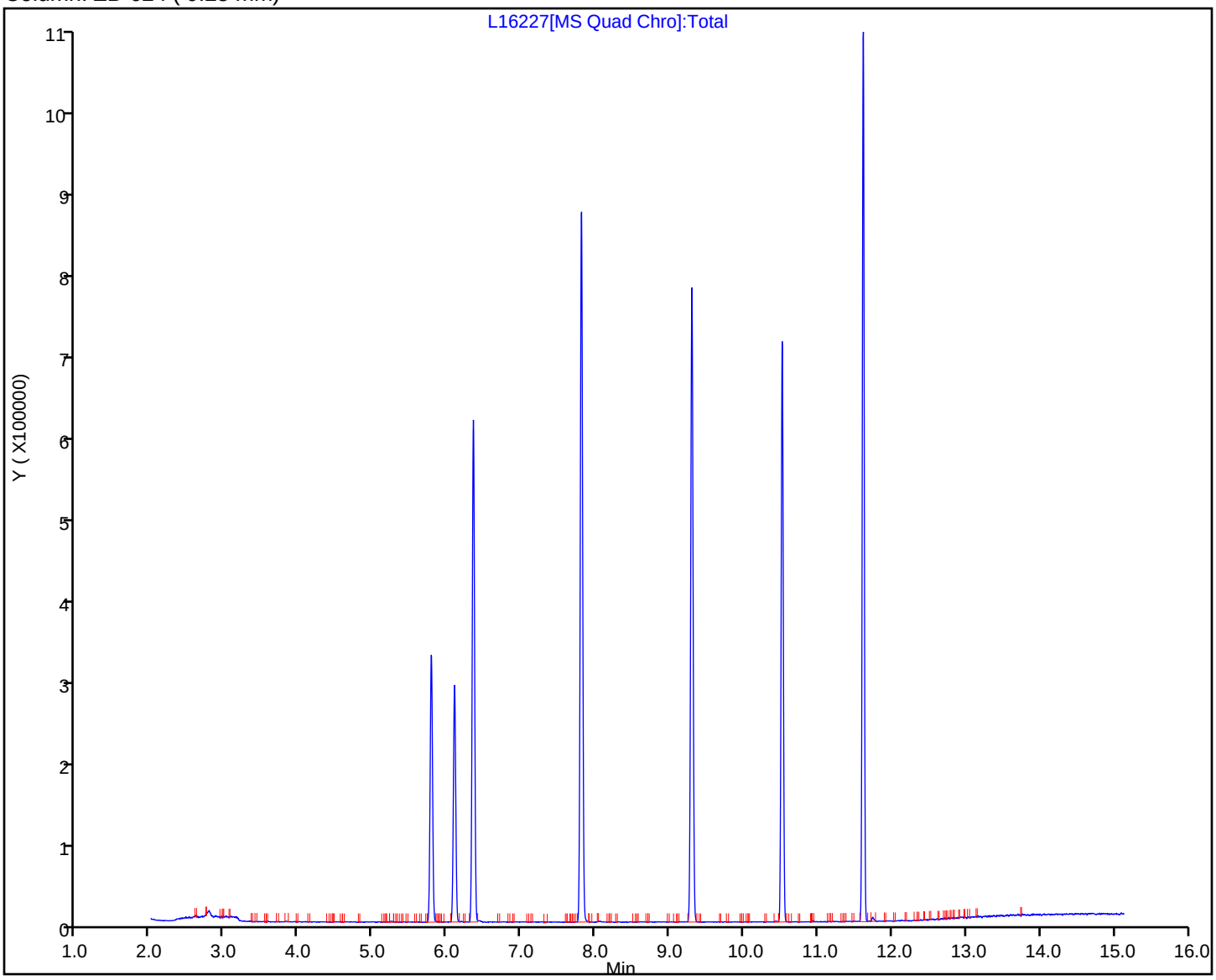
Report Date: 14-Dec-2021 10:33:52 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16227.D

Injection Date:	14-Dec-2021 06:47:29	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-5	Lab Sample ID:	480-193369-5		
Client ID:	DUP @ MW-1B				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



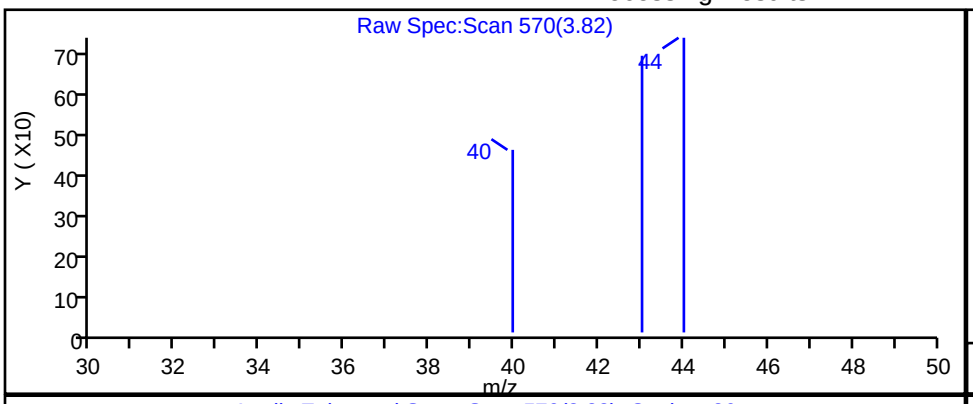
User Disabled Compound Report

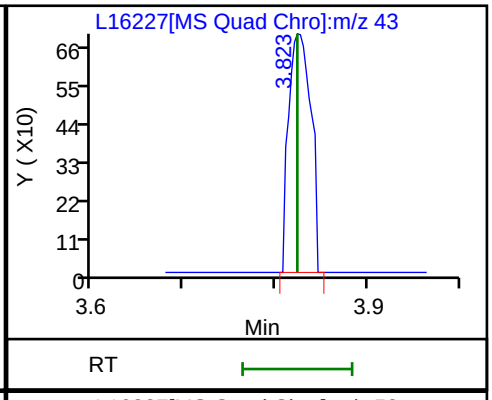
Eurofins TestAmerica, Buffalo

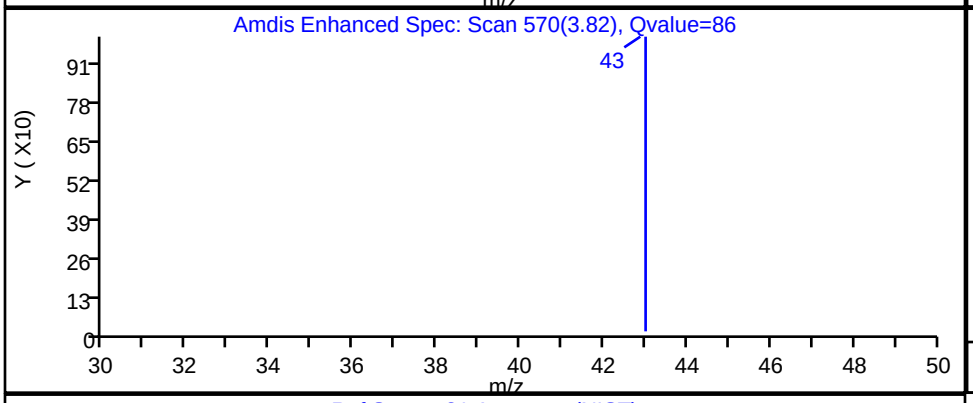
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16227.D				
Injection Date:	14-Dec-2021 06:47:29	Instrument ID:	HP5977L		
Lims ID:	480-193369-M-5	Lab Sample ID:	480-193369-5		
Client ID:	DUP @ MW-1B				
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

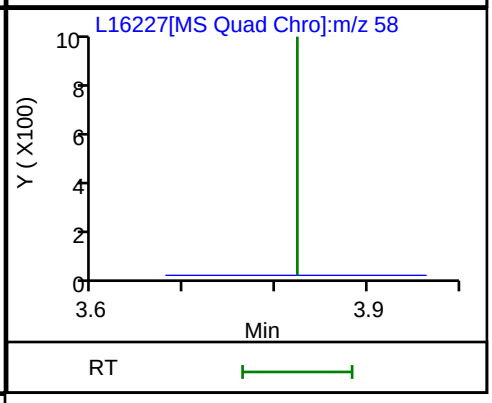
31 Acetone, CAS: 67-64-1

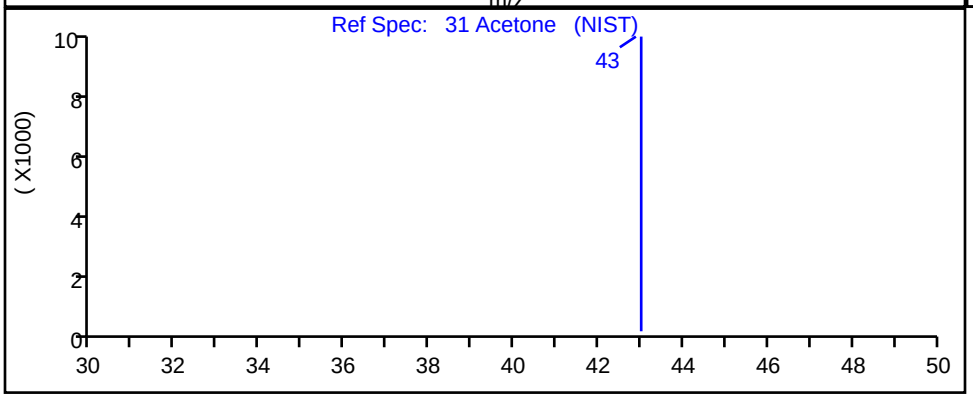
Processing Results











RT	Mass	Response	Amount
3.82	43.00	1163	0.440709
3.82	58.00	0	

Reviewer: lapointec, 14-Dec-2021 10:33:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-608018/8	L16084.D
Level 2	IC 480-608018/9	L16085.D
Level 3	IC 480-608018/10	L16086.D
Level 4	IC 480-608018/11	L16087.D
Level 5	IC 480-608018/12	L16088.D
Level 6	ICIS 480-608018/13	L16089.D
Level 7	IC 480-608018/14	L16090.D
Level 8	IC 480-608018/15	L16091.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 1.3571	0.7949 1.5082	0.7756 1.4829	1.1445	1.1783	Lin1	-1.128	1.4786			0.1000	15.8			0.9970		0.9900
Chloromethane	+++++ 1.3666	1.5777 1.4797	1.2603 1.3927	1.4901	1.3442	Ave		1.4159			0.1000	7.5		20.0			
Vinyl chloride	1.7904 1.5674	1.3940 1.7479	1.1590 1.6387	1.4663	1.4595	Ave		1.5279			0.1000	13.4		20.0			
Butadiene	1.7630 1.4325	1.0692 1.5786	0.9425 1.4983	1.3069	1.2807	Ave		1.3590				19.7		20.0			
Bromomethane	1.5622 1.5618	1.2649 1.8223	1.3644 1.6383	1.5293	1.7258	Ave		1.5586			0.1000	11.6		20.0			
Chloroethane	+++++ 1.1822	1.3621 1.3285	1.0495 1.2207	1.2293	1.1941	Ave		1.2238			0.1000	8.4		20.0			
Trichlorofluoromethane	+++++ 2.4733	1.5111 2.7466	1.5305 2.6186	2.0541	2.2951	Lin1	-1.771	2.6488			0.1000	12.8			0.9980		0.9900
Dichlorofluoromethane	+++++ 2.3808	2.5999 2.7747	2.3236 2.5012	2.3912	2.5276	Ave		2.4999				6.2		20.0			
Ethyl ether	+++++ 1.1109	1.3923 1.1413	1.4216 1.1398	1.1435	1.1395	Ave		1.2127				11.0		20.0			
Acrolein	+++++ 0.2222	0.2371 0.2343	0.2593 0.2472	0.2127	0.2309	Ave		0.2348				6.6		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 1.3681	0.9345 1.2998	1.1319 1.3748	0.8838	1.0168	Ave		1.1443			0.1000	18.0		20.0			
1,1-Dichloroethene	1.0290 1.2595	1.1708 1.2973	1.3540 1.3260	1.0589	1.1267	Ave		1.2028			0.1000	10.3		20.0			
Acetone	+++++ 0.5381	0.5496 0.5232	0.5816 0.5627	0.5398	0.5196	Ave		0.5449			0.1000	4.0		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	2.7237 2.7497	2.9403 2.9200	3.1076 2.8987	2.6530	2.8091	Ave		2.8503				5.1		20.0			
Carbon disulfide	3.9609 4.0607	3.7260 4.2161	4.3056 4.2141	3.5371	3.7067	Ave		3.9659			0.1000	7.1		20.0			
Allyl chloride	1.7541 1.6889	1.9189 1.7831	1.9716 1.7792	1.5622	1.6814	Ave		1.7674				7.4		20.0			
Methyl acetate	+++++ 1.2925	1.4493 1.3271	1.4781 1.3940	1.2860	1.3334	Ave		1.3658			0.1000	5.6		20.0			
Methylene Chloride	+++++ 1.5833	4.6231 1.6023	3.2717 1.5623	2.0517	1.8732	Lin1	3.1578	1.5232			0.1000	6.5			0.9990		0.9900
2-Methyl-2-propanol	0.2389 0.2313	0.2048 0.2169	0.2122 0.2601	0.2129	0.2062	Ave		0.2229				8.6		20.0			
Methyl tert-butyl ether	4.0398 3.8940	4.0190 4.1629	4.1365 4.3272	3.7343	3.9856	Ave		4.0374			0.1000	4.4		20.0			
trans-1,2-Dichloroethene	1.6163 1.5480	1.5448 1.6021	1.7418 1.5806	1.4706	1.4779	Ave		1.5728			0.1000	5.5		20.0			
Acrylonitrile	0.7710 0.6863	0.7112 0.6948	0.7688 0.7182	0.6926	0.6929	Ave		0.7170				4.8		20.0			
Hexane	+++++ 1.6561	1.2328 1.5852	1.4471 1.7021	1.0594	1.2605	Ave		1.4205				17.1		20.0			
1,1-Dichloroethane	2.3619 2.2778	2.4599 2.4061	2.4777 2.4088	2.1578	2.3017	Ave		2.3565			0.2000	4.5		20.0			
Vinyl acetate	2.5859 2.8150	2.5391 3.0263	2.6776 3.2408	2.5396	2.6590	Ave		2.7604				9.2		20.0			
2,2-Dichloropropane	1.4717 1.5762	1.4703 1.7466	1.7176 1.6717	1.3834	1.5441	Ave		1.5727				8.3		20.0			
cis-1,2-Dichloroethene	1.6626 1.6820	1.6600 1.7726	1.8884 1.7677	1.6172	1.7244	Ave		1.7219			0.1000	5.0		20.0			
2-Butanone (MEK)	0.8344 0.8533	0.8359 0.8498	0.9030 0.9324	0.8275	0.8015	Ave		0.8547			0.1000	5.0		20.0			
Chlorobromomethane	0.7724 0.9886	1.0758 1.0527	1.0929 1.0549	0.9337	1.0272	Ave		0.9998				10.5		20.0			
Tetrahydrofuran	0.4443 0.5693	0.6082 0.5866	0.6193 0.6272	0.5417	0.5501	Ave		0.5683				10.4		20.0			
Chloroform	3.3321 2.6294	2.8488 2.7627	3.0555 2.7549	2.5896	2.7254	Ave		2.8373			0.2000	8.7		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	+++++ 2.3610	1.9995 2.4433	2.3489 2.4443	1.9770	2.1361	Ave		2.2443			0.1000	9.0		20.0			
Cyclohexane	1.3019 1.9234	1.3915 1.8831	1.6747 1.9537	1.2584	1.5114	Ave		1.6122			0.1000	17.7		20.0			
Carbon tetrachloride	+++++ 2.1442	1.8016 2.2268	1.9763 2.3086	1.6506	1.7780	Ave		1.9837			0.1000	12.6		20.0			
1,1-Dichloropropene	1.5022 1.8428	1.6764 1.8604	1.8026 1.9006	1.5511	1.6488	Ave		1.7231				8.7		20.0			
Isobutyl alcohol	0.0884 0.0935	0.0733 0.0915	0.0876 0.1046	0.0840	0.0818	Ave		0.0881				10.4		20.0			
Benzene	5.3117 5.2874	5.5600 5.4602	5.8147 5.5298	5.2249	5.2168	Ave		5.4257			0.5000	3.8		20.0			
1,2-Dichloroethane	2.1259 1.9428	2.1951 2.0145	2.1262 2.0424	1.9674	2.0017	Ave		2.0520			0.1000	4.3		20.0			
n-Heptane	1.2130 1.5409	1.2254 1.5061	1.5315 1.6189	1.1063	1.2230	Ave		1.3706				14.4		20.0			
Trichloroethene	1.4991 1.5292	1.4590 1.5867	1.6549 1.6040	1.4541	1.4448	Ave		1.5290			0.2000	5.1		20.0			
Methylcyclohexane	+++++ 2.3429	1.6965 2.3146	2.0215 2.3918	1.5220	1.8648	Ave		2.0220			0.1000	17.0		20.0			
1,2-Dichloropropane	1.0847 1.1999	1.1790 1.2407	1.2808 1.2838	1.1636	1.1757	Ave		1.2011			0.1000	5.5		20.0			
1,4-Dioxane	+++++ 0.0039	+++++ 0.0036	0.0034 0.0040	0.0032	0.0034	Ave		0.0036				8.8		20.0			
Dibromomethane	1.0148 1.0703	1.1095 1.0952	1.1740 1.1222	1.0794	1.0784	Ave		1.0930			0.1000	4.2		20.0			
Bromodichloromethane	1.7504 1.8761	1.9424 2.0174	1.9646 2.0975	1.7514	1.8279	Ave		1.9035			0.2000	6.6		20.0			
2-Chloroethyl vinyl ether	+++++ 0.9176	0.7638 0.9532	0.8948 1.0235	0.8631	0.8513	Ave		0.8953				9.2		20.0			
cis-1,3-Dichloropropene	1.8624 2.1207	2.0633 2.2804	2.0219 2.3977	1.9504	2.0358	Ave		2.0916			0.2000	8.3		20.0			
4-Methyl-2-pentanone (MIBK)	0.3594 0.3678	0.3303 0.3810	0.3566 0.3973	0.3494	0.3605	Ave		0.3628			0.1000	5.6		20.0			
Toluene	0.7652 0.7481	0.8242 0.7772	0.8245 0.7951	0.7577	0.7504	Ave		0.7803			0.4000	4.0		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl methacrylate	0.3185 0.3962	0.2968 0.4192	0.3198 0.4530	0.3413	0.3595	Ave		0.3630				15.1		20.0			
trans-1,3-Dichloropropene	0.3541 0.4415	0.4041 0.4612	0.4135 0.4998	0.4051	0.4181	Ave		0.4247			0.1000	10.2		20.0			
1,1,2-Trichloroethane	0.2081 0.2330	0.2658 0.2414	0.2403 0.2525	0.2323	0.2393	Ave		0.2391			0.1000	7.0		20.0			
Tetrachloroethene	0.3488 0.4041	0.3806 0.4115	0.4051 0.4259	0.3646	0.3717	Ave		0.3890			0.2000	6.8		20.0			
1,3-Dichloropropane	0.5329 0.4713	0.4948 0.4750	0.4969 0.4977	0.4750	0.4645	Ave		0.4885				4.5		20.0			
2-Hexanone	0.2453 0.2540	0.2144 0.2622	0.2454 0.2789	0.2429	0.2400	Ave		0.2479			0.1000	7.5		20.0			
Dibromochloromethane	0.2955 0.3558	0.3221 0.3843	0.3472 0.4182	0.3286	0.3327	Ave		0.3480			0.1000	11.0		20.0			
1,2-Dibromoethane	0.3679 0.3432	0.3458 0.3534	0.3524 0.3712	0.3362	0.3324	Ave		0.3503				4.0		20.0			
Chlorobenzene	0.9134 0.9091	1.0053 0.9451	1.0026 0.9716	0.9148	0.9056	Ave		0.9459			0.5000	4.5		20.0			
Ethylbenzene	1.3781 1.4205	1.4345 1.4671	1.4930 1.4921	1.3779	1.3716	Ave		1.4293			0.1000	3.6		20.0			
1,1,1,2-Tetrachloroethane	0.2843 0.3689	0.3334 0.3893	0.3520 0.4004	0.3468	0.3457	Ave		0.3526				10.2		20.0			
m,p-Xylene	0.5518 0.5833	0.5985 0.6102	0.6119 0.6183	0.5604	0.5621	Ave		0.5871			0.1000	4.5		20.0			
o-Xylene	0.5723 0.5902	0.5611 0.6189	0.5996 0.6231	0.5642	0.5827	Ave		0.5890			0.3000	4.0		20.0			
Styrene	0.8578 0.9774	0.8636 1.0331	0.9638 1.0578	0.9247	0.9306	Ave		0.9511			0.3000	7.6		20.0			
Bromoform	0.2369 0.2747	0.2317 0.3136	0.2352 0.3434	0.2329	0.2481	Ave		0.2646			0.1000	16.1		20.0			
Isopropylbenzene	2.4353 2.4230	2.3802 2.5705	2.5841 2.6963	2.4144	2.4323	Ave		2.4920			0.1000	4.5		20.0			
1,1,2,2-Tetrachloroethane	0.9041 0.7355	0.7494 0.7576	0.7604 0.8255	0.7606	0.7727	Ave		0.7832			0.3000	7.1		20.0			
Bromobenzene	0.8130 0.7038	0.7662 0.7523	0.7958 0.8010	0.7611	0.7332	Ave		0.7658				4.8		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	2.6012 2.7110	2.7714 2.8566	2.8769 2.9729	2.7668	2.7073	Ave		2.7830				4.2		20.0			
trans-1,4-Dichloro-2-butene	0.1783 0.1967	0.1780 0.2142	0.2046 0.2345	0.1900	0.1933	Ave		0.1987				9.5		20.0			
1,2,3-Trichloropropane	+++++ 0.2706	0.2994 0.2819	0.2886 0.2987	0.3012	0.2869	Ave		0.2896				3.8		20.0			
2-Chlorotoluene	0.5970 0.6334	0.6362 0.6642	0.7236 0.6925	0.6748	0.6434	Ave		0.6581				6.0		20.0			
1,3,5-Trimethylbenzene	2.1453 2.0557	2.1325 2.1682	2.2288 2.2609	2.1147	2.0909	Ave		2.1496				3.2		20.0			
4-Chlorotoluene	1.7898 1.6467	1.7507 1.7160	1.8039 1.8034	1.7629	1.7058	Ave		1.7474				3.2		20.0			
tert-Butylbenzene	+++++ 0.5008	0.5012 0.5313	0.4973 0.5606	0.4895	0.4794	Ave		0.5086				5.5		20.0			
1,2,4-Trimethylbenzene	2.0439 2.1473	2.1129 2.2573	2.3051 2.3327	2.2341	2.1886	Ave		2.2027				4.5		20.0			
sec-Butylbenzene	2.4672 2.6722	2.4282 2.7633	2.6993 2.8965	2.5418	2.5053	Ave		2.6217				6.2		20.0			
4-Isopropyltoluene	2.2251 2.4442	2.2885 2.5561	2.5020 2.6836	2.3727	2.3793	Ave		2.4315				6.1		20.0			
1,3-Dichlorobenzene	1.4760 1.3677	1.4668 1.4137	1.5657 1.4933	1.4340	1.4412	Ave		1.4573			0.6000	4.0		20.0			
1,4-Dichlorobenzene	1.6398 1.3787	1.5594 1.4436	1.5731 1.5101	1.4916	1.4529	Ave		1.5061			0.5000	5.5		20.0			
n-Butylbenzene	2.0499 2.0215	1.9114 2.1246	2.1170 2.2148	1.9288	1.9094	Ave		2.0347				5.6		20.0			
1,2-Dichlorobenzene	1.6579 1.3507	1.5276 1.4050	1.4679 1.4726	1.4265	1.4155	Ave		1.4654			0.4000	6.4		20.0			
1,2-Dibromo-3-Chloropropane	0.1329 0.1657	0.1534 0.1827	0.1795 0.2005	0.1528	0.1679	Ave		0.1669			0.0500	12.6		20.0			
1,2,4-Trichlorobenzene	+++++ 1.0573	1.1122 1.0992	1.1525 1.1580	1.1112	1.1090	Ave		1.1142			0.2000	3.0		20.0			
Hexachlorobutadiene	0.5290 0.4806	0.3781 0.4915	0.4933 0.5290	0.4538	0.4557	Ave		0.4764				10.2		20.0			
Naphthalene	+++++ 3.0188	3.0195 3.1294	3.1004 3.2784	3.0467	3.1100	Ave		3.1005				2.9		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	+++++ 1.0293	1.0712 1.0551	1.1176 1.1035	1.0622	1.0482	Ave		1.0696				2.9		20.0			
Dibromofluoromethane (Surr)	1.7330 1.6901	1.6961 1.7511	1.7013 1.7240	1.7201	1.7802	Ave		1.7245				1.8		20.0			
1,2-Dichloroethane-d4 (Surr)	1.7879 1.7096	1.7596 1.7130	1.7326 1.7355	1.7570	1.7704	Ave		1.7457				1.6		20.0			
Toluene-d8 (Surr)	1.2179 1.1805	1.2267 1.1594	1.1744 1.2071	1.2577	1.2318	Ave		1.2069				2.8		20.0			
4-Bromofluorobenzene (Surr)	0.4504 0.4551	0.4552 0.4560	0.4457 0.4880	0.4680	0.4708	Ave		0.4611				3.0		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-608018/8	L16084.D
Level 2	IC 480-608018/9	L16085.D
Level 3	IC 480-608018/10	L16086.D
Level 4	IC 480-608018/11	L16087.D
Level 5	IC 480-608018/12	L16088.D
Level 6	ICIS 480-608018/13	L16089.D
Level 7	IC 480-608018/14	L16090.D
Level 8	IC 480-608018/15	L16091.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Lin1	+++++	3842	7551	28573	57861	+++++	1.00	2.00	5.00	10.0
			171495	391553	784419			25.0	50.0	100		
Chloromethane	FB	Ave	+++++	7626	12270	37201	66008	+++++	1.00	2.00	5.00	10.0
			172698	384163	736687			25.0	50.0	100		
Vinyl chloride	FB	Ave	3405	6738	11284	36607	71668	0.400	1.00	2.00	5.00	10.0
			198074	453789	866811			25.0	50.0	100		
Butadiene	FB	Ave	3353	5168	9176	32626	62888	0.400	1.00	2.00	5.00	10.0
			181017	409828	792550			25.0	50.0	100		
Bromomethane	FB	Ave	2971	6114	13283	38178	84745	0.400	1.00	2.00	5.00	10.0
			197367	473102	866603			25.0	50.0	100		
Chloroethane	FB	Ave	+++++	6584	10218	30690	58638	+++++	1.00	2.00	5.00	10.0
			149396	344892	645715			25.0	50.0	100		
Trichlorofluoromethane	FB	Lin1	+++++	7304	14901	51280	112701	+++++	1.00	2.00	5.00	10.0
			312552	713067	1385169			25.0	50.0	100		
Dichlorofluoromethane	FB	Ave	+++++	12567	22622	59697	124118	+++++	1.00	2.00	5.00	10.0
			300853	720344	1323029			25.0	50.0	100		
Ethyl ether	FB	Ave	+++++	6730	13840	28547	55956	+++++	1.00	2.00	5.00	10.0
			140381	296295	602938			25.0	50.0	100		
Acrolein	FB	Ave	+++++	5731	12624	26549	56680	+++++	5.00	10.0	25.0	50.0
			140421	304111	653850			125	250	500		
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++	4517	11020	22064	49930	+++++	1.00	2.00	5.00	10.0
			172883	337454	727236			25.0	50.0	100		
1,1-Dichloroethene	FB	Ave	1957	5659	13182	26435	55326	0.400	1.00	2.00	5.00	10.0
			159162	336791	701425			25.0	50.0	100		
Acetone	FB	Ave	+++++	13283	28313	67384	127572	+++++	5.00	10.0	25.0	50.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			340016	679118	1488181			125	250	500		
Iodomethane	FB	Ave	5180 347479	14212 758083	30255 1533324	66231	137939	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	7533 513145	18010 1094564	41918 2229126	88303	182019	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Allyl chloride	FB	Ave	3336 213426	9275 462923	19195 941129	39000	82563	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	+++++ 326667	14011 689089	28781 1474701	64212	130951	+++++ 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	+++++ 200075	22346 415975	31852 826407	51221	91985	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	4543 292330	9900 563023	20662 1375660	53140	101267	4.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	7683 492071	19426 1080760	40272 2288927	93226	195712	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	3074 195615	7467 415916	16958 836106	36714	72570	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	14663 867289	34377 1803731	74848 3798780	172917	340271	4.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	+++++ 209273	5959 411549	14089 900329	26448	61897	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	4492 287840	11890 624657	24122 1274157	53870	113023	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	9836 711462	24546 1571335	52136 3428560	126803	261143	0.800 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	2799 199187	7107 453434	16722 884244	34536	75821	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	3162 212555	8024 460187	18385 935062	40374	84676	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	7934 539142	20201 1103055	43958 2466129	103295	196794	2.00 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	1469 124933	5200 273293	10640 557994	23309	50440	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	1690 143876	5880 304562	12059 663585	27048	54024	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	6337	13770	29748	64650	133831	0.400	1.00	2.00	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			332269	717239	1457218			25.0	50.0	100		
1,1,1-Trichloroethane	FB	Ave	+++++ 298359	9665 634306	22868 1292954	49356	104891	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	2476 243053	6726 488876	16304 1033414	31417	74215	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	+++++ 270958	8708 578104	19241 1221142	41207	87310	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	2857 232876	8103 482996	17550 1005326	38723	80965	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	4204 295488	8856 593865	21330 1383356	52432	100471	10.0 625	25.0 1250	50.0 2500	125	250
Benzene	FB	Ave	10102 668155	26875 1417541	56611 2925086	130439	256168	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	4043 245504	10610 523004	20700 1080365	49115	98295	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	2307 194722	5923 391011	14910 856345	27618	60055	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	2851 193243	7052 411926	16112 848448	36301	70946	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	+++++ 296071	8200 600899	19681 1265166	37996	91572	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	2063 151633	5699 322111	12470 679077	29050	57734	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	+++++ 46298	+++++ 87300	3065 200827	7349	15523	+++++ 500	+++++ 1000	40.0 2000	100	200
Dibromomethane	FB	Ave	1930 135254	5363 284321	11430 593618	26948	52957	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromodichloromethane	FB	Ave	3329 237083	9389 523747	19127 1109502	43723	89758	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 115954	3692 247452	8712 541404	21548	41804	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	3542 267989	9973 592031	19685 1268298	48692	99967	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	15427	37031	81443	198430	406796	2.00	5.00	10.0	25.0	50.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			1085191	2341970	4964934			125	250	500		
Toluene	CBNZ d5	Ave	6570 441443	18484 955518	37659 1987159	86055	169345	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	2735 233780	6656 515385	14606 1132087	38758	81137	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	3040 260512	9062 566961	18889 1249095	46007	94364	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	1787 137478	5961 296845	10976 631100	26382	53998	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	2995 238489	8536 505886	18504 1064349	41404	83886	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	4575 278100	11097 583952	22695 1243922	53949	104828	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	10532 749542	24037 1611969	56040 3484749	137960	270869	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	2537 209981	7223 472429	15858 1045138	37323	75089	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	3159 202512	7754 434494	16096 927625	38189	75012	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	7842 536478	22544 1161917	45795 2428277	103901	204368	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	11832 838243	32169 1803711	68196 3729047	156491	309539	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	2441	7476	16078	39388	78022	0.400	1.00	2.00	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			217698	478617	1000789			25.0	50.0	100		
m,p-Xylene	CBNZ d5	Ave	4738	13422	27951	63649	126864	0.400	1.00	2.00	5.00	10.0
			344209	750219	1545198			25.0	50.0	100		
o-Xylene	CBNZ d5	Ave	4914	12582	27388	64081	131511	0.400	1.00	2.00	5.00	10.0
			348275	760907	1557292			25.0	50.0	100		
Styrene	CBNZ d5	Ave	7365	19367	44022	105029	210013	0.400	1.00	2.00	5.00	10.0
			576766	1270103	2643851			25.0	50.0	100		
Bromoform	CBNZ d5	Ave	2034	5195	10742	26457	55992	0.400	1.00	2.00	5.00	10.0
			162119	385565	858177			25.0	50.0	100		
Isopropylbenzene	DCBd 4	Ave	12536	32065	72529	160689	331419	0.400	1.00	2.00	5.00	10.0
			911009	2000331	4056525			25.0	50.0	100		
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4654	10096	21343	50620	105290	0.400	1.00	2.00	5.00	10.0
			276544	589538	1241974			25.0	50.0	100		
Bromobenzene	DCBd 4	Ave	4185	10322	22335	50655	99899	0.400	1.00	2.00	5.00	10.0
			264604	585398	1205009			25.0	50.0	100		
N-Propylbenzene	DCBd 4	Ave	13390	37334	80748	184139	368892	0.400	1.00	2.00	5.00	10.0
			1019297	2222923	4472638			25.0	50.0	100		
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	918	2398	5743	12648	26342	0.400	1.00	2.00	5.00	10.0
			73938	166720	352807			25.0	50.0	100		
1,2,3-Trichloropropane	DCBd 4	Ave	+++++	4033	8100	20046	39097	+++++	1.00	2.00	5.00	10.0
			101758	219371	449453			25.0	50.0	100		
2-Chlorotoluene	DCBd 4	Ave	3073	8571	20311	44908	87673	0.400	1.00	2.00	5.00	10.0
			238130	516833	1041789			25.0	50.0	100		
1,3,5-Trimethylbenzene	DCBd 4	Ave	11043	28728	62556	140738	284901	0.400	1.00	2.00	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			772899	1687287	3401389			25.0	50.0	100		
4-Chlorotoluene	DCBd 4	Ave	9213 619127	23584 1335365	50632 2713135	117330	232425	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 188282	6752 413424	13957 843470	32581	65320	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	10521 807348	28463 1756563	64699 3509471	148690	298214	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	12700 1004684	32711 2150338	75762 4357688	169167	341370	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	11454 918978	30829 1989154	70226 4037341	157913	324202	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	7598 514232	19760 1100127	43944 2246545	95437	196377	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	8441 518353	21007 1123422	44154 2271838	99273	197966	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	10552 760057	25749 1653316	59420 3332084	128371	260172	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	8534 507837	20579 1093310	41199 2215416	94941	192877	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	684 62285	2067 142150	5038 301654	10168	22877	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 397540	14983 855387	32348 1742151	73955	151115	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	2723	5094	13845	30205	62093	0.400	1.00	2.00	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			180681	382465	795831			25.0	50.0	100		
Naphthalene	DCBd 4	Ave	+++++	40677	87021	202769	423771	+++++	1.00	2.00	5.00	10.0
			1135018	2435249	4932235			25.0	50.0	100		
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++	14431	31369	70696	142829	+++++	1.00	2.00	5.00	10.0
			387013	821050	1660148			25.0	50.0	100		
Dibromofluoromethane (Surr)	FB	Ave	205991	204953	207045	214716	218544	25.0	25.0	25.0	25.0	25.0
			213579	227304	227988			25.0	25.0	25.0		
1,2-Dichloroethane-d4 (Surr)	FB	Ave	212519	212627	210847	219318	217341	25.0	25.0	25.0	25.0	25.0
			216043	222357	229503			25.0	25.0	25.0		
Toluene-d8 (Surr)	CBNZ d5	Ave	653530	687755	670564	714239	694984	25.0	25.0	25.0	25.0	25.0
			696601	712680	754204			25.0	25.0	25.0		
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	241691	255216	254475	265761	265635	25.0	25.0	25.0	25.0	25.0
			268547	280297	304901			25.0	25.0	25.0		

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-608018/8	L16084.D
Level 2	IC 480-608018/9	L16085.D
Level 3	IC 480-608018/10	L16086.D
Level 4	IC 480-608018/11	L16087.D
Level 5	IC 480-608018/12	L16088.D
Level 6	ICIS 480-608018/13	L16089.D
Level 7	IC 480-608018/14	L16090.D
Level 8	IC 480-608018/15	L16091.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	+++++	30.0						30				
Chloromethane	+++++	11.4						30				
Vinyl chloride	17.2						30					
Butadiene	29.7						30					
Bromomethane	0.2						30					
Chloroethane	+++++	11.3						30				
Trichlorofluoromethane	+++++	23.9						30				
Dichlorofluoromethane	+++++	4.0						30				
Ethyl ether	+++++	14.8						30				
Acrolein	+++++	1.0						30				
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++	-18.3						30				
1,1-Dichloroethene	-14.4						30					
Acetone	+++++	0.9						30				
Iodomethane	-4.4						30					
Carbon disulfide	-0.1						30					

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Allyl chloride	-0.8						30					
Methyl acetate	+++++	6.1						30				
Methylene Chloride	+++++	-3.8						30				
2-Methyl-2-propanol	7.2						30					
Methyl tert-butyl ether	0.1						30					
trans-1,2-Dichloroethene	2.8						30					
Acrylonitrile	7.5						30					
Hexane	+++++	-13.2						30				
1,1-Dichloroethane	0.2						30					
Vinyl acetate	-6.3						30					
2,2-Dichloropropane	-6.4						30					
cis-1,2-Dichloroethene	-3.4						30					
2-Butanone (MEK)	-2.4						30					
Chlorobromomethane	-22.7						30					
Tetrahydrofuran	-21.8						30					
Chloroform	17.4						30					
1,1,1-Trichloroethane	+++++	-10.9						30				
Cyclohexane	-19.2						30					
Carbon tetrachloride	+++++	-9.2						30				
1,1-Dichloropropene	-12.8						30					
Isobutyl alcohol	0.4						30					

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Benzene	-2.1						30					
1,2-Dichloroethane	3.6						30					
n-Heptane	-11.5						30					
Trichloroethene	-2.0						30					
Methylcyclohexane	+++++	-16.1						30				
1,2-Dichloropropane	-9.7						30					
1,4-Dioxane	+++++	+++++	-6.5						30			
Dibromomethane	-7.2						30					
Bromodichloromethane	-8.0						30					
2-Chloroethyl vinyl ether	+++++	-14.7						30				
cis-1,3-Dichloropropene	-11.0						30					
4-Methyl-2-pentanone (MIBK)	-0.9						30					
Toluene	-1.9						30					
Ethyl methacrylate	-12.3						30					
trans-1,3-Dichloropropene	-16.6						30					
1,1,2-Trichloroethane	-12.9						30					
Tetrachloroethene	-10.3						30					
1,3-Dichloropropane	9.1						30					
2-Hexanone	-1.0						30					
Dibromochloromethane	-15.1						30					
1,2-Dibromoethane	5.0						30					

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chlorobenzene	-3.4						30					
Ethylbenzene	-3.6						30					
1,1,1,2-Tetrachloroethane	-19.4						30					
m,p-Xylene	-6.0						30					
o-Xylene	-2.8						30					
Styrene	-9.8						30					
Bromoform	-10.5						30					
Isopropylbenzene	-2.3						30					
1,1,2,2-Tetrachloroethane	15.4						30					
Bromobenzene	6.2						30					
N-Propylbenzene	-6.5						30					
trans-1,4-Dichloro-2-butene	-10.3						30					
1,2,3-Trichloropropane	+++++	3.4						30				
2-Chlorotoluene	-9.3						30					
1,3,5-Trimethylbenzene	-0.2						30					
4-Chlorotoluene	2.4						30					
tert-Butylbenzene	+++++	-1.4						30				
1,2,4-Trimethylbenzene	-7.2						30					
sec-Butylbenzene	-5.9						30					
4-Isopropyltoluene	-8.5						30					
1,3-Dichlorobenzene	1.3						30					

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1 Analy Batch No.: 608018

SDG No.: 193337

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/08/2021 16:14 Calibration End Date: 12/08/2021 18:47 Calibration ID: 42816

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	8.9						30					
n-Butylbenzene	0.7						30					
1,2-Dichlorobenzene	13.1						30					
1,2-Dibromo-3-Chloropropane	-20.4						30					
1,2,4-Trichlorobenzene	+++++	-0.2						30				
Hexachlorobutadiene	11.0						30					
Naphthalene	+++++	-2.6						30				
1,2,3-Trichlorobenzene	+++++	0.2						30				
Dibromofluoromethane (Surr)	0.5						30					
1,2-Dichloroethane-d4 (Surr)	2.4						30					
Toluene-d8 (Surr)	0.9						30					
4-Bromofluorobenzene (Surr)	-2.3						30					

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Lims ID: IC 0.4
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Dec-2021 16:14:22 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.4
Misc. Info.: 480-0102927-008
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:21 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 10:38:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	118864	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	536616	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	93	321724	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	93	205991	25.0	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	212519	25.0	25.6	
$ 6 Toluene-d8 (Surr)	98	7.807	7.810	-0.003	93	653530	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr)	174	10.521	10.518	0.003	92	241691	25.0	24.4	
10 Dichlorodifluoromethane	85	2.087	2.090	-0.003	85	2327	0.4000	1.09	
13 Chloromethane	50	2.338	2.347	-0.009	93	3229	0.4000	0.4796	a
14 Vinyl chloride	62	2.473	2.476	-0.003	95	3405	0.4000	0.4687	
15 Butadiene	54	2.486	2.492	-0.006	93	3353	0.4000	0.5189	
18 Bromomethane	94	2.859	2.878	-0.019	51	2971	0.4000	0.4009	Ma
19 Chloroethane	64	2.952	2.955	-0.003	84	2876	0.4000	0.4943	
21 Trichlorofluoromethane	101	3.180	3.183	-0.003	69	4580	0.4000	1.03	
20 Dichlorofluoromethane	67	3.187	3.187	0.000	92	6501	0.4000	0.5470	
26 Ethyl ether	59	3.473	3.479	-0.006	91	3031	0.4000	0.5257	
28 Acrolein	56	3.682	3.678	0.004	96	2821	2.00	2.53	
29 112TCTFE	101	3.695	3.704	-0.009	72	1306	0.4000	0.2401	Ma
30 1,1-Dichloroethene	96	3.723	3.730	-0.007	93	1957	0.4000	0.3422	
31 Acetone	43	3.823	3.826	-0.003	97	6372	2.00	2.46	
33 Iodomethane	142	3.913	3.913	0.000	95	5180	0.4000	0.3822	
35 Carbon disulfide	76	3.961	3.965	-0.004	98	7533	0.4000	0.3995	a
37 3-Chloro-1-propene	41	4.074	4.080	-0.006	84	3336	0.4000	0.3970	a
38 Methyl acetate	43	4.093	4.100	-0.007	94	5941	0.8000	0.9149	
39 Methylene Chloride	84	4.215	4.222	-0.007	87	13215	0.4000	-0.2484	
40 2-Methyl-2-propanol	59	4.318	4.318	0.000	96	4543	4.00	4.29	
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	96	7683	0.4000	0.4002	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	92	3074	0.4000	0.4111	a
44 Acrylonitrile	53	4.479	4.479	0.000	97	14663	4.00	4.30	
47 Hexane	57	4.595	4.598	-0.003	86	1935	0.4000	0.2865	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.830	4.836	-0.006	90	4492	0.4000	0.4009	
49 Vinyl acetate	43	4.839	4.836	0.003	97	9836	0.8000	0.7494	
56 2,2-Dichloropropane	77	5.322	5.331	-0.009	72	2799	0.4000	0.3743	a
57 2-Butanone (MEK)	43	5.360	5.357	0.003	95	7934	2.00	1.95	
58 cis-1,2-Dichloroethene	96	5.357	5.357	0.000	65	3162	0.4000	0.3862	
60 Chlorobromomethane	128	5.585	5.585	0.000	82	1469	0.4000	0.3090	
61 Tetrahydrofuran	42	5.608	5.601	0.007	84	1690	0.8000	0.6254	
62 Chloroform	83	5.633	5.630	0.003	89	6337	0.4000	0.4698	
64 1,1,1-Trichloroethane	97	5.772	5.772	0.000	89	3104	0.4000	0.2909	
65 Cyclohexane	56	5.785	5.791	-0.006	44	2476	0.4000	0.3230	a
66 Carbon tetrachloride	117	5.900	5.907	-0.007	88	2287	0.4000	0.2425	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	81	2857	0.4000	0.3487	
69 Isobutyl alcohol	43	6.013	6.010	0.003	79	4204	10.0	10.0	
70 Benzene	78	6.116	6.113	0.004	91	10102	0.4000	0.3916	
72 1,2-Dichloroethane	62	6.164	6.167	-0.003	88	4043	0.4000	0.4144	
73 n-Heptane	43	6.212	6.209	0.003	85	2307	0.4000	0.3540	
75 Trichloroethene	95	6.672	6.678	-0.006	89	2851	0.4000	0.3922	
76 Methylcyclohexane	83	6.804	6.807	-0.003	76	2812	0.4000	0.2925	
77 1,2-Dichloropropane	63	6.926	6.920	0.006	78	2063	0.4000	0.3613	a
81 1,4-Dioxane	88		7.029				ND	ND	U
82 Dibromomethane	93	7.064	7.064	0.000	91	1930	0.4000	0.3714	
83 Dichlorobromomethane	83	7.183	7.180	0.003	89	3329	0.4000	0.3678	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	77	1386	0.4000	0.3256	a
85 cis-1,3-Dichloropropene	75	7.575	7.579	-0.004	90	3542	0.4000	0.3562	
87 4-Methyl-2-pentanone (MIBK)	43	7.682	7.685	-0.003	96	15427	2.00	1.98	a
88 Toluene	92	7.871	7.875	-0.004	98	6570	0.4000	0.3923	
90 Ethyl methacrylate	69	8.109	8.109	0.000	76	2735	0.4000	0.3510	a
91 trans-1,3-Dichloropropene	75	8.122	8.119	0.003	88	3040	0.4000	0.3335	
93 1,1,2-Trichloroethane	83	8.321	8.321	0.000	84	1787	0.4000	0.3482	
94 Tetrachloroethene	166	8.402	8.411	-0.009	85	2995	0.4000	0.3587	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	92	4575	0.4000	0.4363	a
96 2-Hexanone	43	8.505	8.505	0.000	95	10532	2.00	1.98	
98 Chlorodibromomethane	129	8.739	8.743	-0.004	80	2537	0.4000	0.3396	a
101 Ethylene Dibromide	107	8.874	8.875	0.000	94	3159	0.4000	0.4201	
103 Chlorobenzene	112	9.334	9.331	0.003	90	7842	0.4000	0.3862	a
104 Ethylbenzene	91	9.392	9.392	0.000	96	11832	0.4000	0.3857	
105 1,1,1,2-Tetrachloroethane	131	9.405	9.411	-0.006	84	2441	0.4000	0.3225	
106 m-Xylene & p-Xylene	106	9.511	9.508	0.003	95	4738	0.4000	0.3760	
107 o-Xylene	106	9.945	9.945	0.000	93	4914	0.4000	0.3887	
109 Styrene	104	9.974	9.971	0.003	90	7365	0.4000	0.3608	
110 Bromoform	173	10.247	10.251	-0.004	84	2034	0.4000	0.3582	
111 Isopropylbenzene	105	10.305	10.302	0.003	93	12536	0.4000	0.3909	
112 1,1,2,2-Tetrachloroethane	83	10.678	10.682	-0.004	88	4654	0.4000	0.4617	
113 Bromobenzene	156	10.688	10.688	0.000	78	4185	0.4000	0.4247	
114 N-Propylbenzene	91	10.717	10.717	0.000	97	13390	0.4000	0.3739	
115 trans-1,4-Dichloro-2-butene	53	10.723	10.727	-0.004	62	918	0.4000	0.3590	
116 1,2,3-Trichloropropane	110	10.739	10.736	0.003	81	1769	0.4000	0.4746	
117 2-Chlorotoluene	126	10.845	10.846	-0.001	95	3073	0.4000	0.3628	a
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	92	11043	0.4000	0.3992	
119 4-Chlorotoluene	91	10.948	10.948	0.000	93	9213	0.4000	0.4097	
120 tert-Butylbenzene	134	11.193	11.190	0.003	89	1998	0.4000	0.3053	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	93	10521	0.4000	0.3712	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.392	11.389	0.003	92	12700	0.4000	0.3764	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	94	11454	0.4000	0.3661	
124 1,3-Dichlorobenzene	146	11.559	11.556	0.003	94	7598	0.4000	0.4051	
126 1,4-Dichlorobenzene	146	11.636	11.636	0.000	94	8441	0.4000	0.4355	a
127 n-Butylbenzene	91	11.881	11.881	0.000	96	10552	0.4000	0.4030	
128 1,2-Dichlorobenzene	146	11.981	11.977	0.003	96	8534	0.4000	0.4525	
129 1,2-Dibromo-3-Chloropropane	75	12.649	12.656	-0.007	79	684	0.4000	0.3184	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	92	7164	0.4000	0.4996	
131 Hexachlorobutadiene	225	13.405	13.402	0.003	86	2723	0.4000	0.4442	
132 Naphthalene	128	13.559	13.559	0.000	96	20232	0.4000	0.5071	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	95	7797	0.4000	0.5664	
S 142 Total BTEX	1				0			1.93	
S 144 1,3-Dichloropropene, Total	1				0			0.6897	
S 141 1,2-Dichloroethene, Total	1				0			0.7973	
S 143 Xylenes, Total	1				0			0.7647	

QC Flag Legend

Processing Flags
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

8260 CORP mix_00218	Amount Added:	0.40	Units: uL	
GAS CORP mix_00484	Amount Added:	0.40	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:21 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D

Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L

Lims ID: IC 0.4

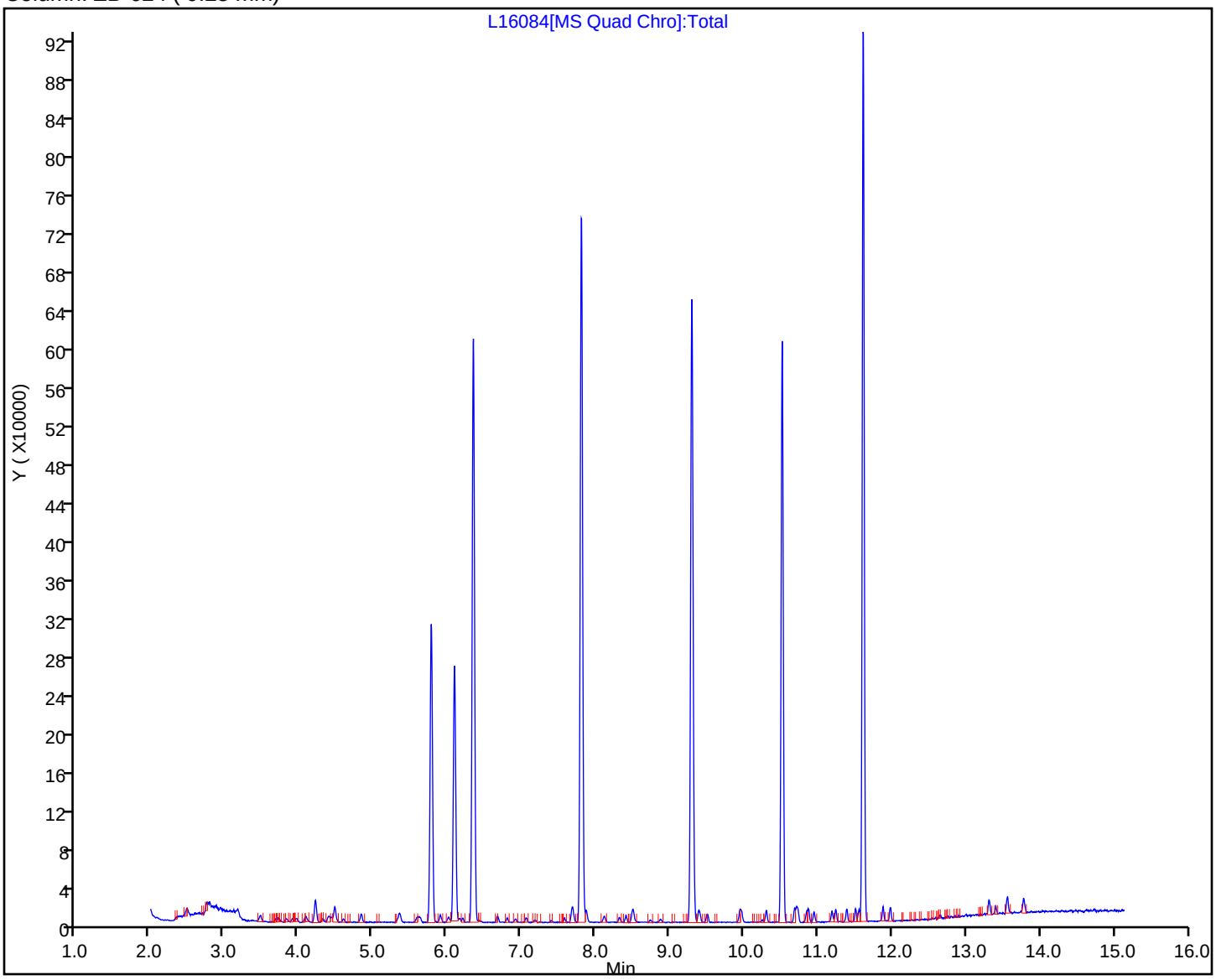
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

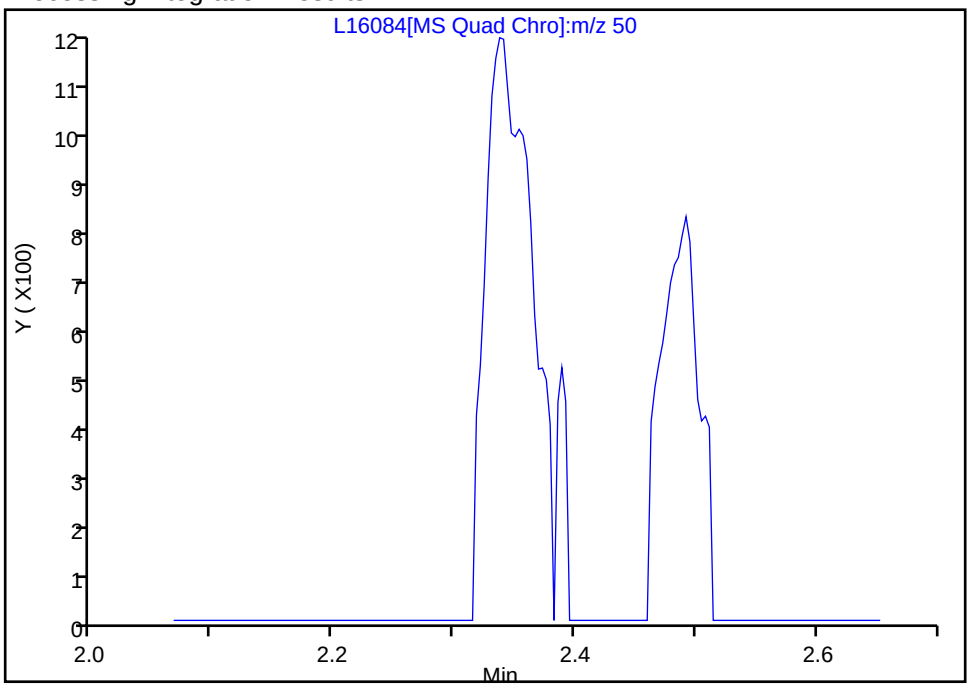
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

13 Chloromethane, CAS: 74-87-3

Signal: 1

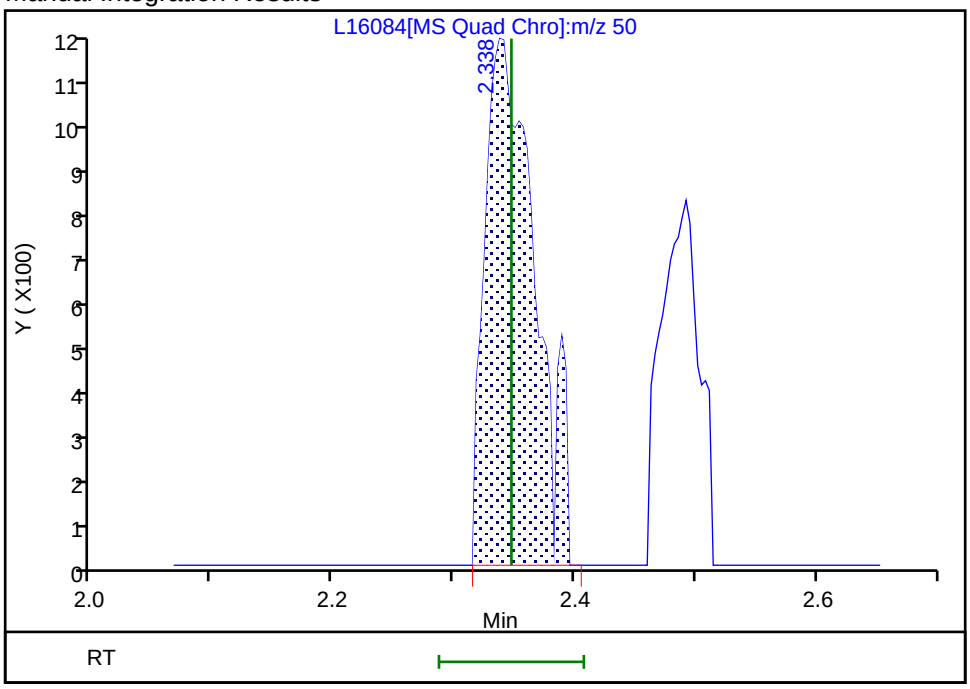
Not Detected
Expected RT: 2.35

Processing Integration Results



Manual Integration Results

RT: 2.34
Area: 3229
Amount: 0.479644
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:36:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

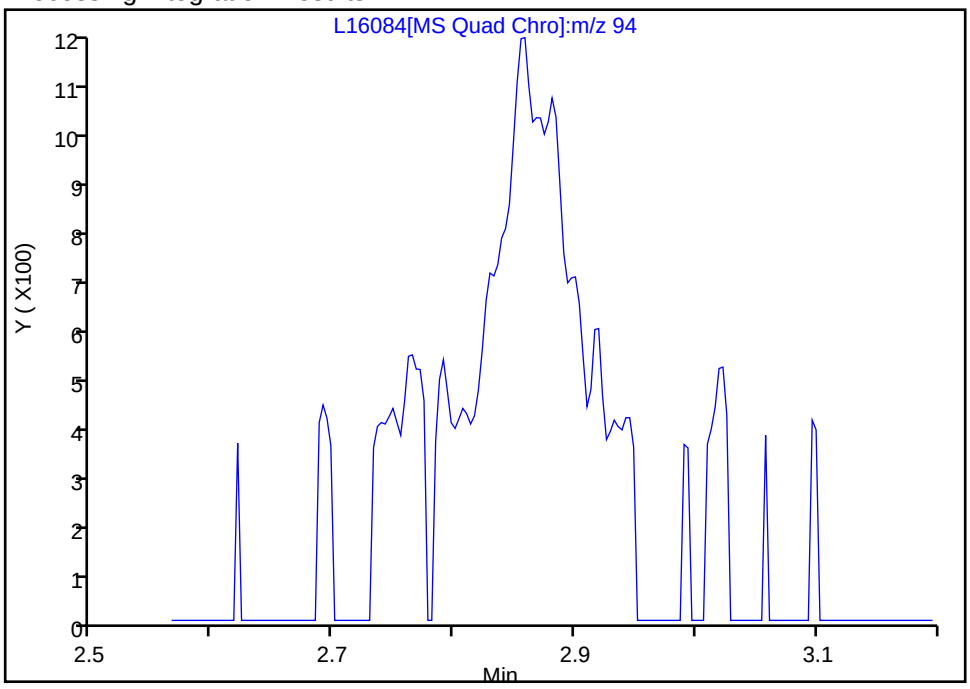
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

18 Bromomethane, CAS: 74-83-9

Signal: 1

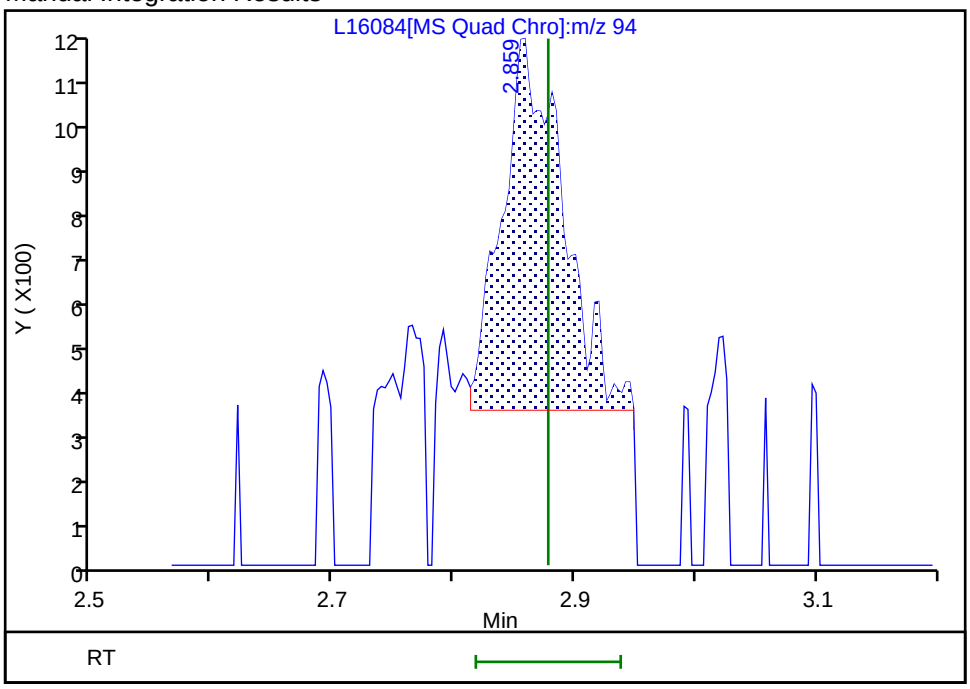
Not Detected
Expected RT: 2.88

Processing Integration Results



Manual Integration Results

RT: 2.86
Area: 2971
Amount: 0.400915
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:00:11
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

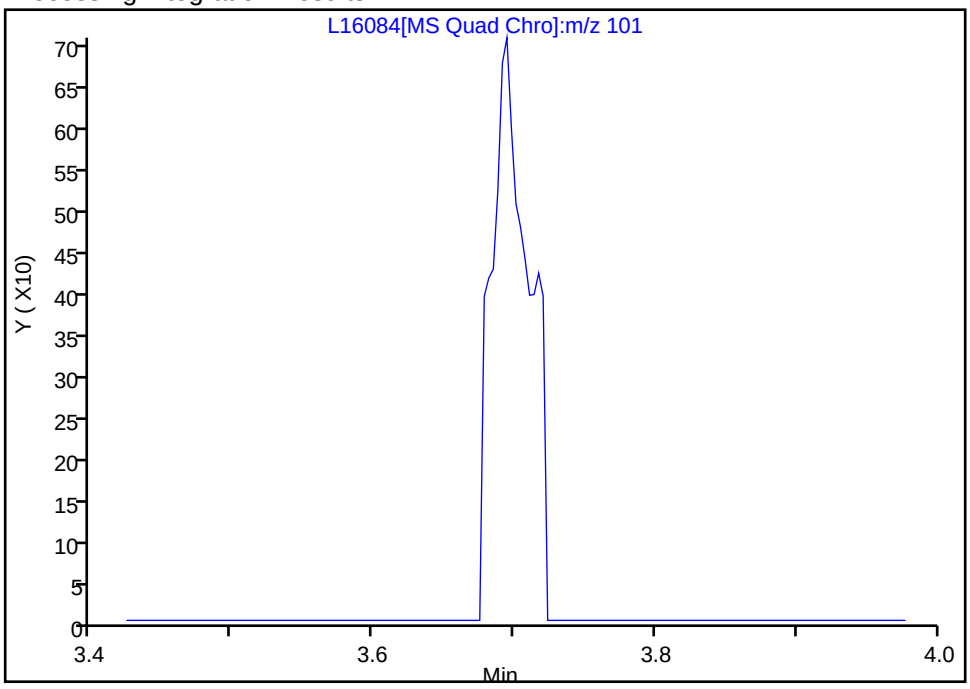
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

29 112TCTFE, CAS: 76-13-1

Signal: 1

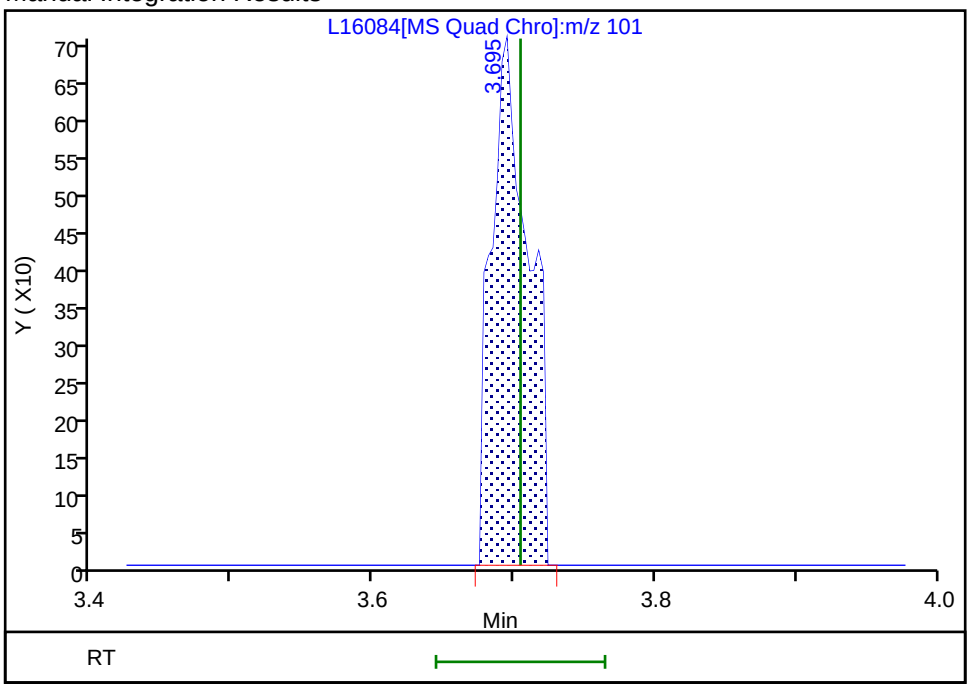
Not Detected
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.69
Area: 1306
Amount: 0.240055
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:00:30
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

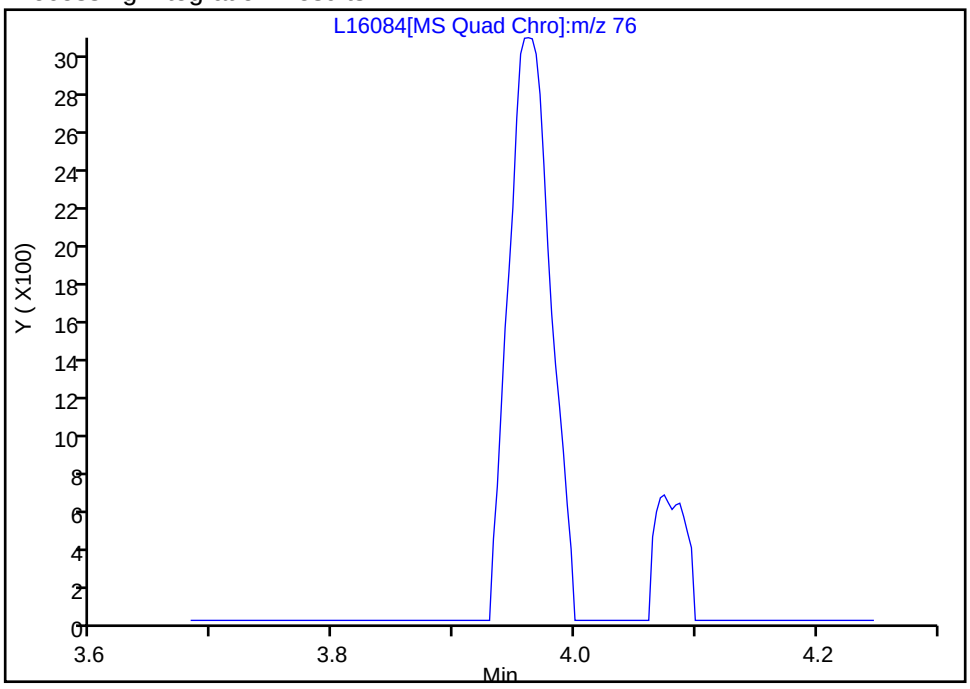
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

35 Carbon disulfide, CAS: 75-15-0

Signal: 1

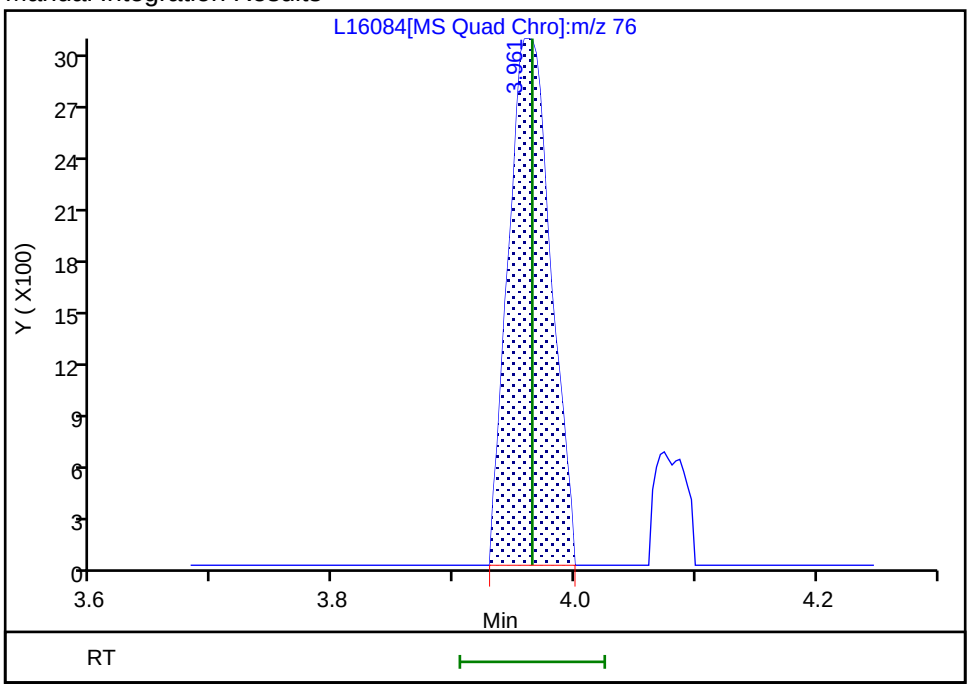
Not Detected
Expected RT: 3.96

Processing Integration Results



Manual Integration Results

RT: 3.96
Area: 7533
Amount: 0.399498
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:36:45
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

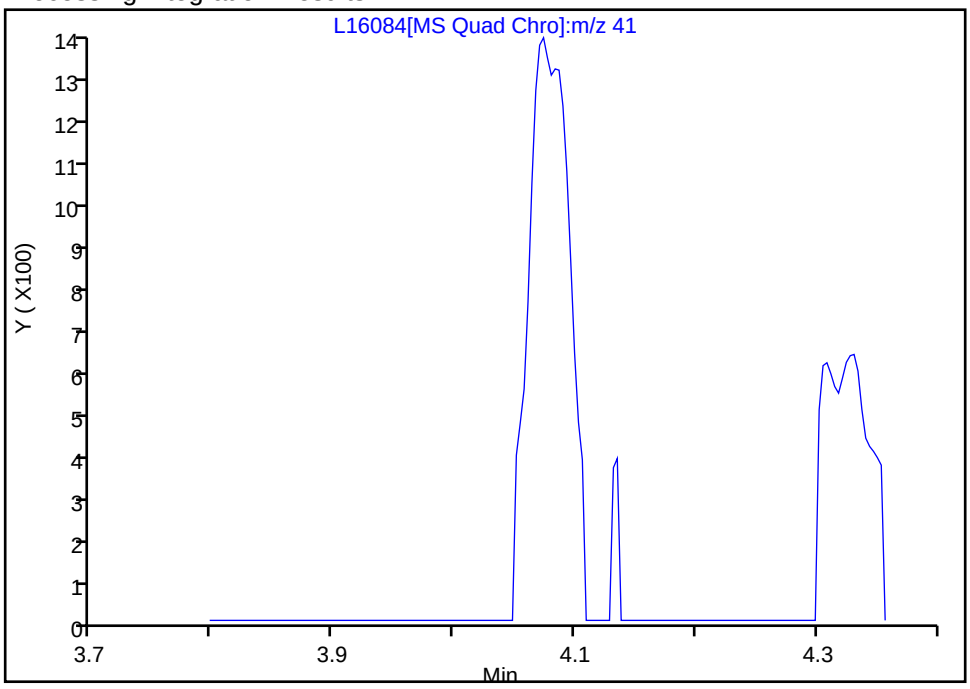
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

37 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

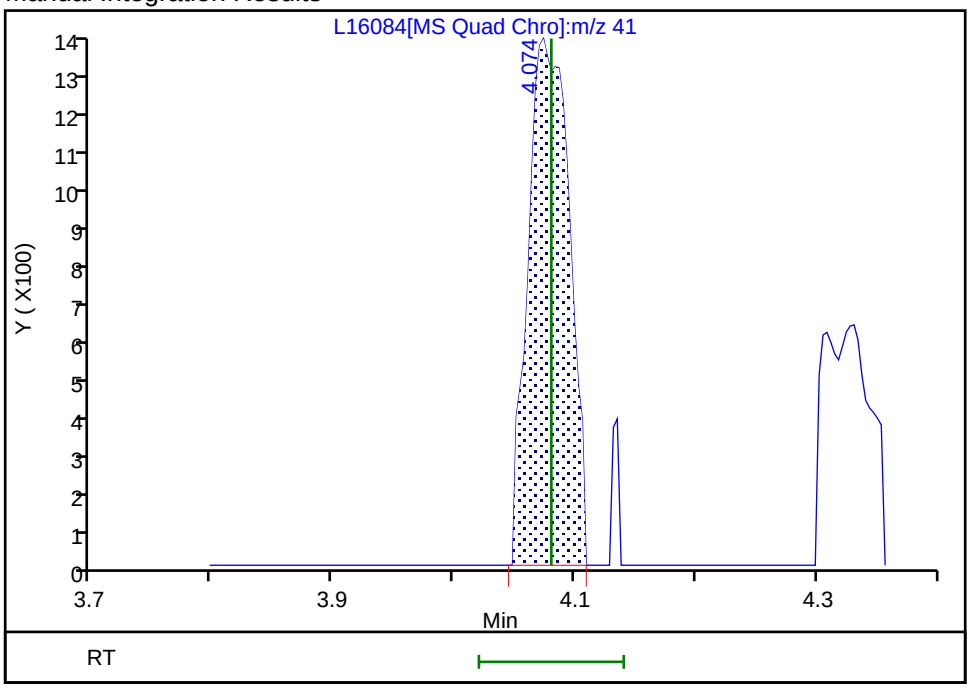
Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.07
Area: 3336
Amount: 0.396987
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:36:48
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

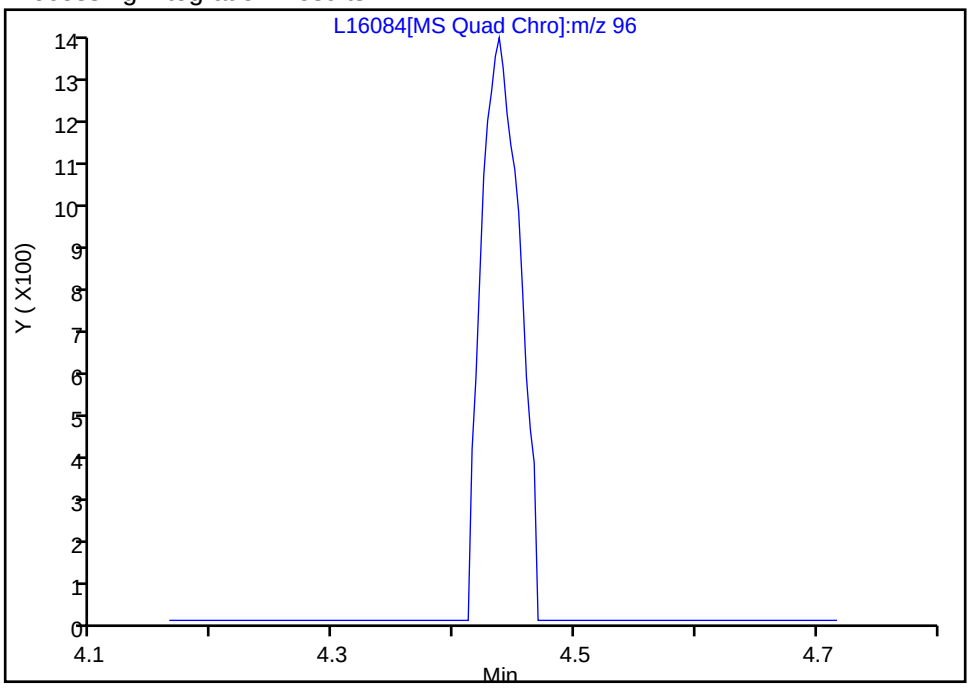
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

42 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

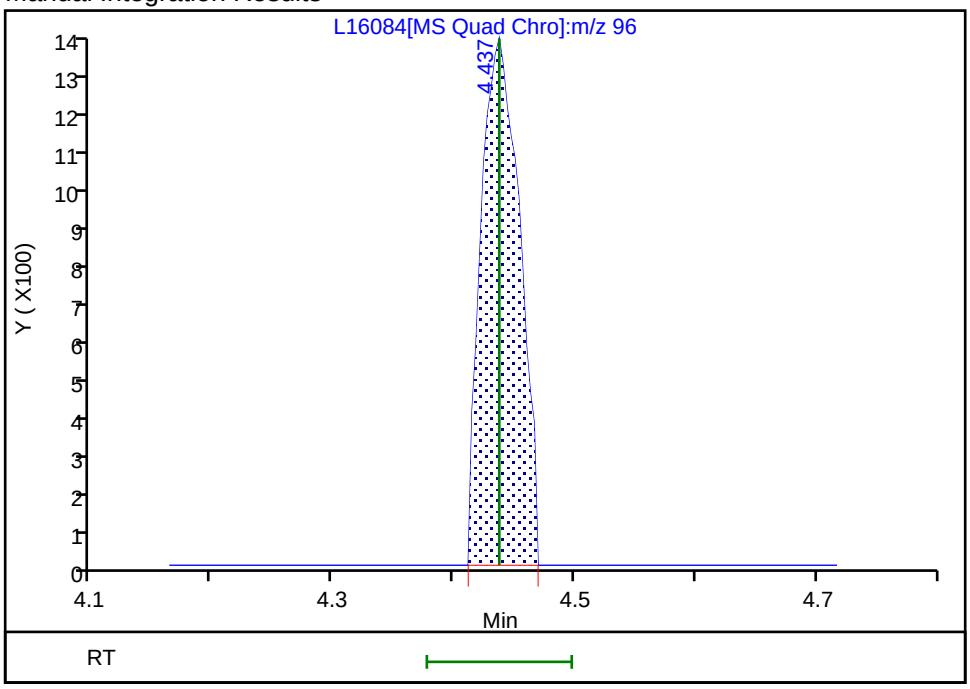
Not Detected
Expected RT: 4.44

Processing Integration Results



Manual Integration Results

RT: 4.44
Area: 3074
Amount: 0.411082
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:36:54
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

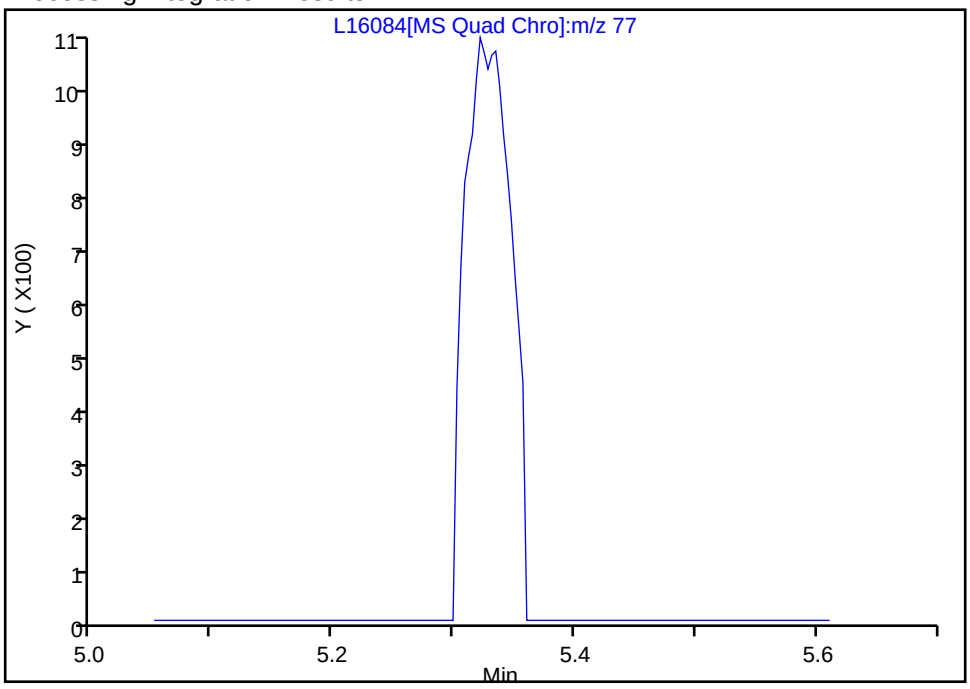
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D				
Injection Date:	08-Dec-2021 16:14:22	Instrument ID:	HP5977L		
Lims ID:	IC 0.4				
Client ID:					
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

56 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

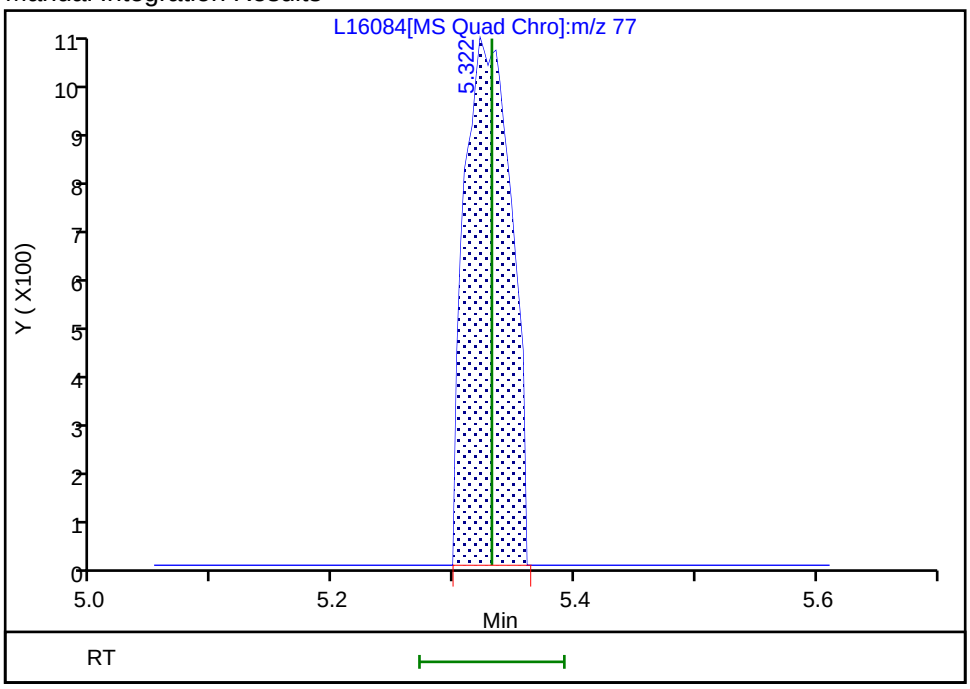
Not Detected
Expected RT: 5.33

Processing Integration Results



Manual Integration Results

RT: 5.32
Area: 2799
Amount: 0.374324
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:37:00
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

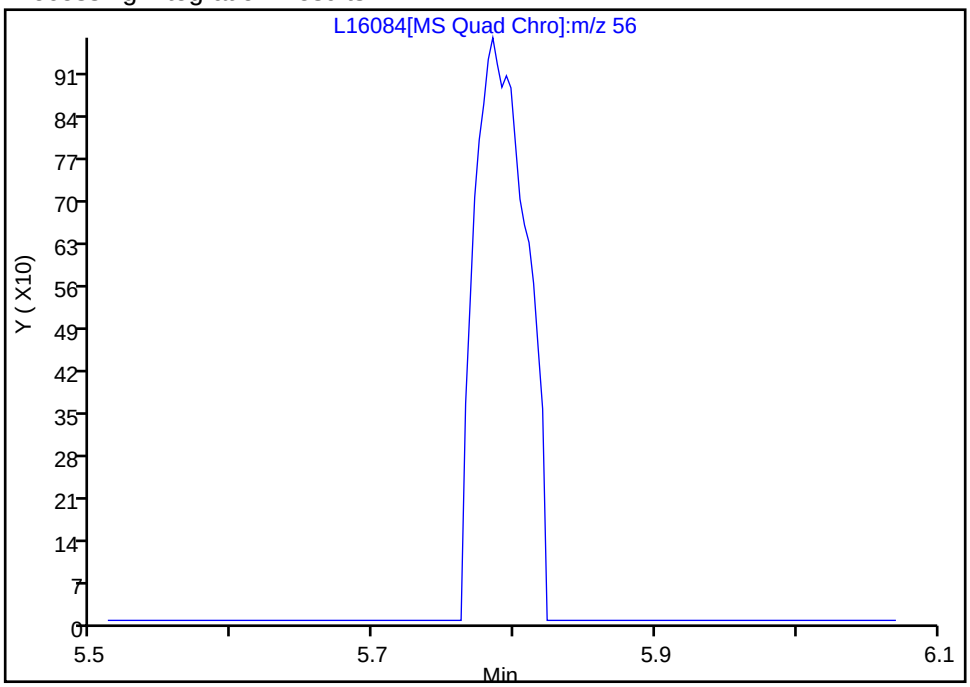
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D				
Injection Date:	08-Dec-2021 16:14:22	Instrument ID:	HP5977L		
Lims ID:	IC 0.4				
Client ID:					
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

65 Cyclohexane, CAS: 110-82-7

Signal: 1

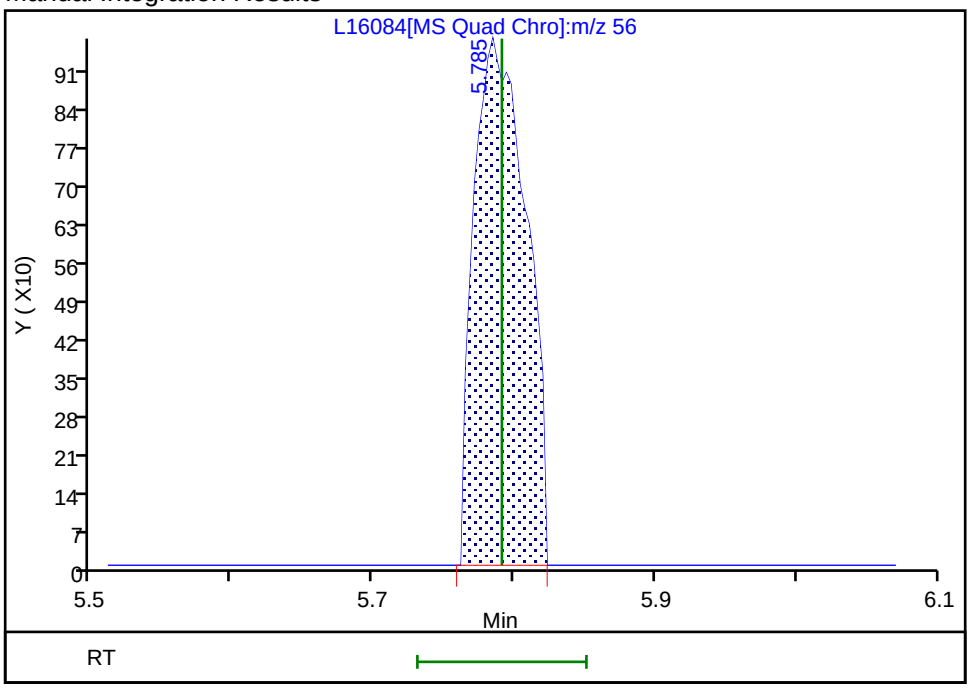
Not Detected
Expected RT: 5.79

Processing Integration Results



Manual Integration Results

RT: 5.78
Area: 2476
Amount: 0.323004
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:37:07
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

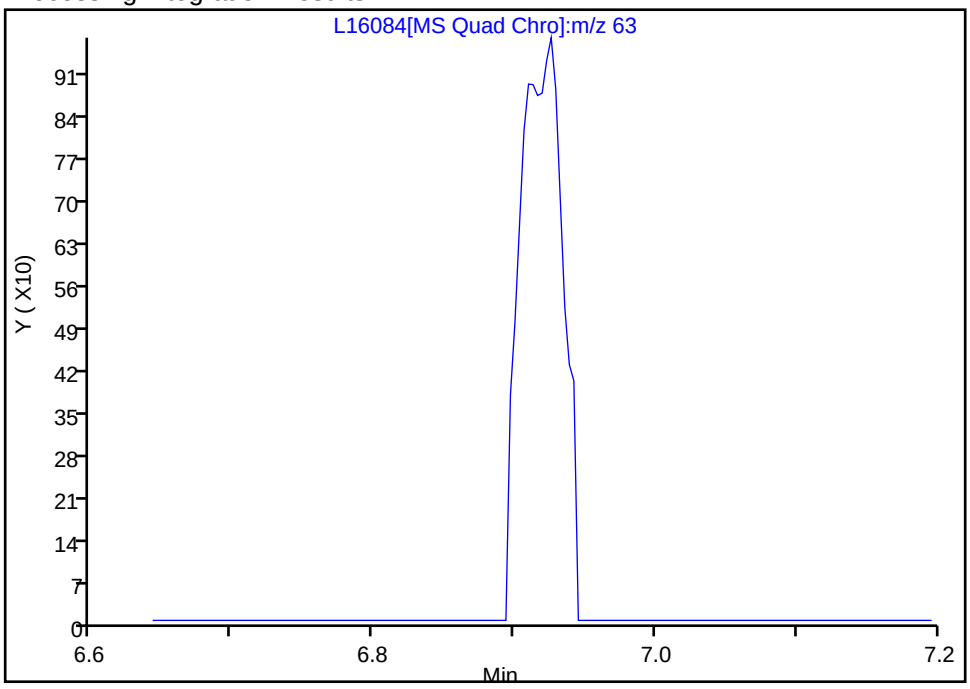
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

77 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

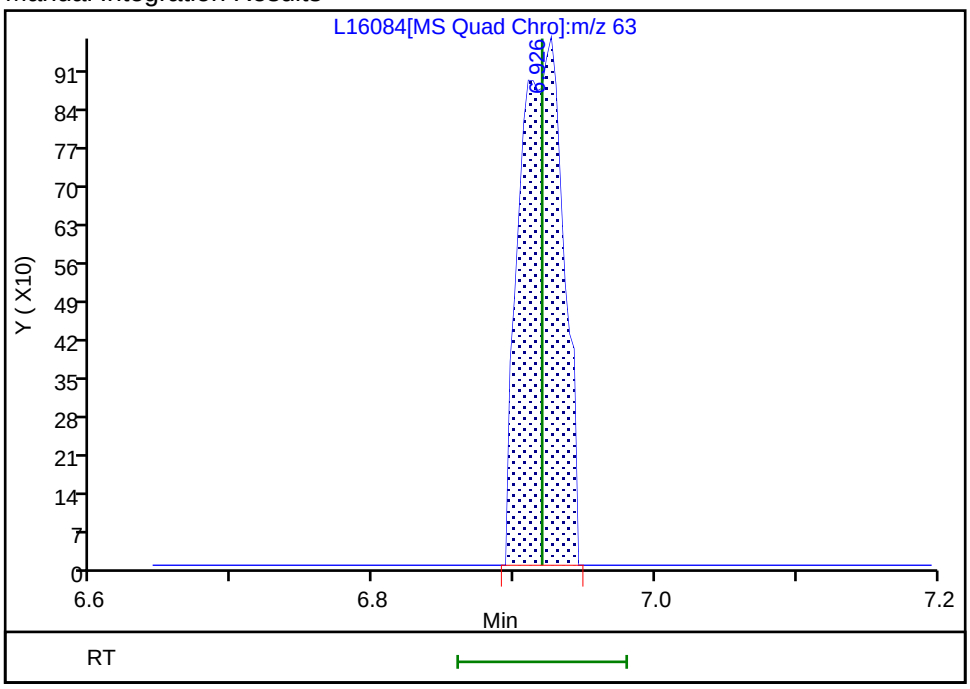
Not Detected
Expected RT: 6.92

Processing Integration Results



Manual Integration Results

RT: 6.93
Area: 2063
Amount: 0.361265
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:37:18
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

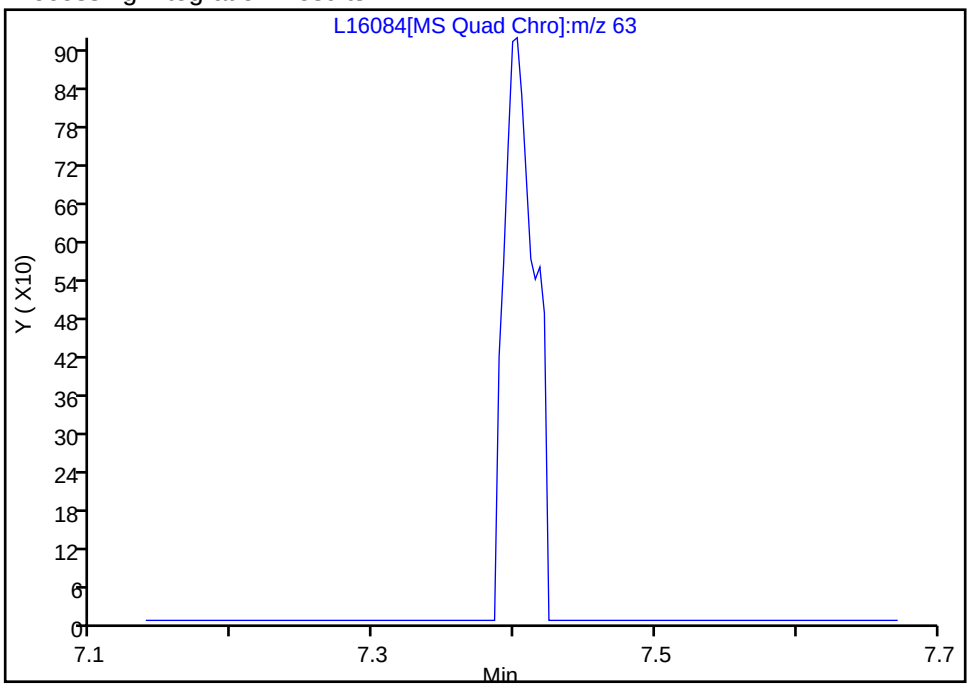
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

84 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

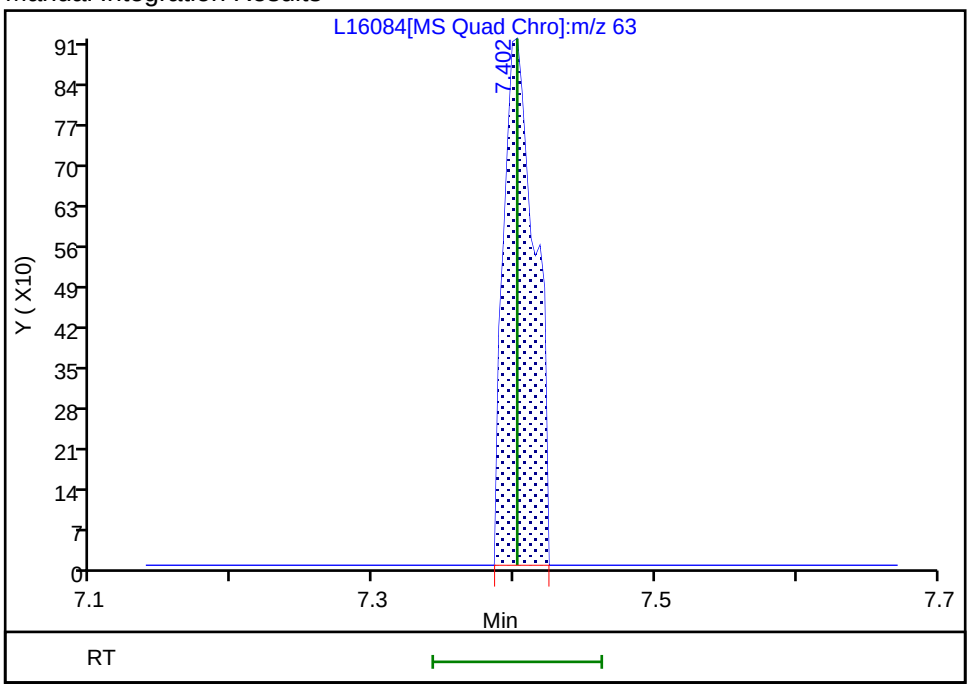
Not Detected
Expected RT: 7.40

Processing Integration Results



Manual Integration Results

RT: 7.40
Area: 1386
Amount: 0.325586
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:37:48
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

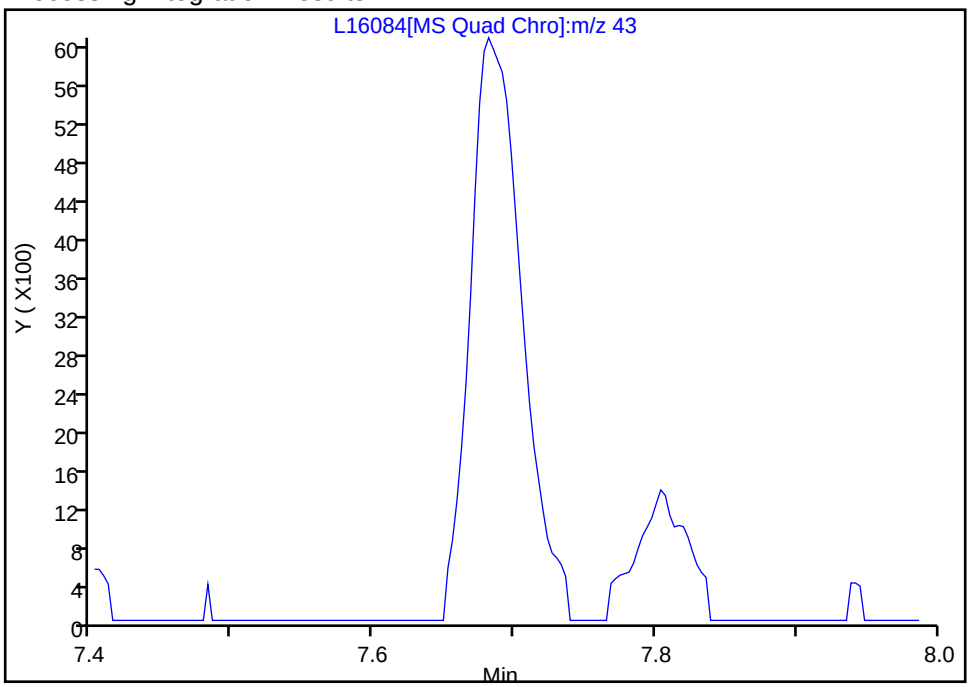
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

87 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

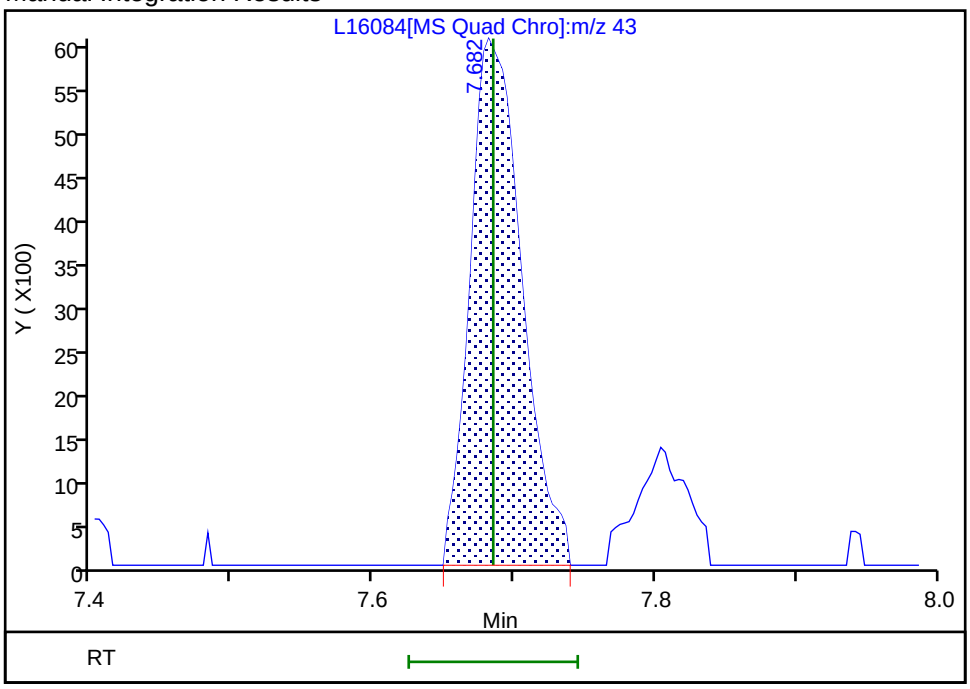
Not Detected
Expected RT: 7.68

Processing Integration Results



Manual Integration Results

RT: 7.68
Area: 15427
Amount: 1.981148
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:37:52
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

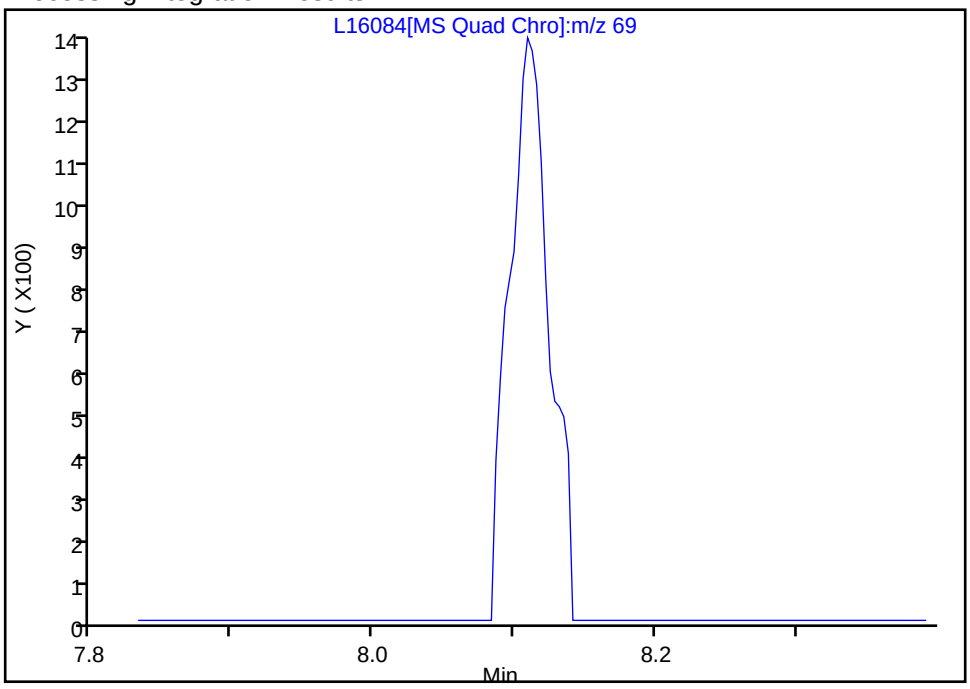
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

90 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

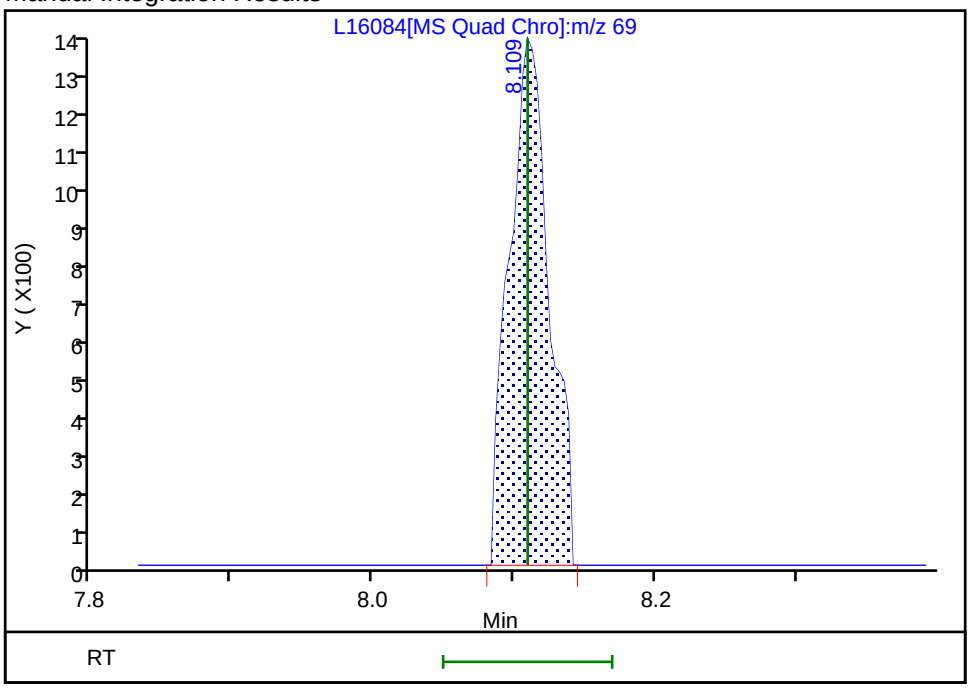
Not Detected
Expected RT: 8.11

Processing Integration Results



Manual Integration Results

RT: 8.11
Area: 2735
Amount: 0.350990
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:37:57
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

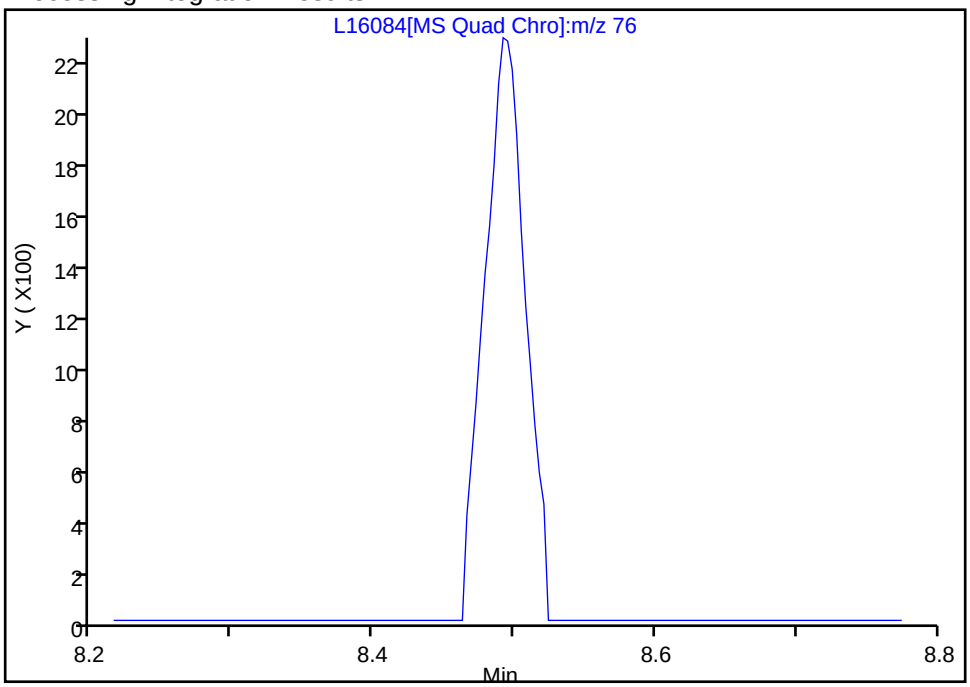
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

95 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

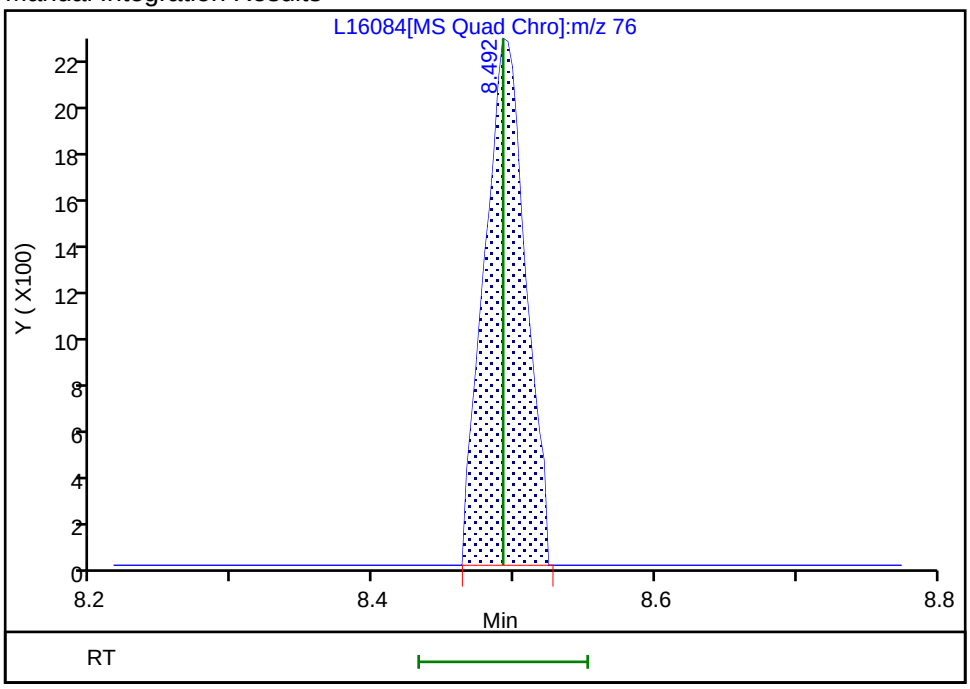
Not Detected
Expected RT: 8.49

Processing Integration Results



Manual Integration Results

RT: 8.49
Area: 4575
Amount: 0.436319
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:38:02
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

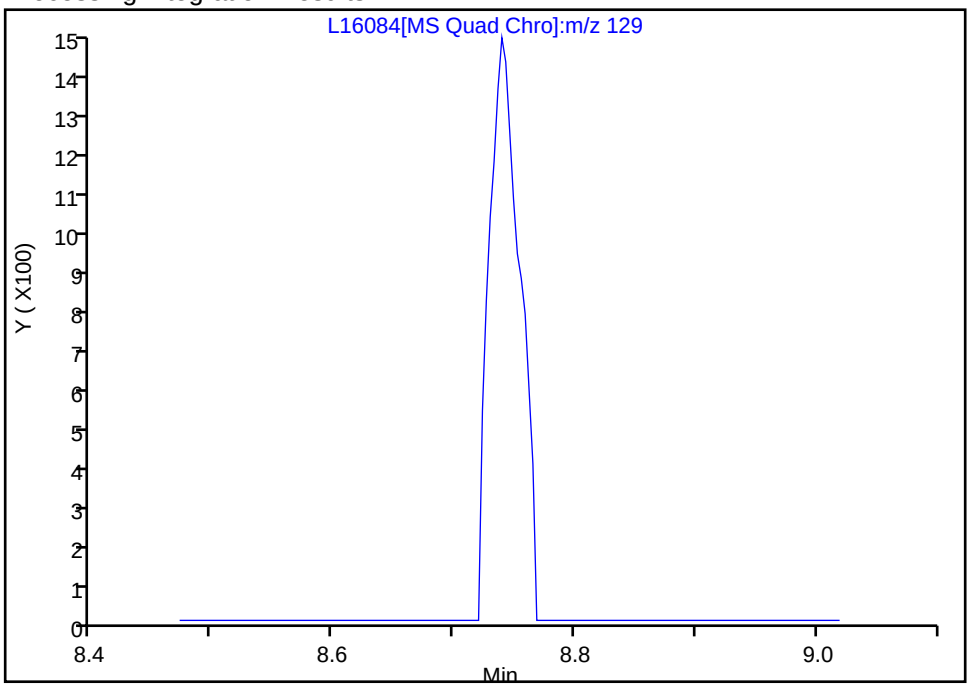
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

98 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

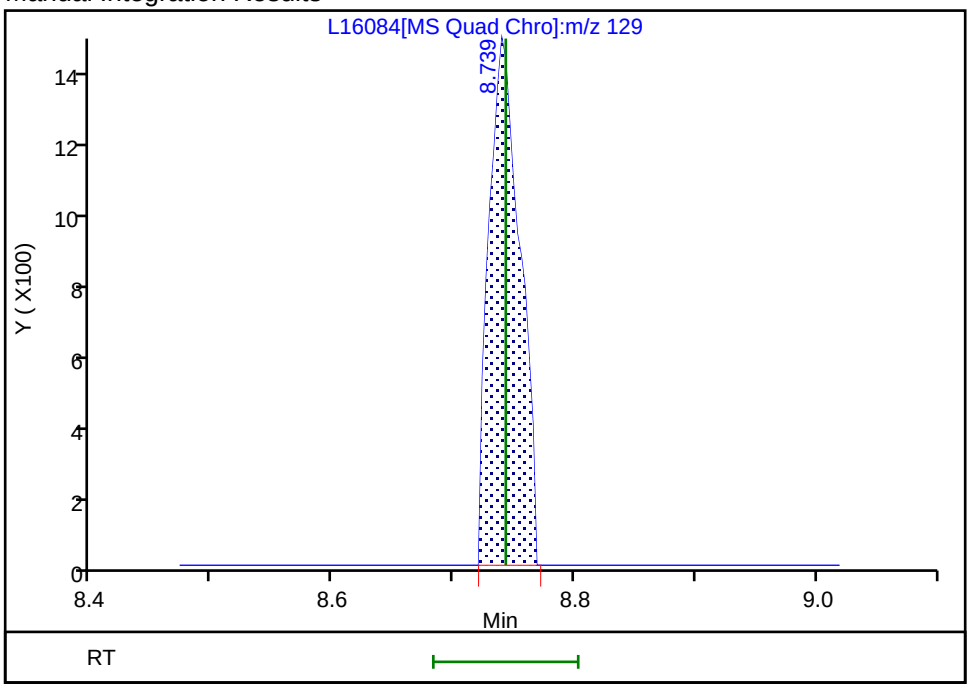
Not Detected
Expected RT: 8.74

Processing Integration Results



Manual Integration Results

RT: 8.74
Area: 2537
Amount: 0.339596
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:38:06
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

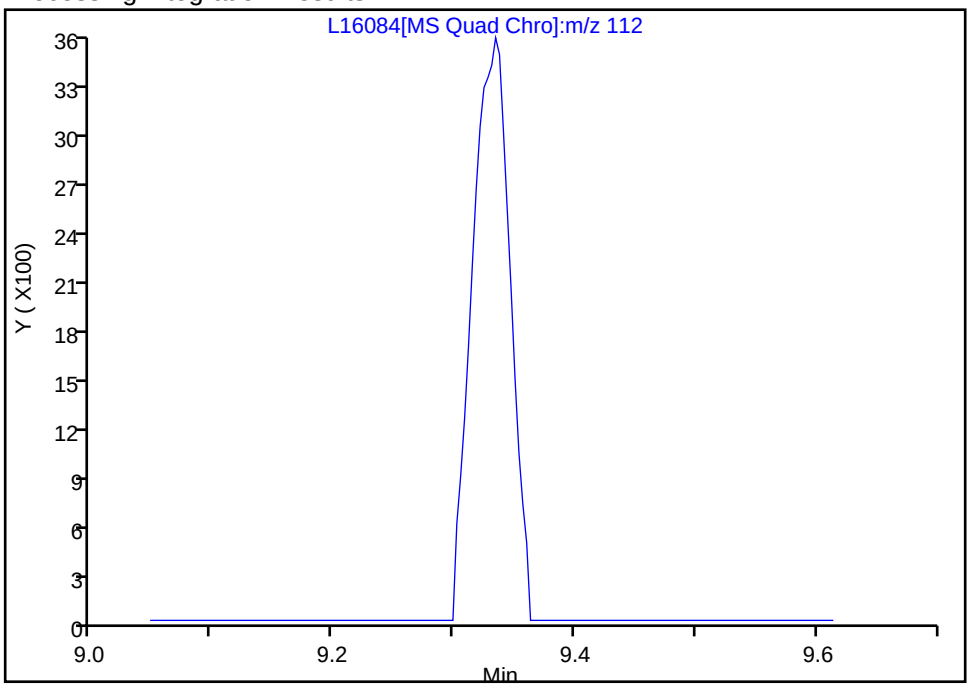
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

103 Chlorobenzene, CAS: 108-90-7

Signal: 1

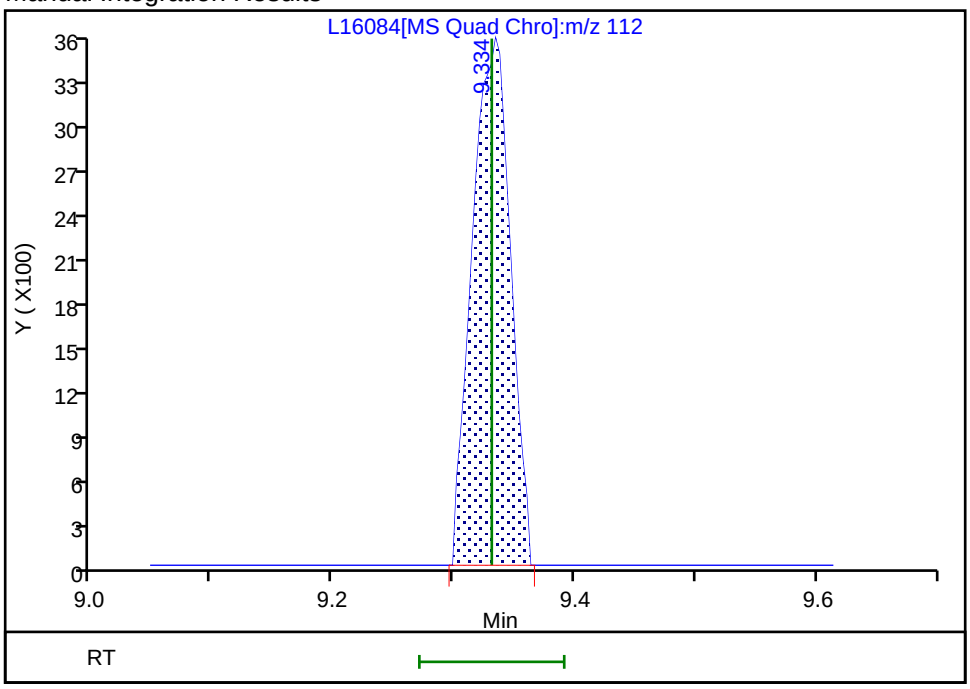
Not Detected
Expected RT: 9.33

Processing Integration Results



Manual Integration Results

RT: 9.33
Area: 7842
Amount: 0.386232
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:38:09
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

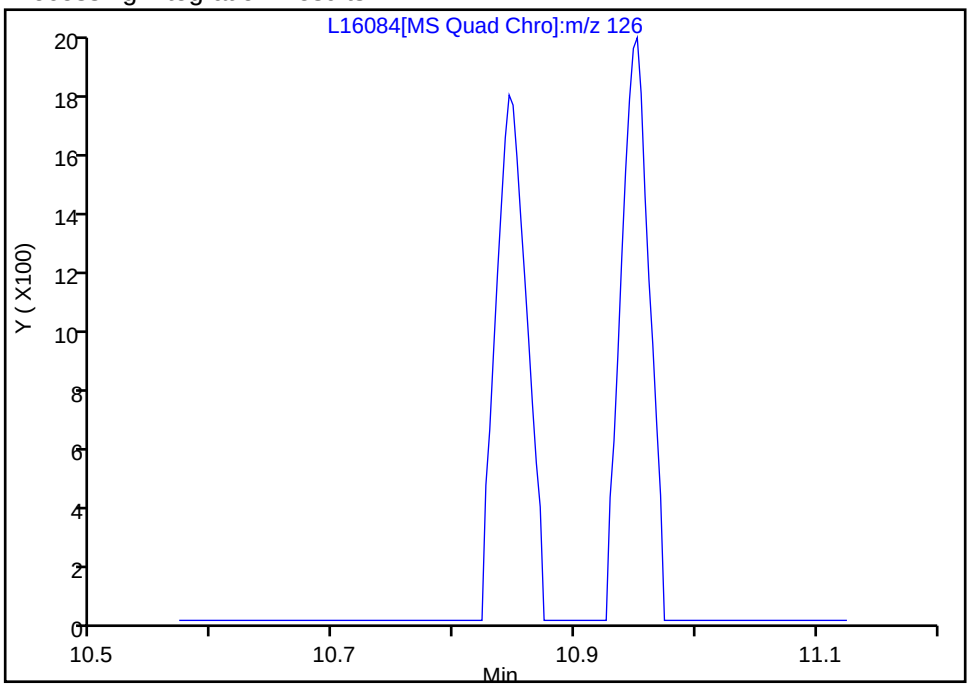
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

117 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

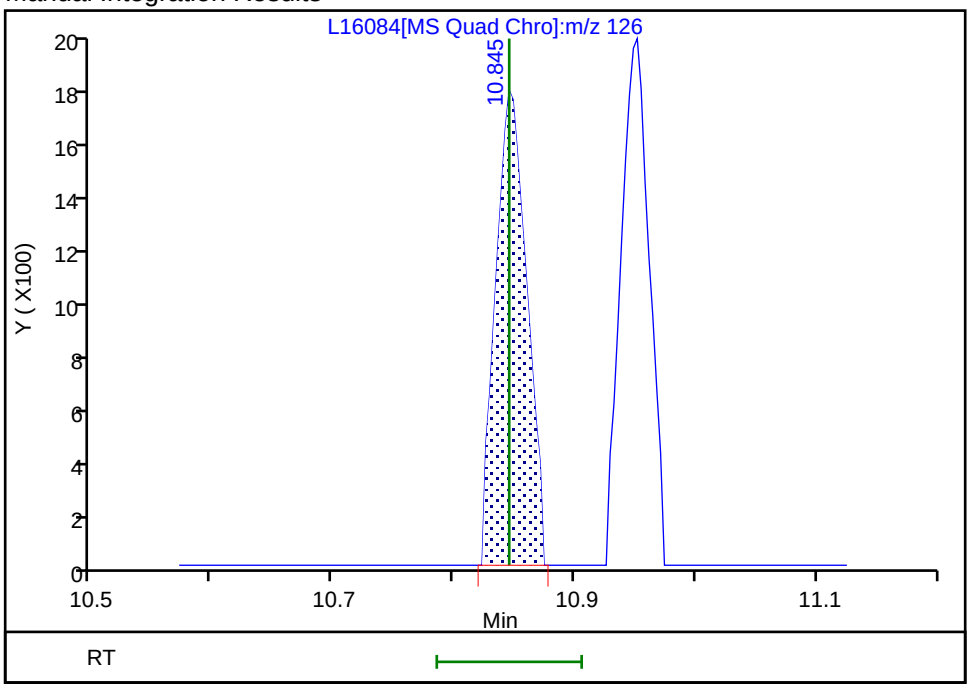
Not Detected
Expected RT: 10.85

Processing Integration Results



Manual Integration Results

RT: 10.85
Area: 3073
Amount: 0.362834
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:38:21
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

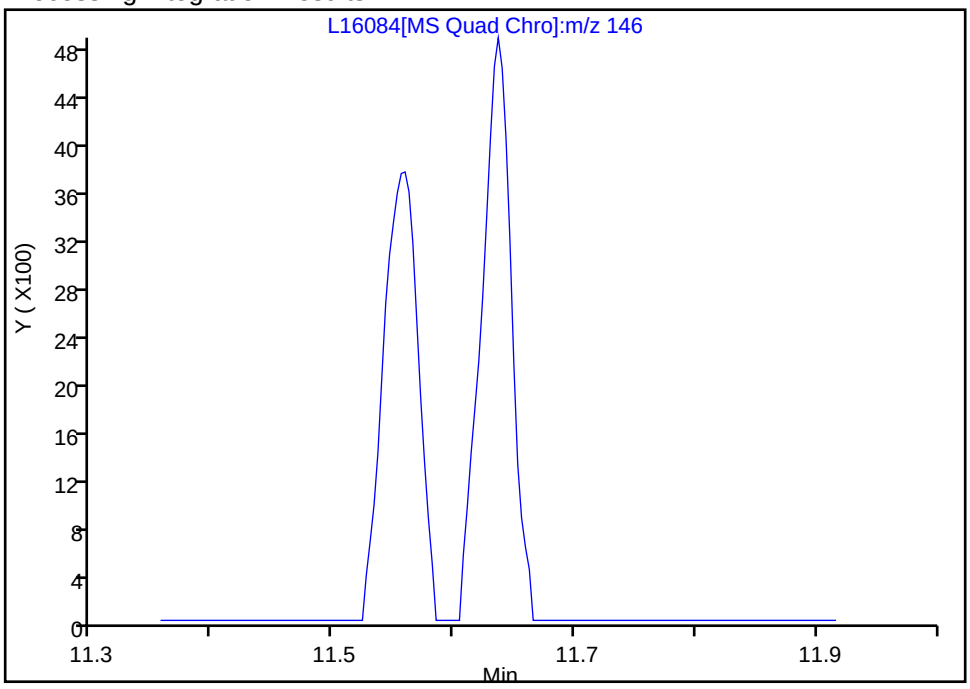
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16084.D
Injection Date: 08-Dec-2021 16:14:22 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

126 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

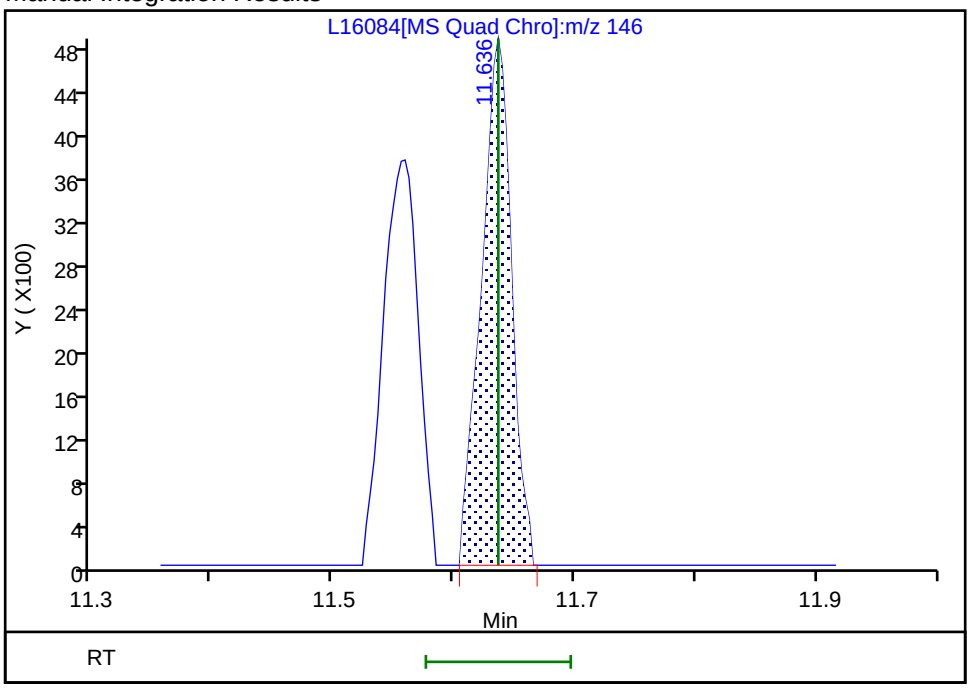
Not Detected
Expected RT: 11.64

Processing Integration Results



Manual Integration Results

RT: 11.64
Area: 8441
Amount: 0.435495
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:38:29
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Dec-2021 16:36:15 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0102927-009
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:27 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 10:40:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	120840	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	560645	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	93	336784	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	94	204953	25.0	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	212627	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	93	687755	25.0	25.4	
$ 7 4-Bromofluorobenzene (Surr)	174	10.521	10.518	0.003	93	255216	25.0	24.7	
10 Dichlorodifluoromethane	85	2.084	2.090	-0.006	94	3842	1.00	1.30	
13 Chloromethane	50	2.347	2.347	0.000	94	7626	1.00	1.11	
14 Vinyl chloride	62	2.473	2.476	-0.003	94	6738	1.00	0.9124	
15 Butadiene	54	2.489	2.492	-0.003	98	5168	1.00	0.7868	
18 Bromomethane	94	2.868	2.878	-0.010	92	6114	1.00	0.8115	M
19 Chloroethane	64	2.955	2.955	0.000	96	6584	1.00	1.11	
21 Trichlorofluoromethane	101	3.180	3.183	-0.003	83	7304	1.00	1.24	M
20 Dichlorofluoromethane	67	3.183	3.187	-0.004	94	12567	1.00	1.04	
26 Ethyl ether	59	3.479	3.479	0.000	85	6730	1.00	1.15	
28 Acrolein	56	3.678	3.678	0.000	97	5731	5.00	5.05	
29 112TCTFE	101	3.707	3.704	0.003	86	4517	1.00	0.8167	a
30 1,1-Dichloroethene	96	3.730	3.730	0.000	93	5659	1.00	0.9734	
31 Acetone	43	3.826	3.826	0.000	100	13283	5.00	5.04	
33 Iodomethane	142	3.910	3.913	-0.003	99	14212	1.00	1.03	
35 Carbon disulfide	76	3.965	3.965	-0.001	99	18010	1.00	0.9395	
37 3-Chloro-1-propene	41	4.080	4.080	0.000	87	9275	1.00	1.09	
38 Methyl acetate	43	4.096	4.100	-0.004	98	14011	2.00	2.12	
39 Methylene Chloride	84	4.222	4.222	0.000	87	22346	1.00	0.9620	
40 2-Methyl-2-propanol	59	4.315	4.318	-0.003	94	9900	10.0	9.19	
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	97	19426	1.00	1.00	
42 trans-1,2-Dichloroethene	96	4.440	4.437	0.003	89	7467	1.00	0.9822	
44 Acrylonitrile	53	4.479	4.479	0.000	96	34377	10.0	9.92	
47 Hexane	57	4.598	4.598	0.000	90	5959	1.00	0.8679	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	68	11890	1.00	1.04	
49 Vinyl acetate	43	4.836	4.836	0.000	97	24546	2.00	1.84	
56 2,2-Dichloropropane	77	5.331	5.331	0.000	88	7107	1.00	0.9349	
57 2-Butanone (MEK)	43	5.360	5.357	0.003	98	20201	5.00	4.89	
58 cis-1,2-Dichloroethene	96	5.354	5.357	-0.003	77	8024	1.00	0.9641	
60 Chlorobromomethane	128	5.591	5.585	0.006	90	5200	1.00	1.08	a
61 Tetrahydrofuran	42	5.601	5.601	0.000	81	5880	2.00	2.14	
62 Chloroform	83	5.630	5.630	0.000	91	13770	1.00	1.00	
64 1,1,1-Trichloroethane	97	5.772	5.772	0.000	97	9665	1.00	0.8909	
65 Cyclohexane	56	5.797	5.791	0.006	88	6726	1.00	0.8631	a
66 Carbon tetrachloride	117	5.900	5.907	-0.007	87	8708	1.00	0.9082	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	91	8103	1.00	0.9729	
69 Isobutyl alcohol	43	6.013	6.010	0.003	94	8856	25.0	20.8	
70 Benzene	78	6.109	6.113	-0.003	94	26875	1.00	1.02	a
72 1,2-Dichloroethane	62	6.164	6.167	-0.003	96	10610	1.00	1.07	
73 n-Heptane	43	6.206	6.209	-0.003	80	5923	1.00	0.8940	
75 Trichloroethene	95	6.675	6.678	-0.003	93	7052	1.00	0.9542	
76 Methylcyclohexane	83	6.810	6.807	0.003	89	8200	1.00	0.8390	
77 1,2-Dichloropropane	63	6.923	6.920	0.003	87	5699	1.00	0.9817	
81 1,4-Dioxane	88	7.035	7.029	0.006	44	1049	20.0	13.0	
82 Dibromomethane	93	7.061	7.064	-0.003	89	5363	1.00	1.02	
83 Dichlorobromomethane	83	7.180	7.180	0.000	97	9389	1.00	1.02	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	91	3692	1.00	0.8531	
85 cis-1,3-Dichloropropene	75	7.575	7.579	-0.004	94	9973	1.00	0.9865	
87 4-Methyl-2-pentanone (MIBK)	43	7.688	7.685	0.003	95	37031	5.00	4.55	
88 Toluene	92	7.878	7.875	0.003	98	18484	1.00	1.06	
90 Ethyl methacrylate	69	8.112	8.109	0.003	76	6656	1.00	0.8176	
91 trans-1,3-Dichloropropene	75	8.122	8.119	0.003	96	9062	1.00	0.9516	
93 1,1,2-Trichloroethane	83	8.325	8.321	0.004	89	5961	1.00	1.11	
94 Tetrachloroethene	166	8.408	8.411	-0.003	95	8536	1.00	0.9784	
95 1,3-Dichloropropane	76	8.489	8.492	-0.004	94	11097	1.00	1.01	
96 2-Hexanone	43	8.508	8.505	0.003	92	24037	5.00	4.32	
98 Chlorodibromomethane	129	8.746	8.743	0.003	88	7223	1.00	0.9254	a
101 Ethylene Dibromide	107	8.871	8.875	-0.003	95	7754	1.00	0.9870	
103 Chlorobenzene	112	9.328	9.331	-0.003	97	22544	1.00	1.06	
104 Ethylbenzene	91	9.392	9.392	0.000	97	32169	1.00	1.00	
105 1,1,1,2-Tetrachloroethane	131	9.415	9.411	0.004	90	7476	1.00	0.9454	
106 m-Xylene & p-Xylene	106	9.508	9.508	0.000	95	13422	1.00	1.02	
107 o-Xylene	106	9.948	9.945	0.003	95	12582	1.00	0.9525	
109 Styrene	104	9.971	9.971	0.000	92	19367	1.00	0.9080	
110 Bromoform	173	10.251	10.251	0.000	91	5195	1.00	0.8756	
111 Isopropylbenzene	105	10.302	10.302	0.000	95	32065	1.00	0.9551	
112 1,1,2,2-Tetrachloroethane	83	10.681	10.682	-0.001	94	10096	1.00	0.9568	
113 Bromobenzene	156	10.688	10.688	0.000	84	10322	1.00	1.00	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	37334	1.00	1.00	
115 trans-1,4-Dichloro-2-butene	53	10.726	10.727	-0.001	71	2398	1.00	0.8958	
116 1,2,3-Trichloropropane	110	10.733	10.736	-0.003	85	4033	1.00	1.03	
117 2-Chlorotoluene	126	10.849	10.846	0.003	97	8571	1.00	0.9667	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	96	28728	1.00	0.99	
119 4-Chlorotoluene	91	10.948	10.948	0.000	96	23584	1.00	1.00	
120 tert-Butylbenzene	134	11.189	11.190	-0.001	90	6752	1.00	0.9855	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	28463	1.00	0.9592	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.392	11.389	0.003	93	32711	1.00	0.9262	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	96	30829	1.00	0.9412	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	97	19760	1.00	1.01	
126 1,4-Dichlorobenzene	146	11.636	11.636	0.000	60	21007	1.00	1.04	
127 n-Butylbenzene	91	11.881	11.881	0.000	96	25749	1.00	0.9394	
128 1,2-Dichlorobenzene	146	11.980	11.977	0.003	97	20579	1.00	1.04	
129 1,2-Dibromo-3-Chloropropane	75	12.659	12.656	0.003	83	2067	1.00	0.9193	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	93	14983	1.00	1.00	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	79	5094	1.00	0.7938	
132 Naphthalene	128	13.559	13.559	0.000	97	40677	1.00	0.9739	
133 1,2,3-Trichlorobenzene	180	13.775	13.778	-0.003	93	14431	1.00	1.00	
S 142 Total BTEX	1				0			5.06	
S 144 1,3-Dichloropropene, Total	1				0			1.94	
S 141 1,2-Dichloroethene, Total	1				0			1.95	
S 143 Xylenes, Total	1				0			1.97	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00218	Amount Added:	1.00	Units: uL	
GAS CORP mix_00484	Amount Added:	1.00	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:27 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D

Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L

Lims ID: IC

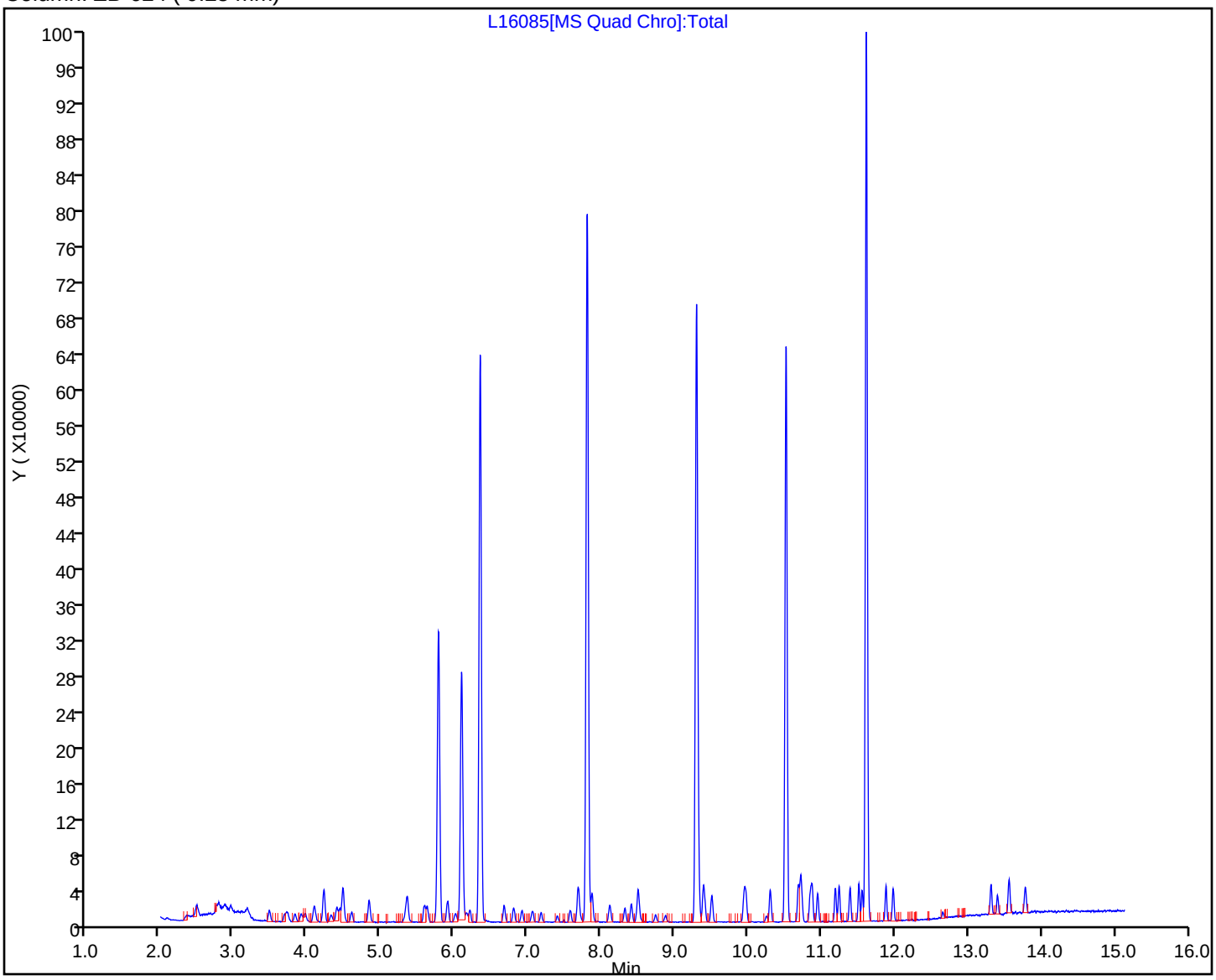
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

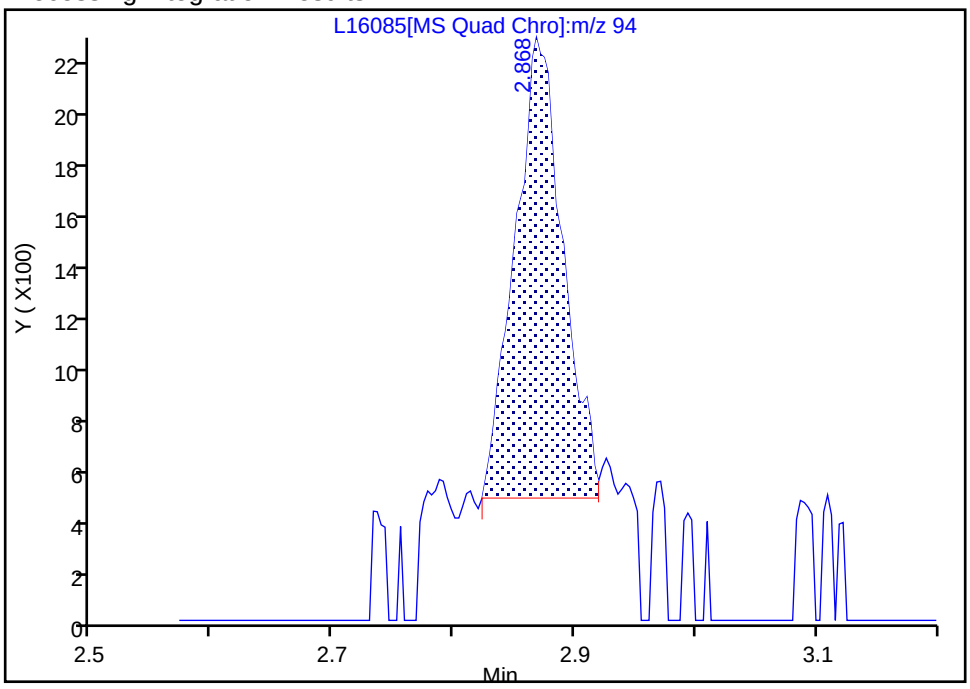
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D				
Injection Date:	08-Dec-2021 16:36:15	Instrument ID:	HP5977L		
Lims ID:	IC				
Client ID:					
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

18 Bromomethane, CAS: 74-83-9

Signal: 1

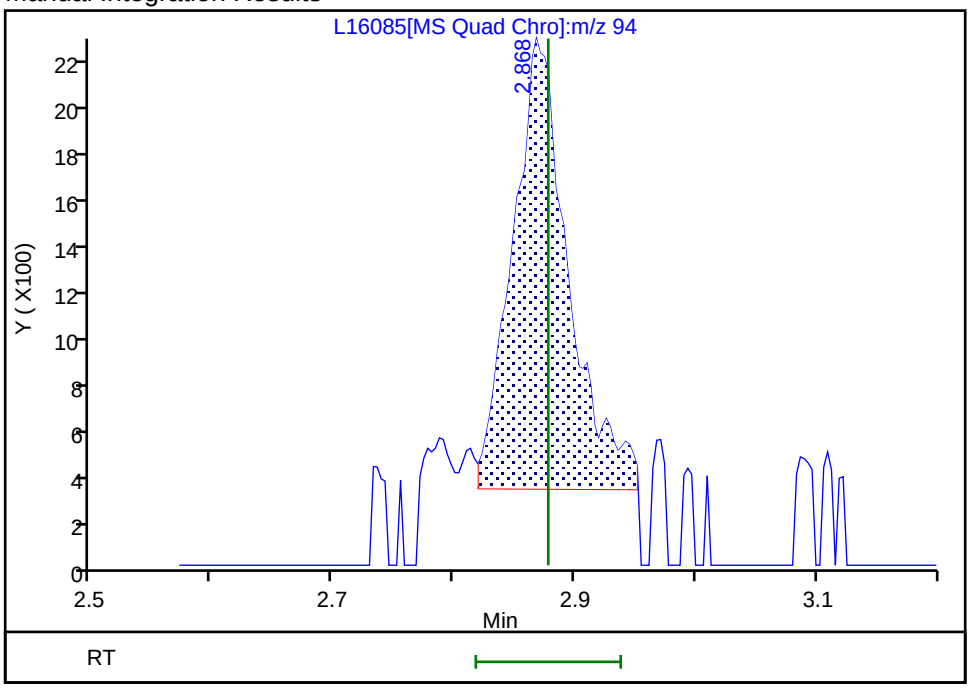
Processing Integration Results

RT: 2.87
Area: 4835
Amount: 0.909792
Amount Units: ug/L



Manual Integration Results

RT: 2.87
Area: 6114
Amount: 0.811548
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:01:55

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

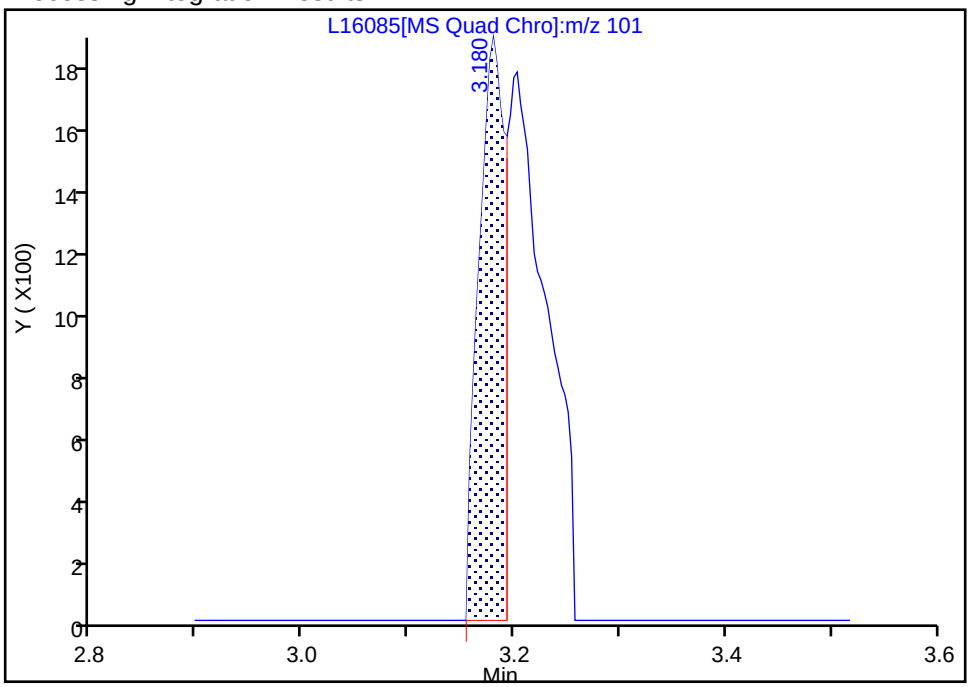
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

21 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

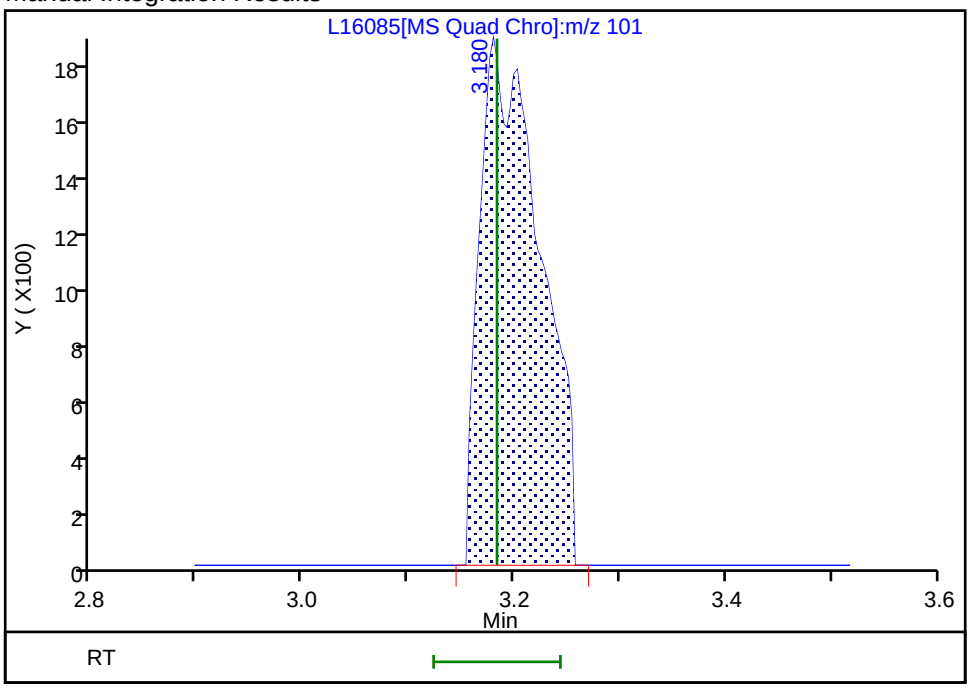
Processing Integration Results

RT: 3.18
Area: 3157
Amount: 0.312325
Amount Units: ug/L



Manual Integration Results

RT: 3.18
Area: 7304
Amount: 1.239184
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:02:05
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

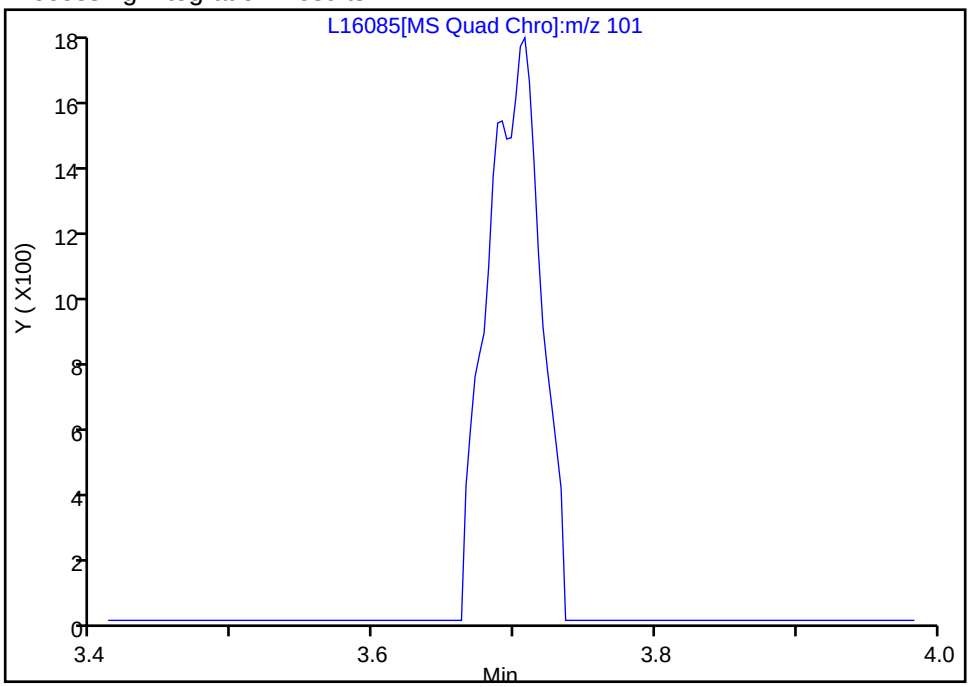
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

29 112TCTFE, CAS: 76-13-1

Signal: 1

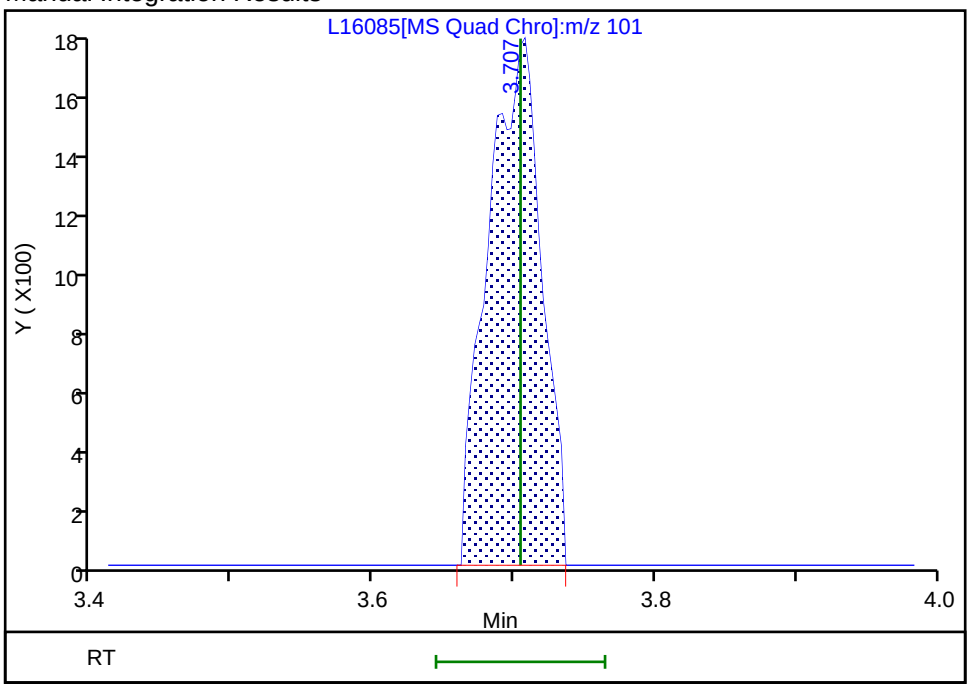
Not Detected
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.71
Area: 4517
Amount: 0.816691
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:39:54
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

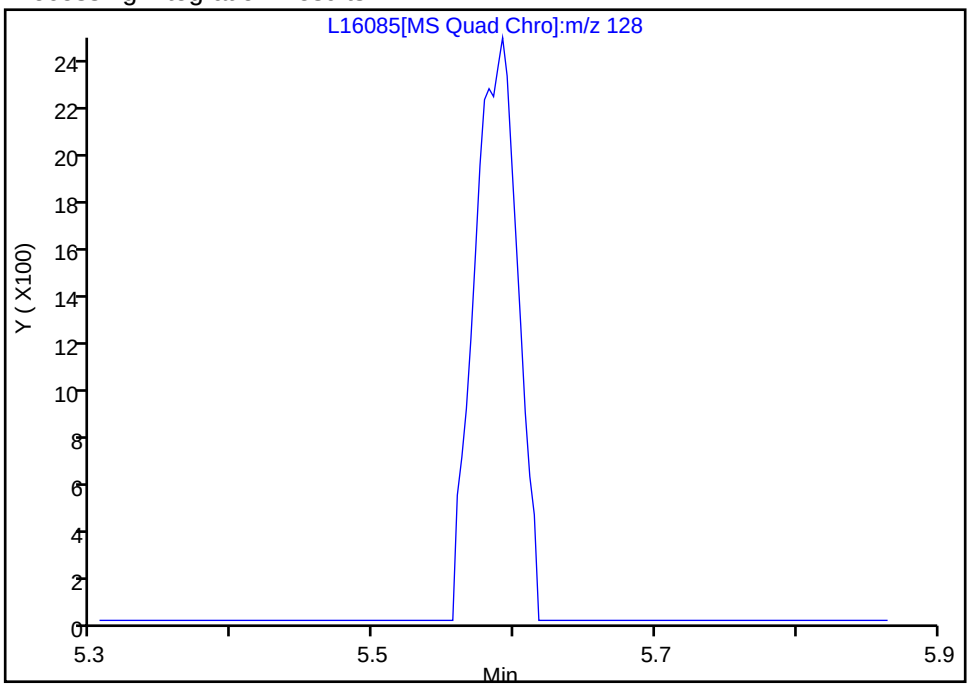
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

60 Chlorobromomethane, CAS: 74-97-5

Signal: 1

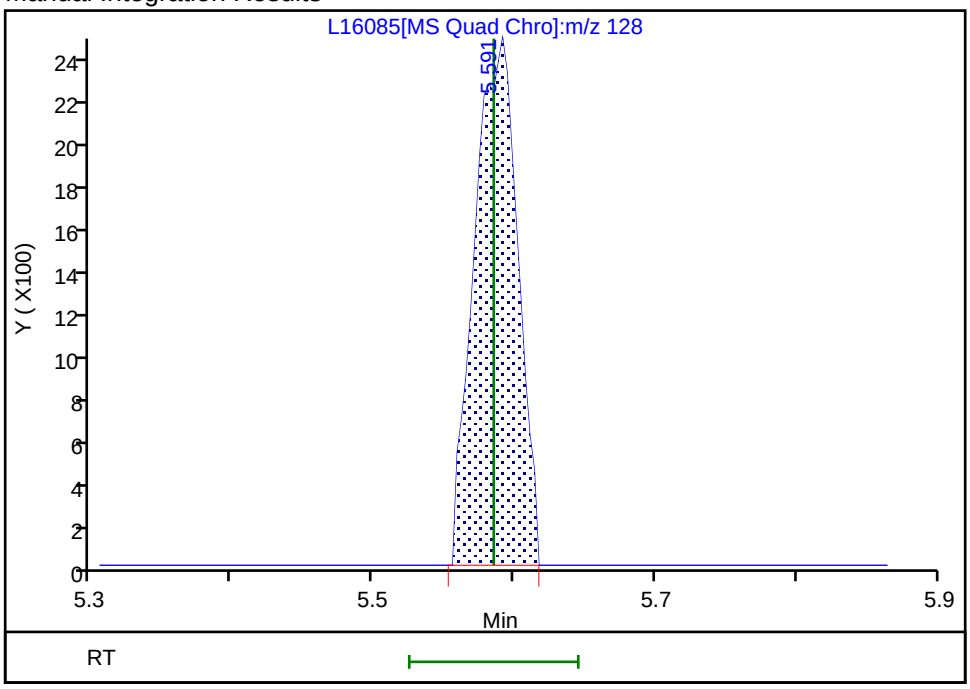
Not Detected
Expected RT: 5.59

Processing Integration Results



Manual Integration Results

RT: 5.59
Area: 5200
Amount: 1.076049
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:40:11
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

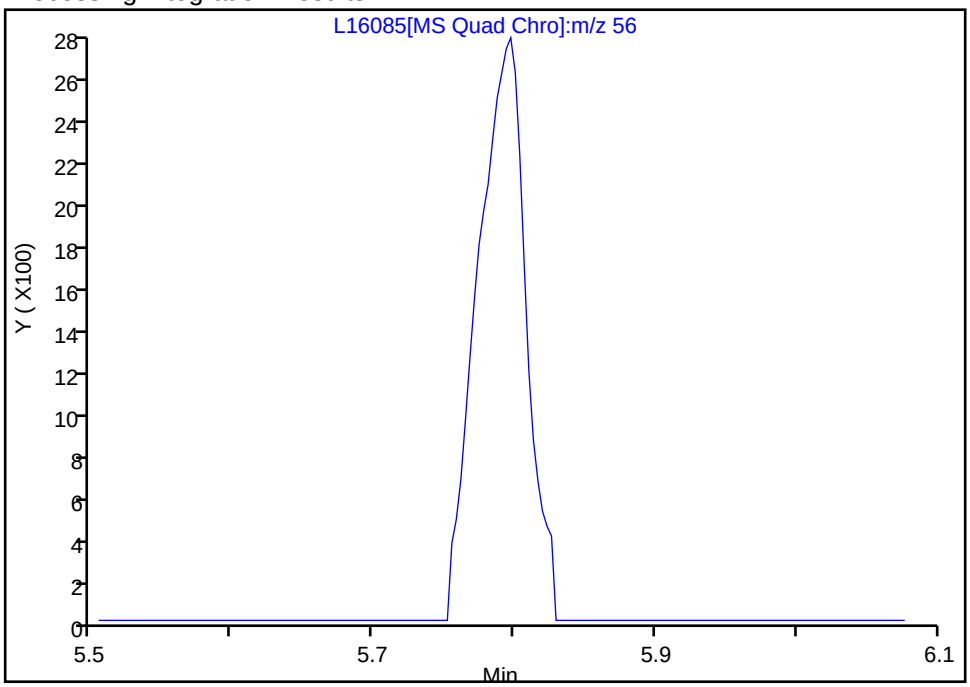
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

65 Cyclohexane, CAS: 110-82-7

Signal: 1

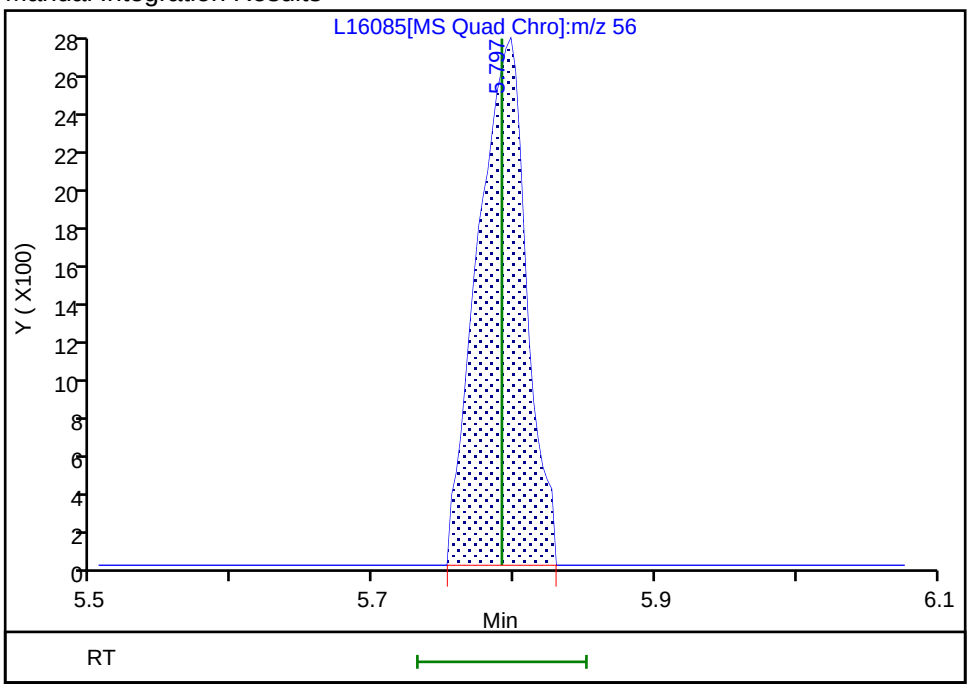
Not Detected
Expected RT: 5.79

Processing Integration Results



Manual Integration Results

RT: 5.80
Area: 6726
Amount: 0.863086
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:40:15
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

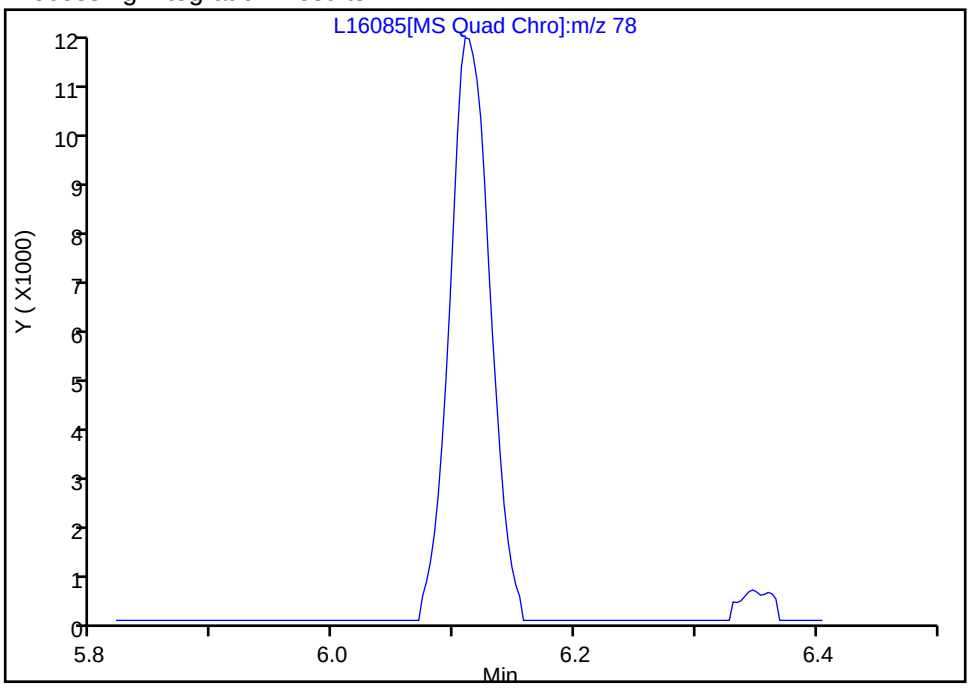
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

70 Benzene, CAS: 71-43-2

Signal: 1

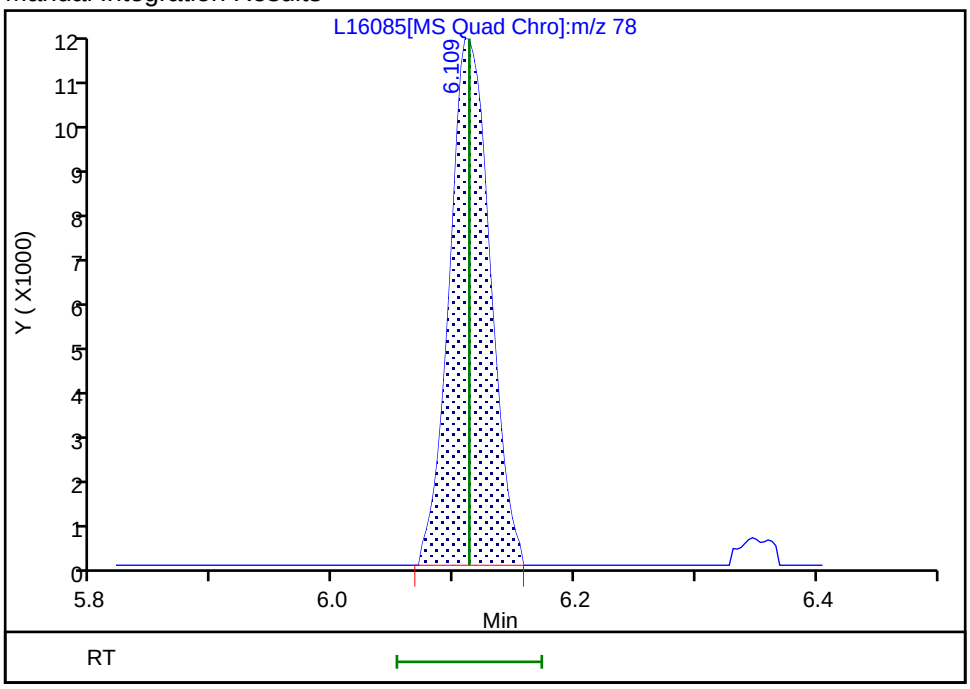
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11
Area: 26875
Amount: 1.024760
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:40:20
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

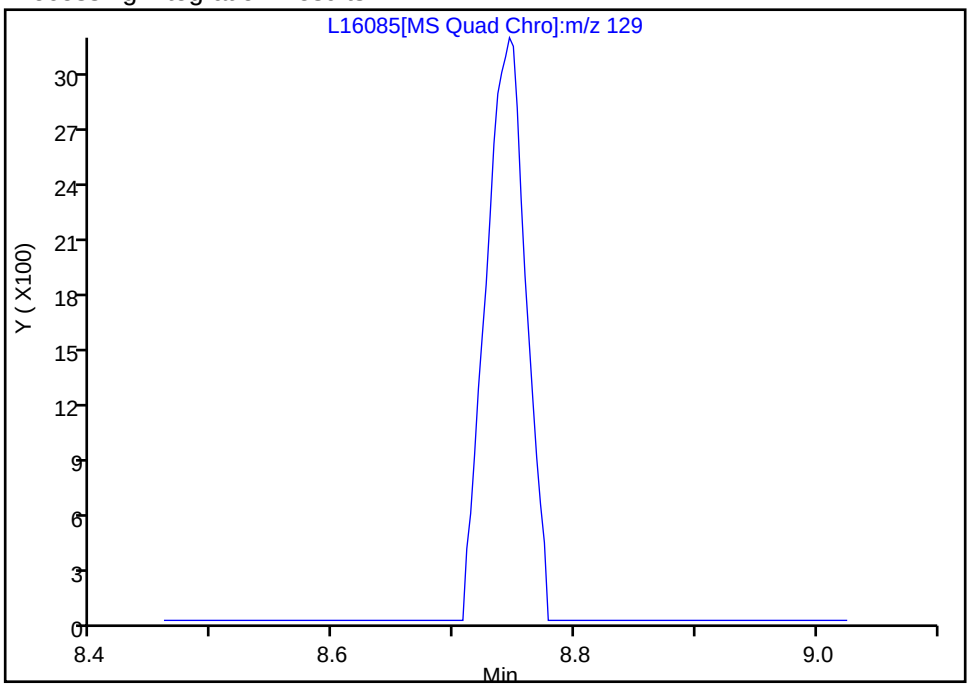
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16085.D
Injection Date: 08-Dec-2021 16:36:15 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

98 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

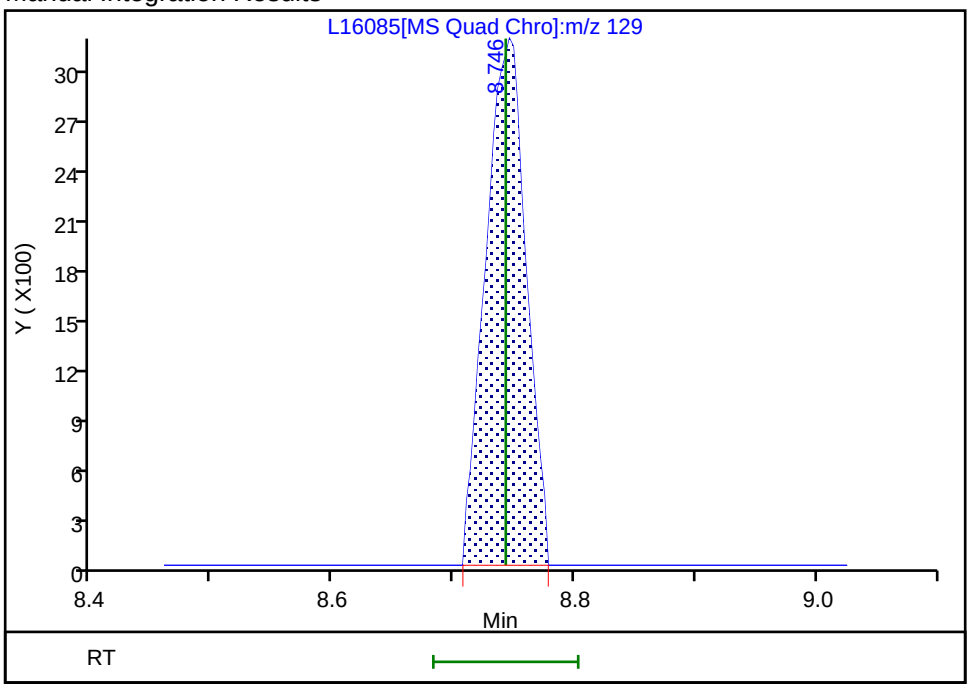
Not Detected
Expected RT: 8.74

Processing Integration Results



Manual Integration Results

RT: 8.75
Area: 7223
Amount: 0.925412
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:40:31
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16086.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Dec-2021 16:58:58 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0102927-010
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:31 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 10:41:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	121697	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	570962	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	93	350844	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	93	207045	25.0	24.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.093	6.096	-0.003	97	210847	25.0	24.8	
$ 6 Toluene-d8 (Surr)	98	7.807	7.810	-0.003	93	670564	25.0	24.3	
$ 7 4-Bromofluorobenzene (Surr)	174	10.521	10.518	0.003	93	254475	25.0	24.2	
10 Dichlorodifluoromethane	85	2.087	2.090	-0.003	95	7551	2.00	1.81	
13 Chloromethane	50	2.347	2.347	0.000	98	12270	2.00	1.78	
14 Vinyl chloride	62	2.479	2.476	0.003	95	11284	2.00	1.52	
15 Butadiene	54	2.495	2.492	0.003	95	9176	2.00	1.39	
18 Bromomethane	94	2.868	2.878	-0.010	92	13283	2.00	1.75	M
19 Chloroethane	64	2.955	2.955	0.000	93	10218	2.00	1.72	
21 Trichlorofluoromethane	101	3.186	3.183	0.003	80	14901	2.00	1.82	
20 Dichlorofluoromethane	67	3.183	3.187	-0.004	96	22622	2.00	1.86	a
26 Ethyl ether	59	3.482	3.479	0.003	91	13840	2.00	2.34	
28 Acrolein	56	3.682	3.678	0.004	99	12624	10.0	11.0	
29 112TCTFE	101	3.704	3.704	0.000	86	11020	2.00	1.98	a
30 1,1-Dichloroethene	96	3.733	3.730	0.003	95	13182	2.00	2.25	
31 Acetone	43	3.826	3.826	0.000	100	28313	10.0	10.7	
33 Iodomethane	142	3.910	3.913	-0.003	99	30255	2.00	2.18	
35 Carbon disulfide	76	3.965	3.965	0.000	99	41918	2.00	2.17	
37 3-Chloro-1-propene	41	4.084	4.080	0.004	87	19195	2.00	2.23	
38 Methyl acetate	43	4.100	4.100	0.000	96	28781	4.00	4.33	
39 Methylene Chloride	84	4.222	4.222	0.000	86	31852	2.00	2.22	
40 2-Methyl-2-propanol	59	4.318	4.318	0.000	95	20662	20.0	19.0	
41 Methyl tert-butyl ether	73	4.402	4.399	0.003	96	40272	2.00	2.05	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	92	16958	2.00	2.21	
44 Acrylonitrile	53	4.479	4.479	0.000	98	74848	20.0	21.4	
47 Hexane	57	4.601	4.598	0.003	93	14089	2.00	2.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.833	4.836	-0.003	65	24122	2.00	2.10	
49 Vinyl acetate	43	4.839	4.836	0.003	97	52136	4.00	3.88	
56 2,2-Dichloropropane	77	5.331	5.331	0.000	89	16722	2.00	2.18	
57 2-Butanone (MEK)	43	5.357	5.357	0.000	98	43958	10.0	10.6	
58 cis-1,2-Dichloroethene	96	5.354	5.357	-0.003	74	18385	2.00	2.19	
60 Chlorobromomethane	128	5.585	5.585	0.000	86	10640	2.00	2.19	
61 Tetrahydrofuran	42	5.601	5.601	0.000	80	12059	4.00	4.36	
62 Chloroform	83	5.630	5.630	0.000	93	29748	2.00	2.15	
64 1,1,1-Trichloroethane	97	5.775	5.772	0.003	98	22868	2.00	2.09	
65 Cyclohexane	56	5.791	5.791	0.000	82	16304	2.00	2.08	
66 Carbon tetrachloride	117	5.900	5.907	-0.007	94	19241	2.00	1.99	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	89	17550	2.00	2.09	
69 Isobutyl alcohol	43	6.013	6.010	0.003	95	21330	50.0	49.7	M
70 Benzene	78	6.112	6.113	0.000	95	56611	2.00	2.14	
72 1,2-Dichloroethane	62	6.161	6.167	-0.006	96	20700	2.00	2.07	
73 n-Heptane	43	6.206	6.209	-0.003	86	14910	2.00	2.23	
75 Trichloroethene	95	6.682	6.678	0.004	95	16112	2.00	2.16	
76 Methylcyclohexane	83	6.804	6.807	-0.003	85	19681	2.00	2.00	
77 1,2-Dichloropropane	63	6.919	6.920	-0.001	89	12470	2.00	2.13	
81 1,4-Dioxane	88	7.032	7.029	0.003	80	3065	40.0	37.4	
82 Dibromomethane	93	7.061	7.064	-0.003	90	11430	2.00	2.15	
83 Dichlorobromomethane	83	7.177	7.180	-0.003	98	19127	2.00	2.06	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	92	8712	2.00	2.00	
85 cis-1,3-Dichloropropene	75	7.579	7.579	0.000	93	19685	2.00	1.93	
87 4-Methyl-2-pentanone (MIBK)	43	7.688	7.685	0.003	96	81443	10.0	9.83	
88 Toluene	92	7.874	7.875	-0.001	98	37659	2.00	2.11	
90 Ethyl methacrylate	69	8.109	8.109	0.000	87	14606	2.00	1.76	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	94	18889	2.00	1.95	
93 1,1,2-Trichloroethane	83	8.325	8.321	0.004	91	10976	2.00	2.01	
94 Tetrachloroethene	166	8.411	8.411	0.000	97	18504	2.00	2.08	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	93	22695	2.00	2.03	
96 2-Hexanone	43	8.508	8.505	0.003	94	56040	10.0	9.90	
98 Chlorodibromomethane	129	8.743	8.743	0.000	89	15858	2.00	2.00	
101 Ethylene Dibromide	107	8.874	8.875	0.000	96	16096	2.00	2.01	
103 Chlorobenzene	112	9.328	9.331	-0.003	97	45795	2.00	2.12	
104 Ethylbenzene	91	9.392	9.392	0.000	98	68196	2.00	2.09	
105 1,1,1,2-Tetrachloroethane	131	9.408	9.411	-0.003	91	16078	2.00	2.00	
106 m-Xylene & p-Xylene	106	9.508	9.508	0.000	98	27951	2.00	2.08	
107 o-Xylene	106	9.945	9.945	0.000	96	27388	2.00	2.04	
109 Styrene	104	9.974	9.971	0.003	95	44022	2.00	2.03	
110 Bromoform	173	10.251	10.251	0.000	94	10742	2.00	1.78	
111 Isopropylbenzene	105	10.302	10.302	0.000	95	72529	2.00	2.07	
112 1,1,2,2-Tetrachloroethane	83	10.685	10.682	0.003	94	21343	2.00	1.94	
113 Bromobenzene	156	10.688	10.688	0.000	82	22335	2.00	2.08	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	80748	2.00	2.07	
115 trans-1,4-Dichloro-2-butene	53	10.723	10.727	-0.004	72	5743	2.00	2.06	
116 1,2,3-Trichloropropane	110	10.739	10.736	0.003	87	8100	2.00	1.99	
117 2-Chlorotoluene	126	10.845	10.846	-0.001	98	20311	2.00	2.20	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	62556	2.00	2.07	
119 4-Chlorotoluene	91	10.952	10.948	0.004	96	50632	2.00	2.06	
120 tert-Butylbenzene	134	11.193	11.190	0.003	91	13957	2.00	1.96	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	64699	2.00	2.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.392	11.389	0.003	93	75762	2.00	2.06	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	97	70226	2.00	2.06	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	97	43944	2.00	2.15	
126 1,4-Dichlorobenzene	146	11.633	11.636	-0.003	96	44154	2.00	2.09	
127 n-Butylbenzene	91	11.881	11.881	0.000	96	59420	2.00	2.08	
128 1,2-Dichlorobenzene	146	11.980	11.977	0.003	99	41199	2.00	2.00	
129 1,2-Dibromo-3-Chloropropane	75	12.652	12.656	-0.004	85	5038	2.00	2.15	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	95	32348	2.00	2.07	
131 Hexachlorobutadiene	225	13.398	13.402	-0.004	96	13845	2.00	2.07	
132 Naphthalene	128	13.559	13.559	0.000	96	87021	2.00	2.00	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	95	31369	2.00	2.09	
S 142 Total BTEX	1				0			10.5	
S 144 1,3-Dichloropropene, Total	1				0			3.88	
S 141 1,2-Dichloroethene, Total	1				0			4.41	
S 143 Xylenes, Total	1				0			4.12	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8260 CORP mix_00218	Amount Added:	2.00	Units: uL	
GAS CORP mix_00484	Amount Added:	2.00	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:32 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16086.D

Injection Date: 08-Dec-2021 16:58:58 Instrument ID: HP5977L

Lims ID: IC 2

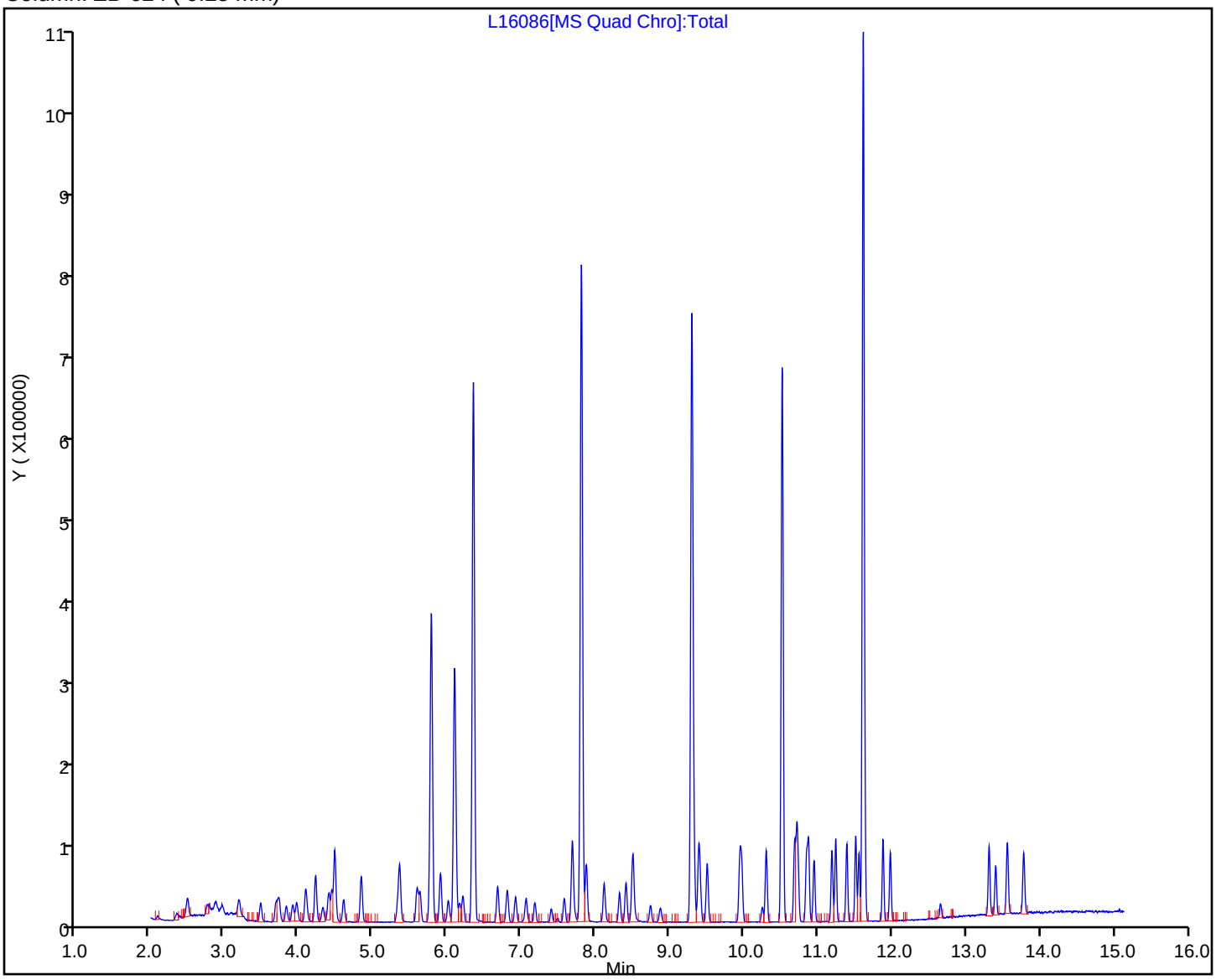
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 10

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

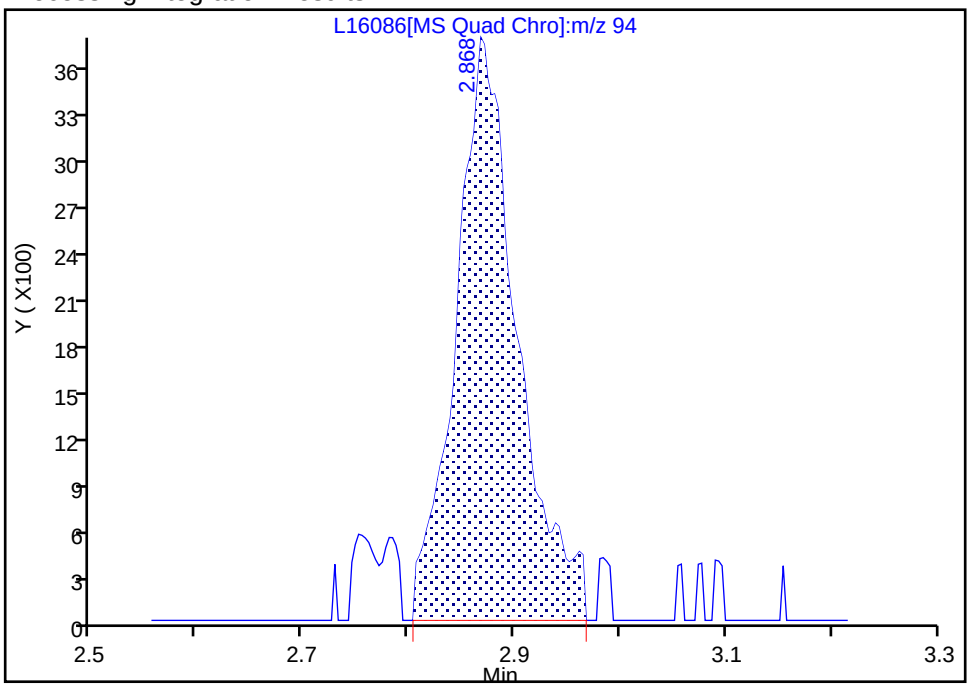
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16086.D
Injection Date: 08-Dec-2021 16:58:58 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

18 Bromomethane, CAS: 74-83-9

Signal: 1

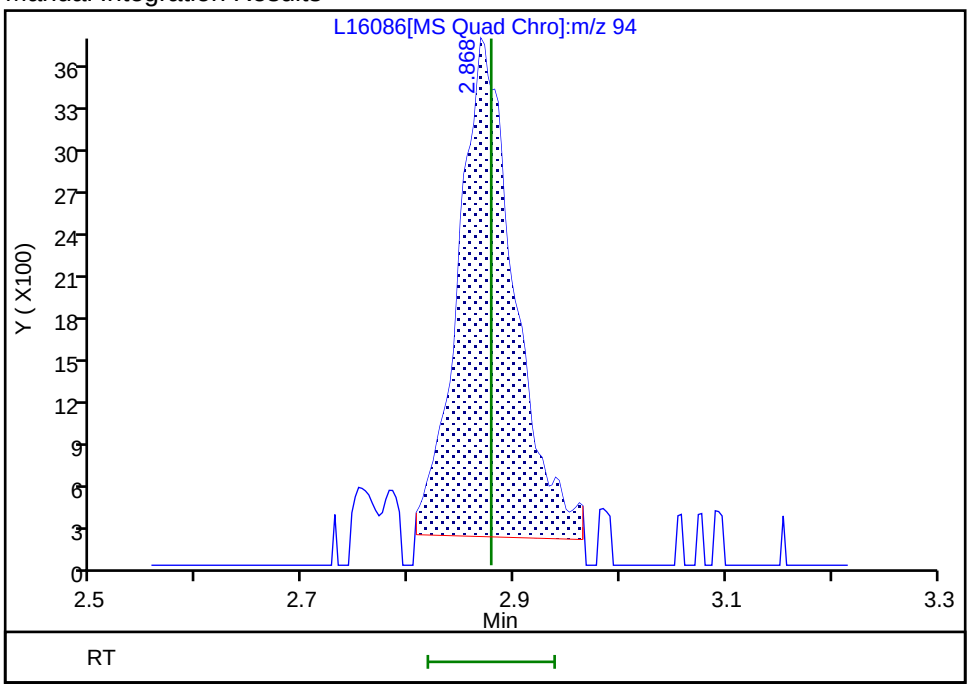
Processing Integration Results

RT: 2.87
Area: 15237
Amount: 1.972613
Amount Units: ug/L



Manual Integration Results

RT: 2.87
Area: 13283
Amount: 1.750717
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:03:11
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

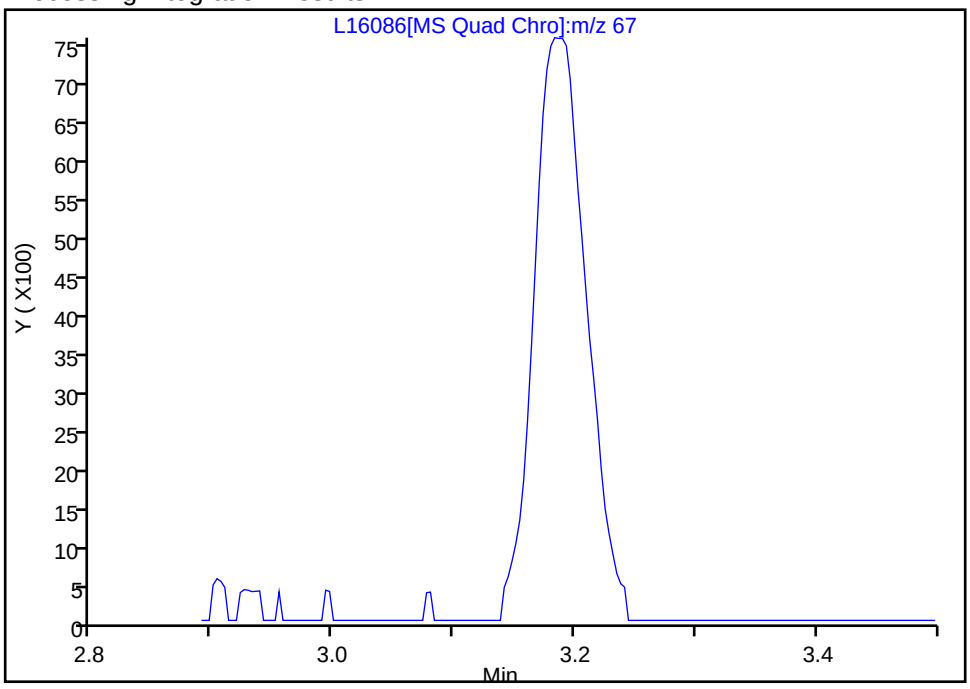
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16086.D				
Injection Date:	08-Dec-2021 16:58:58	Instrument ID:	HP5977L		
Lims ID:	IC 2				
Client ID:					
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

20 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

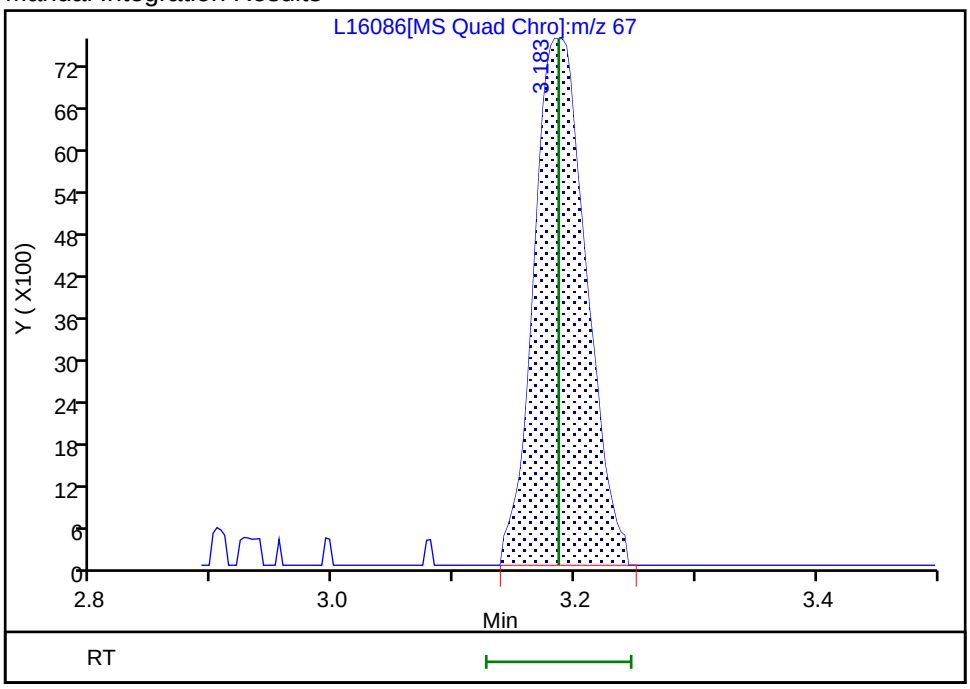
Not Detected
Expected RT: 3.19

Processing Integration Results



Manual Integration Results

RT: 3.18
Area: 22622
Amount: 1.858988
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:41:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

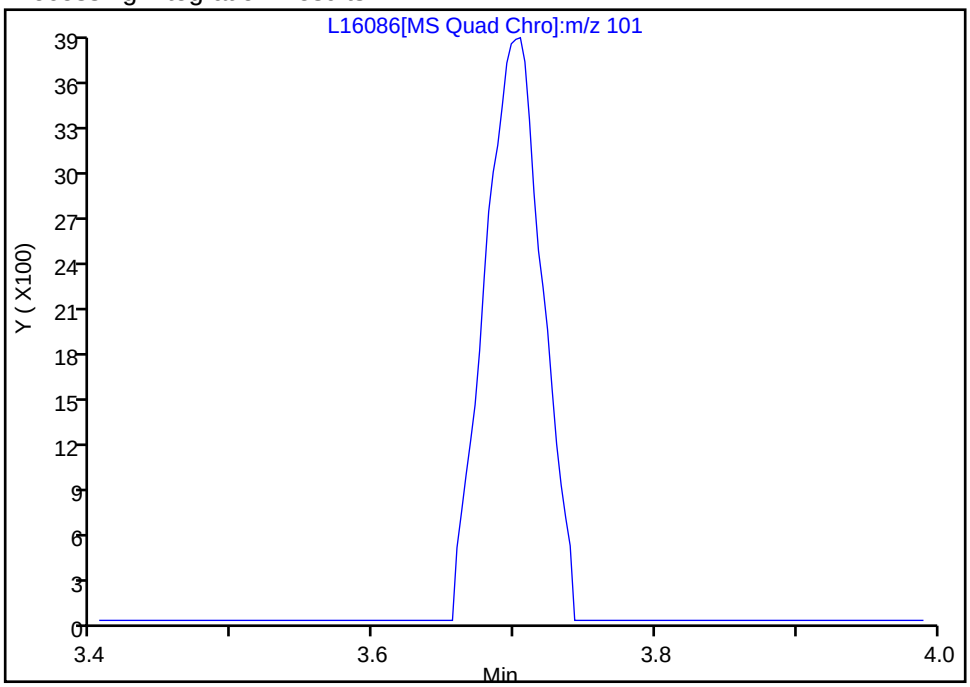
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16086.D
Injection Date: 08-Dec-2021 16:58:58 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

29 112TCTFE, CAS: 76-13-1

Signal: 1

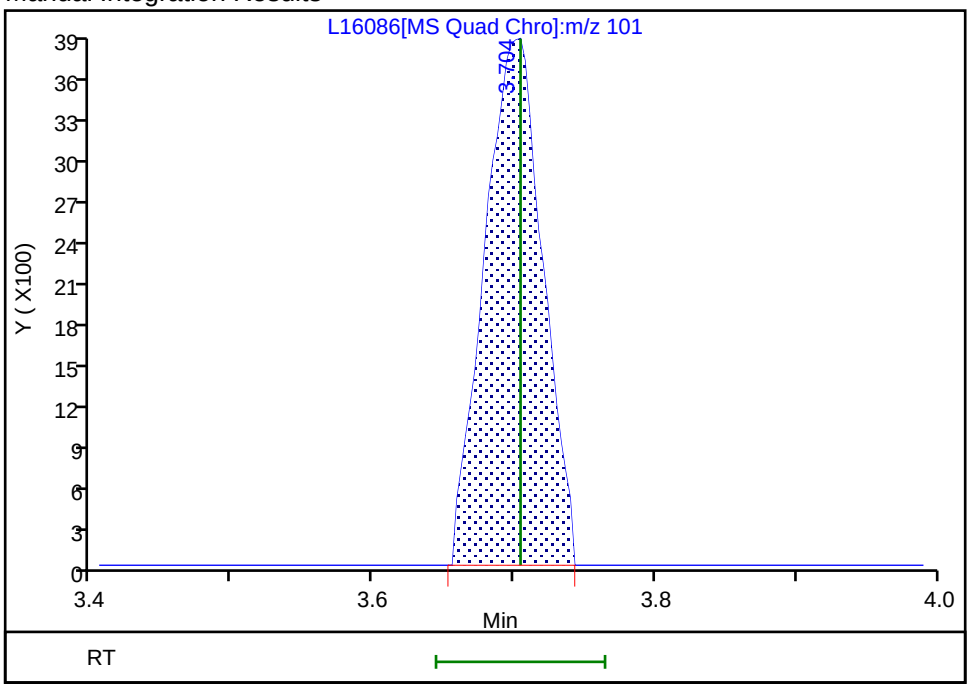
Not Detected
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.70
Area: 11020
Amount: 1.978427
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:41:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

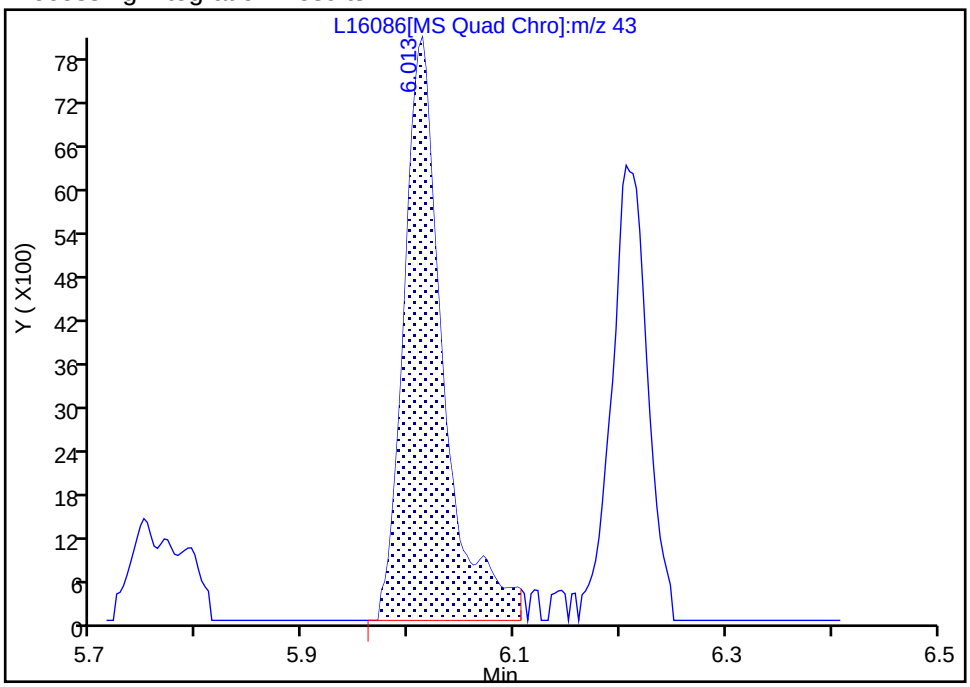
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16086.D
Injection Date: 08-Dec-2021 16:58:58 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

69 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

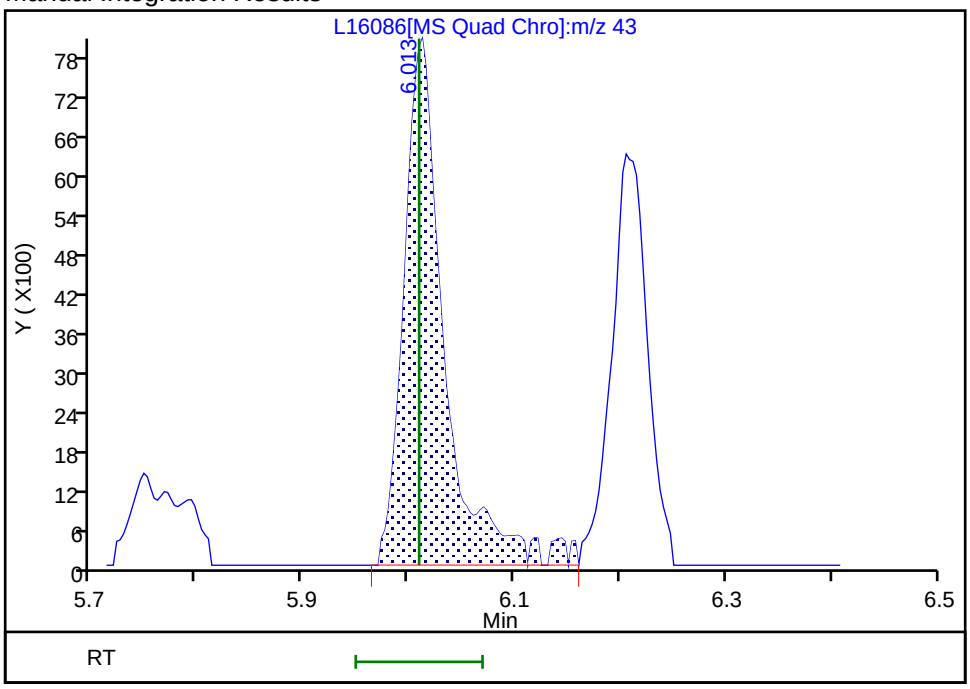
Processing Integration Results

RT: 6.01
Area: 20554
Amount: 48.142431
Amount Units: ug/L



Manual Integration Results

RT: 6.01
Area: 21330
Amount: 49.734021
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:06:55
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16087.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Dec-2021 17:21:13 ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0102927-011
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:36 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 10:44:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	124825	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	567878	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.611	11.614	-0.003	93	332769	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	95	214716	25.0	24.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	219318	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	7.807	7.810	-0.003	93	714239	25.0	26.1	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	93	265761	25.0	25.4	
10 Dichlorodifluoromethane	85	2.087	2.090	-0.003	98	28573	5.00	4.63	
13 Chloromethane	50	2.347	2.347	0.000	99	37201	5.00	5.26	
14 Vinyl chloride	62	2.479	2.476	0.003	97	36607	5.00	4.80	
15 Butadiene	54	2.495	2.492	0.003	92	32626	5.00	4.81	
18 Bromomethane	94	2.878	2.878	0.000	93	38178	5.00	4.91	
19 Chloroethane	64	2.961	2.955	0.006	98	30690	5.00	5.02	
21 Trichlorofluoromethane	101	3.187	3.183	0.004	97	51280	5.00	4.55	
20 Dichlorofluoromethane	67	3.193	3.187	0.006	97	59697	5.00	4.78	
26 Ethyl ether	59	3.479	3.479	0.000	90	28547	5.00	4.71	
28 Acrolein	56	3.682	3.678	0.004	91	26549	25.0	22.6	
29 112TCTFE	101	3.701	3.704	-0.003	91	22064	5.00	3.86	
30 1,1-Dichloroethene	96	3.727	3.730	-0.003	95	26435	5.00	4.40	
31 Acetone	43	3.826	3.826	0.000	99	67384	25.0	24.8	
33 Iodomethane	142	3.913	3.913	0.000	99	66231	5.00	4.65	
35 Carbon disulfide	76	3.968	3.965	0.003	100	88303	5.00	4.46	
37 3-Chloro-1-propene	41	4.080	4.080	0.000	84	39000	5.00	4.42	
38 Methyl acetate	43	4.097	4.100	-0.004	97	64212	10.0	9.42	
39 Methylene Chloride	84	4.222	4.222	0.000	86	51221	5.00	4.66	
40 2-Methyl-2-propanol	59	4.318	4.318	0.000	95	53140	50.0	47.7	M
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	95	93226	5.00	4.62	
42 trans-1,2-Dichloroethene	96	4.441	4.437	0.004	90	36714	5.00	4.68	
44 Acrylonitrile	53	4.479	4.479	0.000	98	172917	50.0	48.3	
47 Hexane	57	4.598	4.598	0.000	92	26448	5.00	3.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	62	53870	5.00	4.58	
49 Vinyl acetate	43	4.839	4.836	0.003	97	126803	10.0	9.20	
56 2,2-Dichloropropane	77	5.328	5.331	-0.003	90	34536	5.00	4.40	a
57 2-Butanone (MEK)	43	5.360	5.357	0.003	99	103295	25.0	24.2	
58 cis-1,2-Dichloroethene	96	5.354	5.357	-0.003	72	40374	5.00	4.70	
60 Chlorobromomethane	128	5.585	5.585	0.000	82	23309	5.00	4.67	
61 Tetrahydrofuran	42	5.601	5.601	0.000	86	27048	10.0	9.53	
62 Chloroform	83	5.630	5.630	0.000	92	64650	5.00	4.56	
64 1,1,1-Trichloroethane	97	5.768	5.772	-0.004	98	49356	5.00	4.40	
65 Cyclohexane	56	5.794	5.791	0.003	82	31417	5.00	3.90	
66 Carbon tetrachloride	117	5.907	5.907	0.000	92	41207	5.00	4.16	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	93	38723	5.00	4.50	
69 Isobutyl alcohol	43	6.013	6.010	0.003	92	52432	125.0	119.2	M
70 Benzene	78	6.113	6.113	0.001	92	130439	5.00	4.81	
72 1,2-Dichloroethane	62	6.167	6.167	0.000	97	49115	5.00	4.79	
73 n-Heptane	43	6.209	6.209	0.000	84	27618	5.00	4.04	
75 Trichloroethene	95	6.678	6.678	0.000	94	36301	5.00	4.76	
76 Methylcyclohexane	83	6.807	6.807	0.000	86	37996	5.00	3.76	
77 1,2-Dichloropropane	63	6.920	6.920	0.000	93	29050	5.00	4.84	
81 1,4-Dioxane	88	7.029	7.029	0.000	86	7349	100.0	90.2	
82 Dibromomethane	93	7.061	7.064	-0.003	91	26948	5.00	4.94	
83 Dichlorobromomethane	83	7.180	7.180	0.000	98	43723	5.00	4.60	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	96	21548	5.00	4.82	
85 cis-1,3-Dichloropropene	75	7.579	7.579	0.000	95	48692	5.00	4.66	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.685	0.000	95	198430	25.0	24.1	
88 Toluene	92	7.875	7.875	0.000	98	86055	5.00	4.86	
90 Ethyl methacrylate	69	8.112	8.109	0.003	87	38758	5.00	4.70	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	96	46007	5.00	4.77	
93 1,1,2-Trichloroethane	83	8.325	8.321	0.004	90	26382	5.00	4.86	
94 Tetrachloroethene	166	8.412	8.411	0.001	98	41404	5.00	4.69	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	95	53949	5.00	4.86	
96 2-Hexanone	43	8.505	8.505	0.000	95	137960	25.0	24.5	
98 Chlorodibromomethane	129	8.743	8.743	0.000	88	37323	5.00	4.72	
101 Ethylene Dibromide	107	8.875	8.875	0.001	99	38189	5.00	4.80	
103 Chlorobenzene	112	9.331	9.331	0.000	98	103901	5.00	4.84	
104 Ethylbenzene	91	9.392	9.392	0.000	97	156491	5.00	4.82	
105 1,1,1,2-Tetrachloroethane	131	9.408	9.411	-0.003	93	39388	5.00	4.92	
106 m-Xylene & p-Xylene	106	9.505	9.508	-0.003	97	63649	5.00	4.77	
107 o-Xylene	106	9.945	9.945	0.000	96	64081	5.00	4.79	
109 Styrene	104	9.971	9.971	0.000	96	105029	5.00	4.86	
110 Bromoform	173	10.251	10.251	0.000	97	26457	5.00	4.40	
111 Isopropylbenzene	105	10.302	10.302	0.000	95	160689	5.00	4.84	
112 1,1,2,2-Tetrachloroethane	83	10.685	10.682	0.003	96	50620	5.00	4.86	
113 Bromobenzene	156	10.688	10.688	0.000	85	50655	5.00	4.97	
114 N-Propylbenzene	91	10.717	10.717	0.000	99	184139	5.00	4.97	
115 trans-1,4-Dichloro-2-butene	53	10.727	10.727	0.000	72	12648	5.00	4.78	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	84	20046	5.00	5.20	
117 2-Chlorotoluene	126	10.846	10.846	0.000	98	44908	5.00	5.13	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	140738	5.00	4.92	
119 4-Chlorotoluene	91	10.948	10.948	0.000	97	117330	5.00	5.04	
120 tert-Butylbenzene	134	11.190	11.190	0.000	91	32581	5.00	4.81	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	148690	5.00	5.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.389	11.389	0.000	93	169167	5.00	4.85	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	96	157913	5.00	4.88	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	98	95437	5.00	4.92	
126 1,4-Dichlorobenzene	146	11.637	11.636	0.001	97	99273	5.00	4.95	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	128371	5.00	4.74	
128 1,2-Dichlorobenzene	146	11.977	11.977	0.000	99	94941	5.00	4.87	
129 1,2-Dibromo-3-Chloropropane	75	12.653	12.656	-0.003	88	10168	5.00	4.58	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	94	73955	5.00	4.99	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	97	30205	5.00	4.76	
132 Naphthalene	128	13.559	13.559	0.000	96	202769	5.00	4.91	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	70696	5.00	4.97	
S 142 Total BTEX	1				0			24.1	
S 144 1,3-Dichloropropene, Total	1				0			9.43	
S 141 1,2-Dichloroethene, Total	1				0			9.37	
S 143 Xylenes, Total	1				0			9.56	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00218	Amount Added:	5.00	Units: uL	
GAS CORP mix_00484	Amount Added:	5.00	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:36 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16087.D

Injection Date: 08-Dec-2021 17:21:13 Instrument ID: HP5977L

Lims ID: IC 3

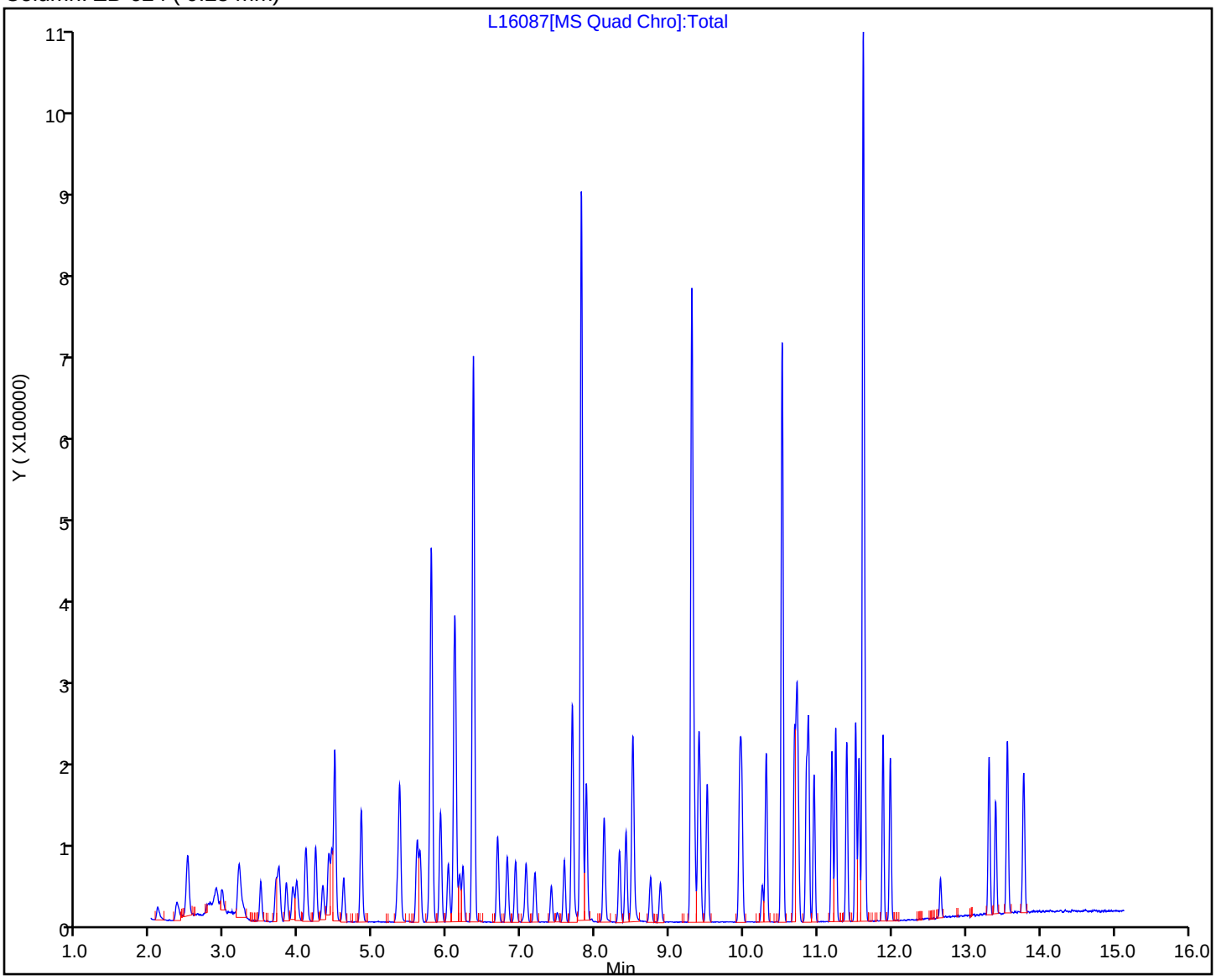
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 11

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

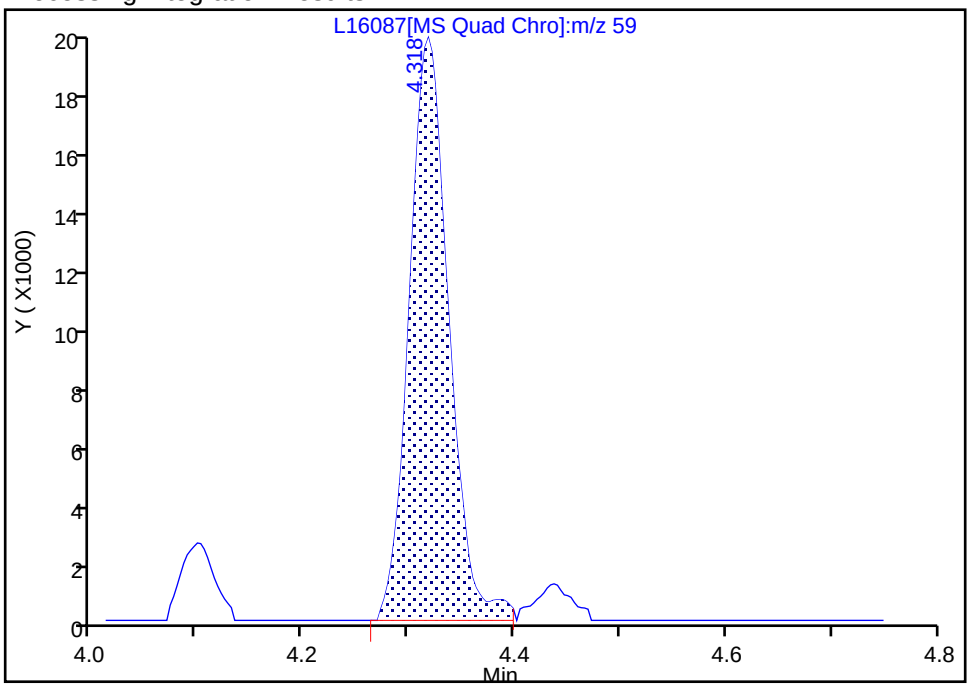
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16087.D
Injection Date: 08-Dec-2021 17:21:13 Instrument ID: HP5977L
Lims ID: IC 3
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

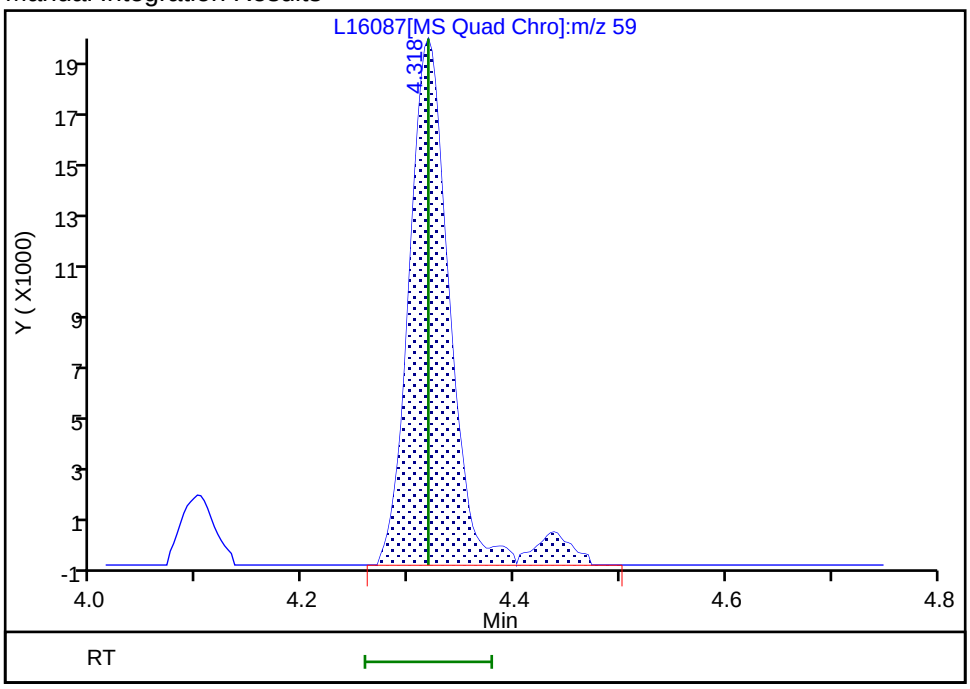
Processing Integration Results

RT: 4.32
Area: 50118
Amount: 46.585855
Amount Units: ug/L



Manual Integration Results

RT: 4.32
Area: 53140
Amount: 47.745470
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:43:11
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

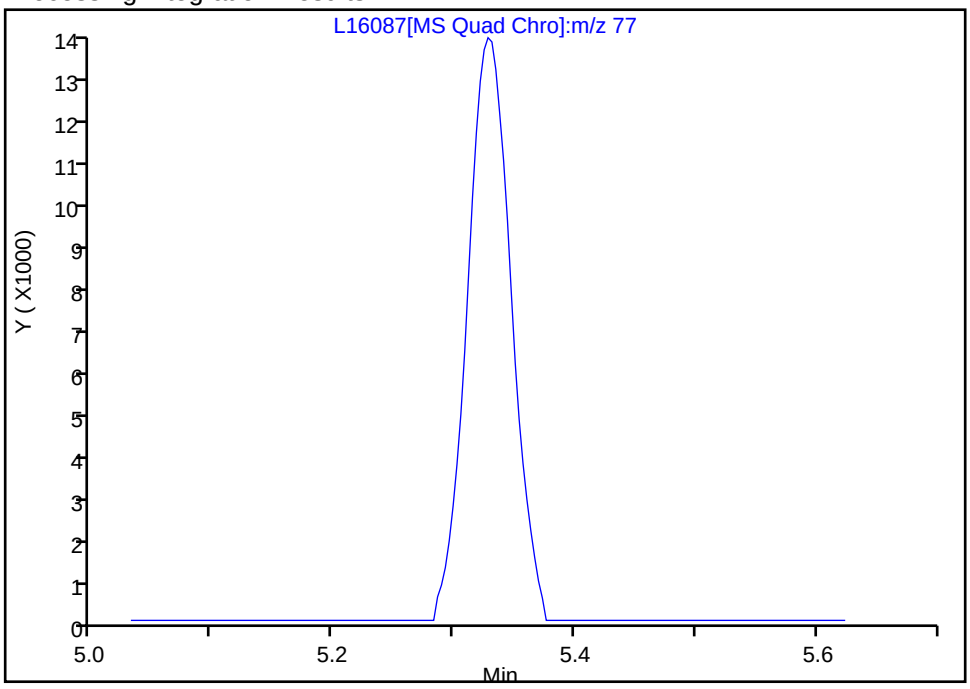
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16087.D
Injection Date: 08-Dec-2021 17:21:13 Instrument ID: HP5977L
Lims ID: IC 3
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

56 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

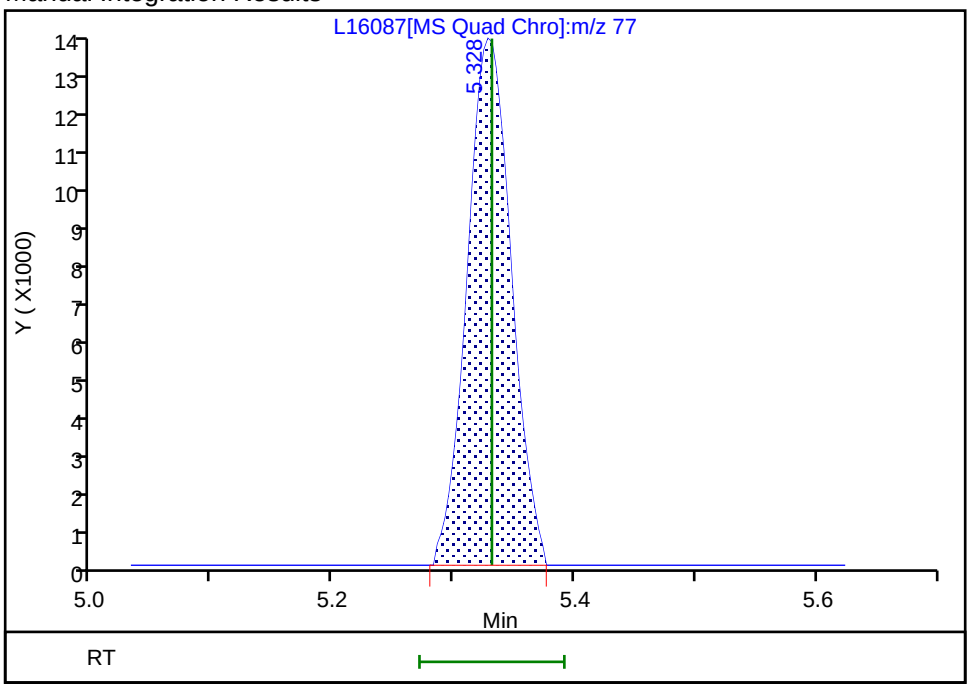
Not Detected
Expected RT: 5.33

Processing Integration Results



Manual Integration Results

RT: 5.33
Area: 34536
Amount: 4.398104
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:43:34
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

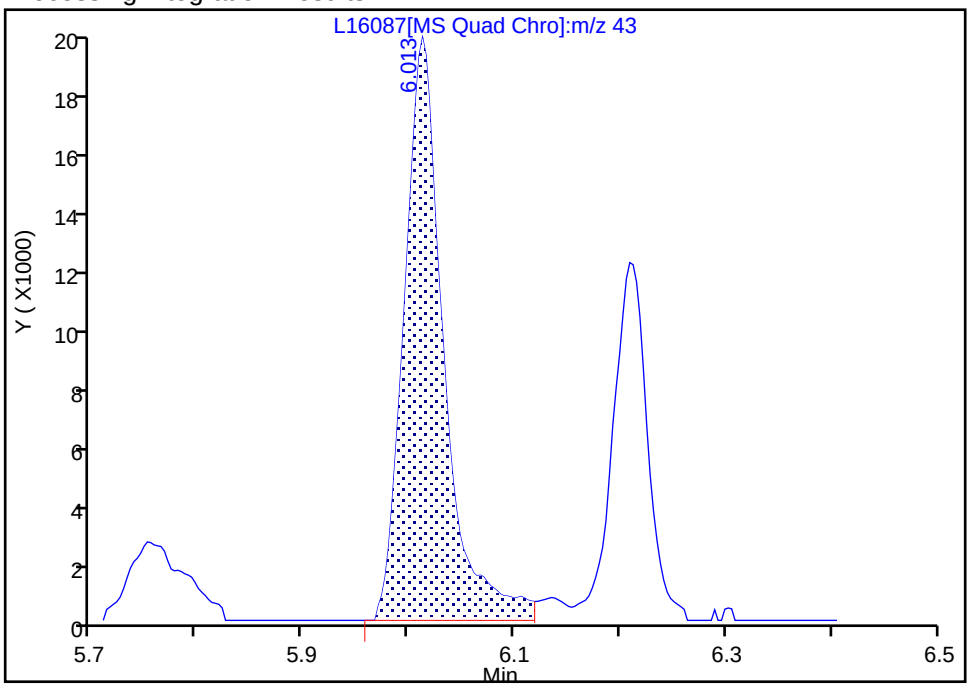
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16087.D
Injection Date: 08-Dec-2021 17:21:13 Instrument ID: HP5977L
Lims ID: IC 3
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

69 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

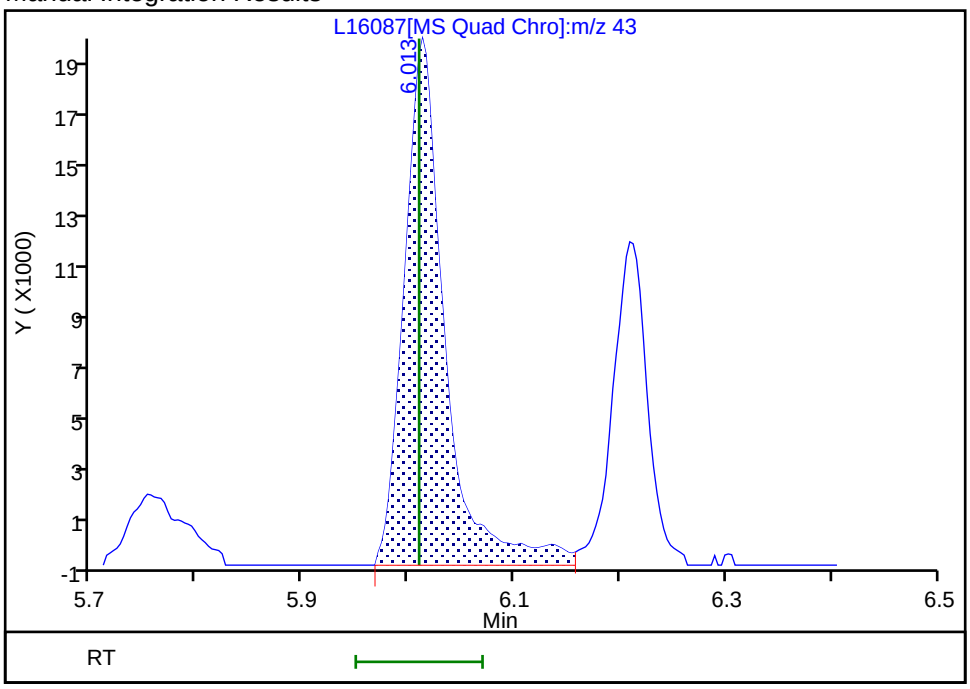
Processing Integration Results

RT: 6.01
Area: 50926
Amount: 116.6932
Amount Units: ug/L



Manual Integration Results

RT: 6.01
Area: 52432
Amount: 119.1893
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:06:35
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16088.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Dec-2021 17:42:35 ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0102927-012
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:40 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 10:58:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	122762	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	564208	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	92	340648	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	95	218544	25.0	25.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	98	217341	25.0	25.4	
$ 6 Toluene-d8 (Surr)	98	7.807	7.810	-0.003	94	694984	25.0	25.5	
$ 7 4-Bromofluorobenzene (Surr)	174	10.517	10.518	-0.001	96	265635	25.0	25.5	
10 Dichlorodifluoromethane	85	2.087	2.090	-0.003	99	57861	10.0	8.73	
13 Chloromethane	50	2.344	2.347	-0.003	99	66008	10.0	9.49	
14 Vinyl chloride	62	2.473	2.476	-0.003	97	71668	10.0	9.55	
15 Butadiene	54	2.489	2.492	-0.003	91	62888	10.0	9.42	
18 Bromomethane	94	2.868	2.878	-0.010	91	84745	10.0	11.1	
19 Chloroethane	64	2.955	2.955	0.000	99	58638	10.0	9.76	
21 Trichlorofluoromethane	101	3.183	3.183	0.000	68	112701	10.0	9.33	M
20 Dichlorofluoromethane	67	3.180	3.187	-0.007	96	124118	10.0	10.1	
26 Ethyl ether	59	3.476	3.479	-0.003	88	55956	10.0	9.40	
28 Acrolein	56	3.678	3.678	0.000	99	56680	50.0	49.2	
29 112TCTFE	101	3.694	3.704	-0.010	89	49930	10.0	8.89	
30 1,1-Dichloroethene	96	3.727	3.730	-0.003	96	55326	10.0	9.37	
31 Acetone	43	3.823	3.826	-0.003	99	127572	50.0	47.7	
33 Iodomethane	142	3.910	3.913	-0.003	100	137939	10.0	9.86	
35 Carbon disulfide	76	3.961	3.965	-0.004	100	182019	10.0	9.35	
37 3-Chloro-1-propene	41	4.083	4.080	0.003	86	82563	10.0	9.51	
38 Methyl acetate	43	4.096	4.100	-0.004	96	130951	20.0	19.5	
39 Methylene Chloride	84	4.219	4.222	-0.003	87	91985	10.0	10.2	
40 2-Methyl-2-propanol	59	4.315	4.318	-0.003	96	101267	100.0	92.5	M
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	95	195712	10.0	9.87	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	92	72570	10.0	9.40	
44 Acrylonitrile	53	4.479	4.479	0.000	98	340271	100.0	96.6	
47 Hexane	57	4.598	4.598	0.000	91	61897	10.0	8.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	95	113023	10.0	9.77	
49 Vinyl acetate	43	4.836	4.836	0.000	97	261143	20.0	19.3	
56 2,2-Dichloropropane	77	5.328	5.331	-0.003	87	75821	10.0	9.82	
57 2-Butanone (MEK)	43	5.357	5.357	0.000	99	196794	50.0	46.9	
58 cis-1,2-Dichloroethene	96	5.354	5.357	-0.003	80	84676	10.0	10.0	
60 Chlorobromomethane	128	5.585	5.585	0.000	81	50440	10.0	10.3	
61 Tetrahydrofuran	42	5.598	5.601	-0.003	82	54024	20.0	19.4	
62 Chloroform	83	5.630	5.630	0.000	91	133831	10.0	9.61	
64 1,1,1-Trichloroethane	97	5.772	5.772	0.000	97	104891	10.0	9.52	
65 Cyclohexane	56	5.788	5.791	-0.003	82	74215	10.0	9.37	
66 Carbon tetrachloride	117	5.907	5.907	0.000	95	87310	10.0	8.96	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	93	80965	10.0	9.57	
69 Isobutyl alcohol	43	6.013	6.010	0.003	91	100471	250.0	232.2	M
70 Benzene	78	6.112	6.113	0.000	96	256168	10.0	9.61	
72 1,2-Dichloroethane	62	6.164	6.167	-0.003	97	98295	10.0	9.76	
73 n-Heptane	43	6.209	6.209	0.000	88	60055	10.0	8.92	
75 Trichloroethene	95	6.678	6.678	0.000	94	70946	10.0	9.45	
76 Methylcyclohexane	83	6.807	6.807	0.000	85	91572	10.0	9.22	
77 1,2-Dichloropropane	63	6.919	6.920	-0.001	93	57734	10.0	9.79	
81 1,4-Dioxane	88	7.032	7.029	0.003	86	15523	200.0	191.8	M
82 Dibromomethane	93	7.064	7.064	0.000	89	52957	10.0	9.87	
83 Dichlorobromomethane	83	7.180	7.180	0.000	98	89758	10.0	9.60	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	94	41804	10.0	9.51	
85 cis-1,3-Dichloropropene	75	7.579	7.579	0.000	96	99967	10.0	9.73	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.685	0.000	95	406796	50.0	49.7	
88 Toluene	92	7.874	7.875	-0.001	99	169345	10.0	9.62	
90 Ethyl methacrylate	69	8.112	8.109	0.003	87	81137	10.0	9.90	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	96	94364	10.0	9.85	
93 1,1,2-Trichloroethane	83	8.321	8.321	0.000	91	53998	10.0	10.0	
94 Tetrachloroethene	166	8.411	8.411	0.000	97	83886	10.0	9.55	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	98	104828	10.0	9.51	
96 2-Hexanone	43	8.505	8.505	0.000	95	270869	50.0	48.4	
98 Chlorodibromomethane	129	8.743	8.743	0.000	89	75089	10.0	9.56	
101 Ethylene Dibromide	107	8.874	8.875	0.000	99	75012	10.0	9.49	
103 Chlorobenzene	112	9.331	9.331	0.000	98	204368	10.0	9.57	
104 Ethylbenzene	91	9.392	9.392	0.000	97	309539	10.0	9.60	
105 1,1,1,2-Tetrachloroethane	131	9.408	9.411	-0.003	94	78022	10.0	9.80	
106 m-Xylene & p-Xylene	106	9.508	9.508	0.000	97	126864	10.0	9.58	
107 o-Xylene	106	9.948	9.945	0.003	95	131511	10.0	9.89	
109 Styrene	104	9.971	9.971	0.000	94	210013	10.0	9.78	
110 Bromoform	173	10.251	10.251	0.000	97	55992	10.0	9.38	
111 Isopropylbenzene	105	10.305	10.302	0.003	95	331419	10.0	9.76	
112 1,1,2,2-Tetrachloroethane	83	10.685	10.682	0.003	97	105290	10.0	9.87	
113 Bromobenzene	156	10.688	10.688	0.000	86	99899	10.0	9.57	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	368892	10.0	9.73	
115 trans-1,4-Dichloro-2-butene	53	10.726	10.727	-0.001	70	26342	10.0	9.73	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	85	39097	10.0	9.91	
117 2-Chlorotoluene	126	10.845	10.846	-0.001	98	87673	10.0	9.78	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	284901	10.0	9.73	
119 4-Chlorotoluene	91	10.948	10.948	0.000	96	232425	10.0	9.76	
120 tert-Butylbenzene	134	11.189	11.190	-0.001	91	65320	10.0	9.43	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	298214	10.0	9.94	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.392	11.389	0.003	94	341370	10.0	9.56	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	97	324202	10.0	9.79	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	97	196377	10.0	9.89	
126 1,4-Dichlorobenzene	146	11.636	11.636	0.000	97	197966	10.0	9.65	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	260172	10.0	9.38	
128 1,2-Dichlorobenzene	146	11.977	11.977	0.000	99	192877	10.0	9.66	
129 1,2-Dibromo-3-Chloropropane	75	12.656	12.656	0.000	91	22877	10.0	10.1	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	94	151115	10.0	9.95	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	97	62093	10.0	9.57	
132 Naphthalene	128	13.556	13.559	-0.003	96	423771	10.0	10.0	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	142829	10.0	9.80	
S 142 Total BTEX	1				0			48.3	
S 144 1,3-Dichloropropene, Total	1				0			19.6	
S 141 1,2-Dichloroethene, Total	1				0			19.4	
S 143 Xylenes, Total	1				0			19.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	5.00	Units: uL	
GAS CORP mix_00484	Amount Added:	5.00	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:41 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16088.D

Injection Date: 08-Dec-2021 17:42:35 Instrument ID: HP5977L

Lims ID: IC 4

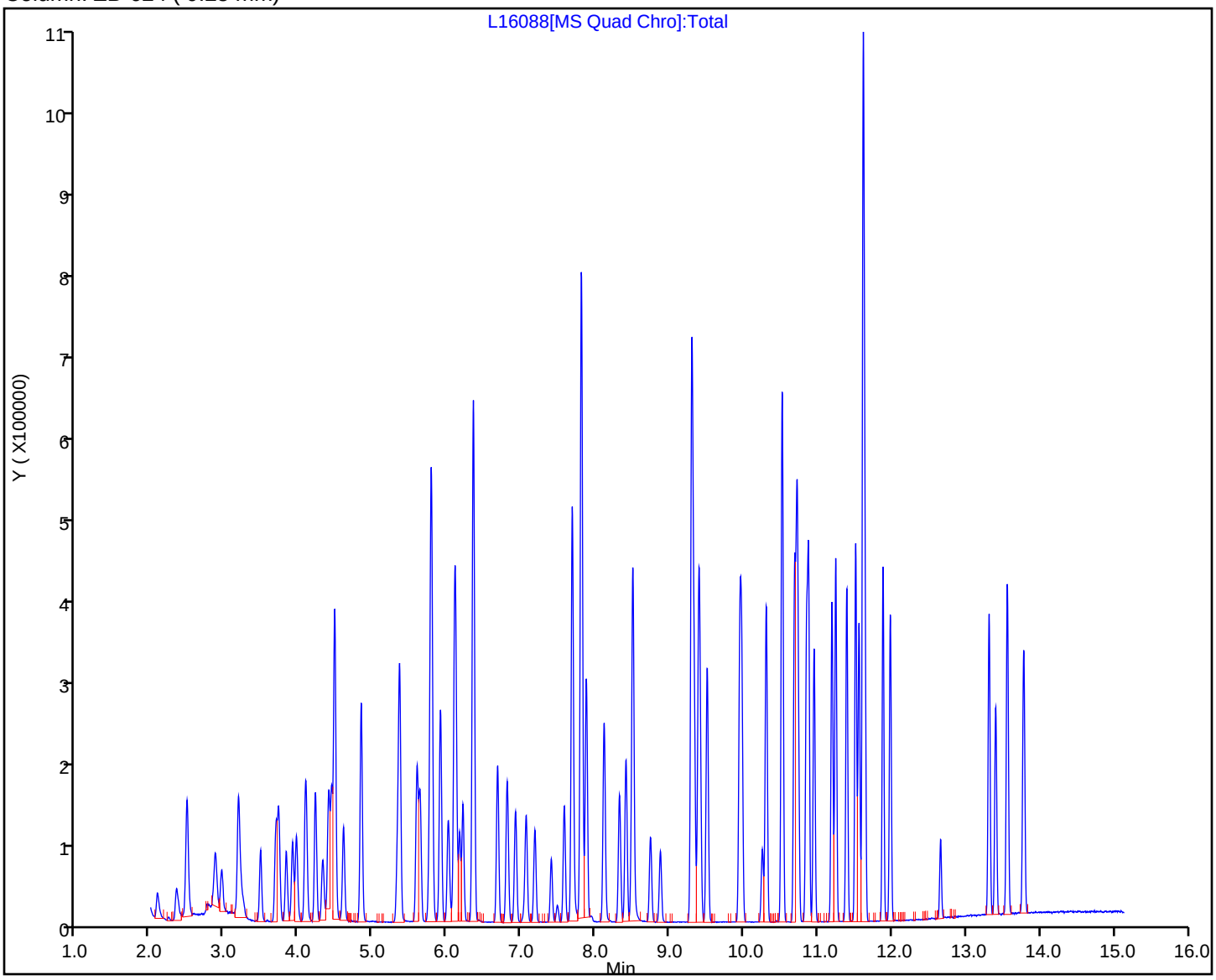
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 12

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

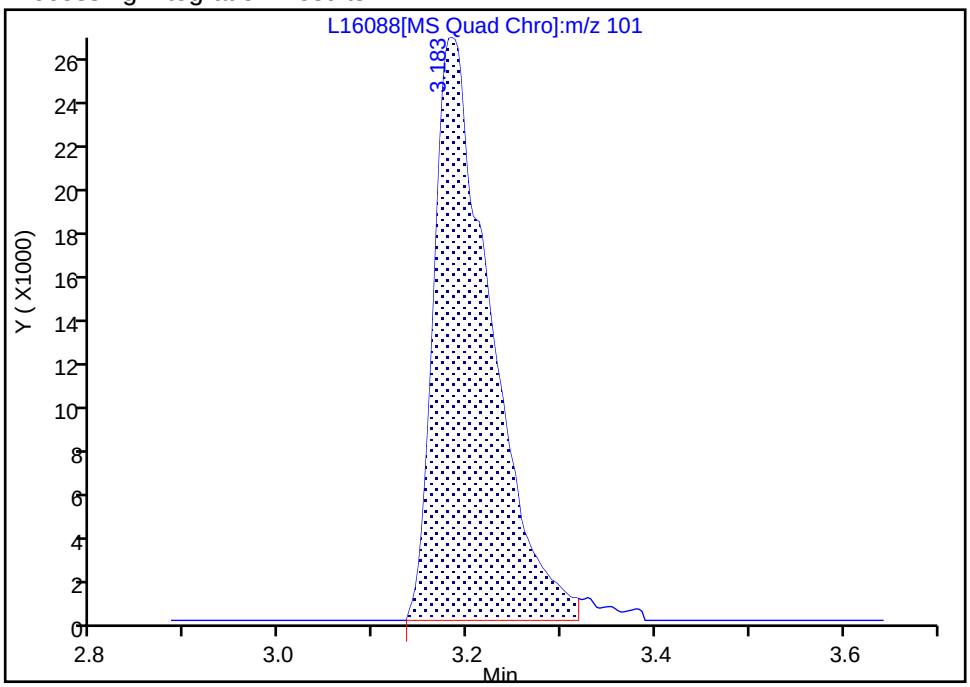
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16088.D
Injection Date: 08-Dec-2021 17:42:35 Instrument ID: HP5977L
Lims ID: IC 4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

21 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

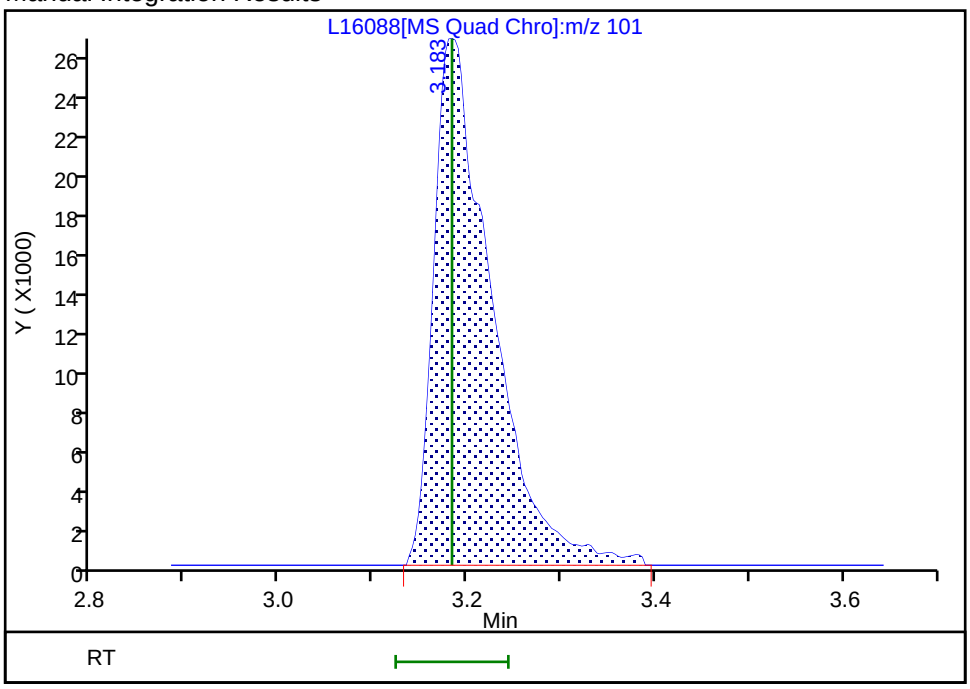
Processing Integration Results

RT: 3.18
Area: 110243
Amount: 10.211985
Amount Units: ug/L



Manual Integration Results

RT: 3.18
Area: 112701
Amount: 9.333352
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:04:39
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

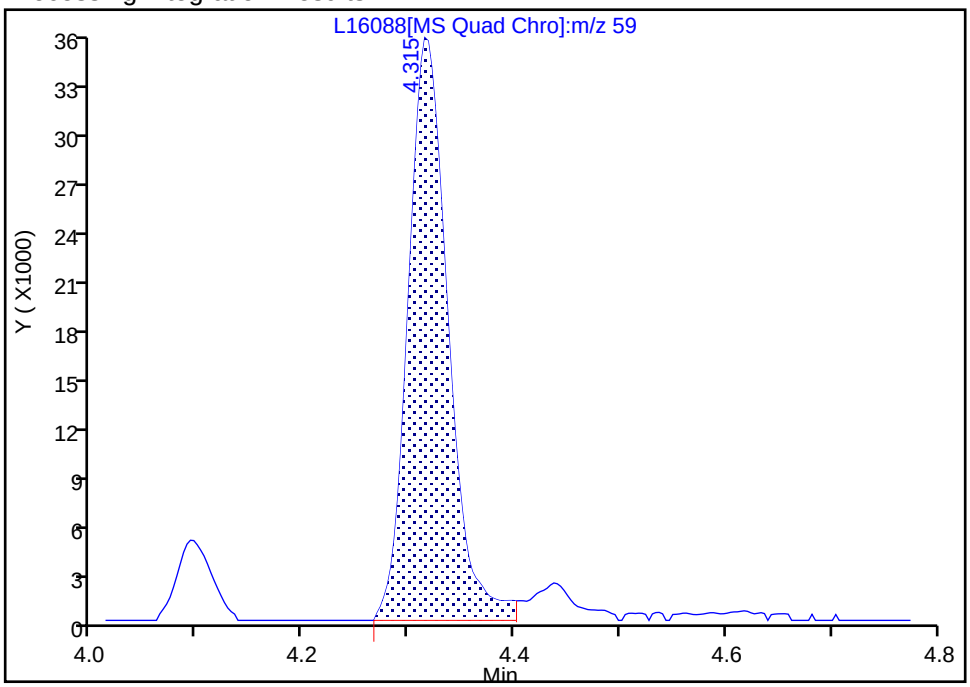
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16088.D
Injection Date: 08-Dec-2021 17:42:35 Instrument ID: HP5977L
Lims ID: IC 4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

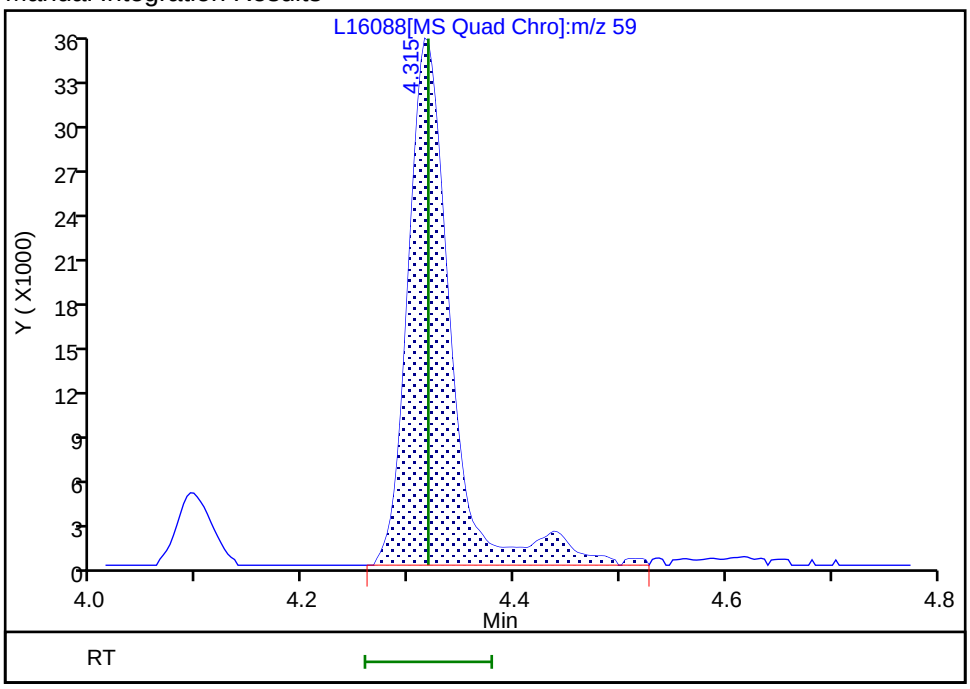
Processing Integration Results

RT: 4.31
Area: 93984
Amount: 88.208958
Amount Units: ug/L



Manual Integration Results

RT: 4.31
Area: 101267
Amount: 92.515860
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:53:04
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

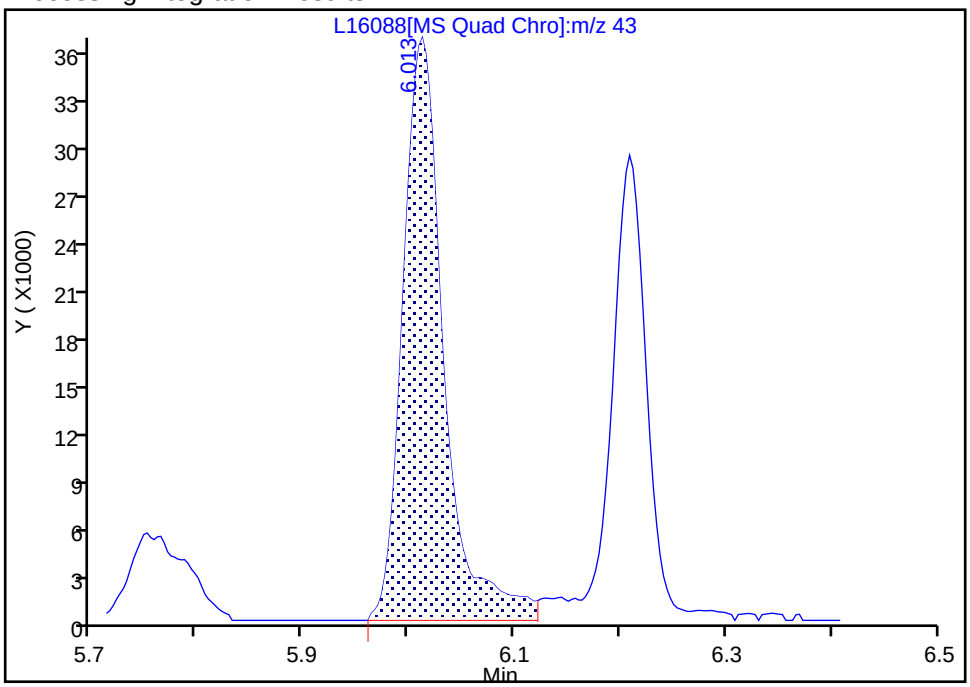
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16088.D
Injection Date: 08-Dec-2021 17:42:35 Instrument ID: HP5977L
Lims ID: IC 4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

69 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

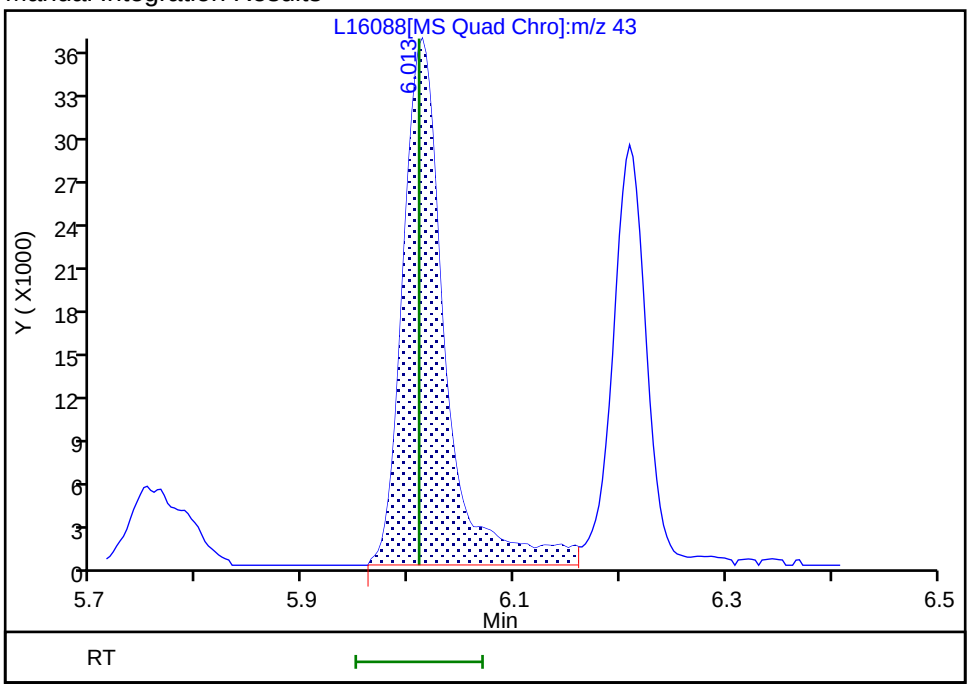
Processing Integration Results

RT: 6.01
Area: 97599
Amount: 228.1627
Amount Units: ug/L



Manual Integration Results

RT: 6.01
Area: 100471
Amount: 232.2306
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:06:01
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

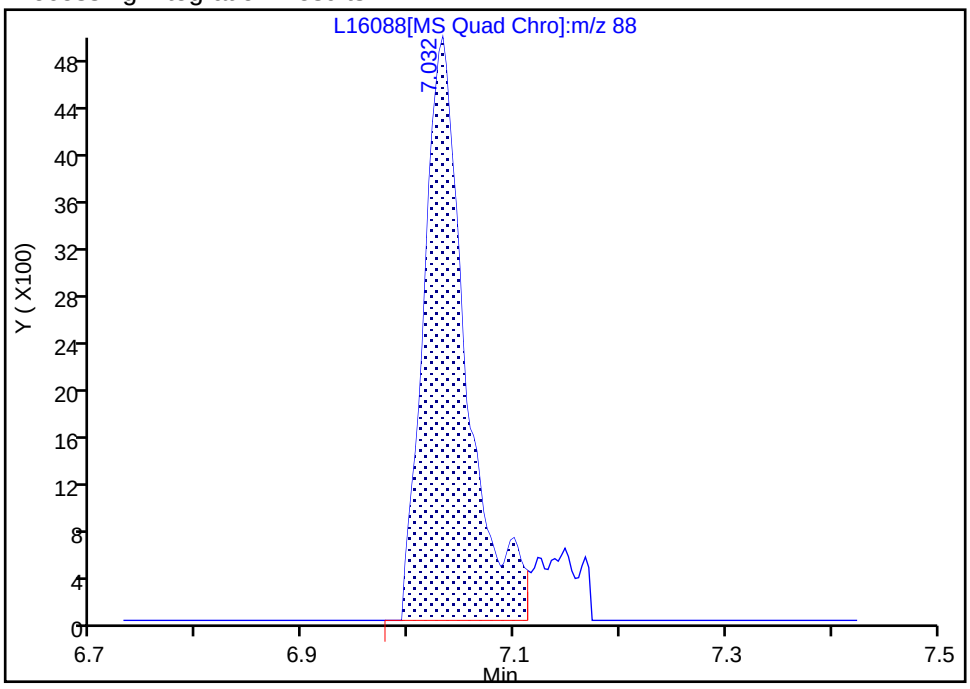
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16088.D
Injection Date: 08-Dec-2021 17:42:35 Instrument ID: HP5977L
Lims ID: IC 4
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

81 1,4-Dioxane, CAS: 123-91-1

Signal: 1

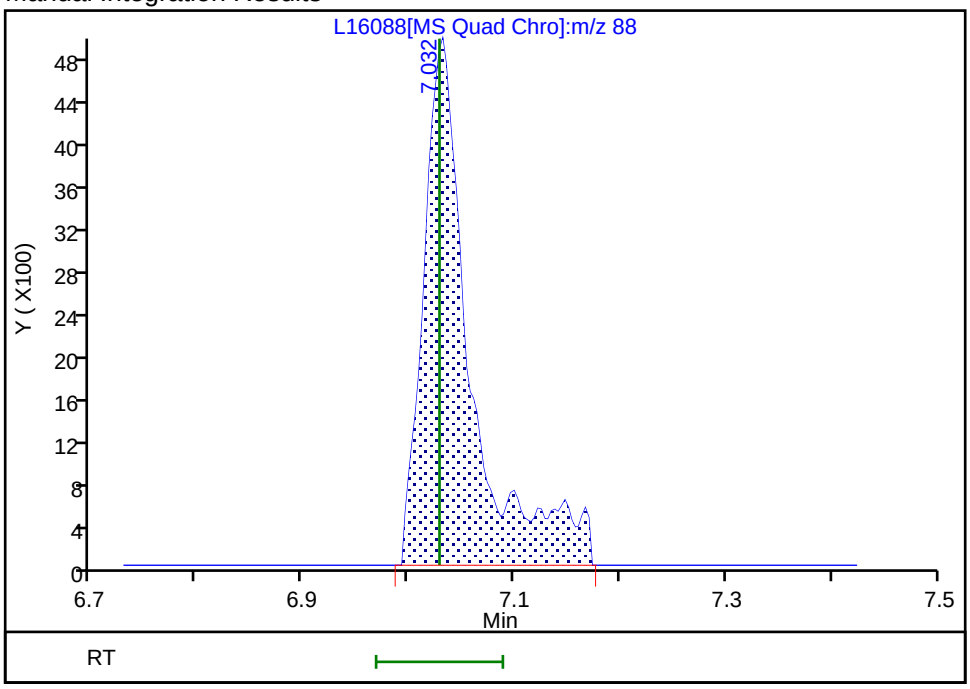
Processing Integration Results

RT: 7.03
Area: 13847
Amount: 182.8565
Amount Units: ug/L



Manual Integration Results

RT: 7.03
Area: 15523
Amount: 191.7686
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 12:06:10
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16089.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 08-Dec-2021 18:04:28 ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0102927-013
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:46 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 10:25:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	126368	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	590112	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	92	375982	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.785	5.785	0.000	93	213579	25.0	24.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	98	216043	25.0	24.5	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	93	696601	25.0	24.5	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	93	268547	25.0	24.7	
10 Dichlorodifluoromethane	85	2.090	2.090	0.000	99	171495	25.0	23.7	
13 Chloromethane	50	2.347	2.347	0.000	99	172698	25.0	24.1	M
14 Vinyl chloride	62	2.476	2.476	0.000	98	198074	25.0	25.6	
15 Butadiene	54	2.492	2.492	0.000	91	181017	25.0	26.4	
18 Bromomethane	94	2.878	2.878	0.000	92	197367	25.0	25.1	M
19 Chloroethane	64	2.955	2.955	0.000	99	149396	25.0	24.2	
21 Trichlorofluoromethane	101	3.183	3.183	0.000	95	312552	25.0	24.0	
20 Dichlorofluoromethane	67	3.187	3.187	0.000	96	300853	25.0	23.8	
26 Ethyl ether	59	3.479	3.479	0.000	88	140381	25.0	22.9	
28 Acrolein	56	3.678	3.678	0.000	100	140421	125.0	118.3	
29 112TCTFE	101	3.704	3.704	0.000	90	172883	25.0	29.9	
30 1,1-Dichloroethene	96	3.730	3.730	0.000	96	159162	25.0	26.2	
31 Acetone	43	3.826	3.826	0.000	100	340016	125.0	123.4	
33 Iodomethane	142	3.913	3.913	0.000	100	347479	25.0	24.1	
35 Carbon disulfide	76	3.965	3.965	0.000	99	513145	25.0	25.6	
37 3-Chloro-1-propene	41	4.080	4.080	0.000	86	213426	25.0	23.9	
38 Methyl acetate	43	4.100	4.100	0.000	97	326667	50.0	47.3	
39 Methylene Chloride	84	4.222	4.222	0.000	87	200075	25.0	23.9	
40 2-Methyl-2-propanol	59	4.318	4.318	0.000	97	292330	250.0	259.4	M
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	94	492071	25.0	24.1	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	94	195615	25.0	24.6	
44 Acrylonitrile	53	4.479	4.479	0.000	99	867289	250.0	239.3	
47 Hexane	57	4.598	4.598	0.000	91	209273	25.0	29.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	96	287840	25.0	24.2	
49 Vinyl acetate	43	4.836	4.836	0.000	97	711462	50.0	51.0	
56 2,2-Dichloropropane	77	5.331	5.331	0.000	91	199187	25.0	25.1	
57 2-Butanone (MEK)	43	5.357	5.357	0.000	99	539142	125.0	124.8	
58 cis-1,2-Dichloroethene	96	5.357	5.357	0.000	85	212555	25.0	24.4	
60 Chlorobromomethane	128	5.585	5.585	0.000	83	124933	25.0	24.7	
61 Tetrahydrofuran	42	5.601	5.601	0.000	89	143876	50.0	50.1	
62 Chloroform	83	5.630	5.630	0.000	93	332269	25.0	23.2	
64 1,1,1-Trichloroethane	97	5.772	5.772	0.000	97	298359	25.0	26.3	
65 Cyclohexane	56	5.791	5.791	0.000	87	243053	25.0	29.8	
66 Carbon tetrachloride	117	5.907	5.907	0.000	96	270958	25.0	27.0	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	96	232876	25.0	26.7	
69 Isobutyl alcohol	43	6.010	6.010	0.000	90	295488	625.0	663.5	
70 Benzene	78	6.113	6.113	0.000	97	668155	25.0	24.4	
72 1,2-Dichloroethane	62	6.167	6.167	0.000	97	245504	25.0	23.7	
73 n-Heptane	43	6.209	6.209	0.000	87	194722	25.0	28.1	
75 Trichloroethene	95	6.678	6.678	0.000	94	193243	25.0	25.0	
76 Methylcyclohexane	83	6.807	6.807	0.000	87	296071	25.0	29.0	
77 1,2-Dichloropropane	63	6.920	6.920	0.000	93	151633	25.0	25.0	
81 1,4-Dioxane	88	7.029	7.029	0.000	89	46298	500.0	546.9	
82 Dibromomethane	93	7.064	7.064	0.000	89	135254	25.0	24.5	
83 Dichlorobromomethane	83	7.180	7.180	0.000	98	237083	25.0	24.6	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	94	115954	25.0	25.6	
85 cis-1,3-Dichloropropene	75	7.579	7.579	0.000	96	267989	25.0	25.3	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.685	0.000	95	1085191	125.0	126.7	
88 Toluene	92	7.875	7.875	0.000	98	441443	25.0	24.0	
90 Ethyl methacrylate	69	8.109	8.109	0.000	88	233780	25.0	27.3	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	97	260512	25.0	26.0	
93 1,1,2-Trichloroethane	83	8.321	8.321	0.000	90	137478	25.0	24.4	
94 Tetrachloroethene	166	8.411	8.411	0.000	98	238489	25.0	26.0	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	96	278100	25.0	24.1	
96 2-Hexanone	43	8.505	8.505	0.000	95	749542	125.0	128.1	
98 Chlorodibromomethane	129	8.743	8.743	0.000	93	209981	25.0	25.6	
101 Ethylene Dibromide	107	8.875	8.875	0.000	98	202512	25.0	24.5	
103 Chlorobenzene	112	9.331	9.331	0.000	98	536478	25.0	24.0	
104 Ethylbenzene	91	9.392	9.392	0.000	97	838243	25.0	24.8	
105 1,1,1,2-Tetrachloroethane	131	9.411	9.411	0.000	95	217698	25.0	26.2	
106 m-Xylene & p-Xylene	106	9.508	9.508	0.000	98	344209	25.0	24.8	
107 o-Xylene	106	9.945	9.945	0.000	95	348275	25.0	25.0	
109 Styrene	104	9.971	9.971	0.000	94	576766	25.0	25.7	
110 Bromoform	173	10.251	10.251	0.000	97	162119	25.0	26.0	
111 Isopropylbenzene	105	10.302	10.302	0.000	95	911009	25.0	24.3	
112 1,1,2,2-Tetrachloroethane	83	10.682	10.682	0.000	97	276544	25.0	23.5	
113 Bromobenzene	156	10.688	10.688	0.000	85	264604	25.0	23.0	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	1019297	25.0	24.4	
115 trans-1,4-Dichloro-2-butene	53	10.727	10.727	0.000	76	73938	25.0	24.7	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	87	101758	25.0	23.4	
117 2-Chlorotoluene	126	10.846	10.846	0.000	98	238130	25.0	24.1	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	772899	25.0	23.9	
119 4-Chlorotoluene	91	10.948	10.948	0.000	96	619127	25.0	23.6	
120 tert-Butylbenzene	134	11.190	11.190	0.000	90	188282	25.0	24.6	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	807348	25.0	24.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.389	11.389	0.000	93	1004684	25.0	25.5	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	97	918978	25.0	25.1	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	98	514232	25.0	23.5	
126 1,4-Dichlorobenzene	146	11.636	11.636	0.000	97	518353	25.0	22.9	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	760057	25.0	24.8	
128 1,2-Dichlorobenzene	146	11.977	11.977	0.000	99	507837	25.0	23.0	
129 1,2-Dibromo-3-Chloropropane	75	12.656	12.656	0.000	92	62285	25.0	24.8	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	94	397540	25.0	23.7	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	98	180681	25.0	25.2	
132 Naphthalene	128	13.559	13.559	0.000	96	1135018	25.0	24.3	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	387013	25.0	24.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	12.50	Units: uL	
GAS CORP mix_00484	Amount Added:	12.50	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:47 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16089.D

Injection Date: 08-Dec-2021 18:04:28 Instrument ID: HP5977L

Lims ID: ICIS 5

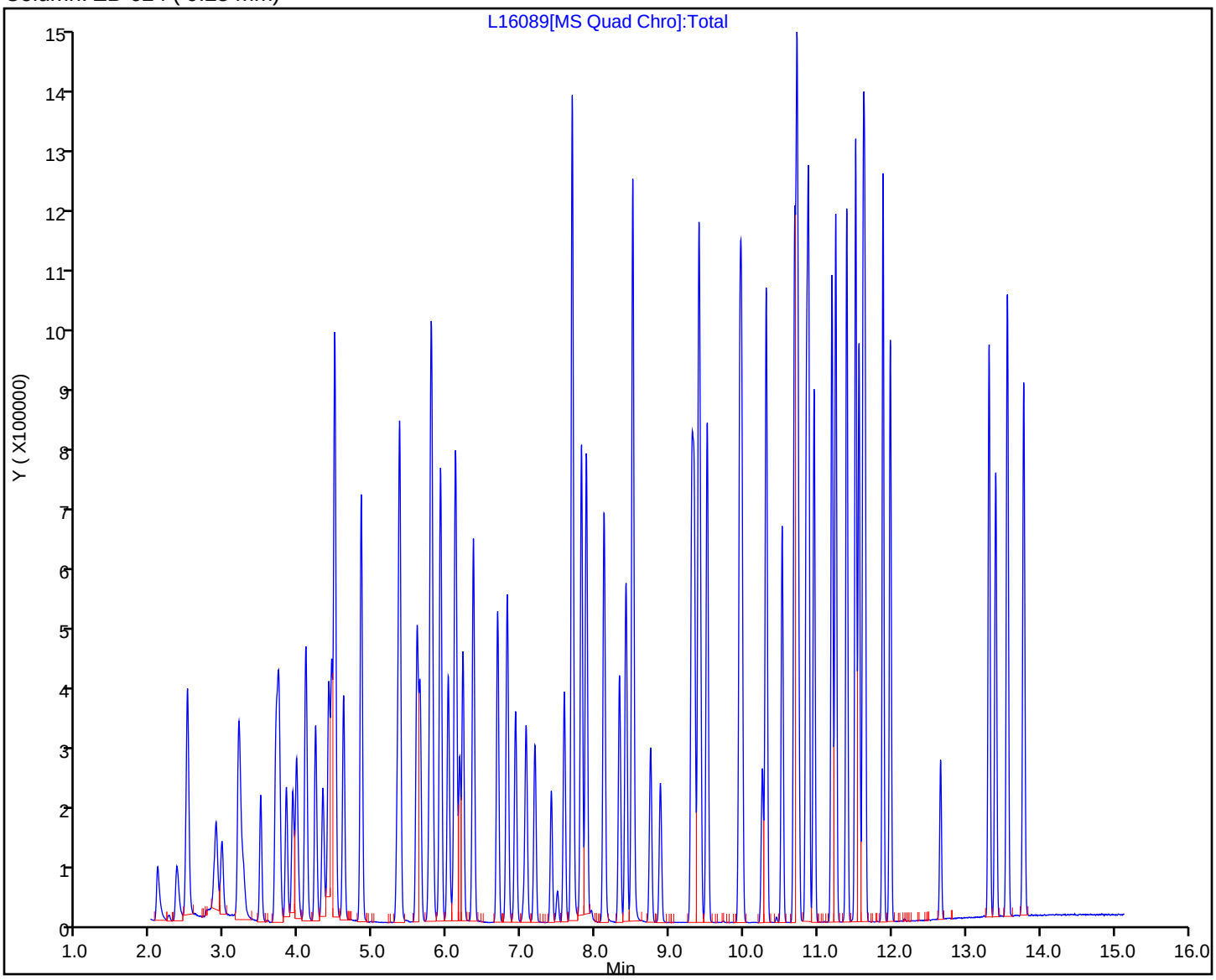
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 13

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

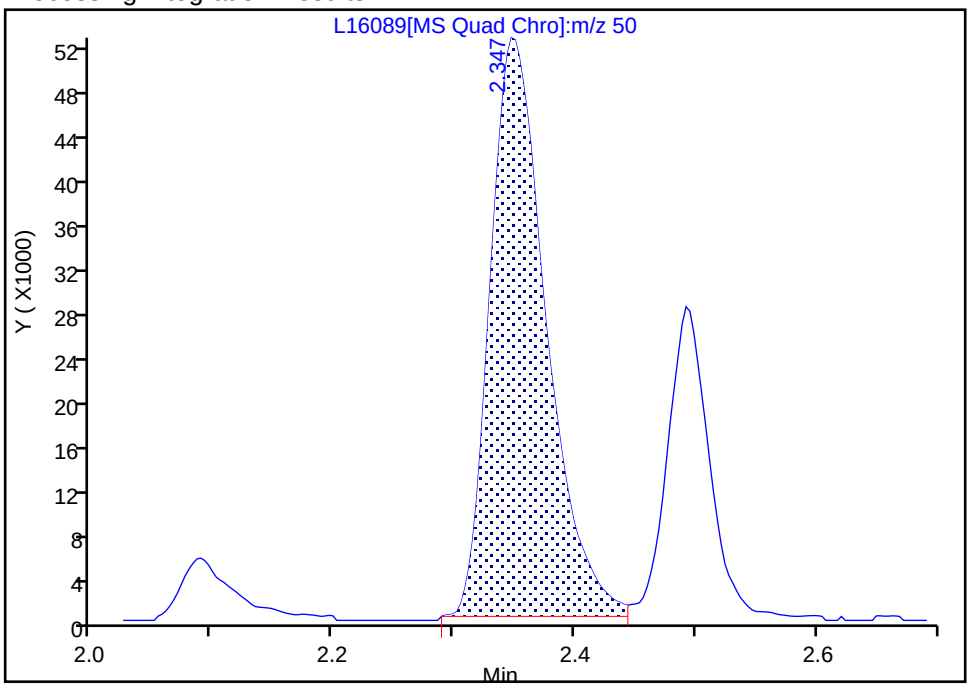
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16089.D
Injection Date: 08-Dec-2021 18:04:28 Instrument ID: HP5977L
Lims ID: ICIS 5
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

13 Chloromethane, CAS: 74-87-3

Signal: 1

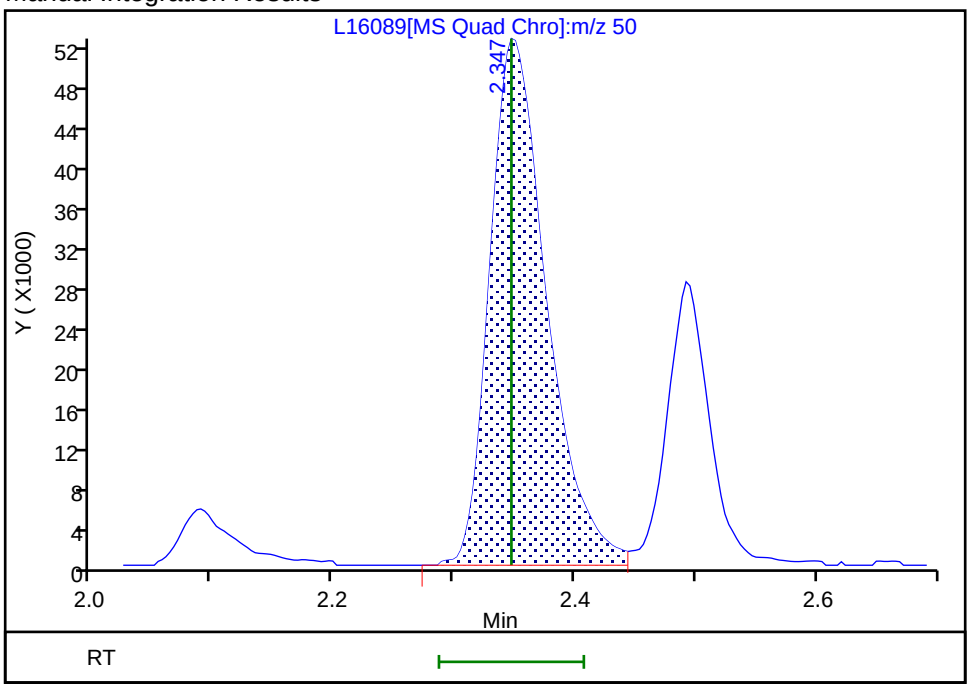
Processing Integration Results

RT: 2.35
Area: 169281
Amount: 23.716965
Amount Units: ug/L



Manual Integration Results

RT: 2.35
Area: 172698
Amount: 24.129691
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:33:03
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

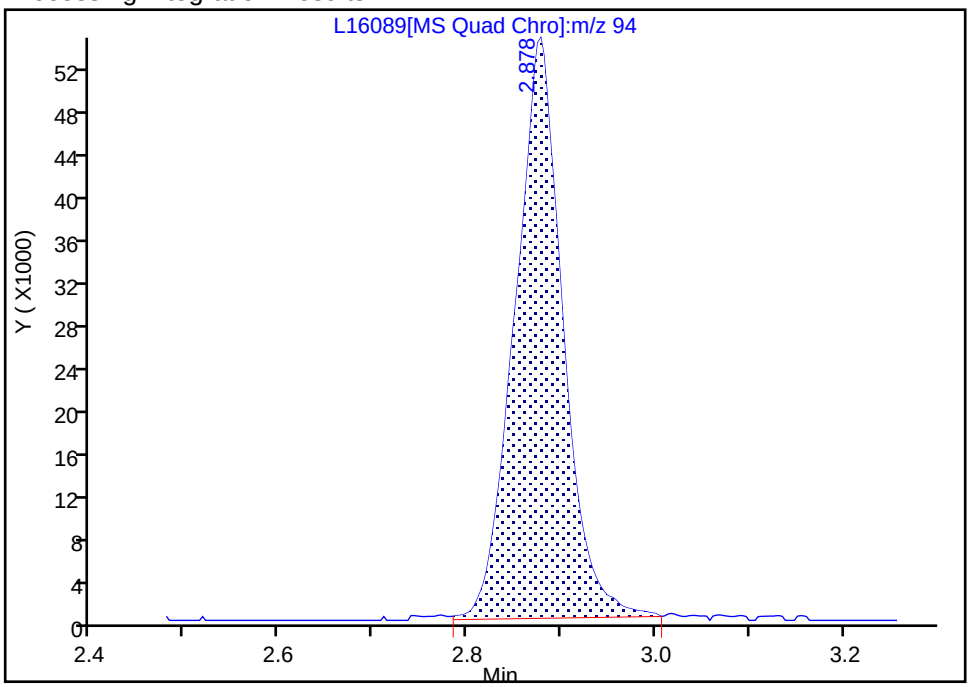
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16089.D
Injection Date: 08-Dec-2021 18:04:28 Instrument ID: HP5977L
Lims ID: ICIS 5
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

18 Bromomethane, CAS: 74-83-9

Signal: 1

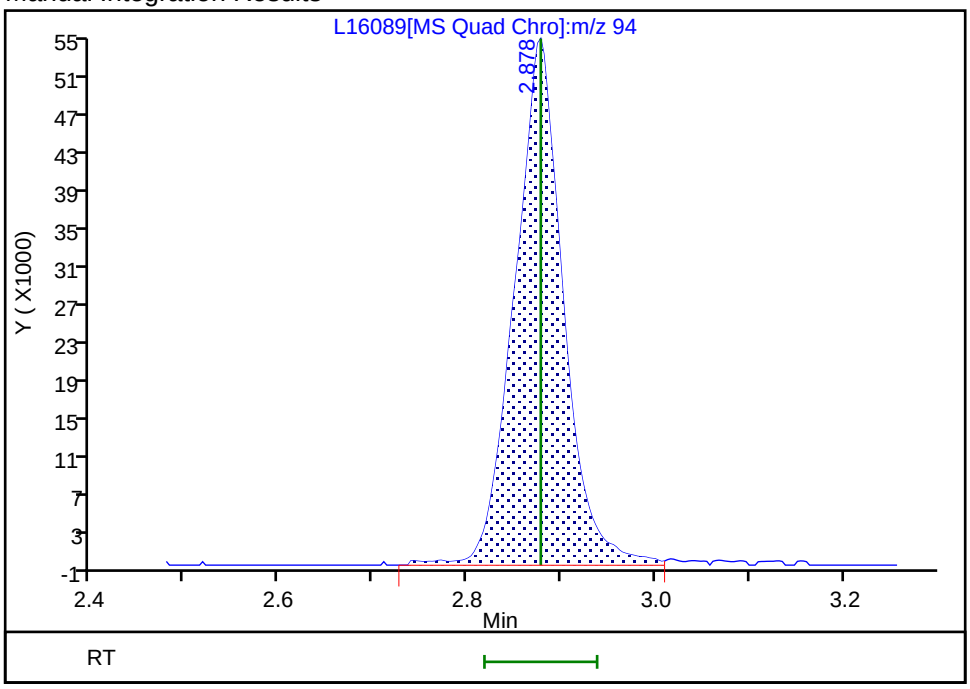
Processing Integration Results

RT: 2.88
Area: 193039
Amount: 22.932678
Amount Units: ug/L



Manual Integration Results

RT: 2.88
Area: 197367
Amount: 25.051688
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:33:35
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

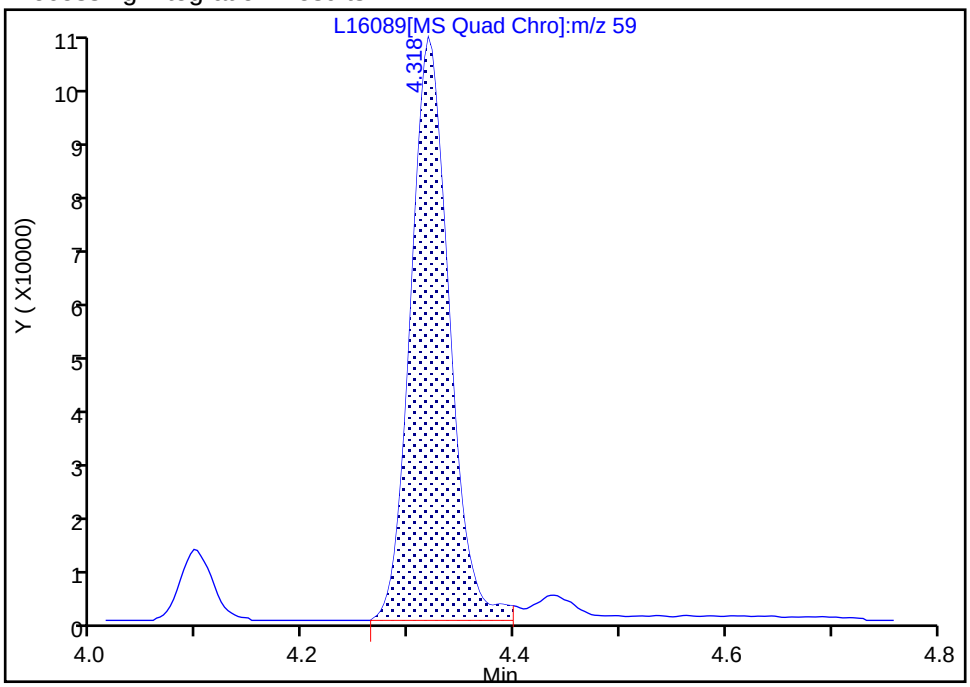
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16089.D
Injection Date: 08-Dec-2021 18:04:28 Instrument ID: HP5977L
Lims ID: ICIS 5
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

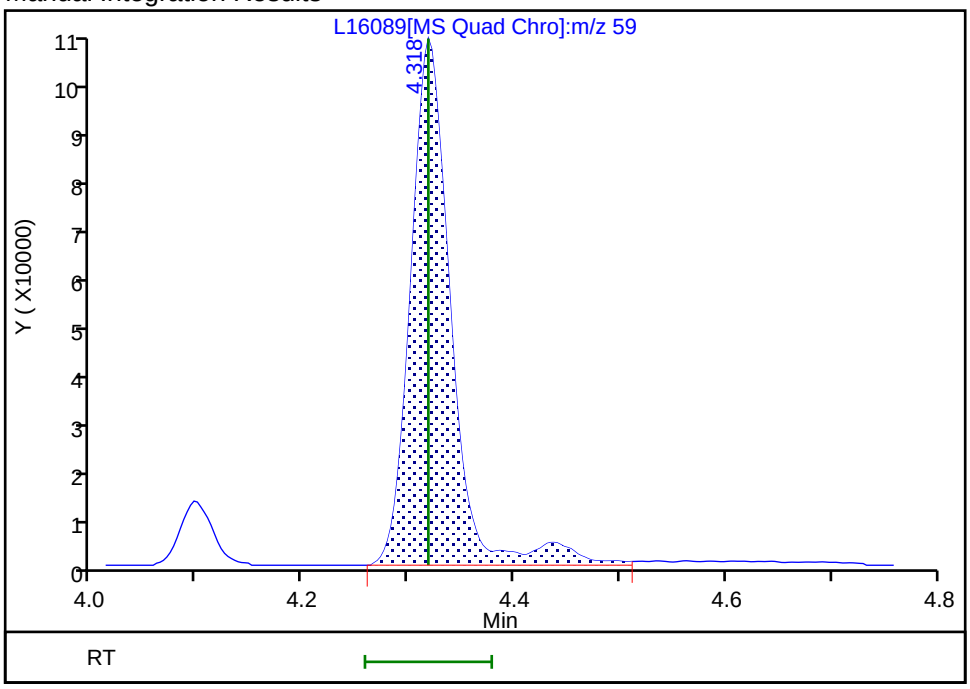
Processing Integration Results

RT: 4.32
Area: 276896
Amount: 256.0529
Amount Units: ug/L



Manual Integration Results

RT: 4.32
Area: 292330
Amount: 259.4469
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 10:34:10
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16090.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Dec-2021 18:25:51 ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0102927-014
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:51 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 11:01:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	129807	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	82	614723	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	92	389092	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	90	227304	25.0	25.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	94	222357	25.0	24.5	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	93	712680	25.0	24.0	
$ 7 4-Bromofluorobenzene (Surr)	174	10.517	10.518	-0.001	93	280297	25.0	24.7	
10 Dichlorodifluoromethane	85	2.087	2.090	-0.003	99	391553	50.0	51.8	
13 Chloromethane	50	2.344	2.347	-0.003	99	384163	50.0	52.3	
14 Vinyl chloride	62	2.472	2.476	-0.004	98	453789	50.0	57.2	
15 Butadiene	54	2.489	2.492	-0.003	92	409828	50.0	58.1	
18 Bromomethane	94	2.868	2.878	-0.010	93	473102	50.0	58.5	
19 Chloroethane	64	2.955	2.955	0.000	99	344892	50.0	54.3	
21 Trichlorofluoromethane	101	3.180	3.183	-0.003	61	713067	50.0	52.5	
20 Dichlorofluoromethane	67	3.180	3.187	-0.007	96	720344	50.0	55.5	
26 Ethyl ether	59	3.479	3.479	0.000	89	296295	50.0	47.1	
28 Acrolein	56	3.678	3.678	0.000	99	304111	250.0	249.4	
29 112TCTFE	101	3.697	3.704	-0.007	89	337454	50.0	56.8	
30 1,1-Dichloroethene	96	3.726	3.730	-0.004	95	336791	50.0	53.9	
31 Acetone	43	3.823	3.826	-0.003	100	679118	250.0	240.0	
33 Iodomethane	142	3.910	3.913	-0.003	99	758083	50.0	51.2	
35 Carbon disulfide	76	3.964	3.965	-0.001	99	1094564	50.0	53.2	
37 3-Chloro-1-propene	41	4.080	4.080	0.000	87	462923	50.0	50.4	
38 Methyl acetate	43	4.096	4.100	-0.004	96	689089	100.0	97.2	
39 Methylene Chloride	84	4.218	4.222	-0.004	86	415975	50.0	50.5	
40 2-Methyl-2-propanol	59	4.318	4.318	0.000	97	563023	500.0	486.5	M
41 Methyl tert-butyl ether	73	4.398	4.399	-0.001	94	1080760	50.0	51.6	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	93	415916	50.0	50.9	
44 Acrylonitrile	53	4.479	4.479	0.000	98	1803731	500.0	484.5	
47 Hexane	57	4.598	4.598	0.000	91	411549	50.0	55.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	95	624657	50.0	51.1	
49 Vinyl acetate	43	4.836	4.836	0.000	97	1571335	100.0	109.6	
56 2,2-Dichloropropane	77	5.331	5.331	0.000	90	453434	50.0	55.5	
57 2-Butanone (MEK)	43	5.357	5.357	0.000	100	1103055	250.0	248.6	
58 cis-1,2-Dichloroethene	96	5.353	5.357	-0.004	84	460187	50.0	51.5	
60 Chlorobromomethane	128	5.585	5.585	0.000	84	273293	50.0	52.6	
61 Tetrahydrofuran	42	5.598	5.601	-0.003	83	304562	100.0	103.2	
62 Chloroform	83	5.630	5.630	0.000	93	717239	50.0	48.7	
64 1,1,1-Trichloroethane	97	5.771	5.772	-0.001	97	634306	50.0	54.4	
65 Cyclohexane	56	5.791	5.791	0.000	86	488876	50.0	58.4	
66 Carbon tetrachloride	117	5.906	5.907	-0.001	96	578104	50.0	56.1	
67 1,1-Dichloropropene	75	5.906	5.907	-0.001	93	482996	50.0	54.0	
69 Isobutyl alcohol	43	6.009	6.010	-0.001	92	593865	1250.0	1298.2	
70 Benzene	78	6.112	6.113	0.000	96	1417541	50.0	50.3	
72 1,2-Dichloroethane	62	6.164	6.167	-0.003	98	523004	50.0	49.1	
73 n-Heptane	43	6.209	6.209	0.000	87	391011	50.0	54.9	
75 Trichloroethene	95	6.678	6.678	0.000	94	411926	50.0	51.9	
76 Methylcyclohexane	83	6.807	6.807	0.000	85	600899	50.0	57.2	
77 1,2-Dichloropropane	63	6.919	6.920	-0.001	93	322111	50.0	51.7	
81 1,4-Dioxane	88	7.032	7.029	0.003	89	87300	1000.0	989.9	
82 Dibromomethane	93	7.061	7.064	-0.003	89	284321	50.0	50.1	
83 Dichlorobromomethane	83	7.180	7.180	0.000	99	523747	50.0	53.0	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	93	247452	50.0	53.2	
85 cis-1,3-Dichloropropene	75	7.578	7.579	-0.001	95	592031	50.0	54.5	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.685	0.000	95	2341970	250.0	262.5	
88 Toluene	92	7.874	7.875	-0.001	98	955518	50.0	49.8	
90 Ethyl methacrylate	69	8.109	8.109	0.000	86	515385	50.0	57.7	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	96	566961	50.0	54.3	
93 1,1,2-Trichloroethane	83	8.321	8.321	0.000	91	296845	50.0	50.5	
94 Tetrachloroethene	166	8.411	8.411	0.000	98	505886	50.0	52.9	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	96	583952	50.0	48.6	
96 2-Hexanone	43	8.504	8.505	-0.001	96	1611969	250.0	264.5	
98 Chlorodibromomethane	129	8.742	8.743	-0.001	89	472429	50.0	55.2	
101 Ethylene Dibromide	107	8.874	8.875	0.000	99	434494	50.0	50.4	
103 Chlorobenzene	112	9.331	9.331	0.000	98	1161917	50.0	50.0	
104 Ethylbenzene	91	9.392	9.392	0.000	97	1803711	50.0	51.3	
105 1,1,1,2-Tetrachloroethane	131	9.411	9.411	0.000	95	478617	50.0	55.2	
106 m-Xylene & p-Xylene	106	9.508	9.508	0.000	97	750219	50.0	52.0	
107 o-Xylene	106	9.948	9.945	0.003	95	760907	50.0	52.5	
109 Styrene	104	9.971	9.971	0.000	95	1270103	50.0	54.3	
110 Bromoform	173	10.250	10.251	-0.001	98	385565	50.0	59.3	
111 Isopropylbenzene	105	10.305	10.302	0.003	95	2000331	50.0	51.6	
112 1,1,2,2-Tetrachloroethane	83	10.684	10.682	0.002	97	589538	50.0	48.4	
113 Bromobenzene	156	10.688	10.688	0.000	92	585398	50.0	49.1	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	2222923	50.0	51.3	
115 trans-1,4-Dichloro-2-butene	53	10.723	10.727	-0.004	77	166720	50.0	53.9	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	86	219371	50.0	48.7	
117 2-Chlorotoluene	126	10.848	10.846	0.002	98	516833	50.0	50.5	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	1687287	50.0	50.4	
119 4-Chlorotoluene	91	10.948	10.948	0.000	96	1335365	50.0	49.1	
120 tert-Butylbenzene	134	11.189	11.190	-0.001	90	413424	50.0	52.2	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	97	1756563	50.0	51.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.392	11.389	0.003	93	2150338	50.0	52.7	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	96	1989154	50.0	52.6	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	98	1100127	50.0	48.5	
126 1,4-Dichlorobenzene	146	11.636	11.636	0.000	97	1123422	50.0	47.9	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	1653316	50.0	52.2	
128 1,2-Dichlorobenzene	146	11.980	11.977	0.003	99	1093310	50.0	47.9	
129 1,2-Dibromo-3-Chloropropane	75	12.655	12.656	-0.001	93	142150	50.0	54.7	
130 1,2,4-Trichlorobenzene	180	13.311	13.312	-0.001	94	855387	50.0	49.3	
131 Hexachlorobutadiene	225	13.401	13.402	-0.001	98	382465	50.0	51.6	
132 Naphthalene	128	13.559	13.559	0.000	96	2435249	50.0	50.5	
133 1,2,3-Trichlorobenzene	180	13.781	13.778	0.003	96	821050	50.0	49.3	
S 142 Total BTEX	1				0			255.9	
S 144 1,3-Dichloropropene, Total	1				0			108.8	
S 141 1,2-Dichloroethene, Total	1				0			102.4	
S 143 Xylenes, Total	1				0			104.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	25.00	Units: uL	
GAS CORP mix_00484	Amount Added:	25.00	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 15:59:52 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16090.D

Injection Date: 08-Dec-2021 18:25:51 Instrument ID: HP5977L

Lims ID: IC 6

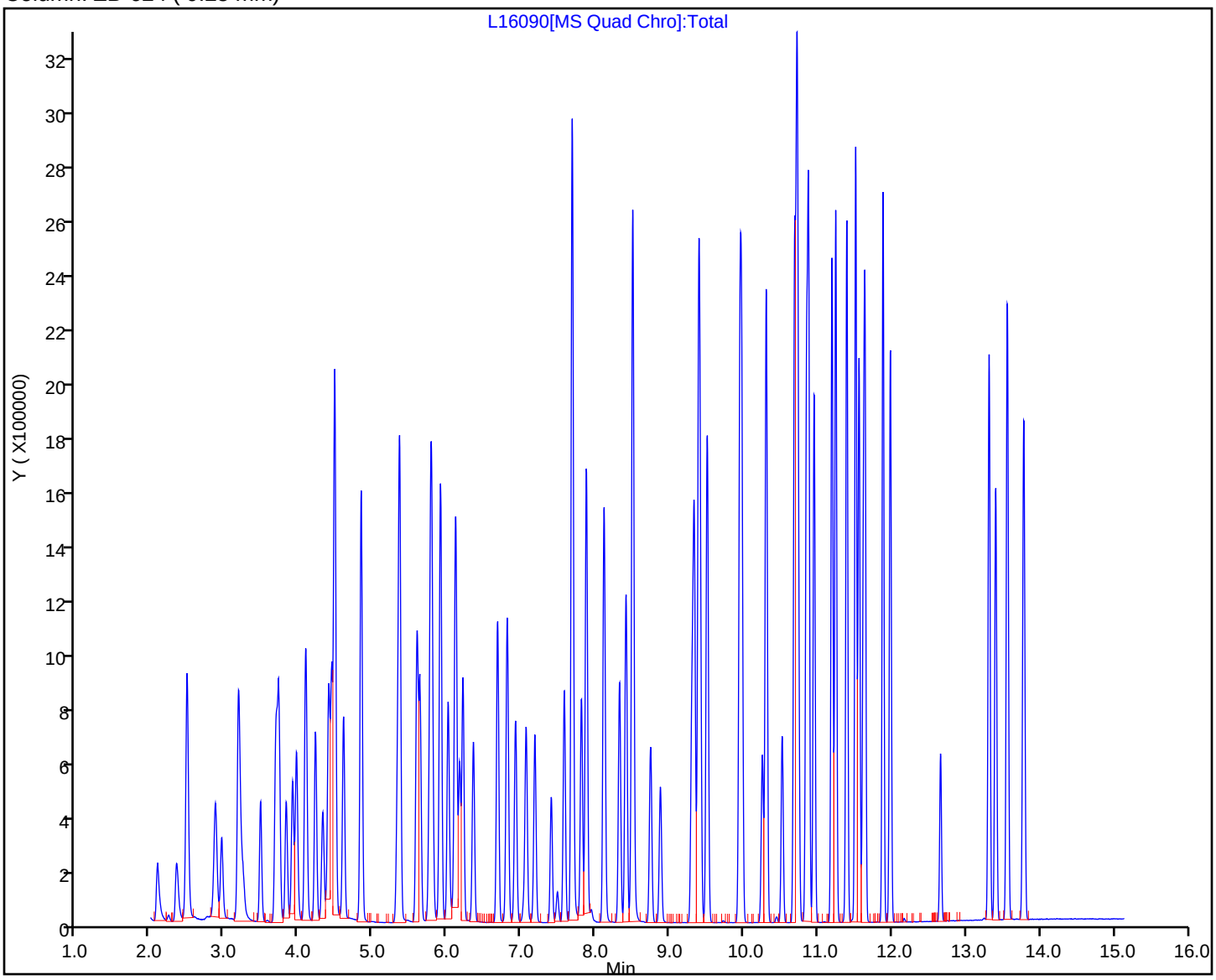
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 14

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

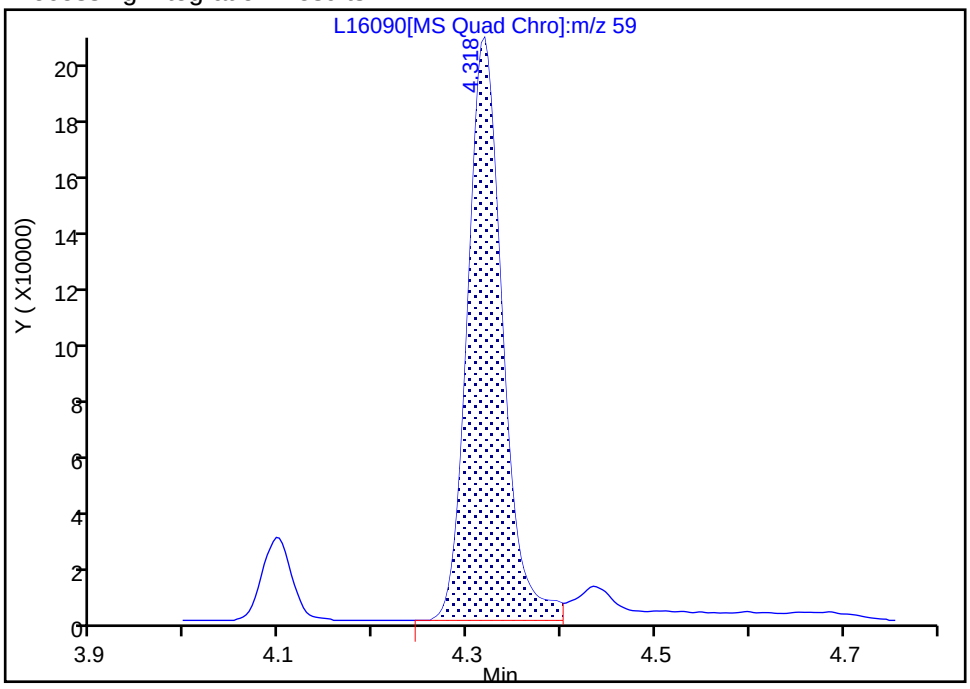
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16090.D
Injection Date: 08-Dec-2021 18:25:51 Instrument ID: HP5977L
Lims ID: IC 6
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

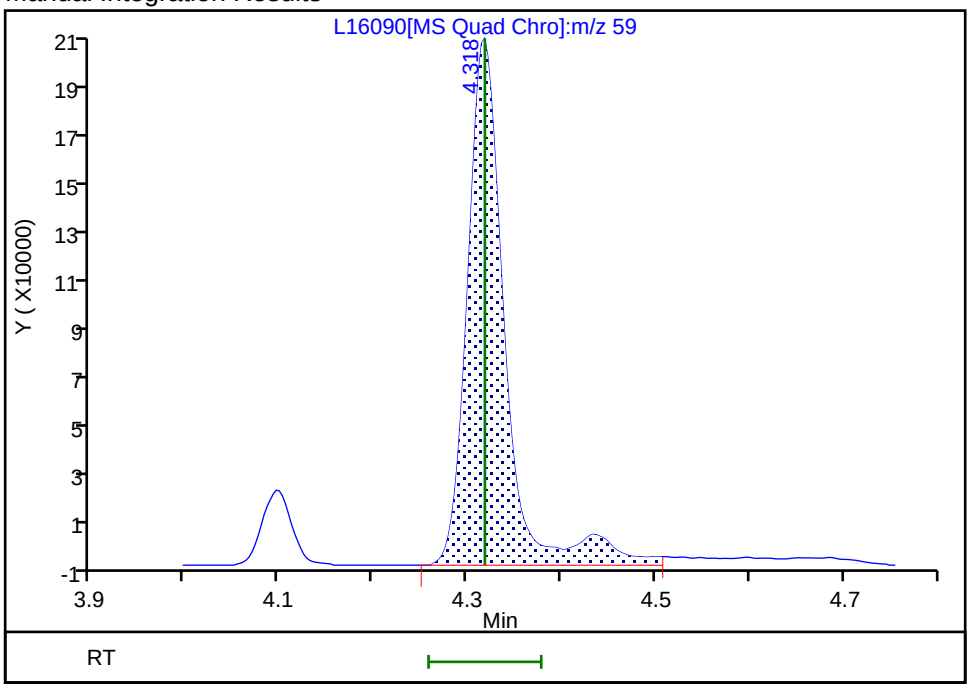
Processing Integration Results

RT: 4.32
Area: 521686
Amount: 459.1333
Amount Units: ug/L



Manual Integration Results

RT: 4.32
Area: 563023
Amount: 486.4523
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 11:00:31
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16091.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 08-Dec-2021 18:47:41 ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0102927-015
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 15:59:56 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kiwana Date: 09-Dec-2021 11:02:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	132241	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	82	624818	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	92	376113	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.785	5.785	0.000	92	227988	25.0	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.093	6.096	-0.003	96	229503	25.0	24.9	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	92	754204	25.0	25.0	
$ 7 4-Bromofluorobenzene (Surr)	174	10.521	10.518	0.003	92	304901	25.0	26.5	
10 Dichlorodifluoromethane	85	2.087	2.090	-0.003	99	784419	100.0	101.1	
13 Chloromethane	50	2.347	2.347	0.000	99	736687	100.0	98.4	
14 Vinyl chloride	62	2.476	2.476	0.000	98	866811	100.0	107.3	
15 Butadiene	54	2.492	2.492	0.000	94	792550	100.0	110.3	
18 Bromomethane	94	2.875	2.878	-0.003	92	866603	100.0	105.1	
19 Chloroethane	64	2.952	2.955	-0.003	99	645715	100.0	99.7	
21 Trichlorofluoromethane	101	3.183	3.183	0.000	98	1385169	100.0	99.5	
20 Dichlorofluoromethane	67	3.187	3.187	0.000	97	1323029	100.0	100.1	
26 Ethyl ether	59	3.479	3.479	0.000	89	602938	100.0	94.0	
28 Acrolein	56	3.679	3.678	0.001	99	653850	500.0	526.4	
29 112TCTFE	101	3.698	3.704	-0.006	89	727236	100.0	120.2	
30 1,1-Dichloroethene	96	3.727	3.730	-0.003	95	701425	100.0	110.2	
31 Acetone	43	3.823	3.826	-0.003	100	1488181	500.0	516.3	
33 Iodomethane	142	3.913	3.913	0.000	99	1533324	100.0	101.7	
35 Carbon disulfide	76	3.965	3.965	0.000	99	2229126	100.0	106.3	
37 3-Chloro-1-propene	41	4.080	4.080	0.000	86	941129	100.0	100.7	
38 Methyl acetate	43	4.097	4.100	-0.003	96	1474701	200.0	204.1	
39 Methylene Chloride	84	4.219	4.222	-0.003	86	826407	100.0	100.5	
40 2-Methyl-2-propanol	59	4.318	4.318	0.000	98	1375660	1000.0	1166.7	M
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	94	2288927	100.0	107.2	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	93	836106	100.0	100.5	
44 Acrylonitrile	53	4.479	4.479	0.000	98	3798780	1000.0	1001.6	
47 Hexane	57	4.598	4.598	0.000	92	900329	100.0	119.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	96	1274157	100.0	102.2	
49 Vinyl acetate	43	4.836	4.836	0.000	97	3428560	200.0	234.8	
56 2,2-Dichloropropane	77	5.328	5.331	-0.003	91	884244	100.0	106.3	
57 2-Butanone (MEK)	43	5.357	5.357	0.000	99	2466129	500.0	545.5	
58 cis-1,2-Dichloroethene	96	5.354	5.357	-0.003	84	935062	100.0	102.7	
60 Chlorobromomethane	128	5.585	5.585	0.000	81	557994	100.0	105.5	
61 Tetrahydrofuran	42	5.598	5.601	-0.003	83	663585	200.0	220.7	
62 Chloroform	83	5.630	5.630	0.000	93	1457218	100.0	97.1	
64 1,1,1-Trichloroethane	97	5.772	5.772	0.000	97	1292954	100.0	108.9	
65 Cyclohexane	56	5.791	5.791	0.000	86	1033414	100.0	121.2	
66 Carbon tetrachloride	117	5.907	5.907	0.000	96	1221142	100.0	116.4	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	93	1005326	100.0	110.3	
69 Isobutyl alcohol	43	6.010	6.010	0.000	92	1383356	2500.0	2968.3	
70 Benzene	78	6.113	6.113	0.001	96	2925086	100.0	101.9	
72 1,2-Dichloroethane	62	6.164	6.167	-0.003	97	1080365	100.0	99.5	
73 n-Heptane	43	6.209	6.209	0.000	87	856345	100.0	118.1	
75 Trichloroethene	95	6.675	6.678	-0.003	94	848448	100.0	104.9	
76 Methylcyclohexane	83	6.807	6.807	0.000	89	1265166	100.0	118.3	
77 1,2-Dichloropropane	63	6.920	6.920	0.000	93	679077	100.0	106.9	
81 1,4-Dioxane	88	7.032	7.029	0.003	89	200827	2000.0	2240.3	
82 Dibromomethane	93	7.061	7.064	-0.003	89	593618	100.0	102.7	
83 Dichlorobromomethane	83	7.180	7.180	0.000	99	1109502	100.0	110.2	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	94	541404	100.0	114.3	
85 cis-1,3-Dichloropropene	75	7.579	7.579	0.000	96	1268298	100.0	114.6	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.685	0.000	95	4964934	500.0	547.6	
88 Toluene	92	7.878	7.875	0.003	98	1987159	100.0	101.9	
90 Ethyl methacrylate	69	8.109	8.109	0.000	87	1132087	100.0	124.8	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	96	1249095	100.0	117.7	
93 1,1,2-Trichloroethane	83	8.321	8.321	0.000	90	631100	100.0	105.6	
94 Tetrachloroethene	166	8.412	8.411	0.001	98	1064349	100.0	109.5	
95 1,3-Dichloropropane	76	8.495	8.492	0.003	92	1243922	100.0	101.9	
96 2-Hexanone	43	8.505	8.505	0.000	95	3484749	500.0	562.5	
98 Chlorodibromomethane	129	8.743	8.743	0.000	91	1045138	100.0	120.2	
101 Ethylene Dibromide	107	8.875	8.875	0.001	99	927625	100.0	106.0	
103 Chlorobenzene	112	9.331	9.331	0.000	98	2428277	100.0	102.7	
104 Ethylbenzene	91	9.392	9.392	0.000	97	3729047	100.0	104.4	
105 1,1,1,2-Tetrachloroethane	131	9.412	9.411	0.001	95	1000789	100.0	113.6	
106 m-Xylene & p-Xylene	106	9.508	9.508	0.000	97	1545198	100.0	105.3	
107 o-Xylene	106	9.948	9.945	0.003	95	1557292	100.0	105.8	
109 Styrene	104	9.971	9.971	0.000	95	2643851	100.0	111.2	
110 Bromoform	173	10.251	10.251	0.000	98	858177	100.0	129.8	
111 Isopropylbenzene	105	10.305	10.302	0.003	95	4056525	100.0	108.2	
112 1,1,2,2-Tetrachloroethane	83	10.685	10.682	0.003	97	1241974	100.0	105.4	
113 Bromobenzene	156	10.688	10.688	0.000	91	1205009	100.0	104.6	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	4472638	100.0	106.8	
115 trans-1,4-Dichloro-2-butene	53	10.727	10.727	0.000	78	352807	100.0	118.0	
116 1,2,3-Trichloropropane	110	10.739	10.736	0.003	86	449453	100.0	103.1	
117 2-Chlorotoluene	126	10.846	10.846	0.000	98	1041789	100.0	105.2	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	3401389	100.0	105.2	
119 4-Chlorotoluene	91	10.952	10.948	0.004	97	2713135	100.0	103.2	
120 tert-Butylbenzene	134	11.193	11.190	0.003	91	843470	100.0	110.2	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	97	3509471	100.0	105.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.392	11.389	0.003	93	4357688	100.0	110.5	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	96	4037341	100.0	110.4	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	98	2246545	100.0	102.5	
126 1,4-Dichlorobenzene	146	11.637	11.636	0.001	97	2271838	100.0	100.3	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	3332084	100.0	108.9	
128 1,2-Dichlorobenzene	146	11.981	11.977	0.004	99	2215416	100.0	100.5	
129 1,2-Dibromo-3-Chloropropane	75	12.656	12.656	0.000	97	301654	100.0	120.1	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	94	1742151	100.0	103.9	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	98	795831	100.0	111.0	
132 Naphthalene	128	13.559	13.559	0.000	96	4932235	100.0	105.7	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	1660148	100.0	103.2	
S 142 Total BTEX	1				0			519.3	
S 144 1,3-Dichloropropene, Total	1				0			232.3	
S 141 1,2-Dichloroethene, Total	1				0			203.2	
S 143 Xylenes, Total	1				0			211.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	50.00	Units: uL	
GAS CORP mix_00484	Amount Added:	50.00	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

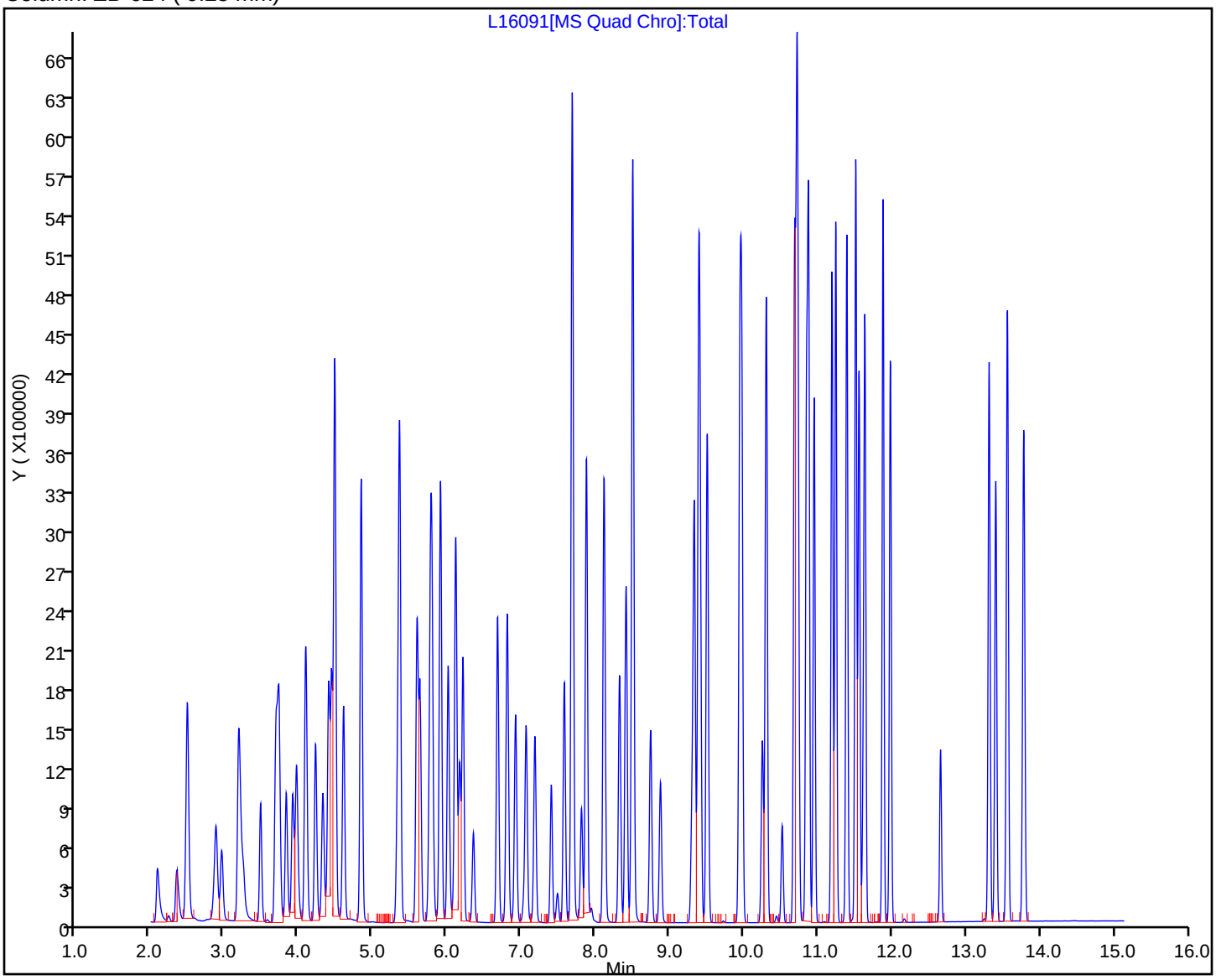
Report Date: 09-Dec-2021 15:59:56 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16091.D

Injection Date:	08-Dec-2021 18:47:41	Instrument ID:	HP5977L		
Lims ID:	IC 7				
Client ID:					
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

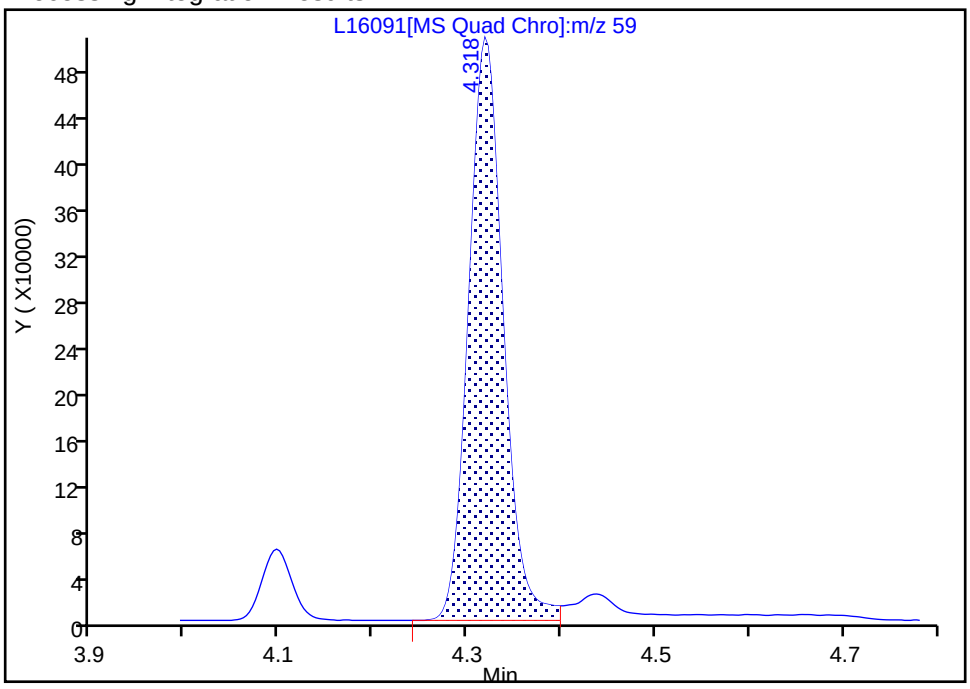
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16091.D				
Injection Date:	08-Dec-2021 18:47:41	Instrument ID:	HP5977L		
Lims ID:	IC 7				
Client ID:					
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

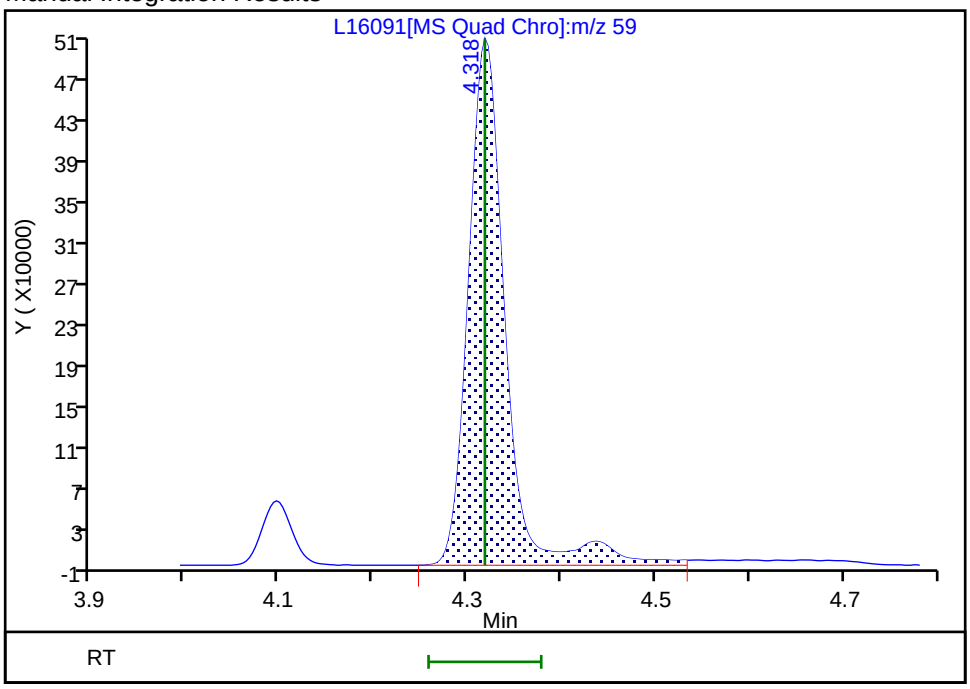
Processing Integration Results

RT: 4.32
Area: 1287384
Amount: 1102.1421
Amount Units: ug/L



Manual Integration Results

RT: 4.32
Area: 1375660
Amount: 1166.6946
Amount Units: ug/L



Reviewer: kiwana, 09-Dec-2021 11:01:57

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Calibration / Dichlorodifluoromethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

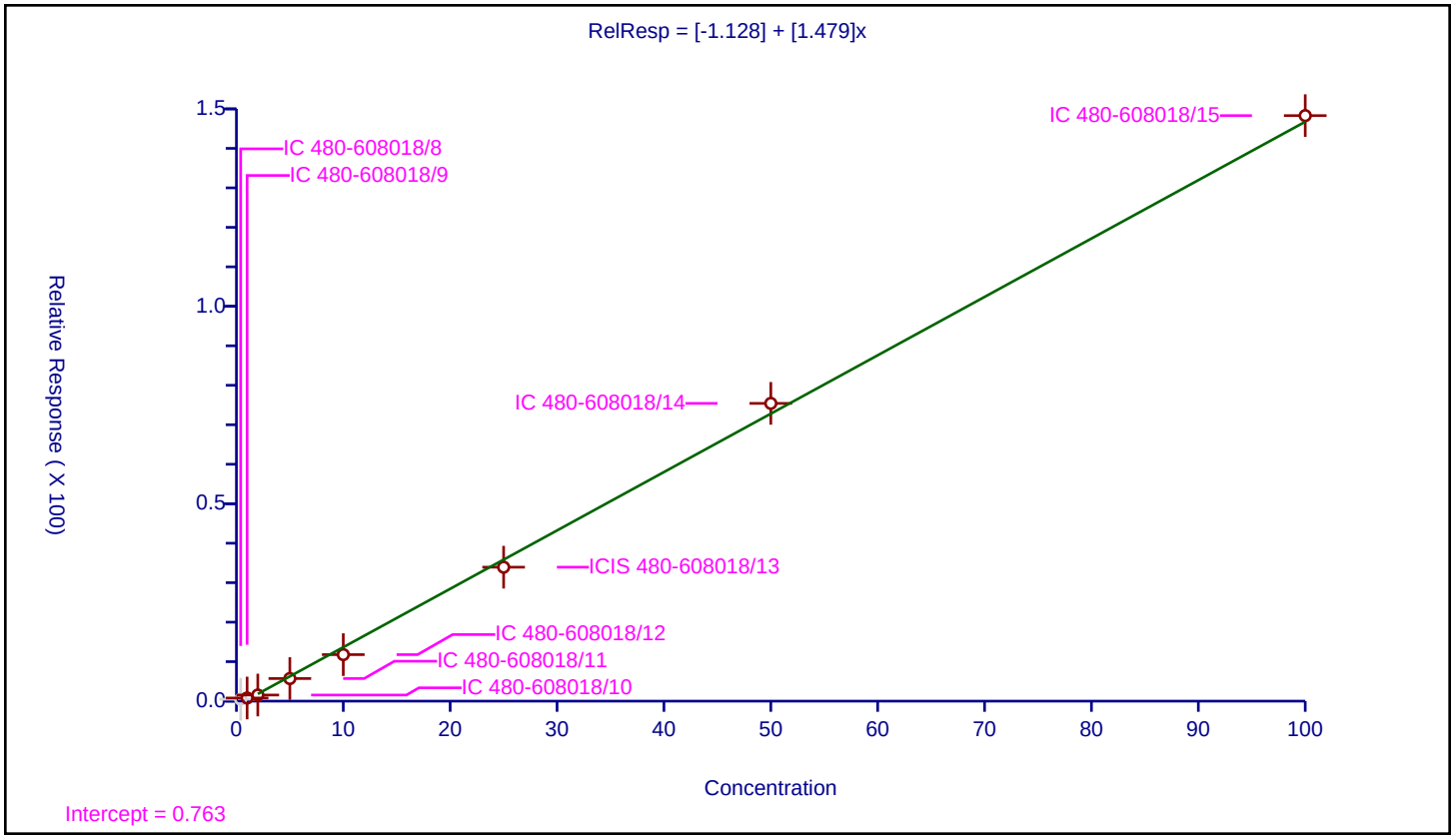
Curve Coefficients

Intercept:	-1.128
Slope:	1.479

Error Coefficients

Standard Error:	400000
Relative Standard Error:	15.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.489425	25.0	118864.0	1.223562	N
2	IC 480-608018/9	1.0	0.794853	25.0	120840.0	0.794853	Y
3	IC 480-608018/10	2.0	1.551189	25.0	121697.0	0.775594	Y
4	IC 480-608018/11	5.0	5.722612	25.0	124825.0	1.144522	Y
5	IC 480-608018/12	10.0	11.783166	25.0	122762.0	1.178317	Y
6	ICIS 480-608018/13	25.0	33.927695	25.0	126368.0	1.357108	Y
7	IC 480-608018/14	50.0	75.41061	25.0	129807.0	1.508212	Y
8	IC 480-608018/15	100.0	148.293457	25.0	132241.0	1.482935	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

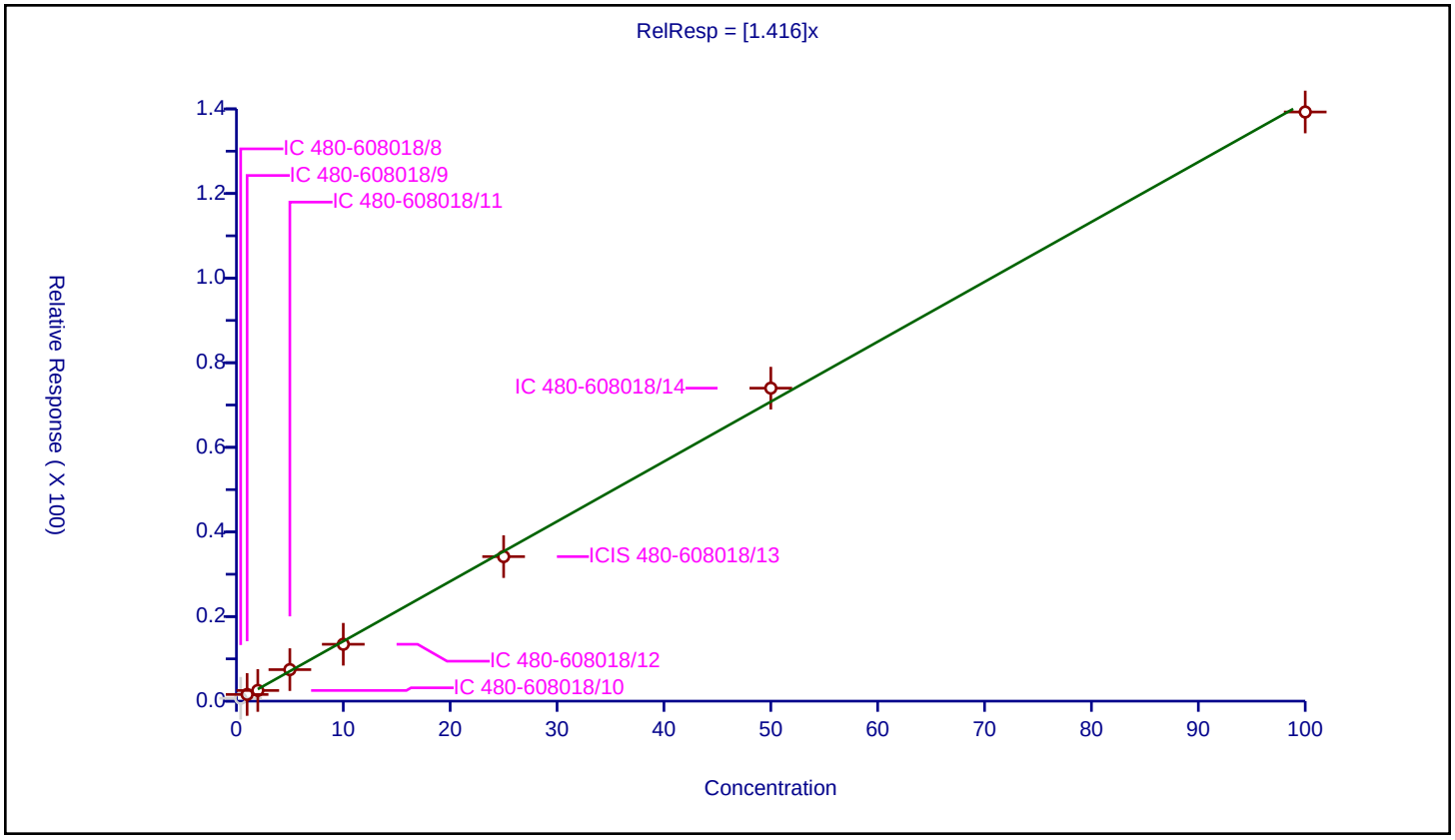
Curve Coefficients

Intercept:	0
Slope:	1.416

Error Coefficients

Standard Error:	348000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.679138	25.0	118864.0	1.697844	N
2	IC 480-608018/9	1.0	1.577706	25.0	120840.0	1.577706	Y
3	IC 480-608018/10	2.0	2.520604	25.0	121697.0	1.260302	Y
4	IC 480-608018/11	5.0	7.450631	25.0	124825.0	1.490126	Y
5	IC 480-608018/12	10.0	13.44227	25.0	122762.0	1.344227	Y
6	ICIS 480-608018/13	25.0	34.165691	25.0	126368.0	1.366628	Y
7	IC 480-608018/14	50.0	73.987343	25.0	129807.0	1.479747	Y
8	IC 480-608018/15	100.0	139.26978	25.0	132241.0	1.392698	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

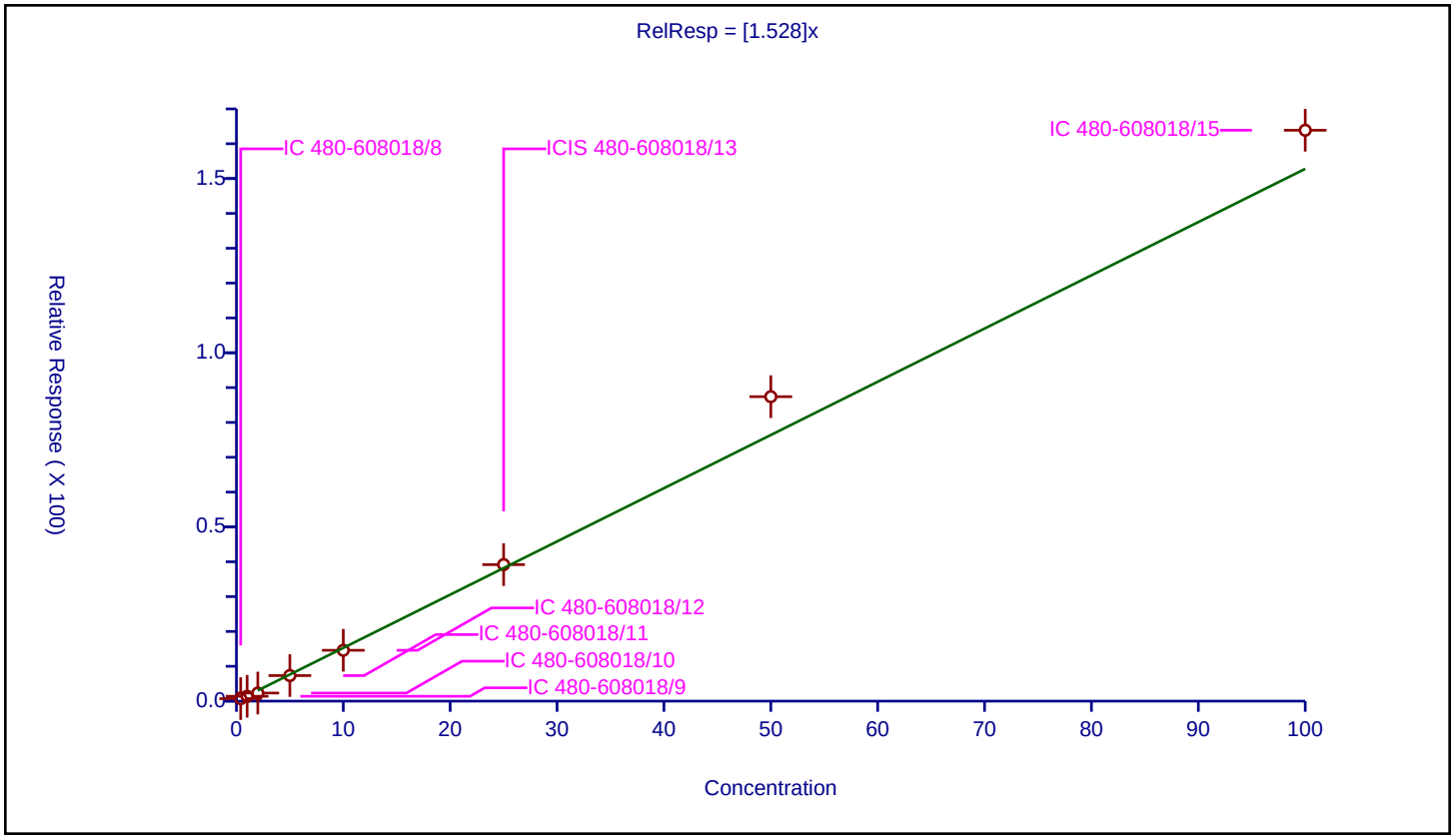
Curve Coefficients

Intercept:	0
Slope:	1.528

Error Coefficients

Standard Error:	378000
Relative Standard Error:	13.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.716155	25.0	118864.0	1.790386	Y
2	IC 480-608018/9	1.0	1.393992	25.0	120840.0	1.393992	Y
3	IC 480-608018/10	2.0	2.318052	25.0	121697.0	1.159026	Y
4	IC 480-608018/11	5.0	7.331664	25.0	124825.0	1.466333	Y
5	IC 480-608018/12	10.0	14.594907	25.0	122762.0	1.459491	Y
6	ICIS 480-608018/13	25.0	39.185949	25.0	126368.0	1.567438	Y
7	IC 480-608018/14	50.0	87.396866	25.0	129807.0	1.747937	Y
8	IC 480-608018/15	100.0	163.869564	25.0	132241.0	1.638696	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

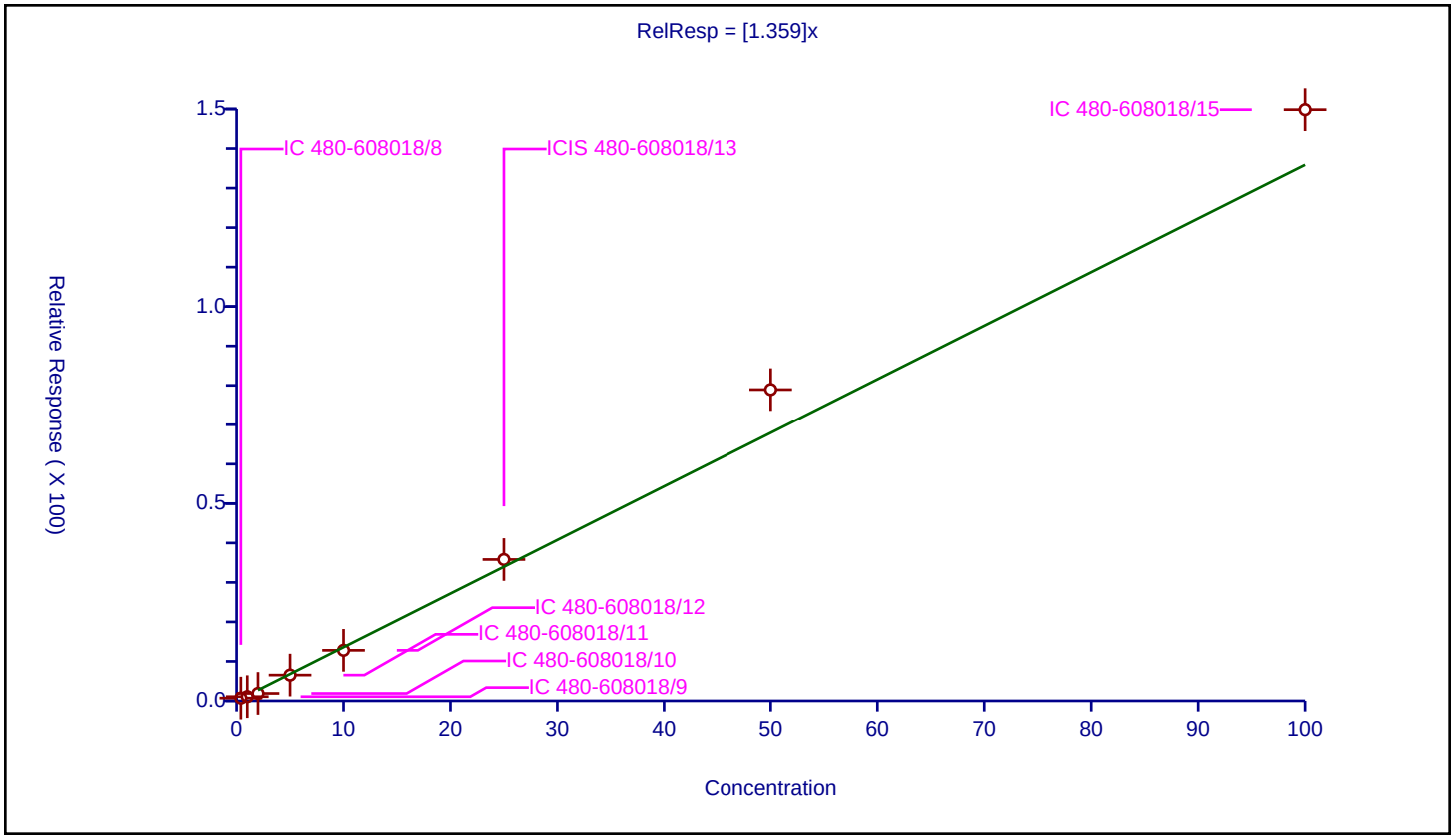
Curve Coefficients

Intercept:	0
Slope:	1.359

Error Coefficients

Standard Error:	345000
Relative Standard Error:	19.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.949

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.705218	25.0	118864.0	1.763044	Y
2	IC 480-608018/9	1.0	1.069182	25.0	120840.0	1.069182	Y
3	IC 480-608018/10	2.0	1.885009	25.0	121697.0	0.942505	Y
4	IC 480-608018/11	5.0	6.534348	25.0	124825.0	1.30687	Y
5	IC 480-608018/12	10.0	12.806895	25.0	122762.0	1.280689	Y
6	ICIS 480-608018/13	25.0	35.811479	25.0	126368.0	1.432459	Y
7	IC 480-608018/14	50.0	78.930258	25.0	129807.0	1.578605	Y
8	IC 480-608018/15	100.0	149.830612	25.0	132241.0	1.498306	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

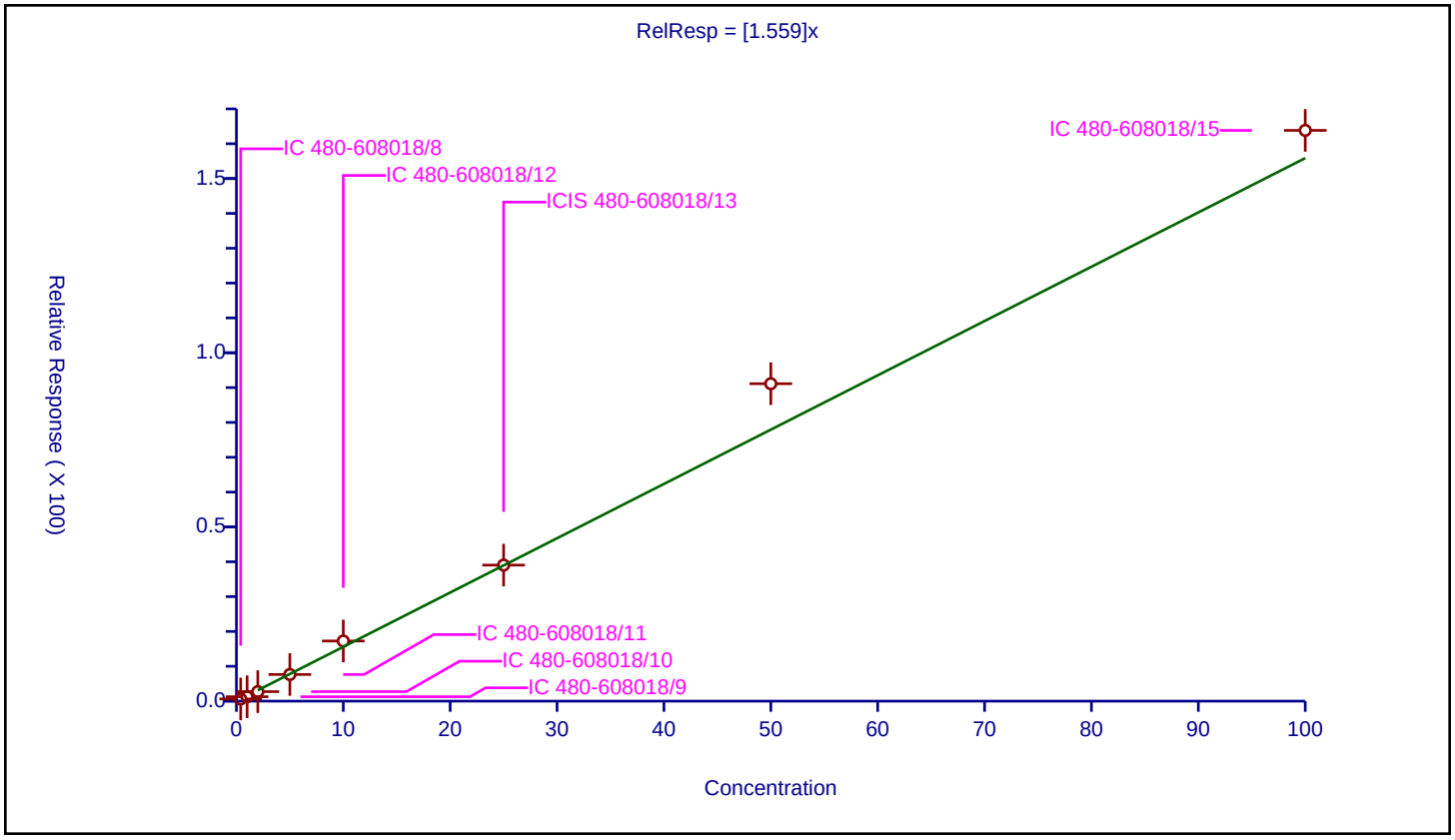
Curve Coefficients

Intercept:	0
Slope:	1.559

Error Coefficients

Standard Error:	382000
Relative Standard Error:	11.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.624874	25.0	118864.0	1.562185	Y
2	IC 480-608018/9	1.0	1.264896	25.0	120840.0	1.264896	Y
3	IC 480-608018/10	2.0	2.728703	25.0	121697.0	1.364352	Y
4	IC 480-608018/11	5.0	7.646305	25.0	124825.0	1.529261	Y
5	IC 480-608018/12	10.0	17.257987	25.0	122762.0	1.725799	Y
6	ICIS 480-608018/13	25.0	39.04608	25.0	126368.0	1.561843	Y
7	IC 480-608018/14	50.0	91.116427	25.0	129807.0	1.822329	Y
8	IC 480-608018/15	100.0	163.830242	25.0	132241.0	1.638302	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

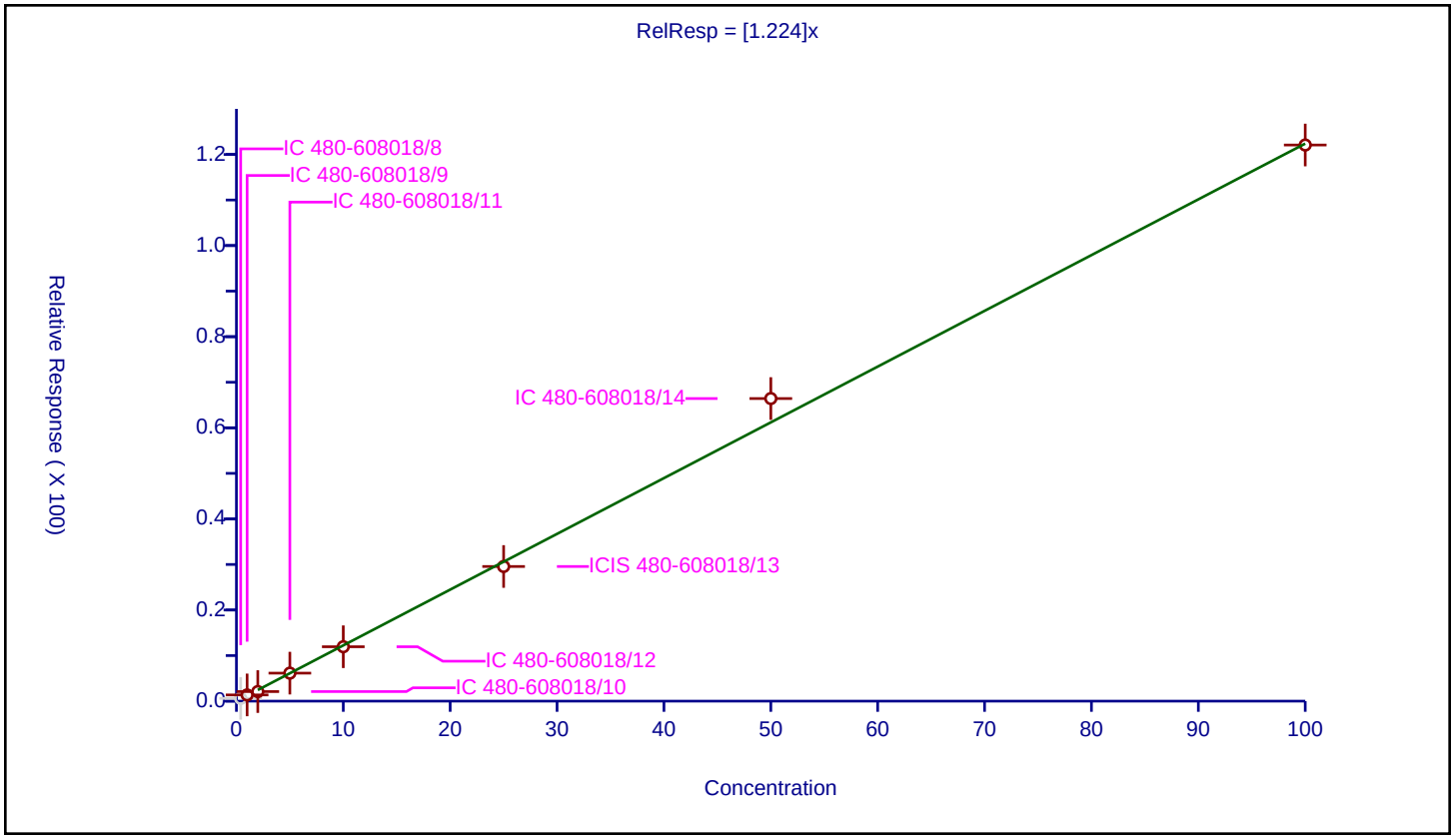
Curve Coefficients

Intercept:	0
Slope:	1.224

Error Coefficients

Standard Error:	306000
Relative Standard Error:	8.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.604893	25.0	118864.0	1.512232	N
2	IC 480-608018/9	1.0	1.362132	25.0	120840.0	1.362132	Y
3	IC 480-608018/10	2.0	2.099066	25.0	121697.0	1.049533	Y
4	IC 480-608018/11	5.0	6.146605	25.0	124825.0	1.229321	Y
5	IC 480-608018/12	10.0	11.941399	25.0	122762.0	1.19414	Y
6	ICIS 480-608018/13	25.0	29.555742	25.0	126368.0	1.18223	Y
7	IC 480-608018/14	50.0	66.423999	25.0	129807.0	1.32848	Y
8	IC 480-608018/15	100.0	122.071634	25.0	132241.0	1.220716	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

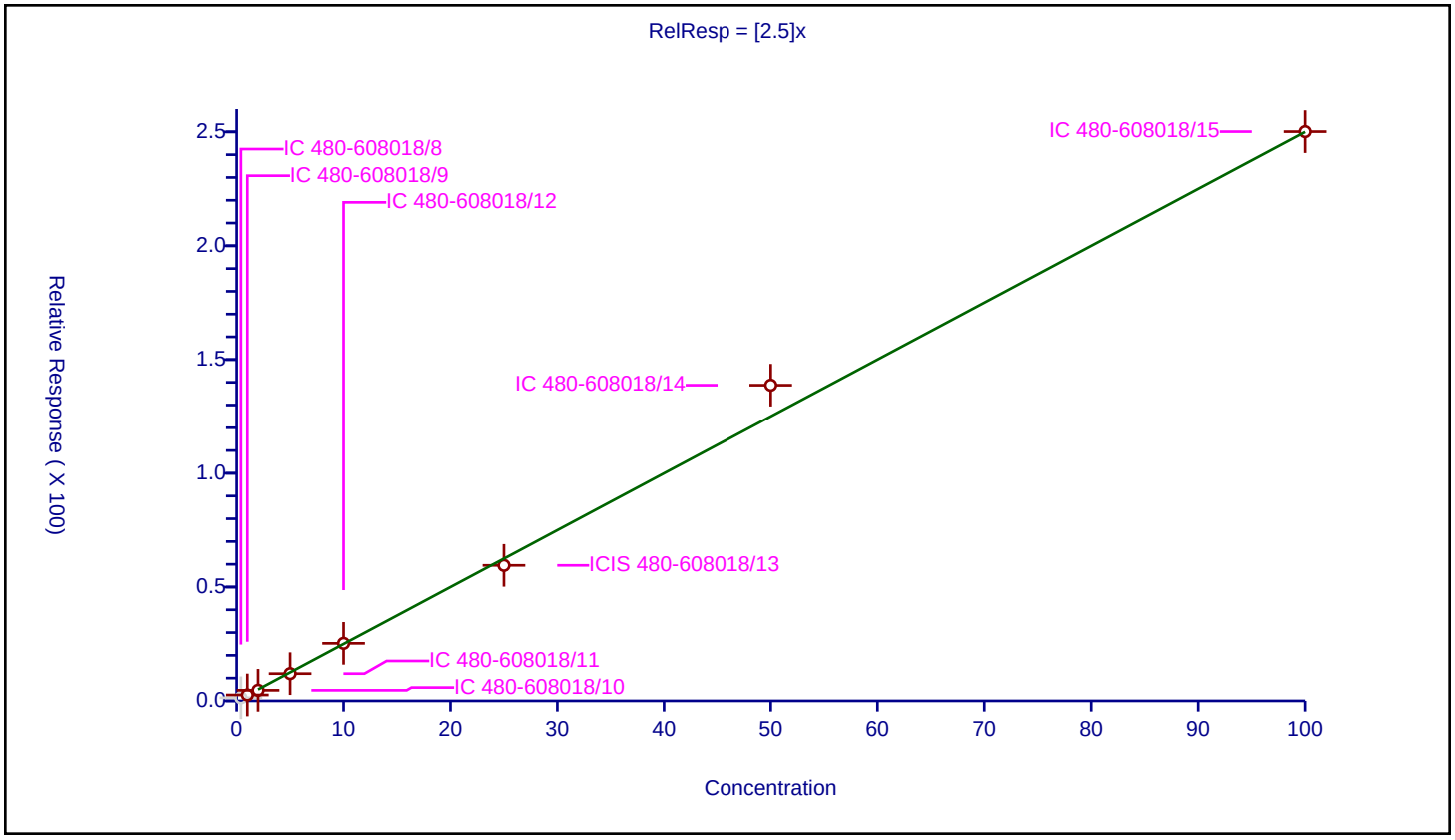
Curve Coefficients

Intercept:	0
Slope:	2.5

Error Coefficients

Standard Error:	630000
Relative Standard Error:	6.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.367319	25.0	118864.0	3.418297	N
2	IC 480-608018/9	1.0	2.599926	25.0	120840.0	2.599926	Y
3	IC 480-608018/10	2.0	4.647198	25.0	121697.0	2.323599	Y
4	IC 480-608018/11	5.0	11.956139	25.0	124825.0	2.391228	Y
5	IC 480-608018/12	10.0	25.276144	25.0	122762.0	2.527614	Y
6	ICIS 480-608018/13	25.0	59.519222	25.0	126368.0	2.380769	Y
7	IC 480-608018/14	50.0	138.733658	25.0	129807.0	2.774673	Y
8	IC 480-608018/15	100.0	250.117021	25.0	132241.0	2.50117	Y



Calibration / Trichlorofluoromethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

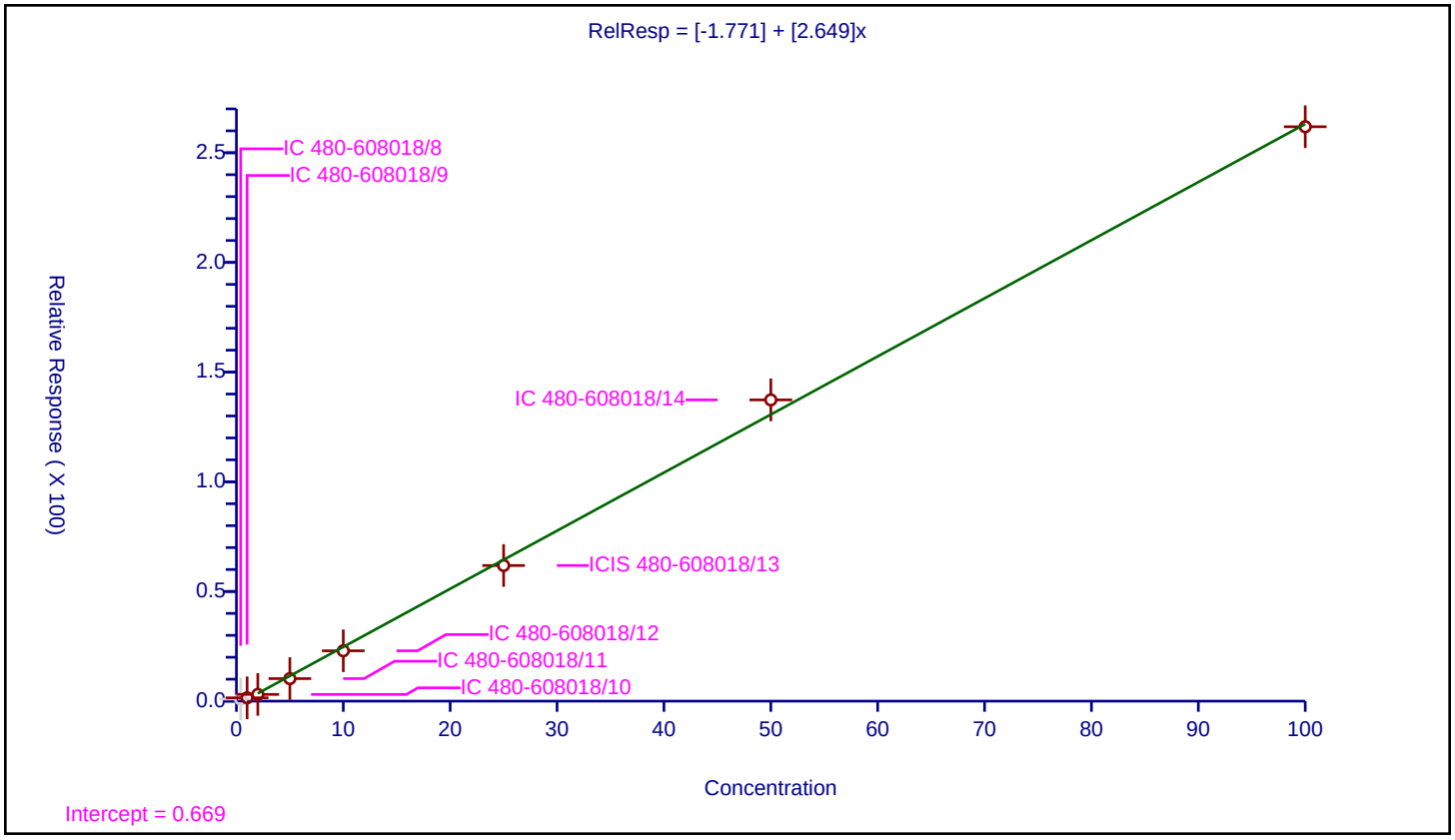
Curve Coefficients

Intercept:	-1.771
Slope:	2.649

Error Coefficients

Standard Error:	713000
Relative Standard Error:	12.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.963286	25.0	118864.0	2.408214	N
2	IC 480-608018/9	1.0	1.511089	25.0	120840.0	1.511089	Y
3	IC 480-608018/10	2.0	3.061086	25.0	121697.0	1.530543	Y
4	IC 480-608018/11	5.0	10.270379	25.0	124825.0	2.054076	Y
5	IC 480-608018/12	10.0	22.951117	25.0	122762.0	2.295112	Y
6	ICIS 480-608018/13	25.0	61.833692	25.0	126368.0	2.473348	Y
7	IC 480-608018/14	50.0	137.332155	25.0	129807.0	2.746643	Y
8	IC 480-608018/15	100.0	261.864513	25.0	132241.0	2.618645	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

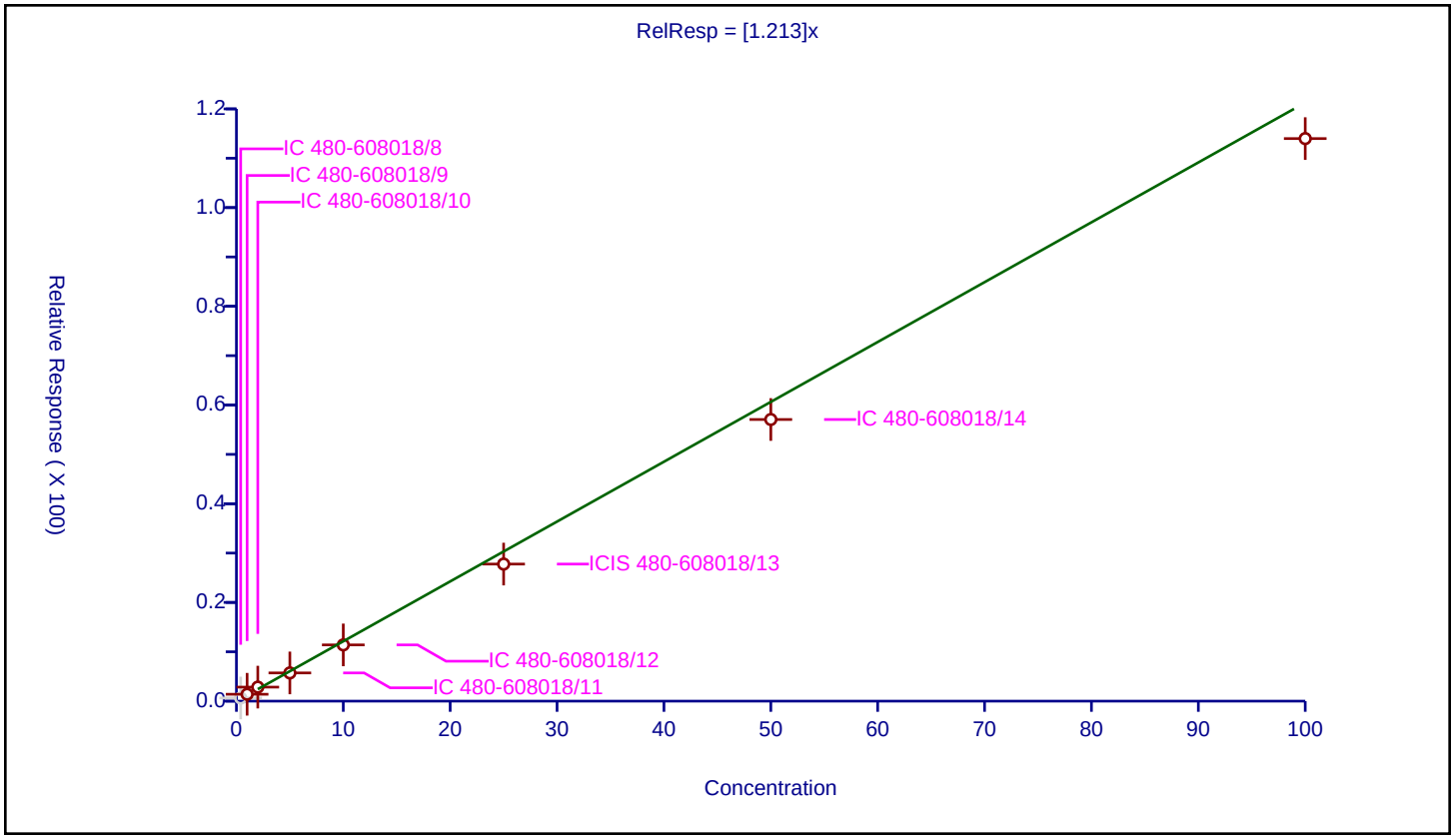
Curve Coefficients

Intercept:	0
Slope:	1.213

Error Coefficients

Standard Error:	281000
Relative Standard Error:	11.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.637493	25.0	118864.0	1.593733	N
2	IC 480-608018/9	1.0	1.392337	25.0	120840.0	1.392337	Y
3	IC 480-608018/10	2.0	2.843127	25.0	121697.0	1.421563	Y
4	IC 480-608018/11	5.0	5.717404	25.0	124825.0	1.143481	Y
5	IC 480-608018/12	10.0	11.39522	25.0	122762.0	1.139522	Y
6	ICIS 480-608018/13	25.0	27.77226	25.0	126368.0	1.11089	Y
7	IC 480-608018/14	50.0	57.064527	25.0	129807.0	1.141291	Y
8	IC 480-608018/15	100.0	113.984695	25.0	132241.0	1.139847	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

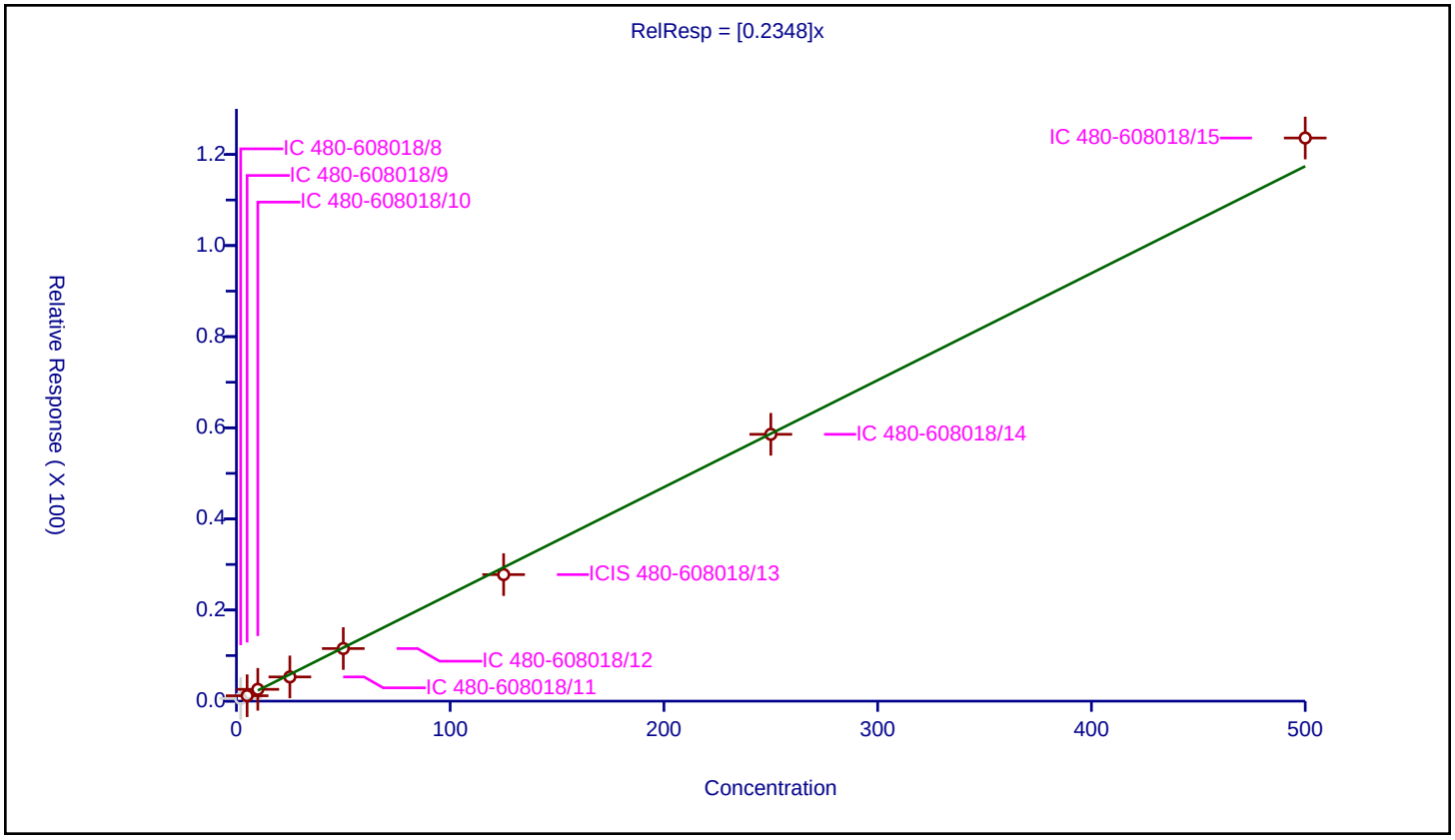
Curve Coefficients

Intercept:	0
Slope:	0.2348

Error Coefficients

Standard Error:	301000
Relative Standard Error:	6.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	2.0	0.593325	25.0	118864.0	0.296663	N
2	IC 480-608018/9	5.0	1.185659	25.0	120840.0	0.237132	Y
3	IC 480-608018/10	10.0	2.593326	25.0	121697.0	0.259333	Y
4	IC 480-608018/11	25.0	5.317244	25.0	124825.0	0.21269	Y
5	IC 480-608018/12	50.0	11.54266	25.0	122762.0	0.230853	Y
6	ICIS 480-608018/13	125.0	27.780174	25.0	126368.0	0.222241	Y
7	IC 480-608018/14	250.0	58.569838	25.0	129807.0	0.234279	Y
8	IC 480-608018/15	500.0	123.609546	25.0	132241.0	0.247219	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

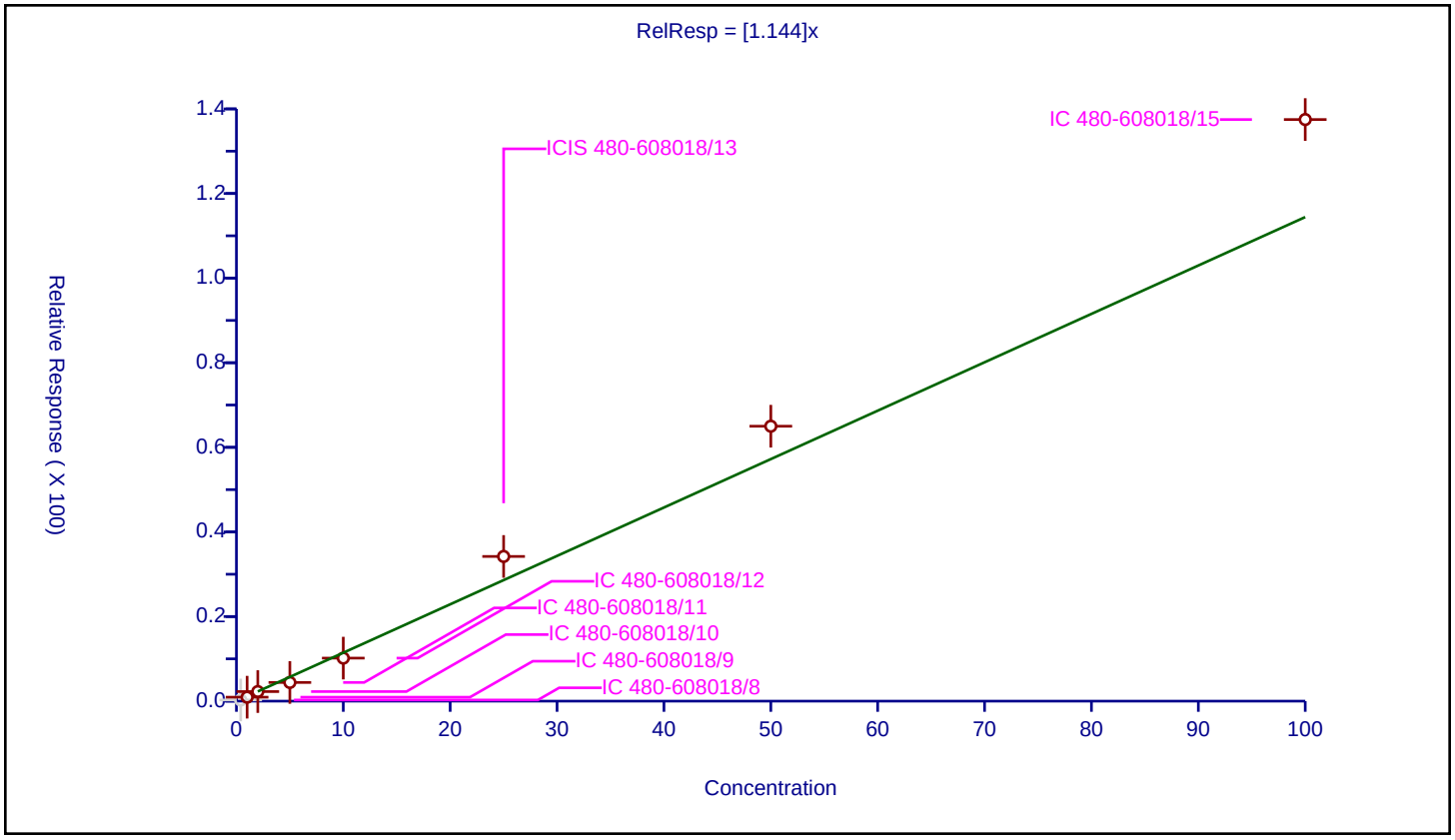
Curve Coefficients

Intercept:	0
Slope:	1.144

Error Coefficients

Standard Error:	336000
Relative Standard Error:	18.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.274684	25.0	118864.0	0.686709	N
2	IC 480-608018/9	1.0	0.9345	25.0	120840.0	0.9345	Y
3	IC 480-608018/10	2.0	2.263819	25.0	121697.0	1.13191	Y
4	IC 480-608018/11	5.0	4.418987	25.0	124825.0	0.883797	Y
5	IC 480-608018/12	10.0	10.168049	25.0	122762.0	1.016805	Y
6	ICIS 480-608018/13	25.0	34.20229	25.0	126368.0	1.368092	Y
7	IC 480-608018/14	50.0	64.991487	25.0	129807.0	1.29983	Y
8	IC 480-608018/15	100.0	137.48308	25.0	132241.0	1.374831	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

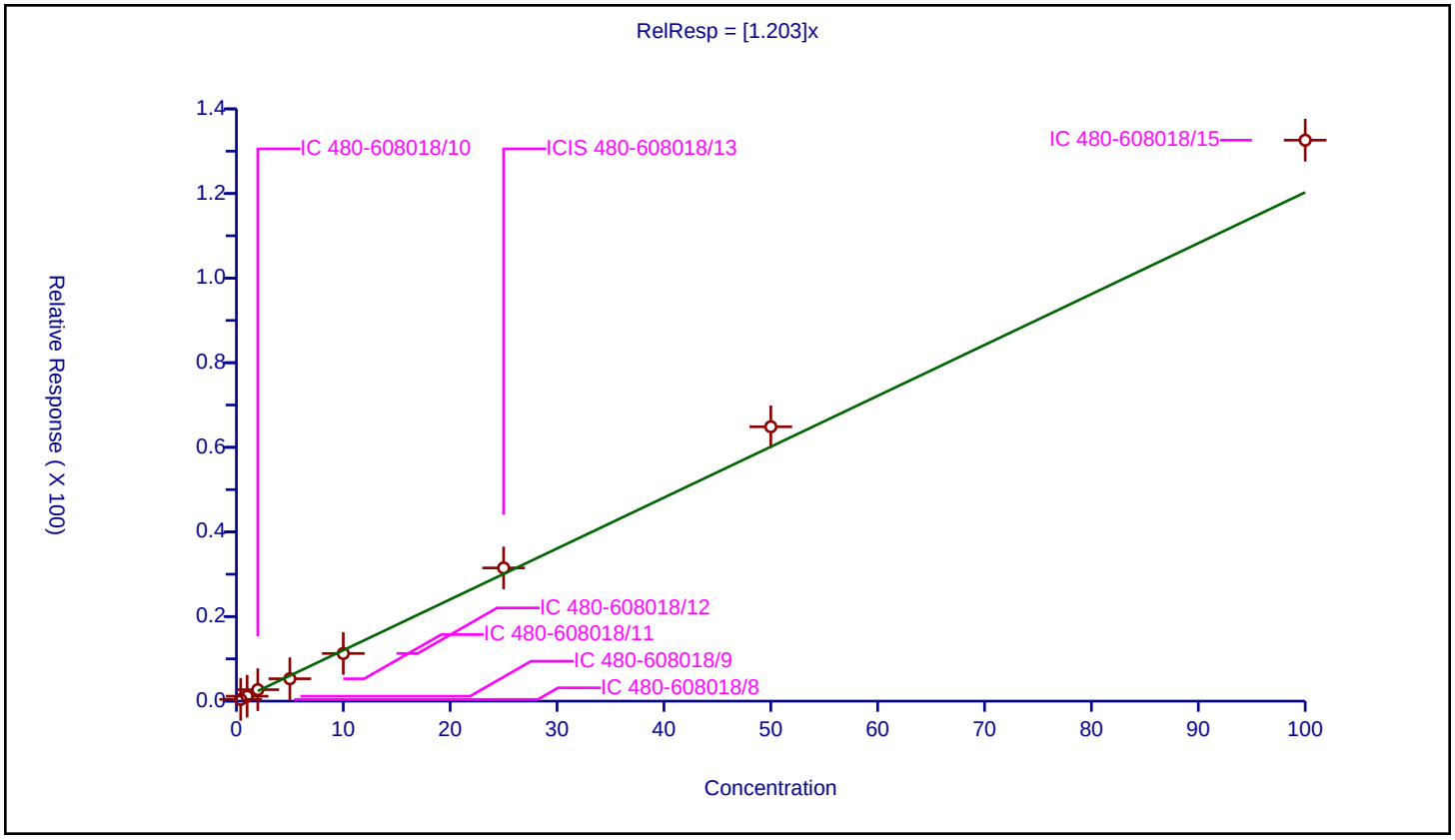
Curve Coefficients

Intercept:	0
Slope:	1.203

Error Coefficients

Standard Error:	301000
Relative Standard Error:	10.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.411605	25.0	118864.0	1.029012	Y
2	IC 480-608018/9	1.0	1.170763	25.0	120840.0	1.170763	Y
3	IC 480-608018/10	2.0	2.707955	25.0	121697.0	1.353978	Y
4	IC 480-608018/11	5.0	5.294412	25.0	124825.0	1.058882	Y
5	IC 480-608018/12	10.0	11.266923	25.0	122762.0	1.126692	Y
6	ICIS 480-608018/13	25.0	31.487798	25.0	126368.0	1.259512	Y
7	IC 480-608018/14	50.0	64.863798	25.0	129807.0	1.297276	Y
8	IC 480-608018/15	100.0	132.603542	25.0	132241.0	1.326035	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

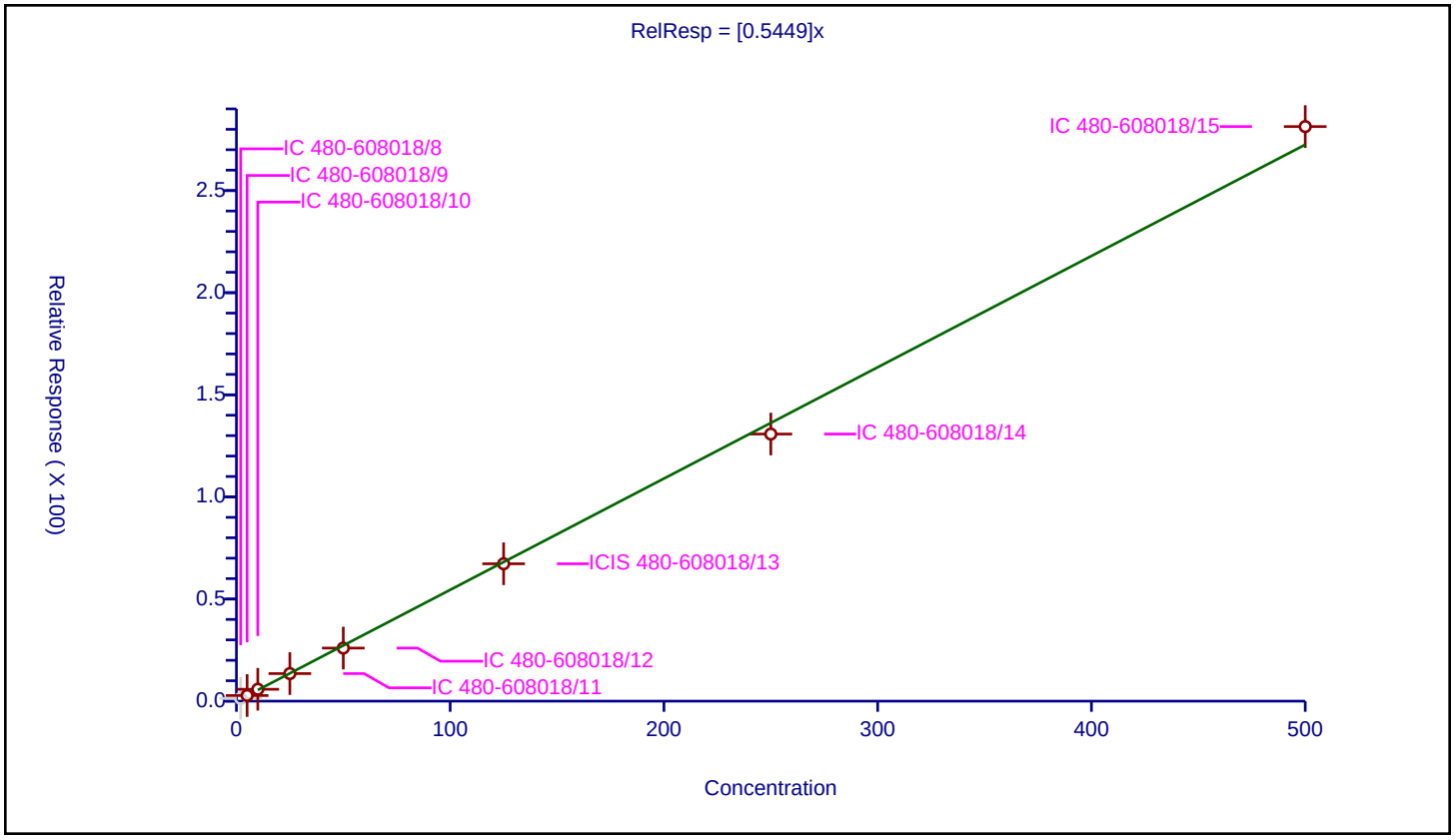
Curve Coefficients

Intercept:	0
Slope:	0.5449

Error Coefficients

Standard Error:	685000
Relative Standard Error:	4.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	2.0	1.340187	25.0	118864.0	0.670094	N
2	IC 480-608018/9	5.0	2.748055	25.0	120840.0	0.549611	Y
3	IC 480-608018/10	10.0	5.81629	25.0	121697.0	0.581629	Y
4	IC 480-608018/11	25.0	13.495694	25.0	124825.0	0.539828	Y
5	IC 480-608018/12	50.0	25.979538	25.0	122762.0	0.519591	Y
6	ICIS 480-608018/13	125.0	67.26703	25.0	126368.0	0.538136	Y
7	IC 480-608018/14	250.0	130.793794	25.0	129807.0	0.523175	Y
8	IC 480-608018/15	500.0	281.338806	25.0	132241.0	0.562678	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

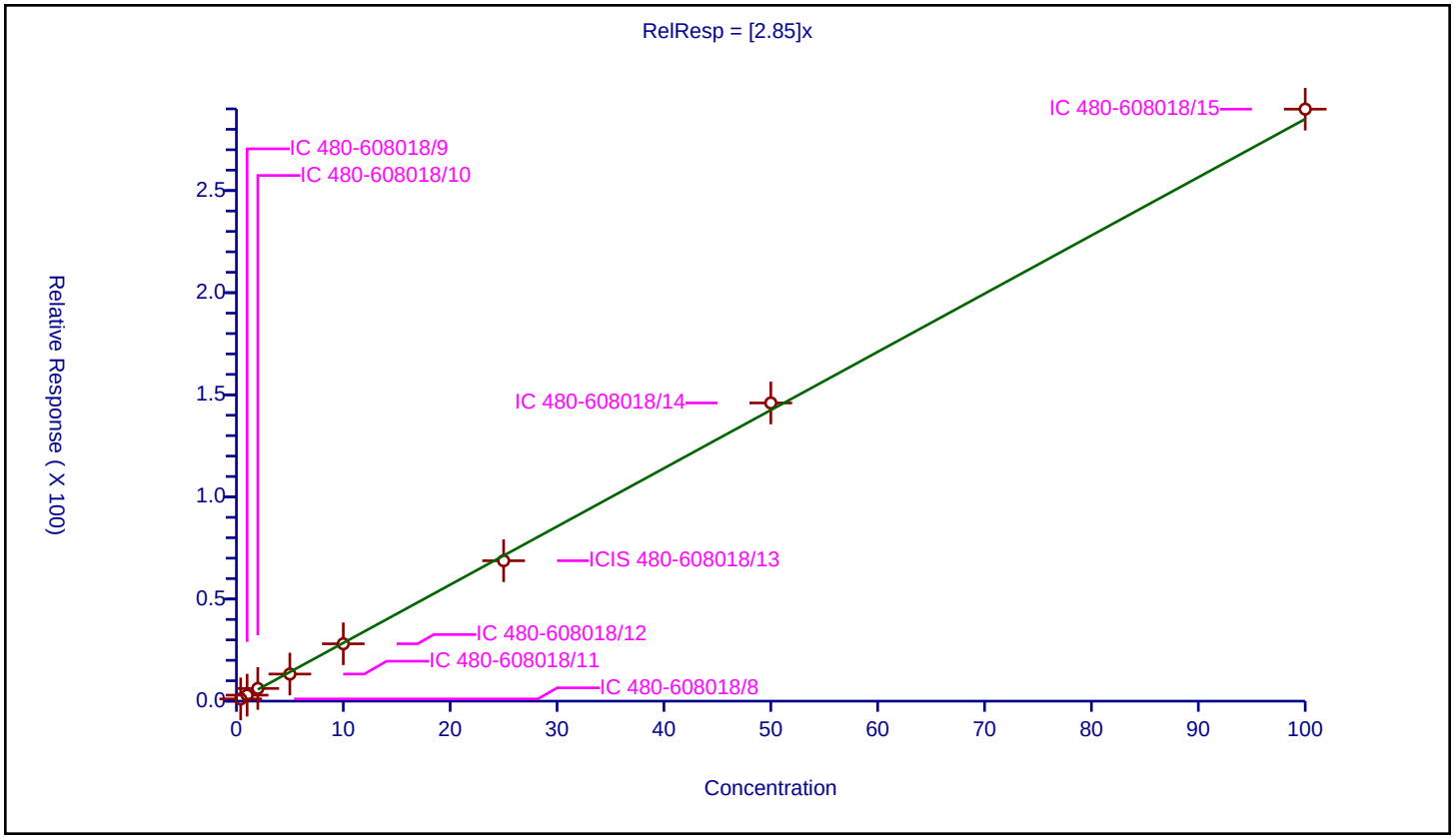
Curve Coefficients

Intercept:	0
Slope:	2.85

Error Coefficients

Standard Error:	662000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.08948	25.0	118864.0	2.723701	Y
2	IC 480-608018/9	1.0	2.940252	25.0	120840.0	2.940252	Y
3	IC 480-608018/10	2.0	6.215231	25.0	121697.0	3.107616	Y
4	IC 480-608018/11	5.0	13.264771	25.0	124825.0	2.652954	Y
5	IC 480-608018/12	10.0	28.090737	25.0	122762.0	2.809074	Y
6	ICIS 480-608018/13	25.0	68.743471	25.0	126368.0	2.749739	Y
7	IC 480-608018/14	50.0	146.001949	25.0	129807.0	2.920039	Y
8	IC 480-608018/15	100.0	289.873035	25.0	132241.0	2.89873	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

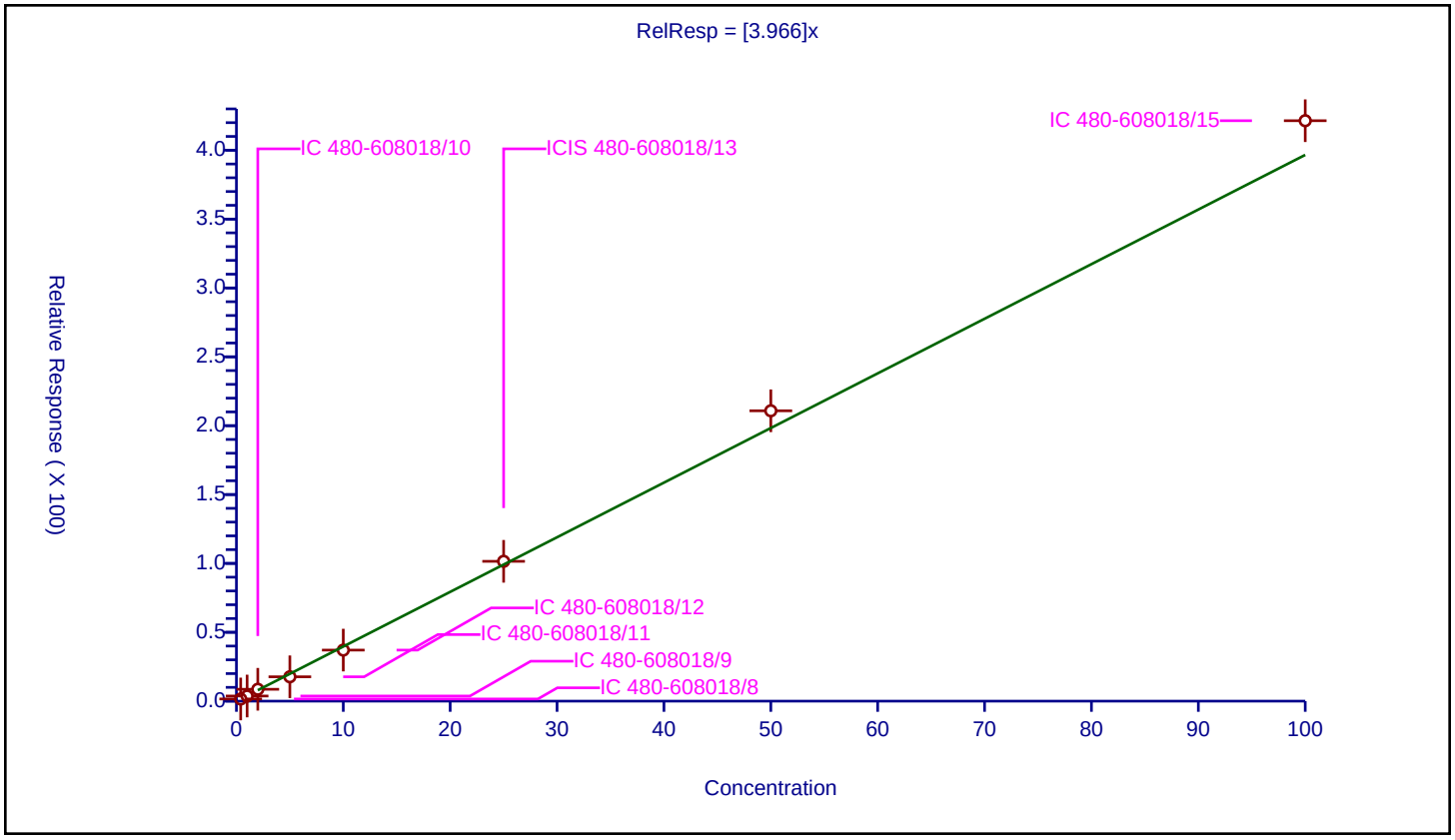
Curve Coefficients

Intercept:	0
Slope:	3.966

Error Coefficients

Standard Error:	961000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.584374	25.0	118864.0	3.960934	Y
2	IC 480-608018/9	1.0	3.726001	25.0	120840.0	3.726001	Y
3	IC 480-608018/10	2.0	8.611141	25.0	121697.0	4.30557	Y
4	IC 480-608018/11	5.0	17.68536	25.0	124825.0	3.537072	Y
5	IC 480-608018/12	10.0	37.067456	25.0	122762.0	3.706746	Y
6	ICIS 480-608018/13	25.0	101.517987	25.0	126368.0	4.060719	Y
7	IC 480-608018/14	50.0	210.806043	25.0	129807.0	4.216121	Y
8	IC 480-608018/15	100.0	421.413556	25.0	132241.0	4.214136	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

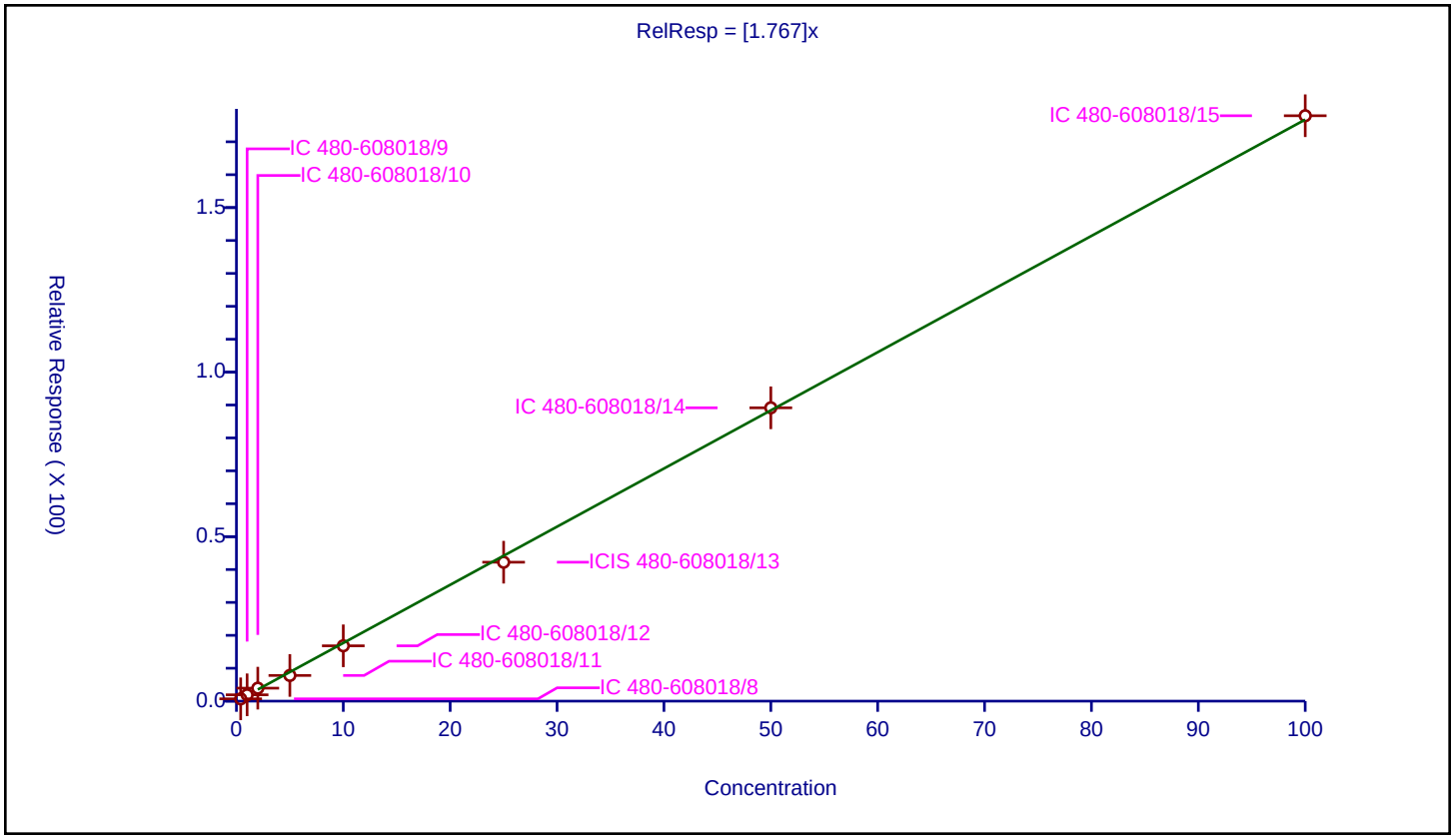
Curve Coefficients

Intercept:	0
Slope:	1.767

Error Coefficients

Standard Error:	406000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.701642	25.0	118864.0	1.754106	Y
2	IC 480-608018/9	1.0	1.91886	25.0	120840.0	1.91886	Y
3	IC 480-608018/10	2.0	3.943195	25.0	121697.0	1.971597	Y
4	IC 480-608018/11	5.0	7.810935	25.0	124825.0	1.562187	Y
5	IC 480-608018/12	10.0	16.813631	25.0	122762.0	1.681363	Y
6	ICIS 480-608018/13	25.0	42.22311	25.0	126368.0	1.688924	Y
7	IC 480-608018/14	50.0	89.156016	25.0	129807.0	1.78312	Y
8	IC 480-608018/15	100.0	177.919291	25.0	132241.0	1.779193	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

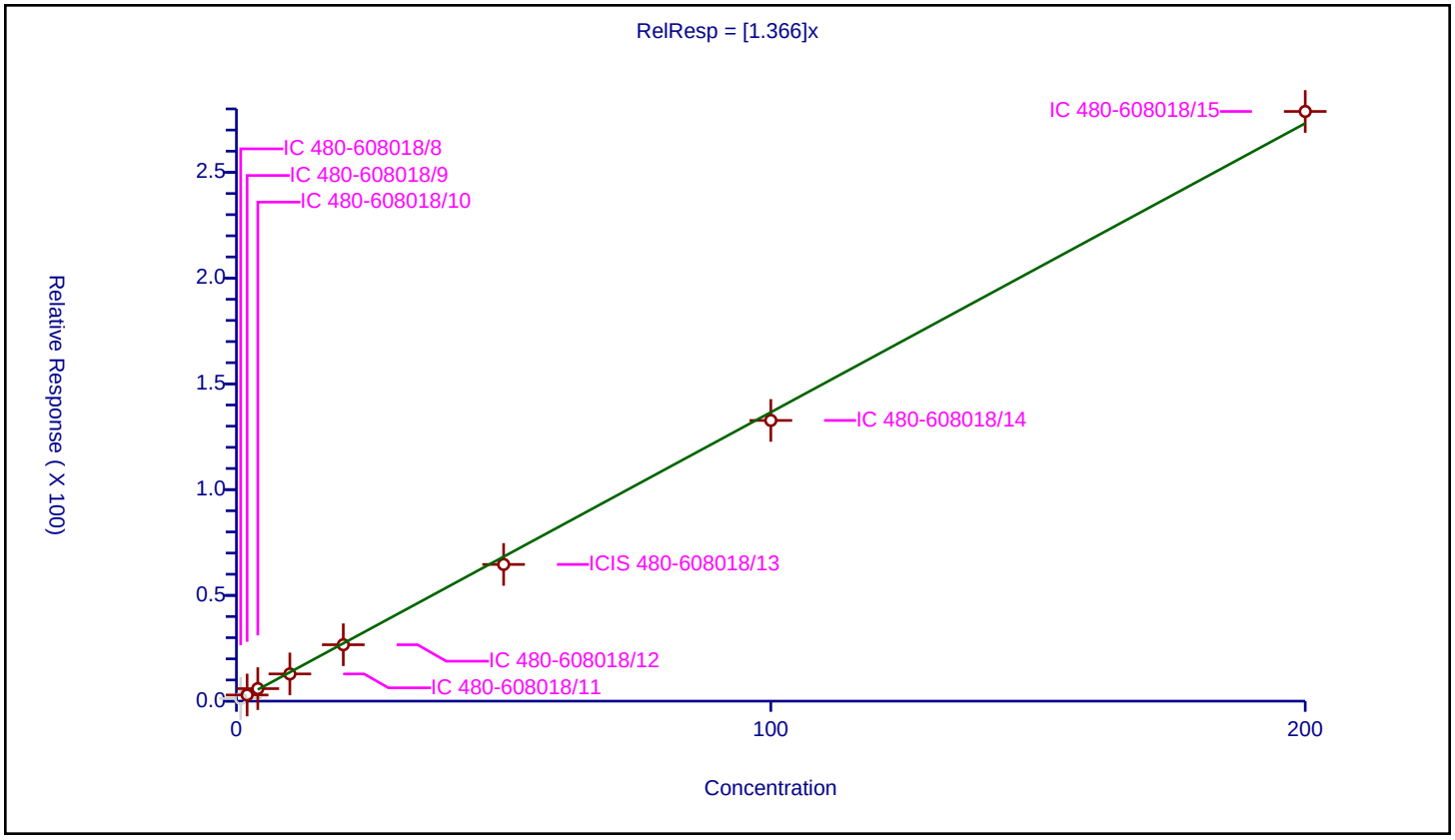
Curve Coefficients

Intercept:	0
Slope:	1.366

Error Coefficients

Standard Error:	680000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.8	1.249537	25.0	118864.0	1.561922	N
2	IC 480-608018/9	2.0	2.898668	25.0	120840.0	1.449334	Y
3	IC 480-608018/10	4.0	5.91243	25.0	121697.0	1.478108	Y
4	IC 480-608018/11	10.0	12.860405	25.0	124825.0	1.28604	Y
5	IC 480-608018/12	20.0	26.667658	25.0	122762.0	1.333383	Y
6	ICIS 480-608018/13	50.0	64.626132	25.0	126368.0	1.292523	Y
7	IC 480-608018/14	100.0	132.714145	25.0	129807.0	1.327141	Y
8	IC 480-608018/15	200.0	278.790428	25.0	132241.0	1.393952	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

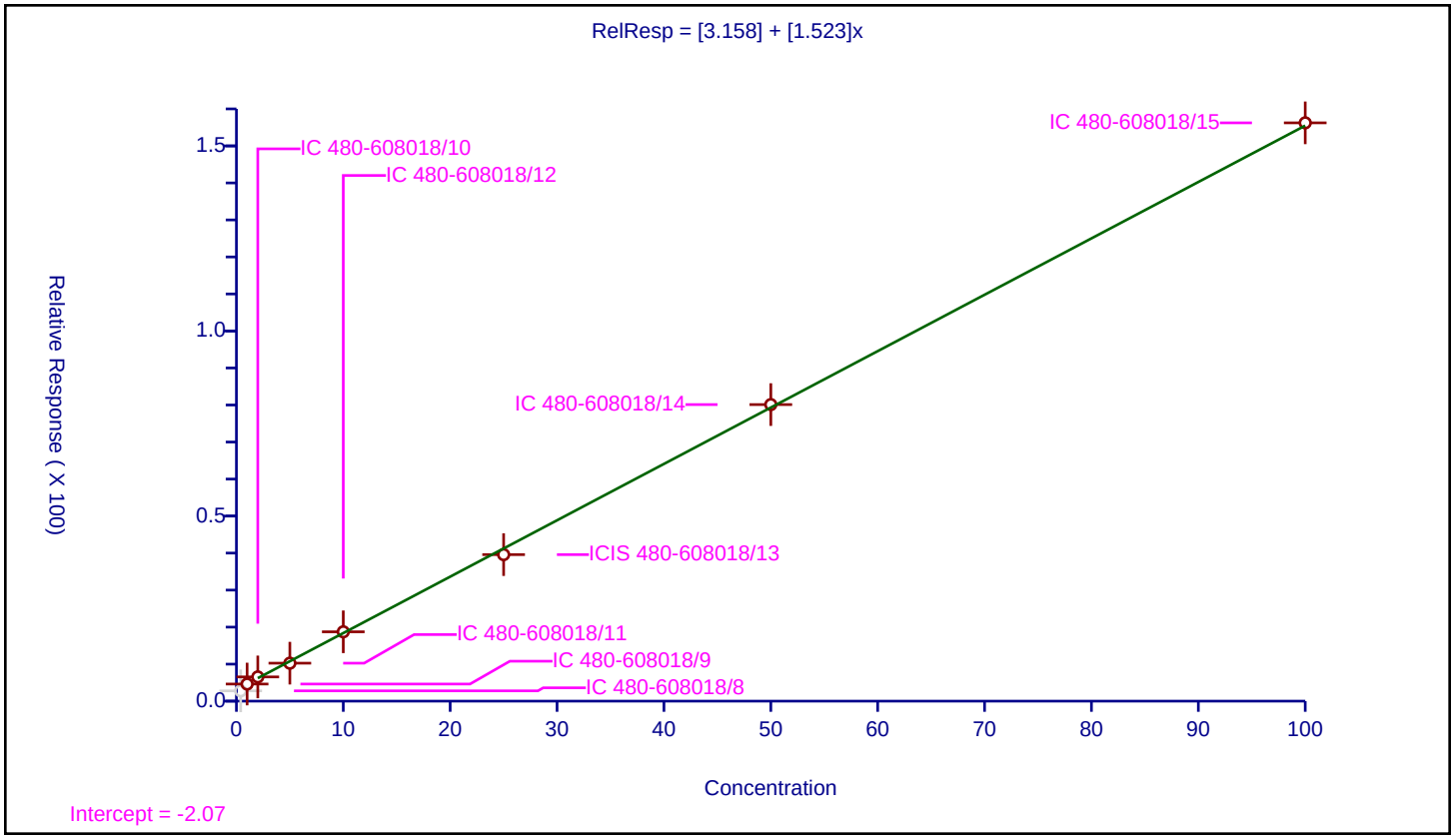
Curve Coefficients

Intercept:	3.158
Slope:	1.523

Error Coefficients

Standard Error:	426000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	2.779437	25.0	118864.0	6.948593	N
2	IC 480-608018/9	1.0	4.623055	25.0	120840.0	4.623055	Y
3	IC 480-608018/10	2.0	6.5433	25.0	121697.0	3.27165	Y
4	IC 480-608018/11	5.0	10.258562	25.0	124825.0	2.051712	Y
5	IC 480-608018/12	10.0	18.732385	25.0	122762.0	1.873238	Y
6	ICIS 480-608018/13	25.0	39.581817	25.0	126368.0	1.583273	Y
7	IC 480-608018/14	50.0	80.114131	25.0	129807.0	1.602283	Y
8	IC 480-608018/15	100.0	156.231237	25.0	132241.0	1.562312	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

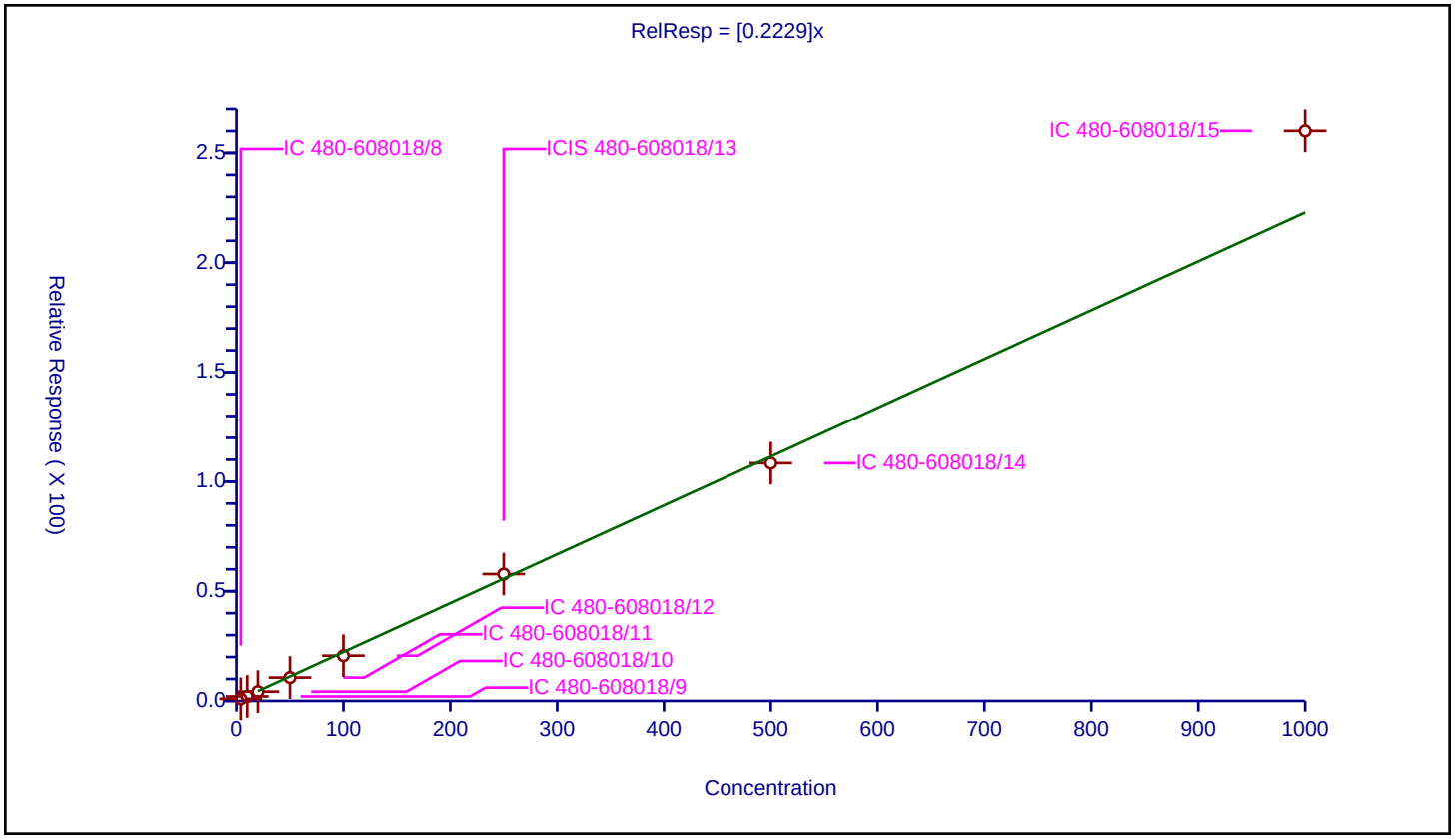
Curve Coefficients

Intercept:	0
Slope:	0.2229

Error Coefficients

Standard Error:	574000
Relative Standard Error:	8.6
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	4.0	0.955504	25.0	118864.0	0.238876	Y
2	IC 480-608018/9	10.0	2.048163	25.0	120840.0	0.204816	Y
3	IC 480-608018/10	20.0	4.244558	25.0	121697.0	0.212228	Y
4	IC 480-608018/11	50.0	10.6429	25.0	124825.0	0.212858	Y
5	IC 480-608018/12	100.0	20.622628	25.0	122762.0	0.206226	Y
6	ICIS 480-608018/13	250.0	57.833075	25.0	126368.0	0.231332	Y
7	IC 480-608018/14	500.0	108.434638	25.0	129807.0	0.216869	Y
8	IC 480-608018/15	1000.0	260.066848	25.0	132241.0	0.260067	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

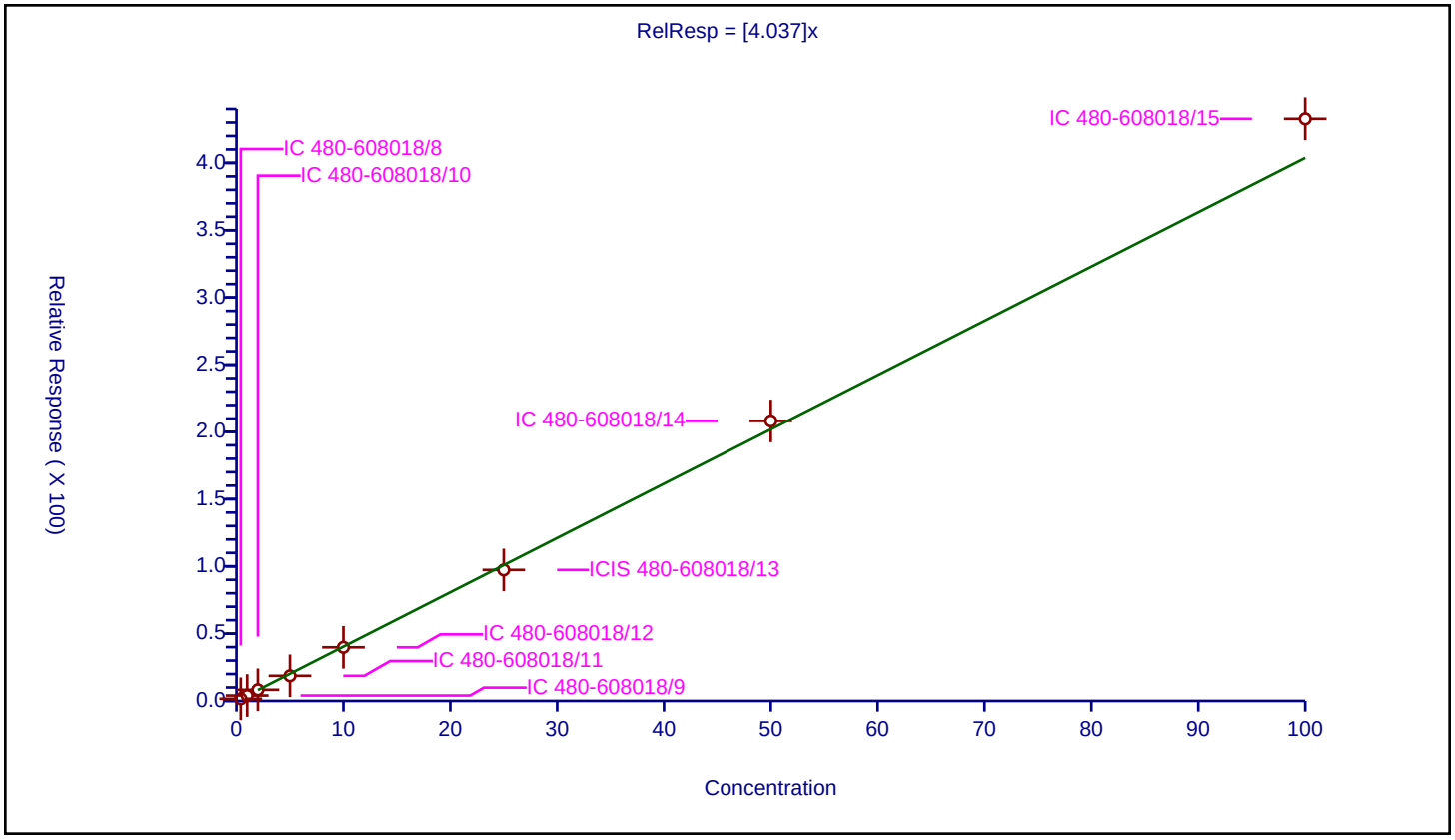
Curve Coefficients

Intercept:	0
Slope:	4.037

Error Coefficients

Standard Error:	978000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.615922	25.0	118864.0	4.039806	Y
2	IC 480-608018/9	1.0	4.018951	25.0	120840.0	4.018951	Y
3	IC 480-608018/10	2.0	8.273006	25.0	121697.0	4.136503	Y
4	IC 480-608018/11	5.0	18.67134	25.0	124825.0	3.734268	Y
5	IC 480-608018/12	10.0	39.855981	25.0	122762.0	3.985598	Y
6	ICIS 480-608018/13	25.0	97.348815	25.0	126368.0	3.893953	Y
7	IC 480-608018/14	50.0	208.14748	25.0	129807.0	4.16295	Y
8	IC 480-608018/15	100.0	432.718862	25.0	132241.0	4.327189	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

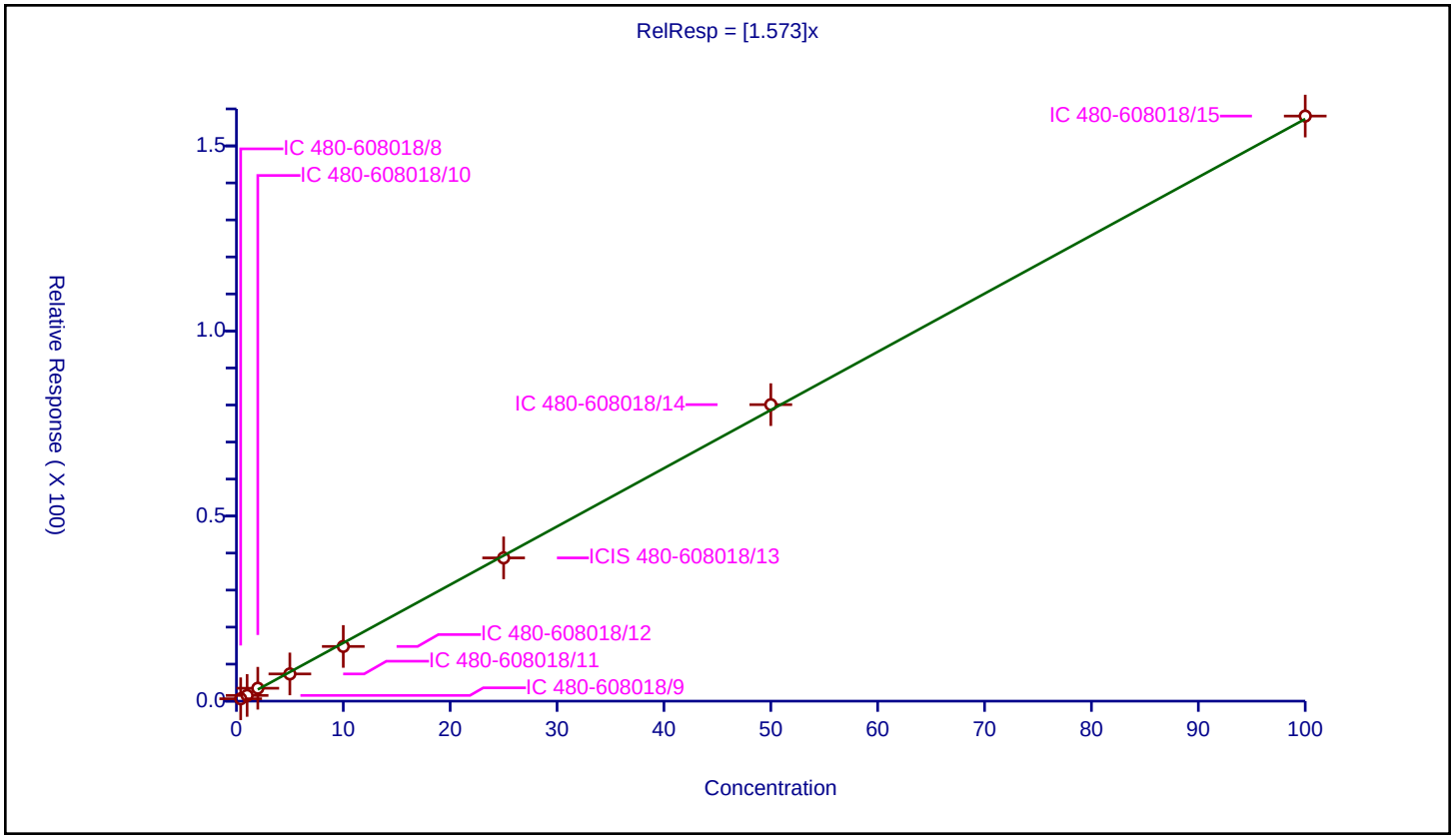
Curve Coefficients

Intercept:	0
Slope:	1.573

Error Coefficients

Standard Error:	362000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.646537	25.0	118864.0	1.616343	Y
2	IC 480-608018/9	1.0	1.544811	25.0	120840.0	1.544811	Y
3	IC 480-608018/10	2.0	3.483652	25.0	121697.0	1.741826	Y
4	IC 480-608018/11	5.0	7.353094	25.0	124825.0	1.470619	Y
5	IC 480-608018/12	10.0	14.778596	25.0	122762.0	1.47786	Y
6	ICIS 480-608018/13	25.0	38.699473	25.0	126368.0	1.547979	Y
7	IC 480-608018/14	50.0	80.102768	25.0	129807.0	1.602055	Y
8	IC 480-608018/15	100.0	158.064821	25.0	132241.0	1.580648	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

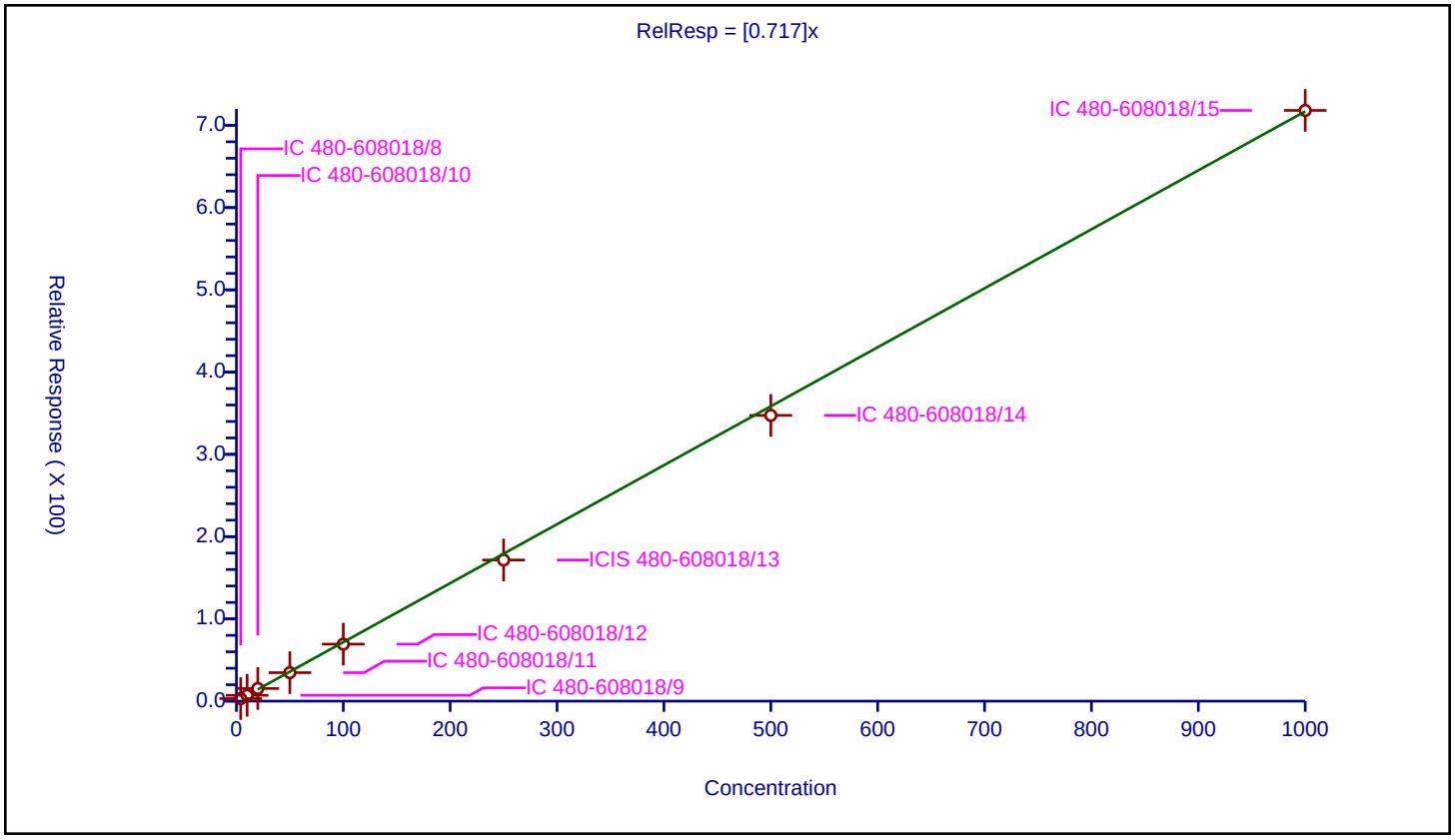
Curve Coefficients

Intercept:	0
Slope:	0.717

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	4.0	3.083987	25.0	118864.0	0.770997	Y
2	IC 480-608018/9	10.0	7.11209	25.0	120840.0	0.711209	Y
3	IC 480-608018/10	20.0	15.375893	25.0	121697.0	0.768795	Y
4	IC 480-608018/11	50.0	34.631885	25.0	124825.0	0.692638	Y
5	IC 480-608018/12	100.0	69.294855	25.0	122762.0	0.692949	Y
6	ICIS 480-608018/13	250.0	171.580028	25.0	126368.0	0.68632	Y
7	IC 480-608018/14	500.0	347.387082	25.0	129807.0	0.694774	Y
8	IC 480-608018/15	1000.0	718.154733	25.0	132241.0	0.718155	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

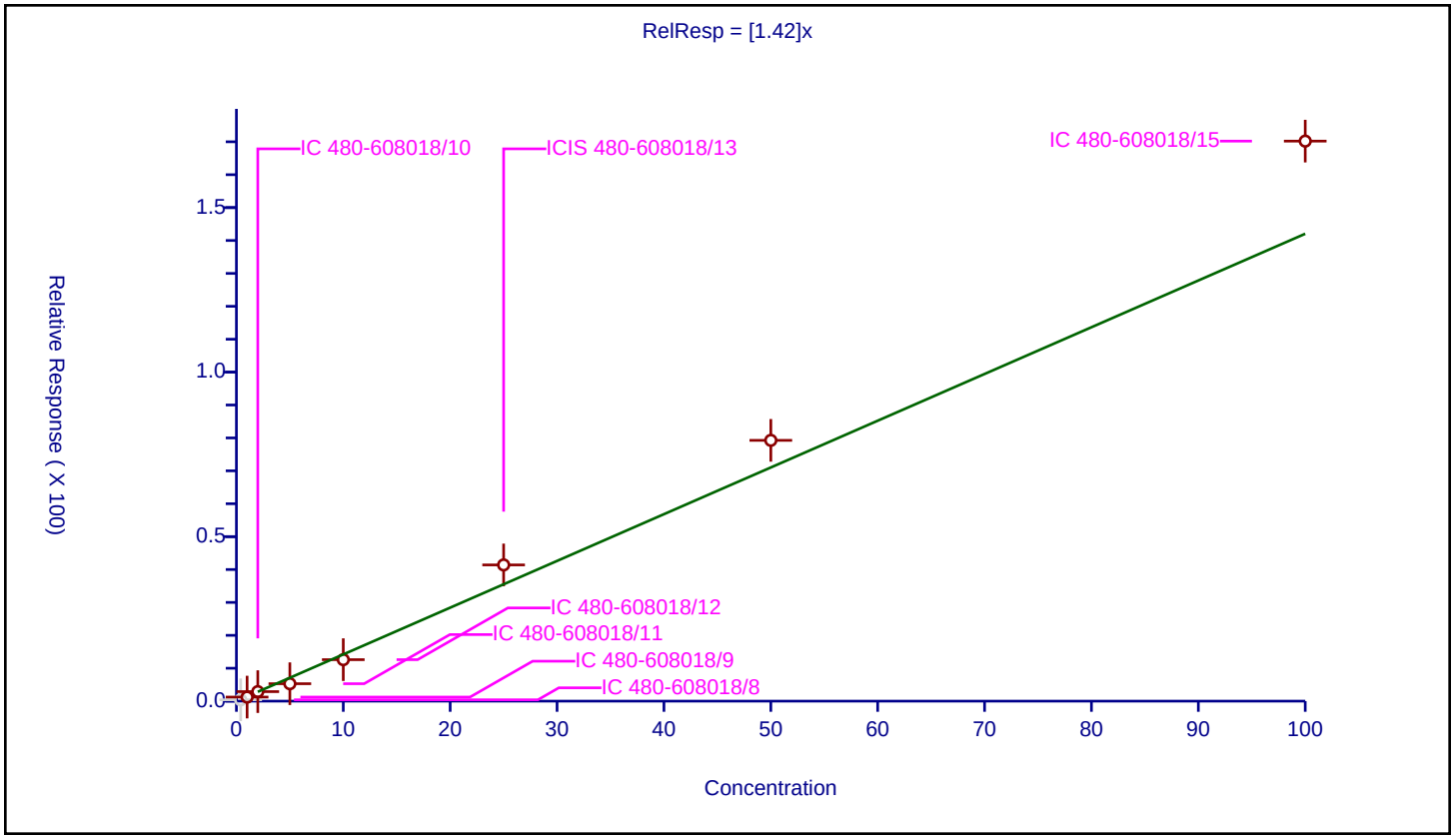
Curve Coefficients

Intercept:	0
Slope:	1.42

Error Coefficients

Standard Error:	414000
Relative Standard Error:	17.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.406978	25.0	118864.0	1.017444	N
2	IC 480-608018/9	1.0	1.232829	25.0	120840.0	1.232829	Y
3	IC 480-608018/10	2.0	2.894278	25.0	121697.0	1.447139	Y
4	IC 480-608018/11	5.0	5.297016	25.0	124825.0	1.059403	Y
5	IC 480-608018/12	10.0	12.605081	25.0	122762.0	1.260508	Y
6	ICIS 480-608018/13	25.0	41.401502	25.0	126368.0	1.65606	Y
7	IC 480-608018/14	50.0	79.261712	25.0	129807.0	1.585234	Y
8	IC 480-608018/15	100.0	170.206101	25.0	132241.0	1.702061	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

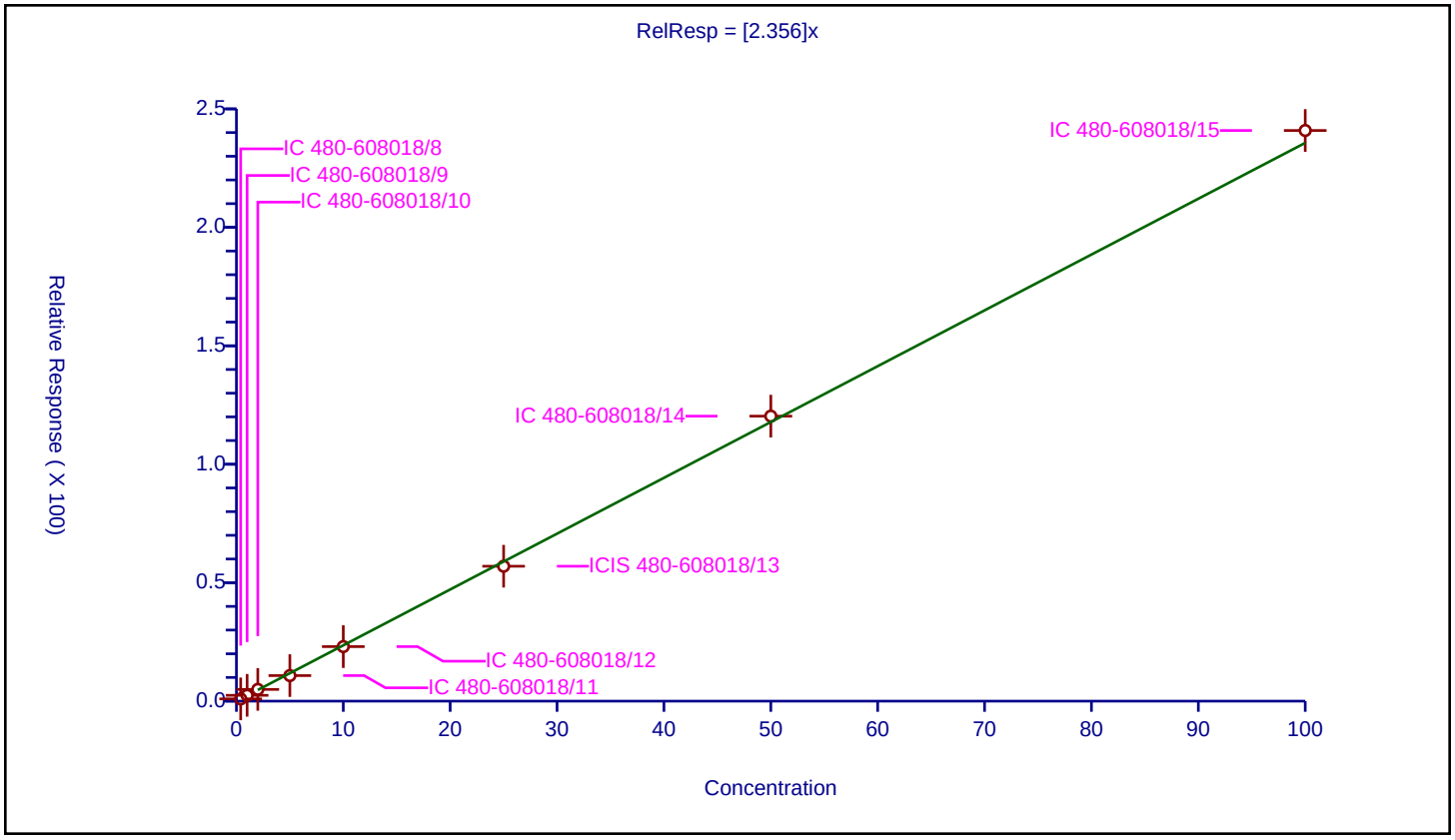
Curve Coefficients

Intercept:	0
Slope:	2.356

Error Coefficients

Standard Error:	549000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.944777	25.0	118864.0	2.361943	Y
2	IC 480-608018/9	1.0	2.459864	25.0	120840.0	2.459864	Y
3	IC 480-608018/10	2.0	4.95534	25.0	121697.0	2.47767	Y
4	IC 480-608018/11	5.0	10.789105	25.0	124825.0	2.157821	Y
5	IC 480-608018/12	10.0	23.016691	25.0	122762.0	2.301669	Y
6	ICIS 480-608018/13	25.0	56.944796	25.0	126368.0	2.277792	Y
7	IC 480-608018/14	50.0	120.304953	25.0	129807.0	2.406099	Y
8	IC 480-608018/15	100.0	240.877829	25.0	132241.0	2.408778	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

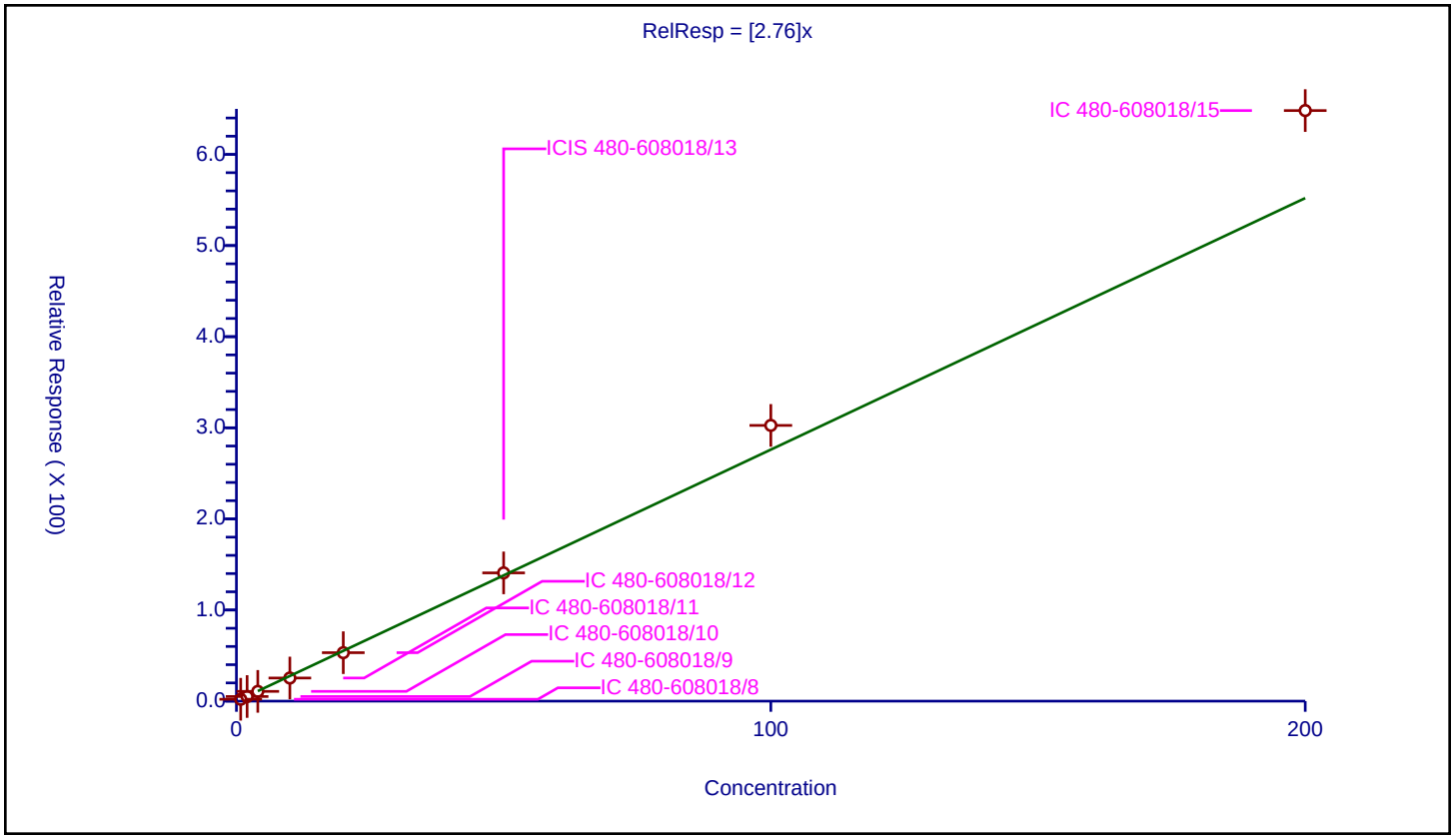
Curve Coefficients

Intercept:	0
Slope:	2.76

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	9.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.8	2.068751	25.0	118864.0	2.585939	Y
2	IC 480-608018/9	2.0	5.078203	25.0	120840.0	2.539101	Y
3	IC 480-608018/10	4.0	10.710206	25.0	121697.0	2.677552	Y
4	IC 480-608018/11	10.0	25.396155	25.0	124825.0	2.539615	Y
5	IC 480-608018/12	20.0	53.180748	25.0	122762.0	2.659037	Y
6	ICIS 480-608018/13	50.0	140.75201	25.0	126368.0	2.81504	Y
7	IC 480-608018/14	100.0	302.629096	25.0	129807.0	3.026291	Y
8	IC 480-608018/15	200.0	648.165093	25.0	132241.0	3.240825	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

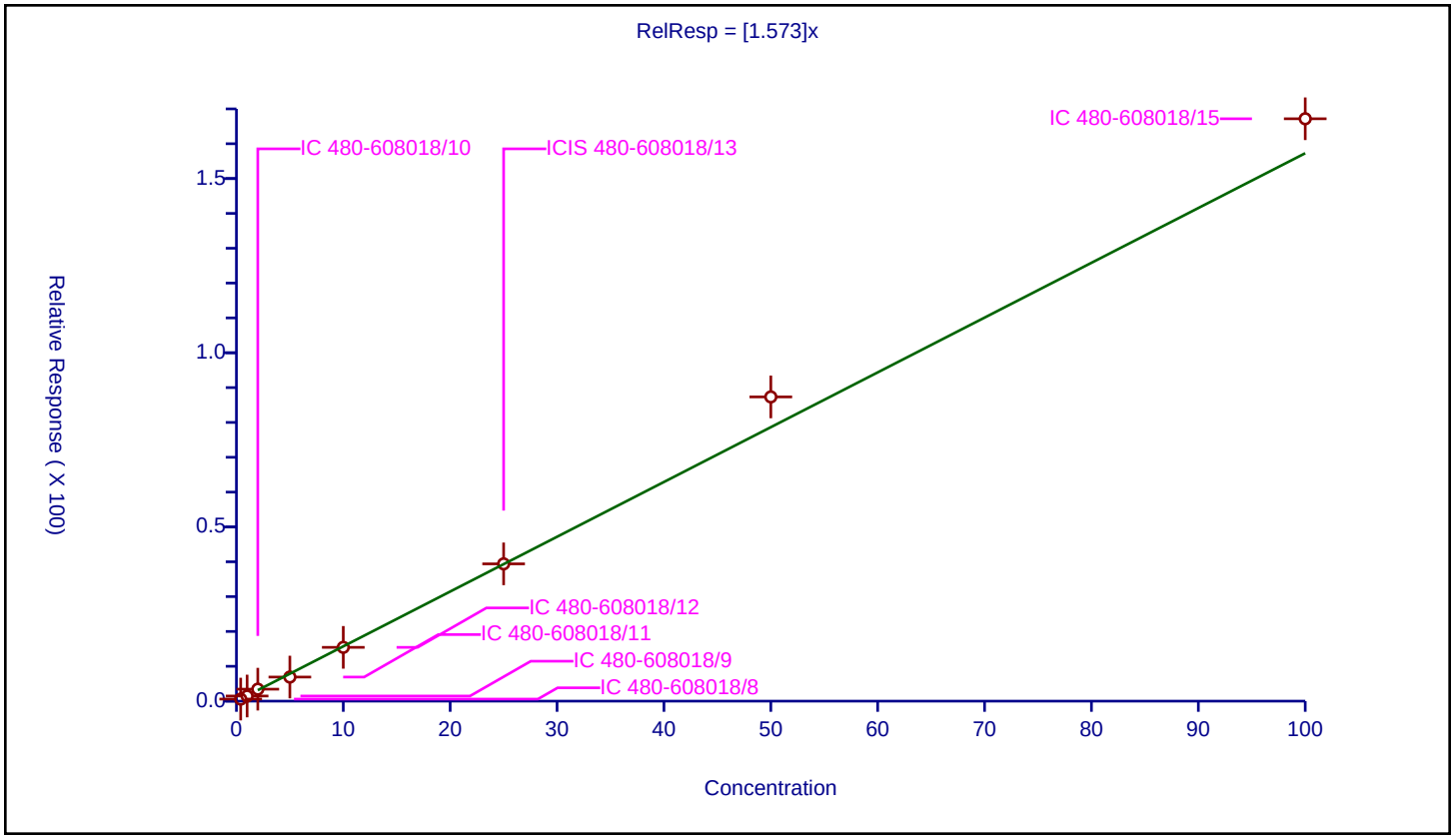
Curve Coefficients

Intercept:	0
Slope:	1.573

Error Coefficients

Standard Error:	384000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.588698	25.0	118864.0	1.471745	Y
2	IC 480-608018/9	1.0	1.470333	25.0	120840.0	1.470333	Y
3	IC 480-608018/10	2.0	3.435171	25.0	121697.0	1.717585	Y
4	IC 480-608018/11	5.0	6.916884	25.0	124825.0	1.383377	Y
5	IC 480-608018/12	10.0	15.440649	25.0	122762.0	1.544065	Y
6	ICIS 480-608018/13	25.0	39.406139	25.0	126368.0	1.576246	Y
7	IC 480-608018/14	50.0	87.328495	25.0	129807.0	1.74657	Y
8	IC 480-608018/15	100.0	167.165251	25.0	132241.0	1.671653	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

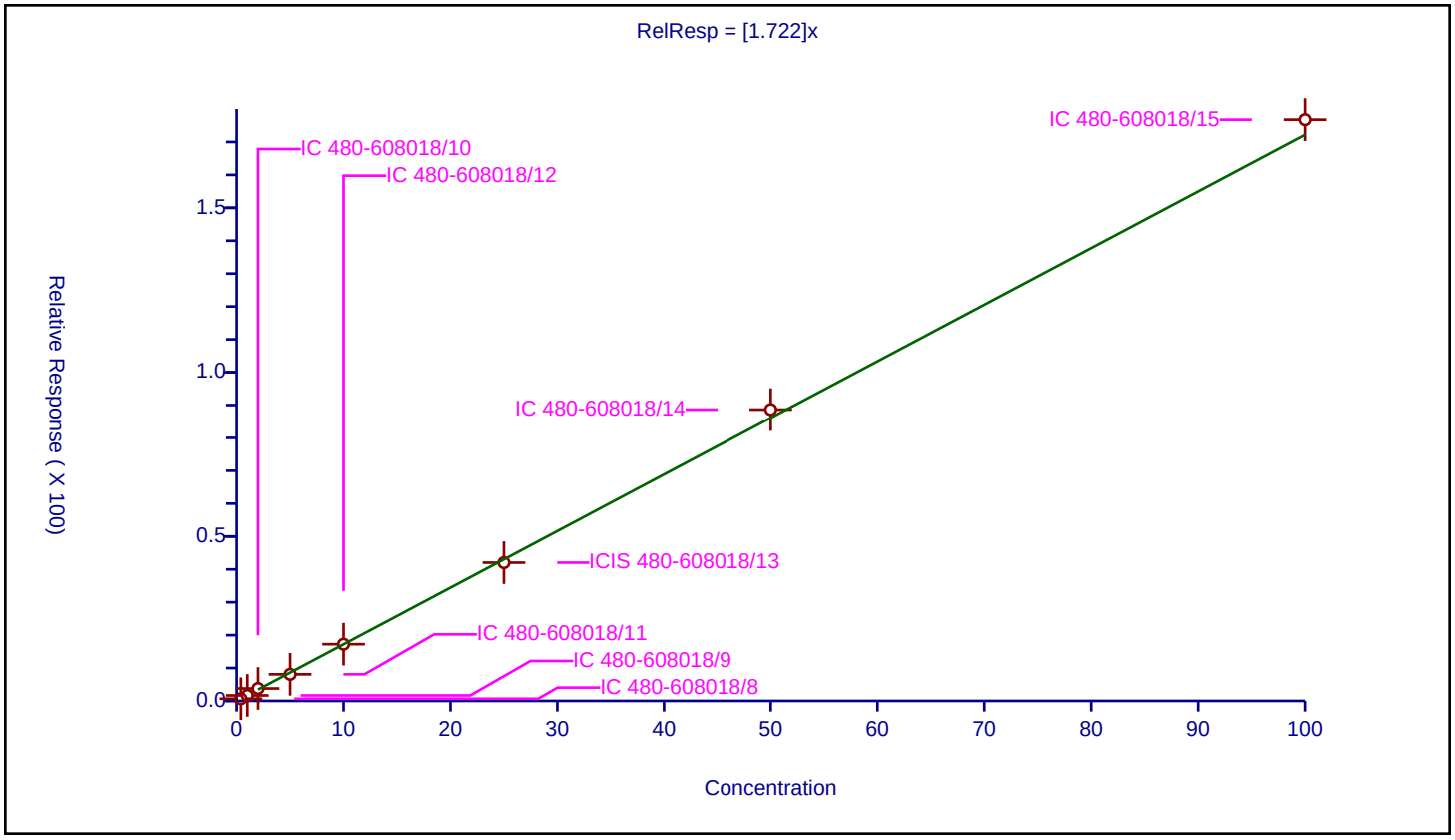
Curve Coefficients

Intercept:	0
Slope:	1.722

Error Coefficients

Standard Error:	404000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.665046	25.0	118864.0	1.662614	Y
2	IC 480-608018/9	1.0	1.660046	25.0	120840.0	1.660046	Y
3	IC 480-608018/10	2.0	3.776798	25.0	121697.0	1.888399	Y
4	IC 480-608018/11	5.0	8.086121	25.0	124825.0	1.617224	Y
5	IC 480-608018/12	10.0	17.243935	25.0	122762.0	1.724394	Y
6	ICIS 480-608018/13	25.0	42.050796	25.0	126368.0	1.682032	Y
7	IC 480-608018/14	50.0	88.62908	25.0	129807.0	1.772582	Y
8	IC 480-608018/15	100.0	176.772332	25.0	132241.0	1.767723	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

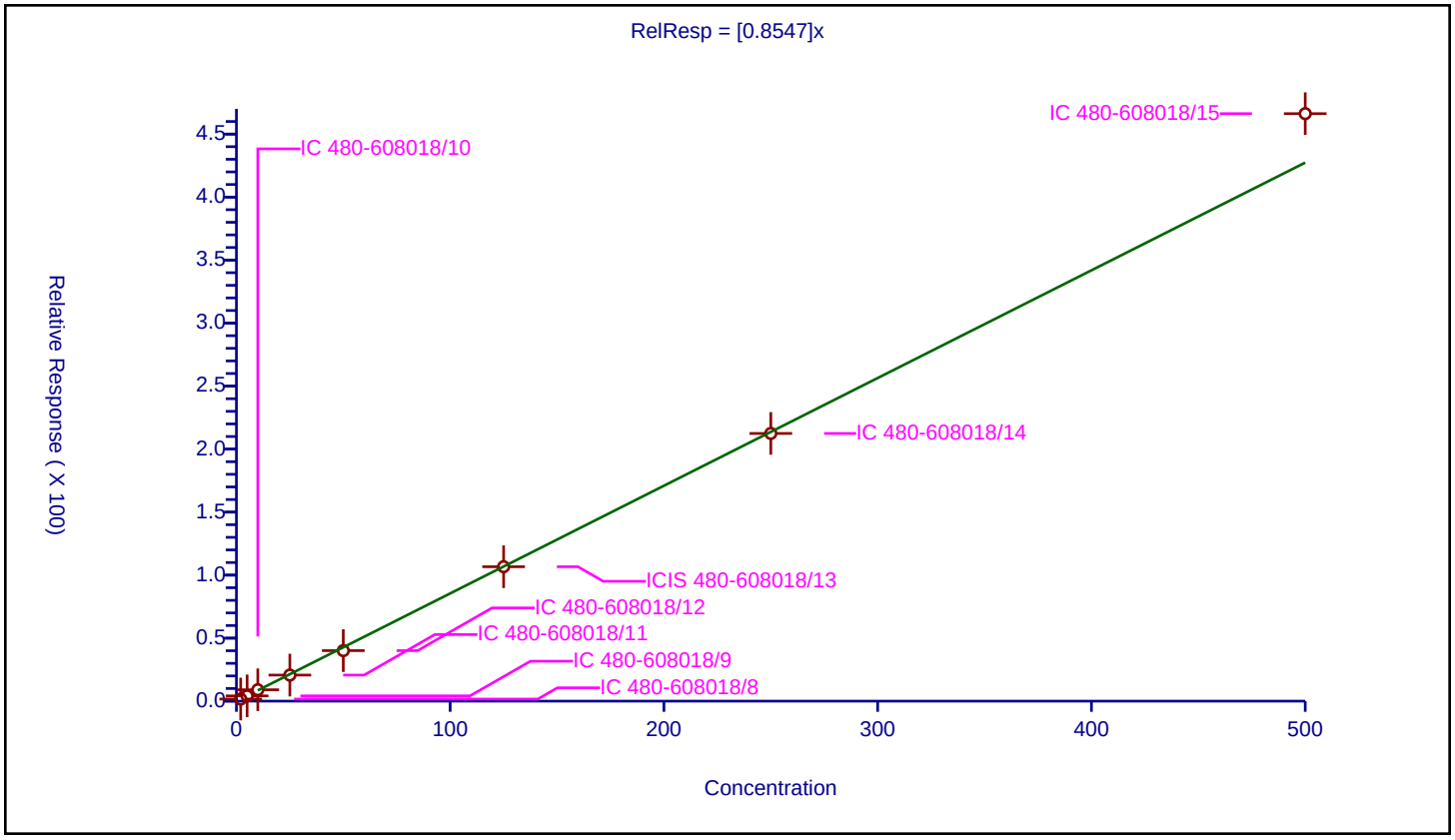
Curve Coefficients

Intercept:	0
Slope:	0.8547

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	5.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	2.0	1.668714	25.0	118864.0	0.834357	Y
2	IC 480-608018/9	5.0	4.179287	25.0	120840.0	0.835857	Y
3	IC 480-608018/10	10.0	9.030214	25.0	121697.0	0.903021	Y
4	IC 480-608018/11	25.0	20.687963	25.0	124825.0	0.827519	Y
5	IC 480-608018/12	50.0	40.076327	25.0	122762.0	0.801527	Y
6	ICIS 480-608018/13	125.0	106.661101	25.0	126368.0	0.853289	Y
7	IC 480-608018/14	250.0	212.441355	25.0	129807.0	0.849765	Y
8	IC 480-608018/15	500.0	466.218684	25.0	132241.0	0.932437	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

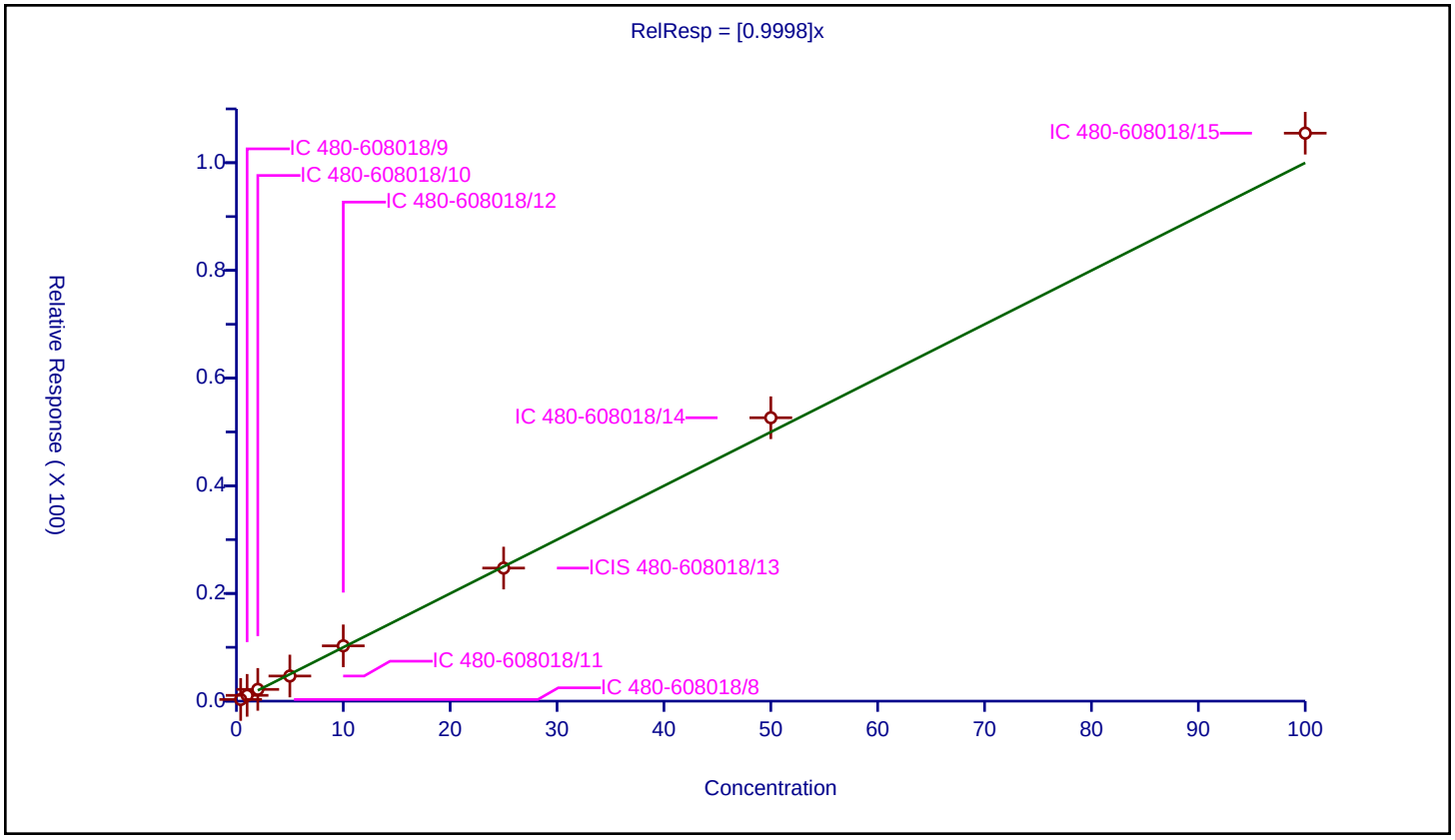
Curve Coefficients

Intercept:	0
Slope:	0.9998

Error Coefficients

Standard Error:	240000
Relative Standard Error:	10.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.308967	25.0	118864.0	0.772416	Y
2	IC 480-608018/9	1.0	1.075803	25.0	120840.0	1.075803	Y
3	IC 480-608018/10	2.0	2.185756	25.0	121697.0	1.092878	Y
4	IC 480-608018/11	5.0	4.668336	25.0	124825.0	0.933667	Y
5	IC 480-608018/12	10.0	10.271908	25.0	122762.0	1.027191	Y
6	ICIS 480-608018/13	25.0	24.716107	25.0	126368.0	0.988644	Y
7	IC 480-608018/14	50.0	52.634488	25.0	129807.0	1.05269	Y
8	IC 480-608018/15	100.0	105.488086	25.0	132241.0	1.054881	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

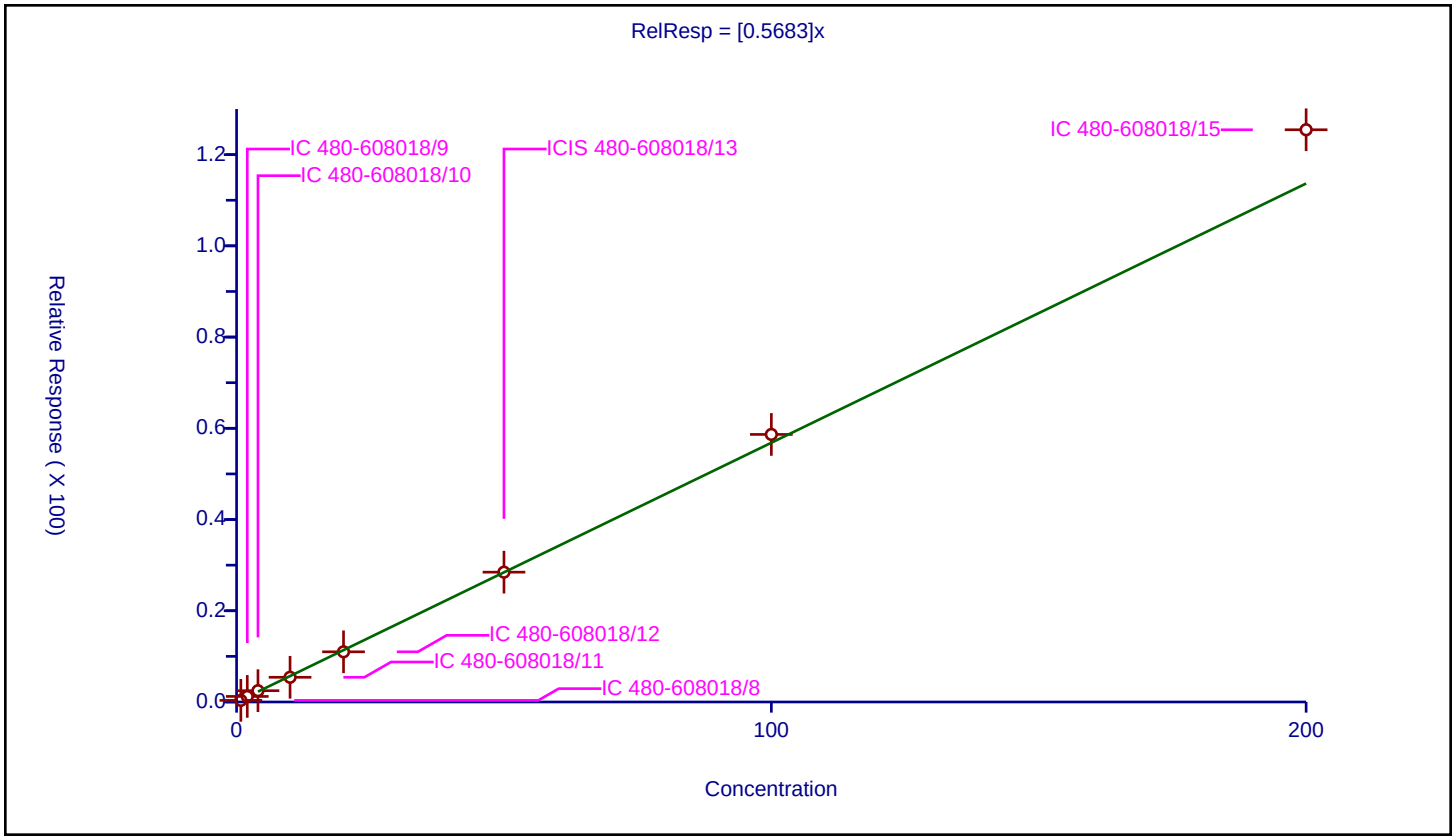
Curve Coefficients

Intercept:	0
Slope:	0.5683

Error Coefficients

Standard Error:	282000
Relative Standard Error:	10.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.8	0.355448	25.0	118864.0	0.44431	Y
2	IC 480-608018/9	2.0	1.216485	25.0	120840.0	0.608242	Y
3	IC 480-608018/10	4.0	2.477259	25.0	121697.0	0.619315	Y
4	IC 480-608018/11	10.0	5.417184	25.0	124825.0	0.541718	Y
5	IC 480-608018/12	20.0	11.001776	25.0	122762.0	0.550089	Y
6	ICIS 480-608018/13	50.0	28.463693	25.0	126368.0	0.569274	Y
7	IC 480-608018/14	100.0	58.656698	25.0	129807.0	0.586567	Y
8	IC 480-608018/15	200.0	125.449936	25.0	132241.0	0.62725	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

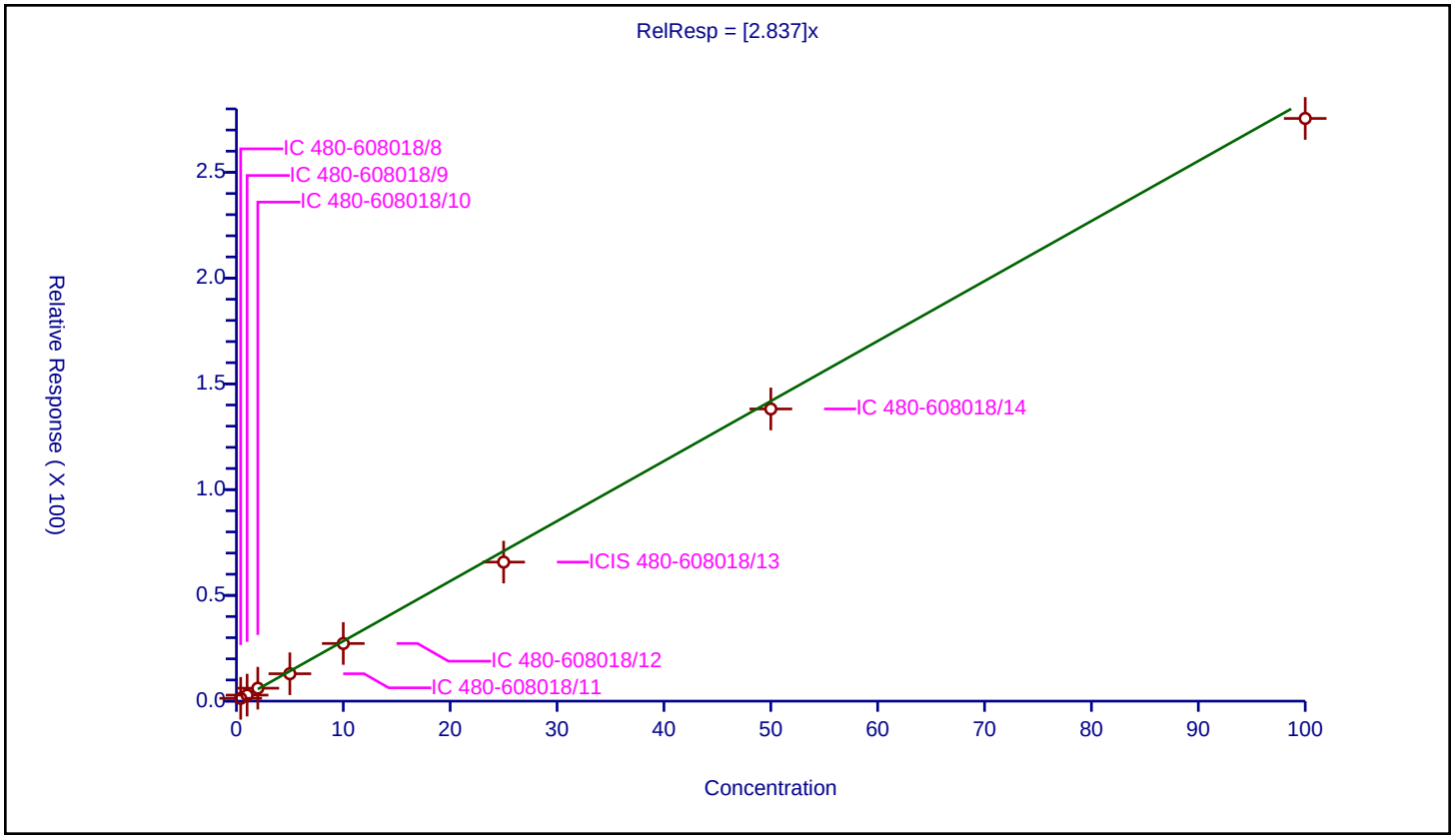
Curve Coefficients

Intercept:	0
Slope:	2.837

Error Coefficients

Standard Error:	629000
Relative Standard Error:	8.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.332826	25.0	118864.0	3.332064	Y
2	IC 480-608018/9	1.0	2.848808	25.0	120840.0	2.848808	Y
3	IC 480-608018/10	2.0	6.111079	25.0	121697.0	3.05554	Y
4	IC 480-608018/11	5.0	12.948127	25.0	124825.0	2.589625	Y
5	IC 480-608018/12	10.0	27.254158	25.0	122762.0	2.725416	Y
6	ICIS 480-608018/13	25.0	65.734403	25.0	126368.0	2.629376	Y
7	IC 480-608018/14	50.0	138.135655	25.0	129807.0	2.762713	Y
8	IC 480-608018/15	100.0	275.485288	25.0	132241.0	2.754853	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

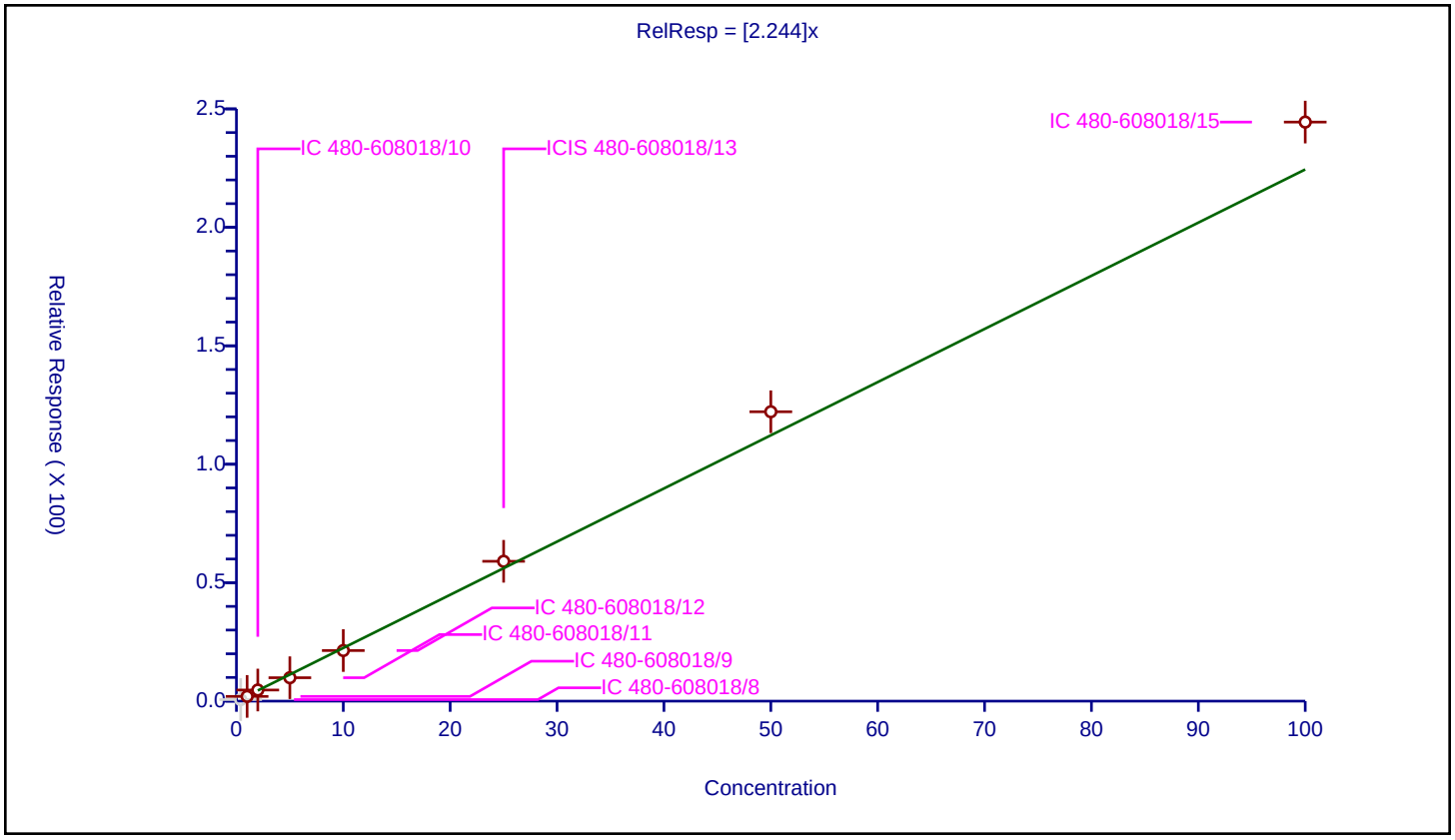
Curve Coefficients

Intercept:	0
Slope:	2.244

Error Coefficients

Standard Error:	602000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.652847	25.0	118864.0	1.632117	N
2	IC 480-608018/9	1.0	1.999545	25.0	120840.0	1.999545	Y
3	IC 480-608018/10	2.0	4.697733	25.0	121697.0	2.348866	Y
4	IC 480-608018/11	5.0	9.885039	25.0	124825.0	1.977008	Y
5	IC 480-608018/12	10.0	21.360641	25.0	122762.0	2.136064	Y
6	ICIS 480-608018/13	25.0	59.025821	25.0	126368.0	2.361033	Y
7	IC 480-608018/14	50.0	122.163289	25.0	129807.0	2.443266	Y
8	IC 480-608018/15	100.0	244.431379	25.0	132241.0	2.444314	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

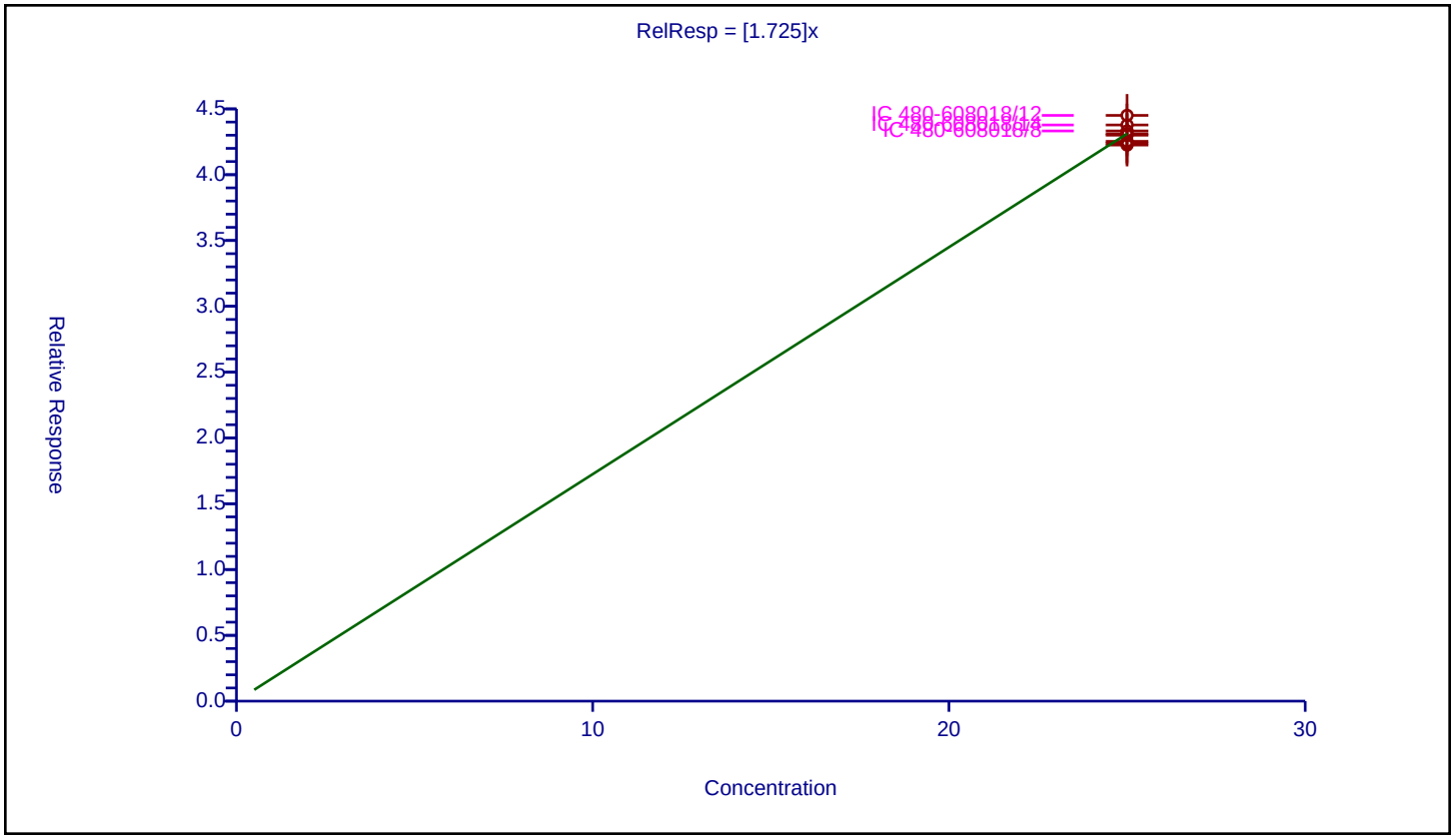
Curve Coefficients

Intercept:	0
Slope:	1.725

Error Coefficients

Standard Error:	230000
Relative Standard Error:	1.8
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	25.0	43.324934	25.0	118864.0	1.732997	Y
2	IC 480-608018/9	25.0	42.40173	25.0	120840.0	1.696069	Y
3	IC 480-608018/10	25.0	42.532889	25.0	121697.0	1.701316	Y
4	IC 480-608018/11	25.0	43.003405	25.0	124825.0	1.720136	Y
5	IC 480-608018/12	25.0	44.505629	25.0	122762.0	1.780225	Y
6	ICIS 480-608018/13	25.0	42.253379	25.0	126368.0	1.690135	Y
7	IC 480-608018/14	25.0	43.7773	25.0	129807.0	1.751092	Y
8	IC 480-608018/15	25.0	43.100854	25.0	132241.0	1.724034	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

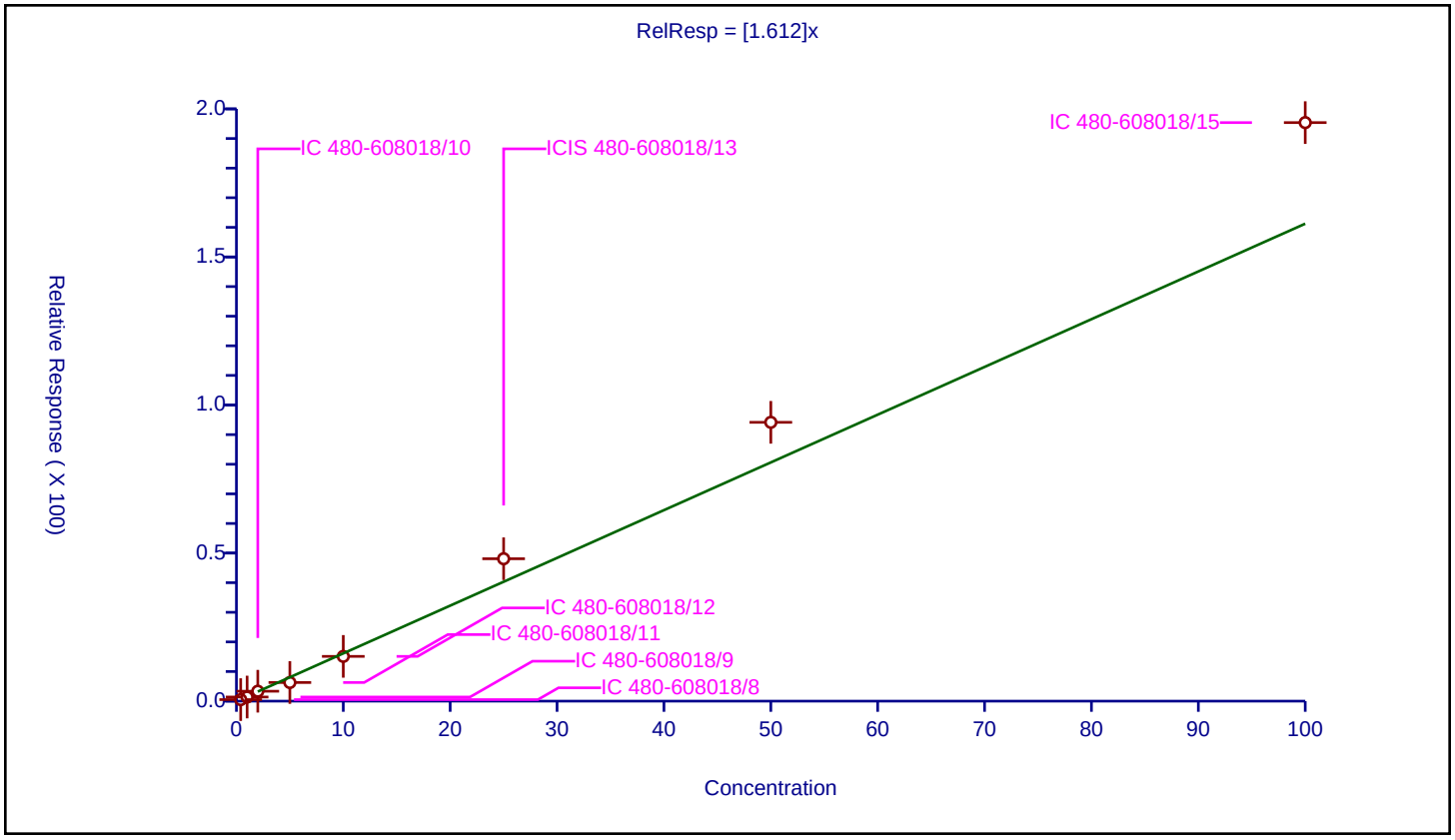
Curve Coefficients

Intercept:	0
Slope:	1.612

Error Coefficients

Standard Error:	443000
Relative Standard Error:	17.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.520763	25.0	118864.0	1.301908	Y
2	IC 480-608018/9	1.0	1.391509	25.0	120840.0	1.391509	Y
3	IC 480-608018/10	2.0	3.349302	25.0	121697.0	1.674651	Y
4	IC 480-608018/11	5.0	6.292209	25.0	124825.0	1.258442	Y
5	IC 480-608018/12	10.0	15.113594	25.0	122762.0	1.511359	Y
6	ICIS 480-608018/13	25.0	48.084365	25.0	126368.0	1.923375	Y
7	IC 480-608018/14	50.0	94.154398	25.0	129807.0	1.883088	Y
8	IC 480-608018/15	100.0	195.365658	25.0	132241.0	1.953657	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

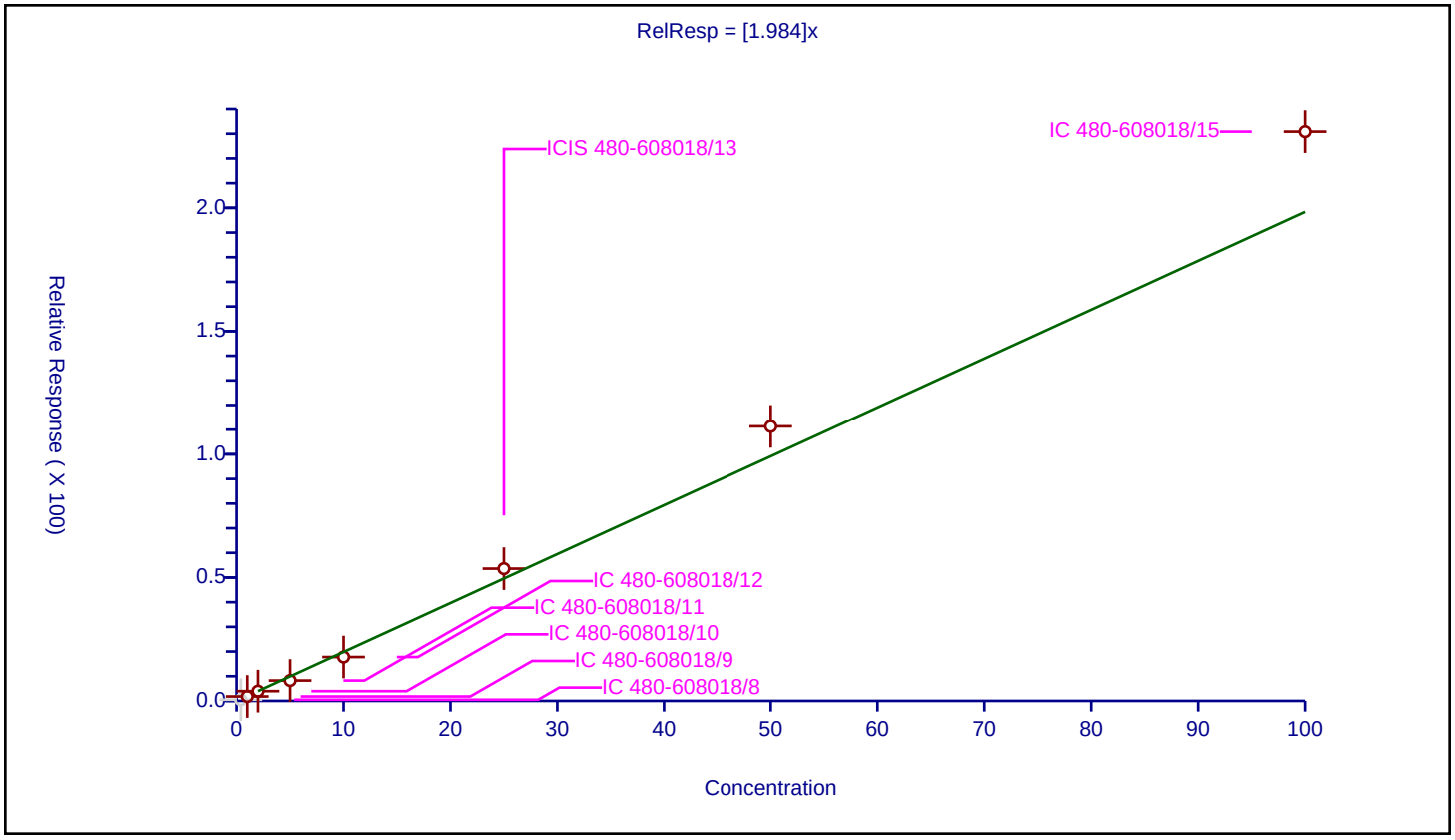
Curve Coefficients

Intercept:	0
Slope:	1.984

Error Coefficients

Standard Error:	564000
Relative Standard Error:	12.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.481012	25.0	118864.0	1.20253	N
2	IC 480-608018/9	1.0	1.801556	25.0	120840.0	1.801556	Y
3	IC 480-608018/10	2.0	3.952645	25.0	121697.0	1.976322	Y
4	IC 480-608018/11	5.0	8.252954	25.0	124825.0	1.650591	Y
5	IC 480-608018/12	10.0	17.780339	25.0	122762.0	1.778034	Y
6	ICIS 480-608018/13	25.0	53.604947	25.0	126368.0	2.144198	Y
7	IC 480-608018/14	50.0	111.339142	25.0	129807.0	2.226783	Y
8	IC 480-608018/15	100.0	230.855408	25.0	132241.0	2.308554	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

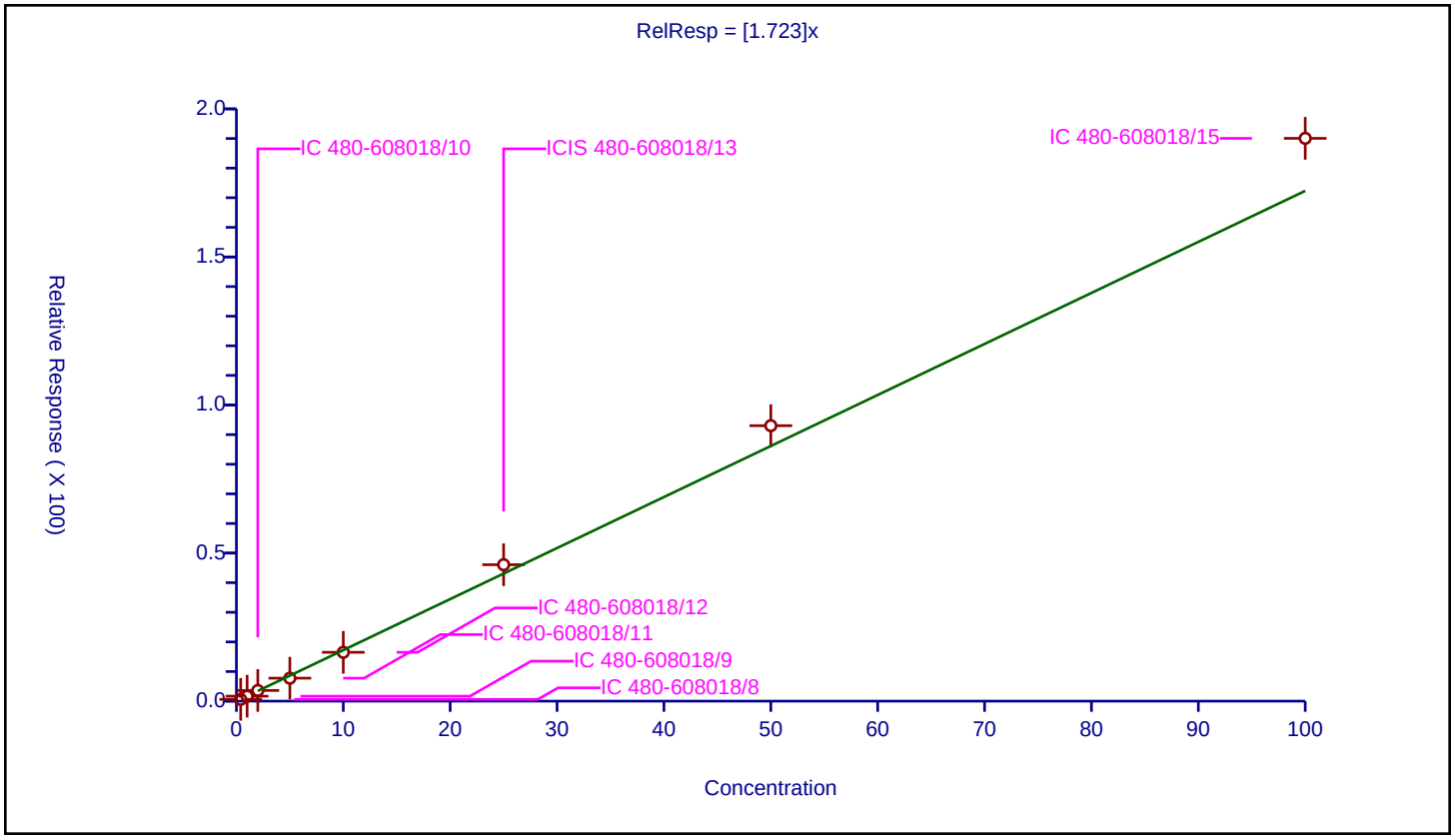
Curve Coefficients

Intercept:	0
Slope:	1.723

Error Coefficients

Standard Error:	432000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.600897	25.0	118864.0	1.502242	Y
2	IC 480-608018/9	1.0	1.67639	25.0	120840.0	1.67639	Y
3	IC 480-608018/10	2.0	3.605266	25.0	121697.0	1.802633	Y
4	IC 480-608018/11	5.0	7.755458	25.0	124825.0	1.551092	Y
5	IC 480-608018/12	10.0	16.488205	25.0	122762.0	1.64882	Y
6	ICIS 480-608018/13	25.0	46.070999	25.0	126368.0	1.84284	Y
7	IC 480-608018/14	50.0	93.021948	25.0	129807.0	1.860439	Y
8	IC 480-608018/15	100.0	190.055656	25.0	132241.0	1.900557	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

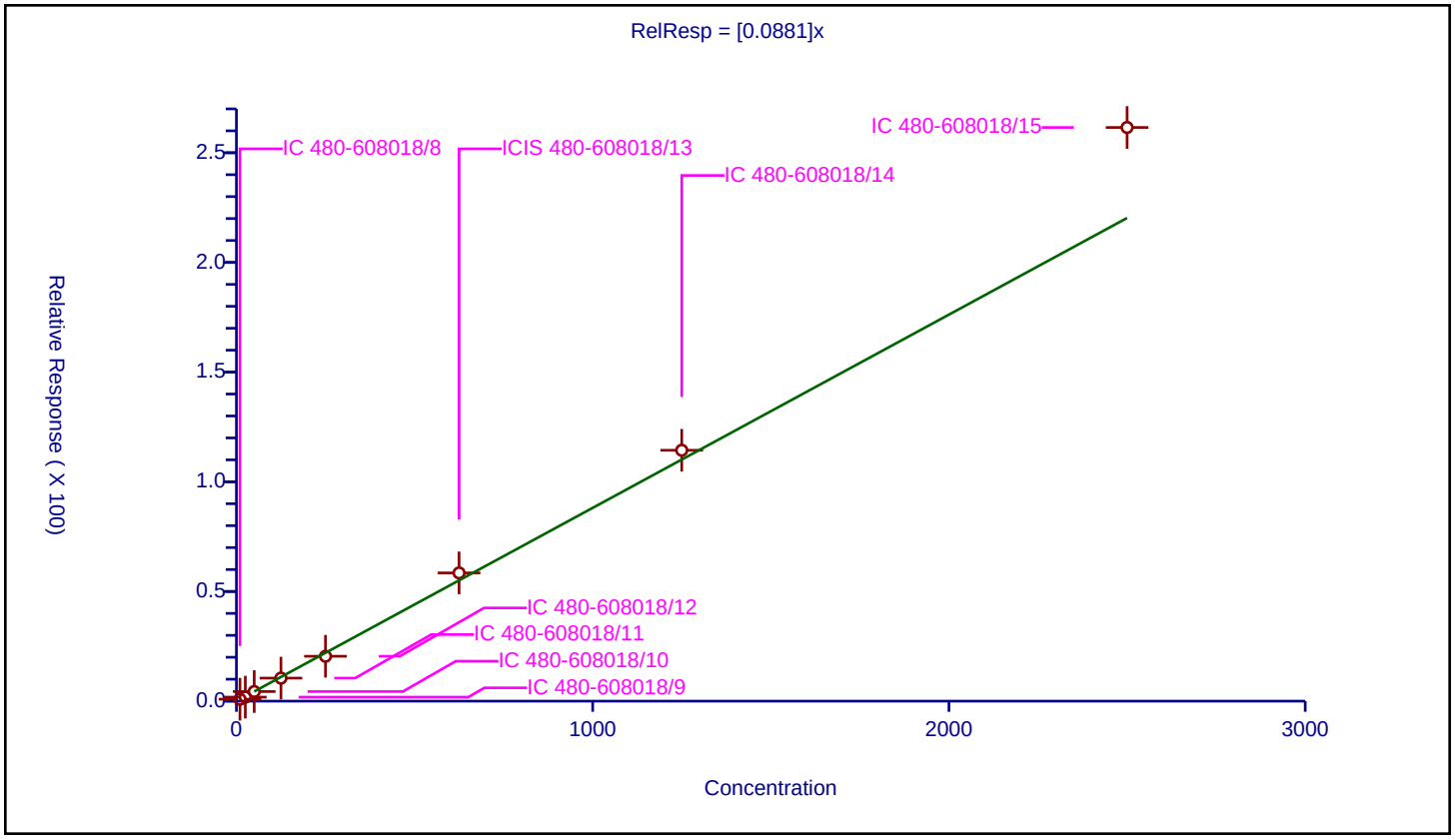
Curve Coefficients

Intercept:	0
Slope:	0.0881

Error Coefficients

Standard Error:	581000
Relative Standard Error:	10.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	10.0	0.884204	25.0	118864.0	0.08842	Y
2	IC 480-608018/9	25.0	1.832175	25.0	120840.0	0.073287	Y
3	IC 480-608018/10	50.0	4.381784	25.0	121697.0	0.087636	Y
4	IC 480-608018/11	125.0	10.501102	25.0	124825.0	0.084009	Y
5	IC 480-608018/12	250.0	20.460525	25.0	122762.0	0.081842	Y
6	ICIS 480-608018/13	625.0	58.457837	25.0	126368.0	0.093533	Y
7	IC 480-608018/14	1250.0	114.37461	25.0	129807.0	0.0915	Y
8	IC 480-608018/15	2500.0	261.521767	25.0	132241.0	0.104609	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

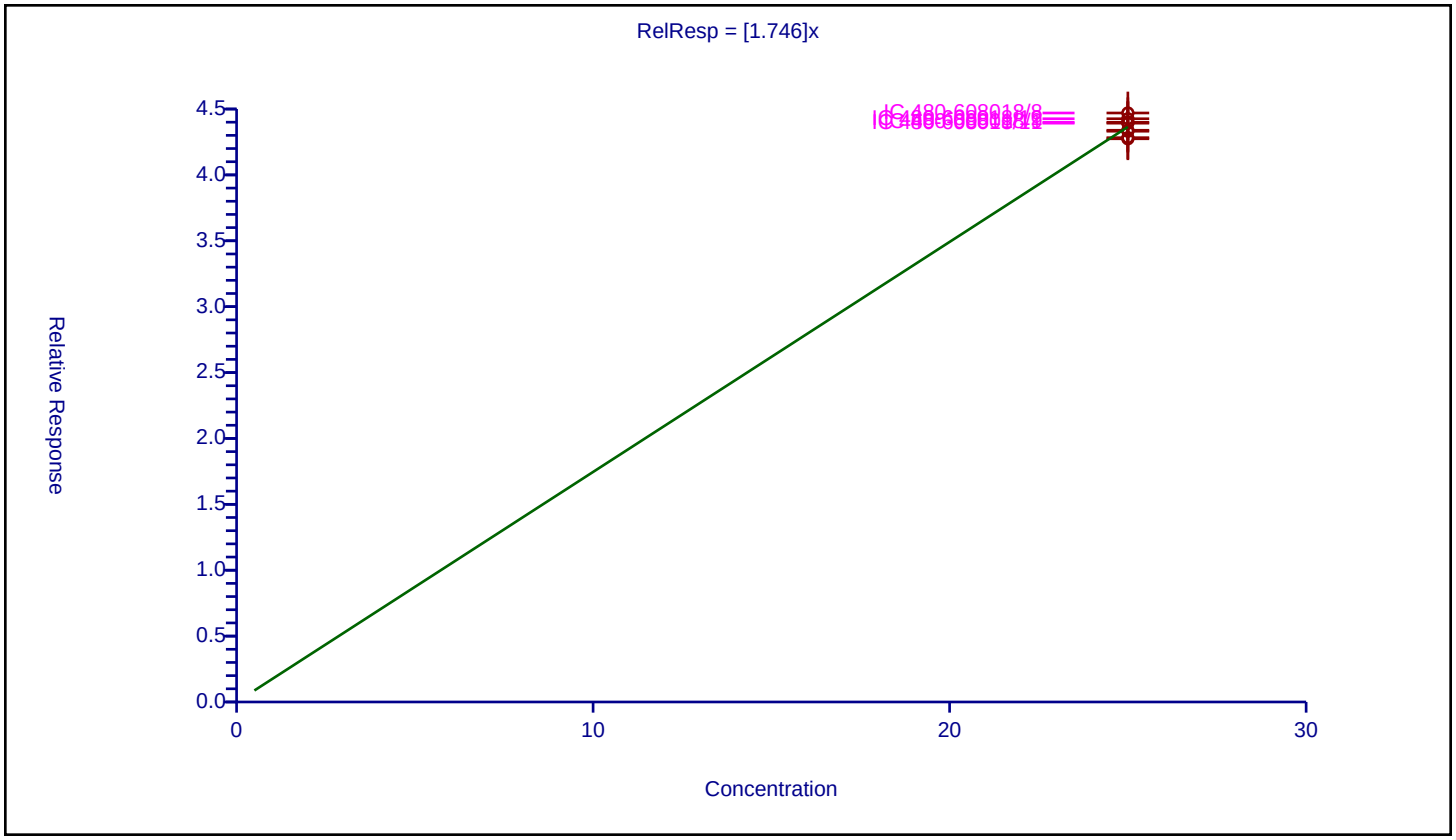
Curve Coefficients

Intercept:	0
Slope:	1.746

Error Coefficients

Standard Error:	233000
Relative Standard Error:	1.6
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	25.0	44.697932	25.0	118864.0	1.787917	Y
2	IC 480-608018/9	25.0	43.989366	25.0	120840.0	1.759575	Y
3	IC 480-608018/10	25.0	43.313927	25.0	121697.0	1.732557	Y
4	IC 480-608018/11	25.0	43.925095	25.0	124825.0	1.757004	Y
5	IC 480-608018/12	25.0	44.260643	25.0	122762.0	1.770426	Y
6	ICIS 480-608018/13	25.0	42.740844	25.0	126368.0	1.709634	Y
7	IC 480-608018/14	25.0	42.82454	25.0	129807.0	1.712982	Y
8	IC 480-608018/15	25.0	43.387263	25.0	132241.0	1.735491	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

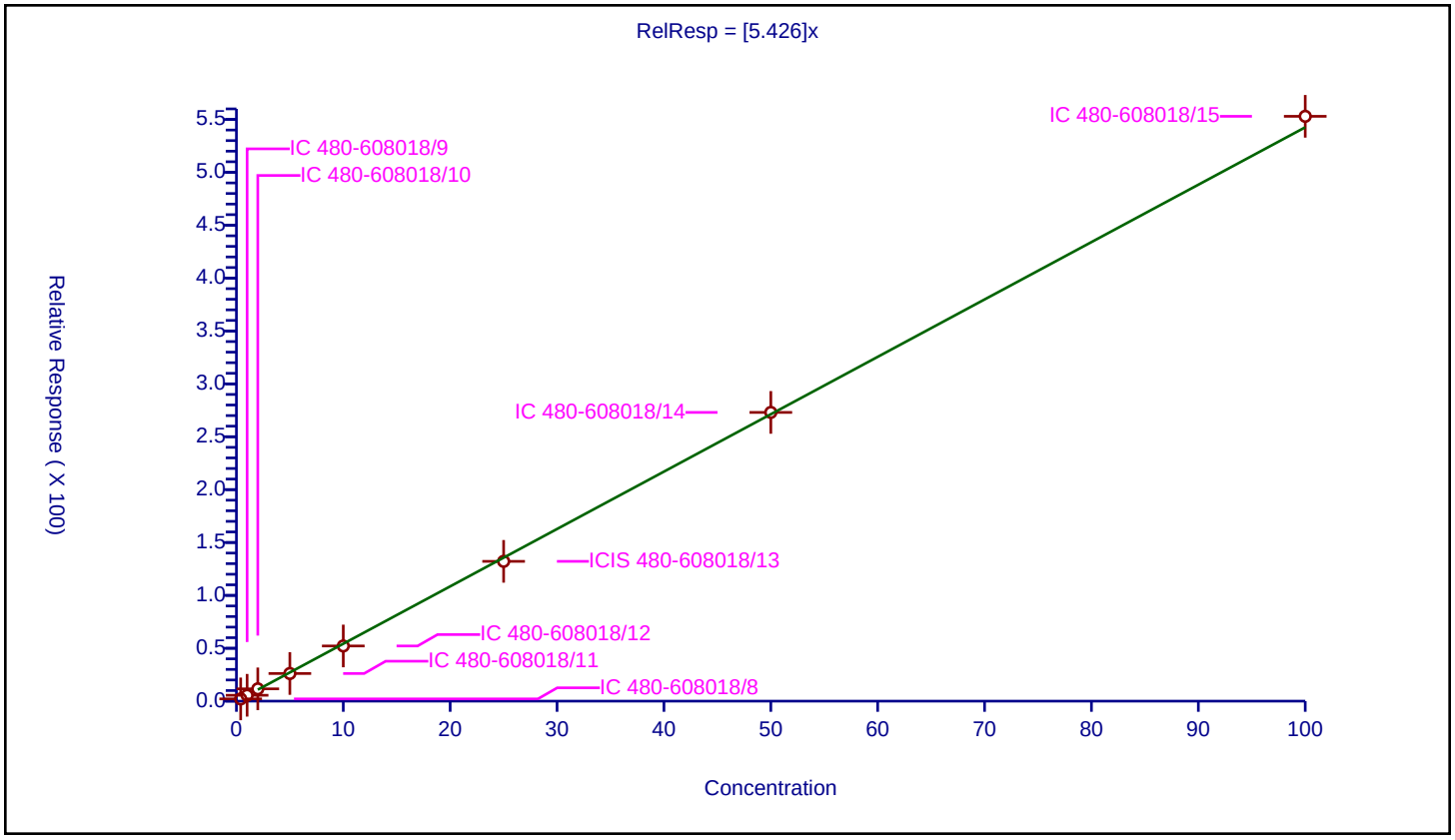
Curve Coefficients

Intercept:	0
Slope:	5.426

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	2.124697	25.0	118864.0	5.311743	Y
2	IC 480-608018/9	1.0	5.560038	25.0	120840.0	5.560038	Y
3	IC 480-608018/10	2.0	11.629498	25.0	121697.0	5.814749	Y
4	IC 480-608018/11	5.0	26.124374	25.0	124825.0	5.224875	Y
5	IC 480-608018/12	10.0	52.167609	25.0	122762.0	5.216761	Y
6	ICIS 480-608018/13	25.0	132.184374	25.0	126368.0	5.287375	Y
7	IC 480-608018/14	50.0	273.009352	25.0	129807.0	5.460187	Y
8	IC 480-608018/15	100.0	552.983946	25.0	132241.0	5.529839	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

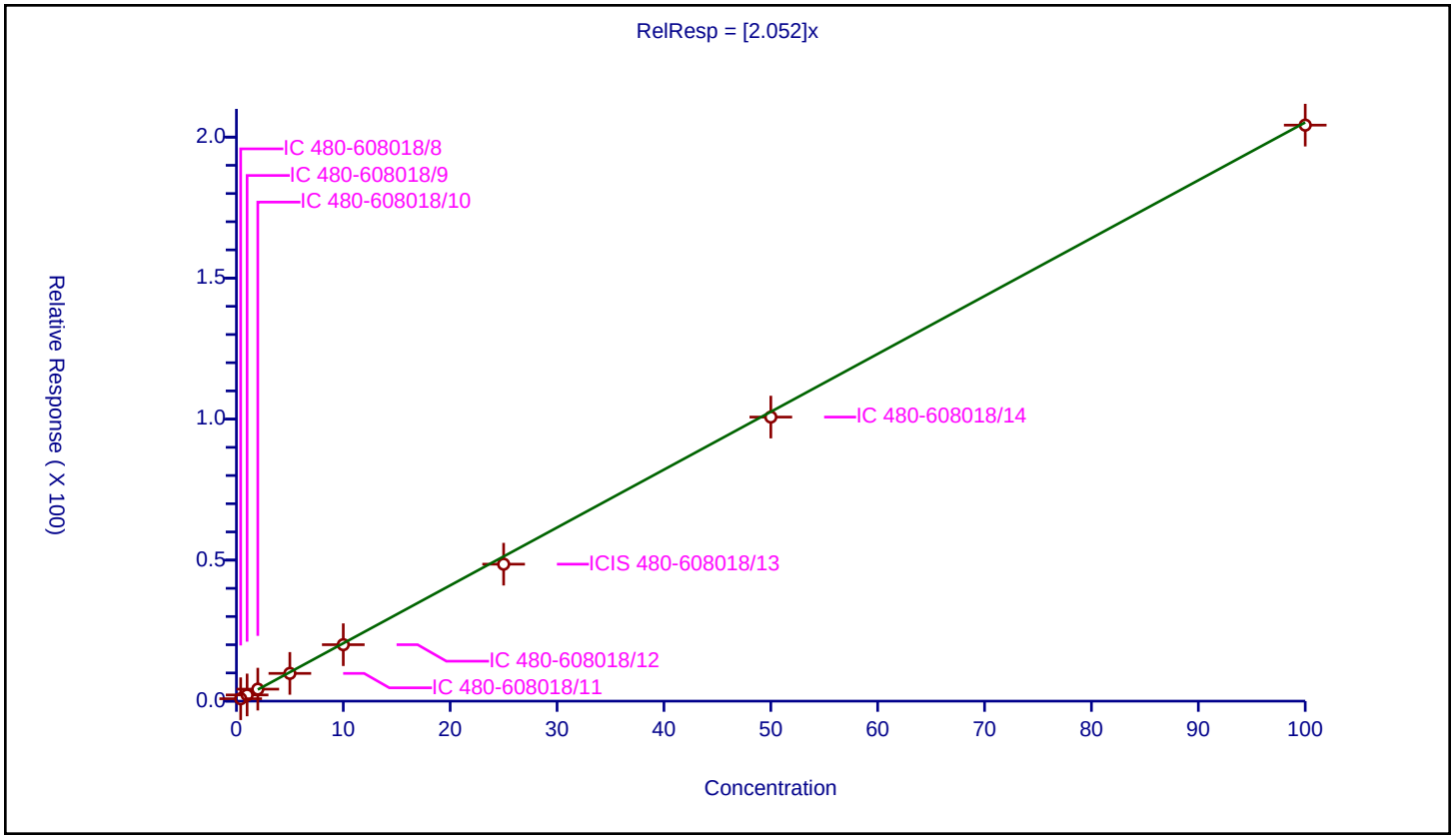
Curve Coefficients

Intercept:	0
Slope:	2.052

Error Coefficients

Standard Error:	465000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.850342	25.0	118864.0	2.125854	Y
2	IC 480-608018/9	1.0	2.195051	25.0	120840.0	2.195051	Y
3	IC 480-608018/10	2.0	4.252364	25.0	121697.0	2.126182	Y
4	IC 480-608018/11	5.0	9.836771	25.0	124825.0	1.967354	Y
5	IC 480-608018/12	10.0	20.017391	25.0	122762.0	2.001739	Y
6	ICIS 480-608018/13	25.0	48.569258	25.0	126368.0	1.94277	Y
7	IC 480-608018/14	50.0	100.727234	25.0	129807.0	2.014545	Y
8	IC 480-608018/15	100.0	204.241688	25.0	132241.0	2.042417	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

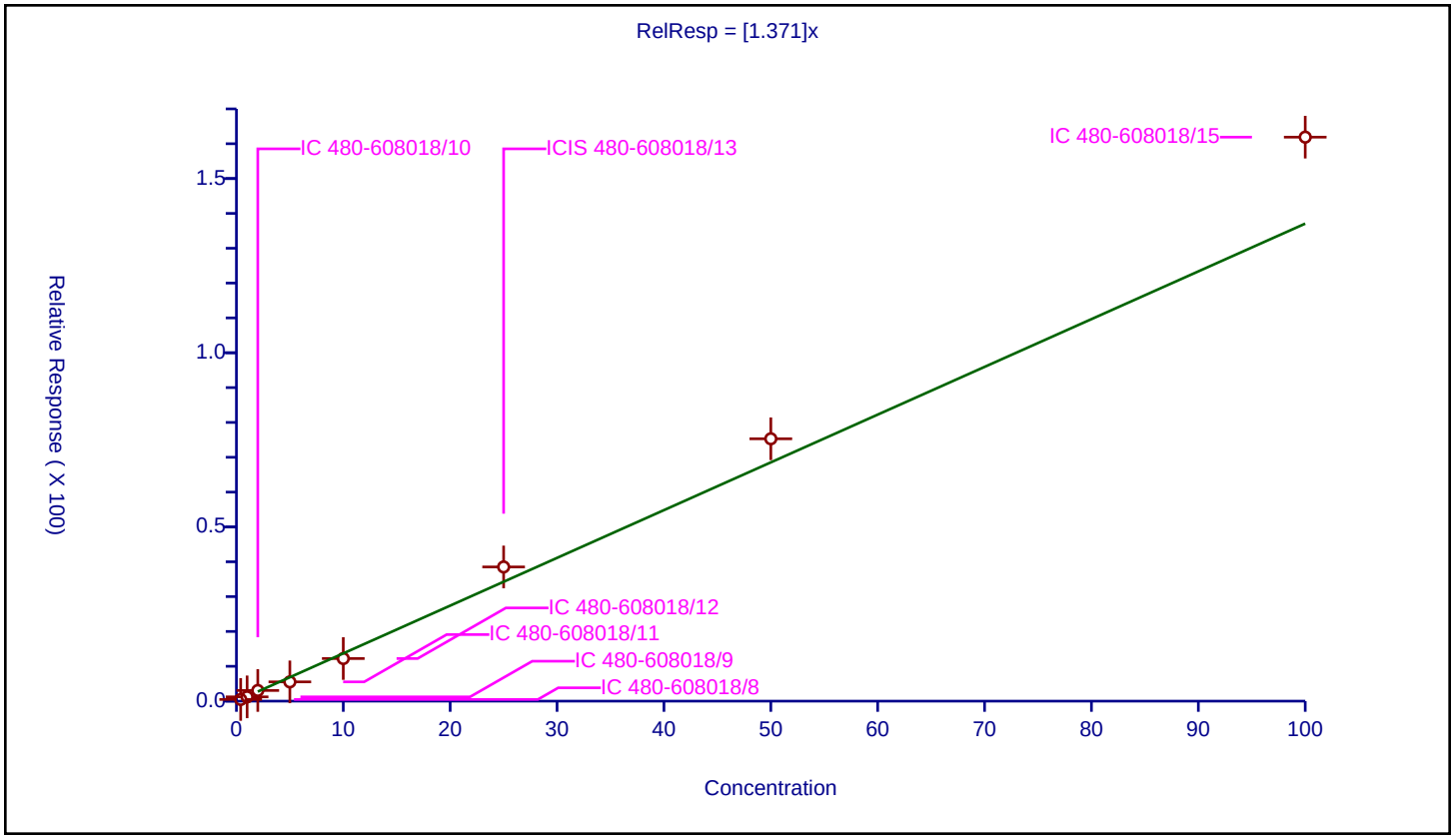
Curve Coefficients

Intercept:	0
Slope:	1.371

Error Coefficients

Standard Error:	364000
Relative Standard Error:	14.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.485218	25.0	118864.0	1.213046	Y
2	IC 480-608018/9	1.0	1.225381	25.0	120840.0	1.225381	Y
3	IC 480-608018/10	2.0	3.062935	25.0	121697.0	1.531467	Y
4	IC 480-608018/11	5.0	5.531344	25.0	124825.0	1.106269	Y
5	IC 480-608018/12	10.0	12.229965	25.0	122762.0	1.222997	Y
6	ICIS 480-608018/13	25.0	38.522806	25.0	126368.0	1.540912	Y
7	IC 480-608018/14	50.0	75.306224	25.0	129807.0	1.506124	Y
8	IC 480-608018/15	100.0	161.890979	25.0	132241.0	1.61891	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

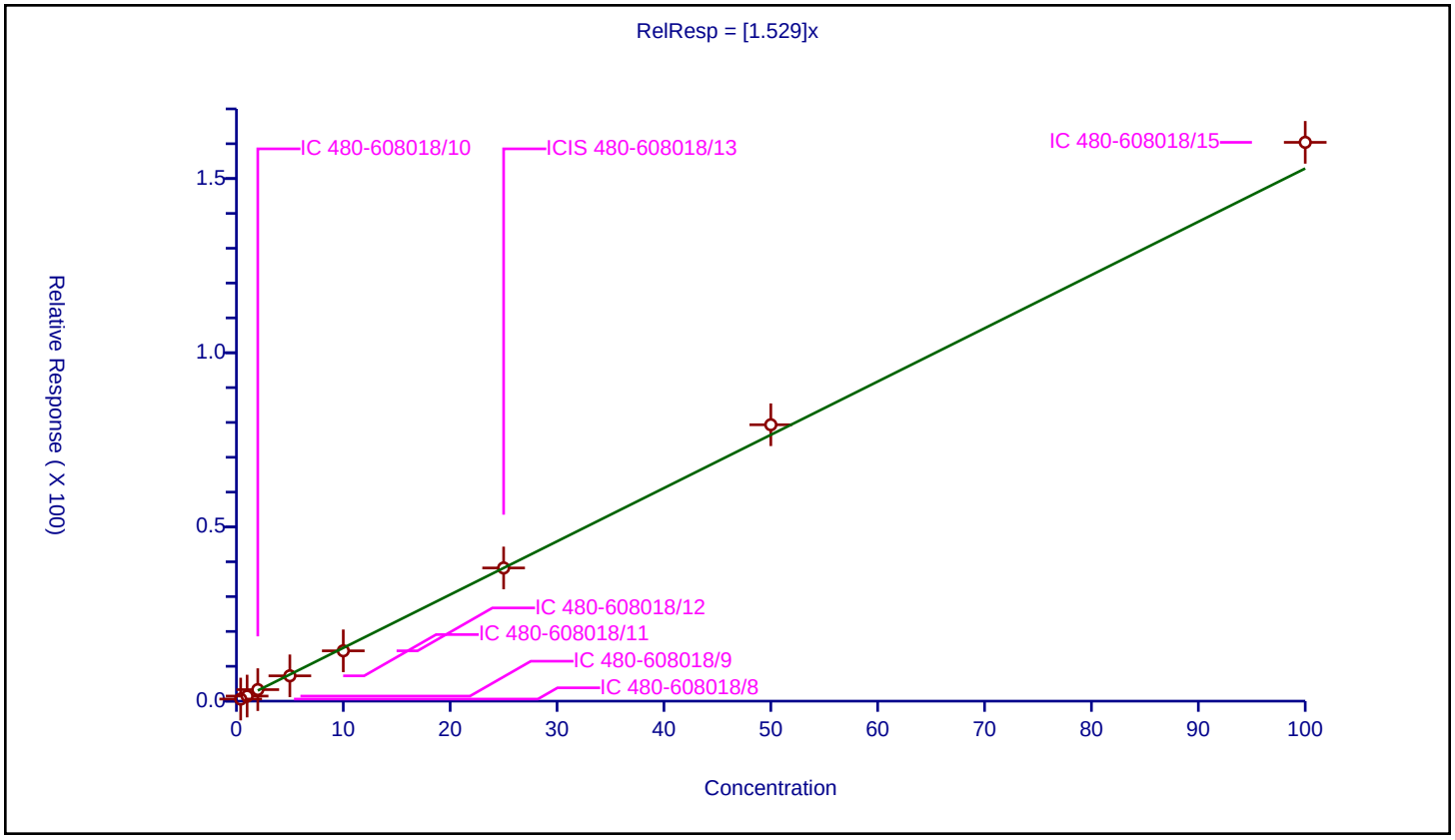
Curve Coefficients

Intercept:	0
Slope:	1.529

Error Coefficients

Standard Error:	365000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.599635	25.0	118864.0	1.499087	Y
2	IC 480-608018/9	1.0	1.458954	25.0	120840.0	1.458954	Y
3	IC 480-608018/10	2.0	3.30986	25.0	121697.0	1.65493	Y
4	IC 480-608018/11	5.0	7.270379	25.0	124825.0	1.454076	Y
5	IC 480-608018/12	10.0	14.447875	25.0	122762.0	1.444787	Y
6	ICIS 480-608018/13	25.0	38.230209	25.0	126368.0	1.529208	Y
7	IC 480-608018/14	50.0	79.334319	25.0	129807.0	1.586686	Y
8	IC 480-608018/15	100.0	160.398061	25.0	132241.0	1.603981	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

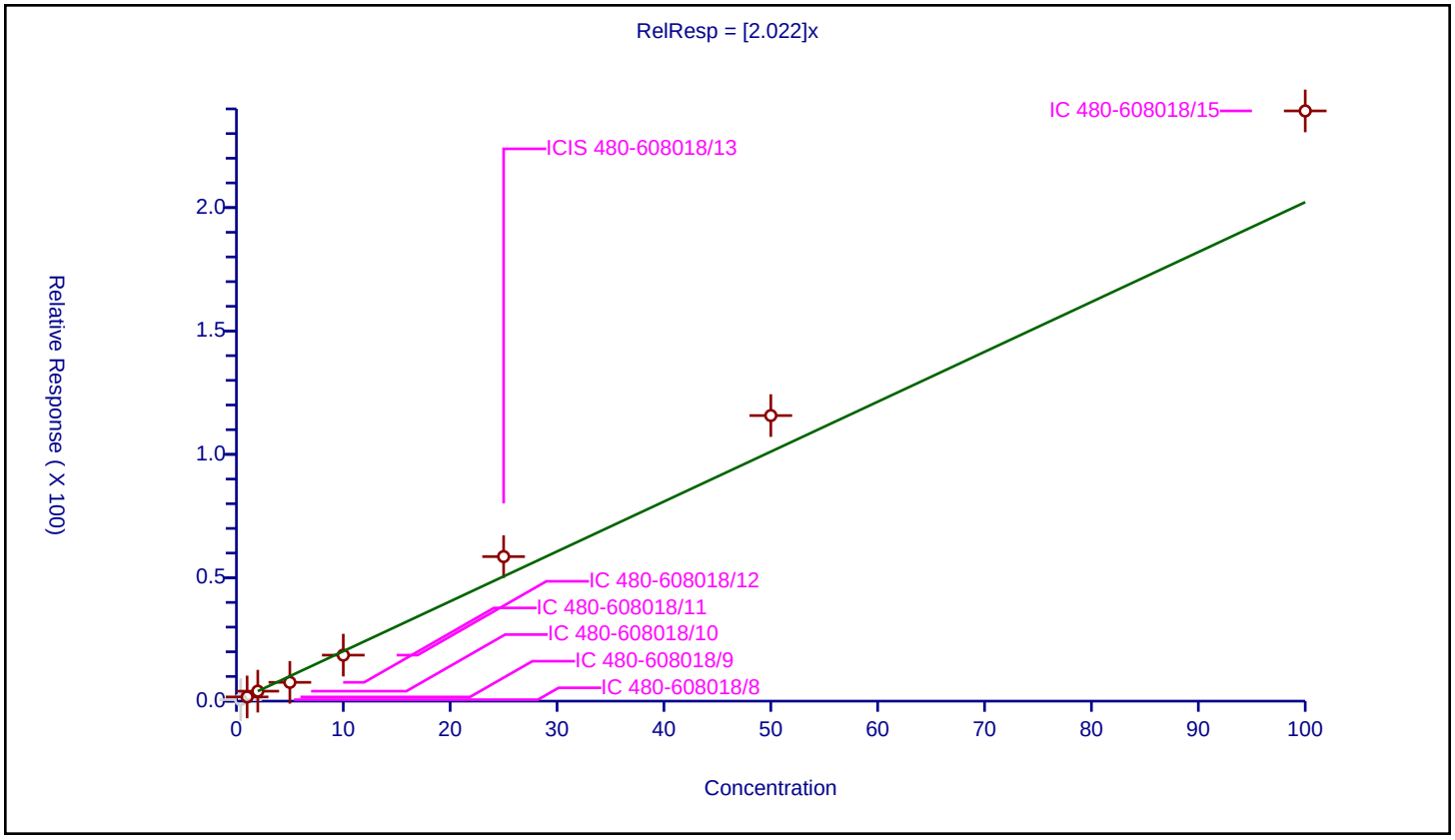
Curve Coefficients

Intercept:	0
Slope:	2.022

Error Coefficients

Standard Error:	586000
Relative Standard Error:	17.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.591432	25.0	118864.0	1.478581	N
2	IC 480-608018/9	1.0	1.696458	25.0	120840.0	1.696458	Y
3	IC 480-608018/10	2.0	4.043033	25.0	121697.0	2.021517	Y
4	IC 480-608018/11	5.0	7.609854	25.0	124825.0	1.521971	Y
5	IC 480-608018/12	10.0	18.648279	25.0	122762.0	1.864828	Y
6	ICIS 480-608018/13	25.0	58.573175	25.0	126368.0	2.342927	Y
7	IC 480-608018/14	50.0	115.729314	25.0	129807.0	2.314586	Y
8	IC 480-608018/15	100.0	239.178092	25.0	132241.0	2.391781	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

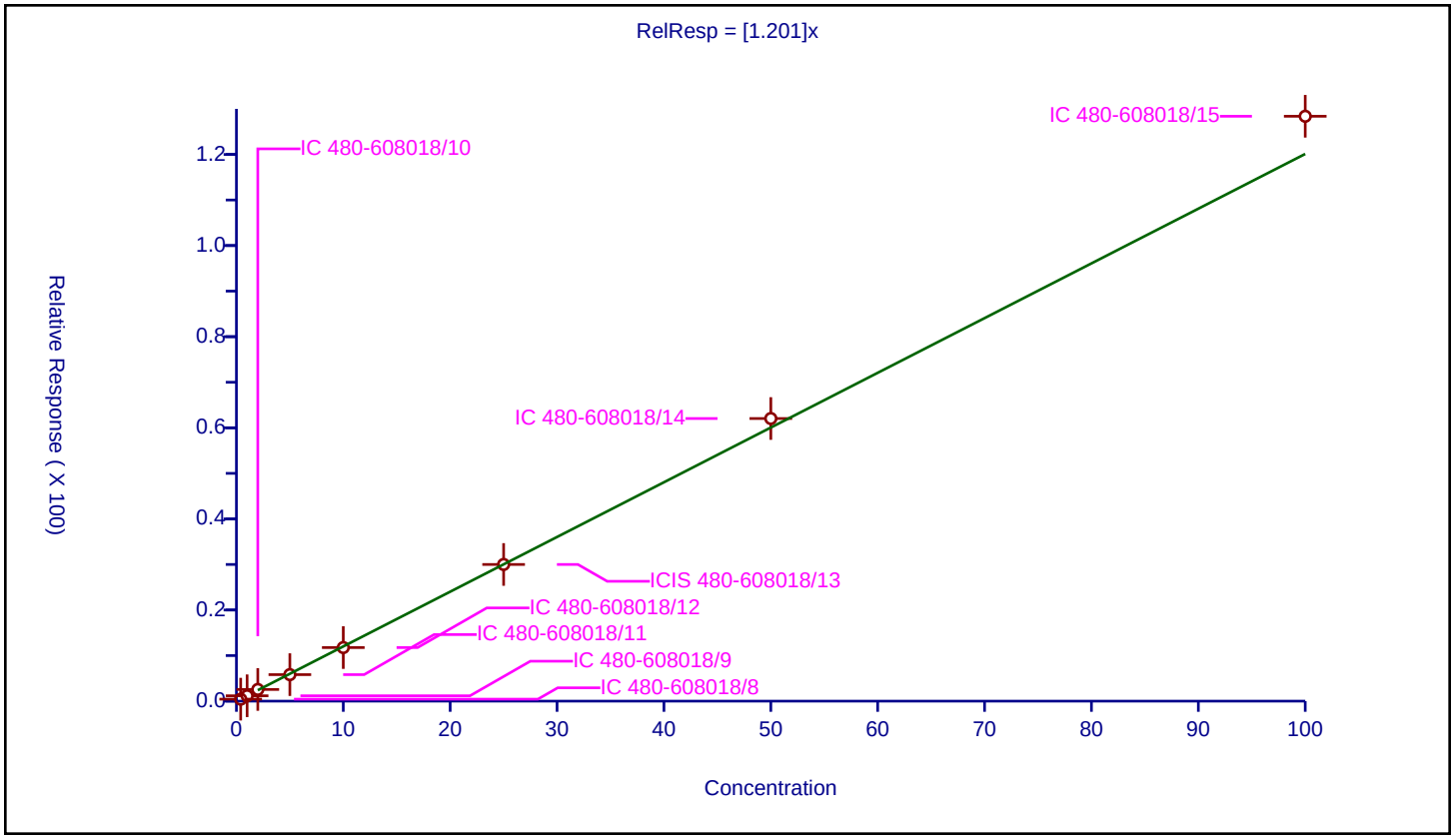
Curve Coefficients

Intercept:	0
Slope:	1.201

Error Coefficients

Standard Error:	291000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.433899	25.0	118864.0	1.084748	Y
2	IC 480-608018/9	1.0	1.179038	25.0	120840.0	1.179038	Y
3	IC 480-608018/10	2.0	2.56169	25.0	121697.0	1.280845	Y
4	IC 480-608018/11	5.0	5.818145	25.0	124825.0	1.163629	Y
5	IC 480-608018/12	10.0	11.757303	25.0	122762.0	1.17573	Y
6	ICIS 480-608018/13	25.0	29.998299	25.0	126368.0	1.199932	Y
7	IC 480-608018/14	50.0	62.036523	25.0	129807.0	1.24073	Y
8	IC 480-608018/15	100.0	128.37868	25.0	132241.0	1.283787	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

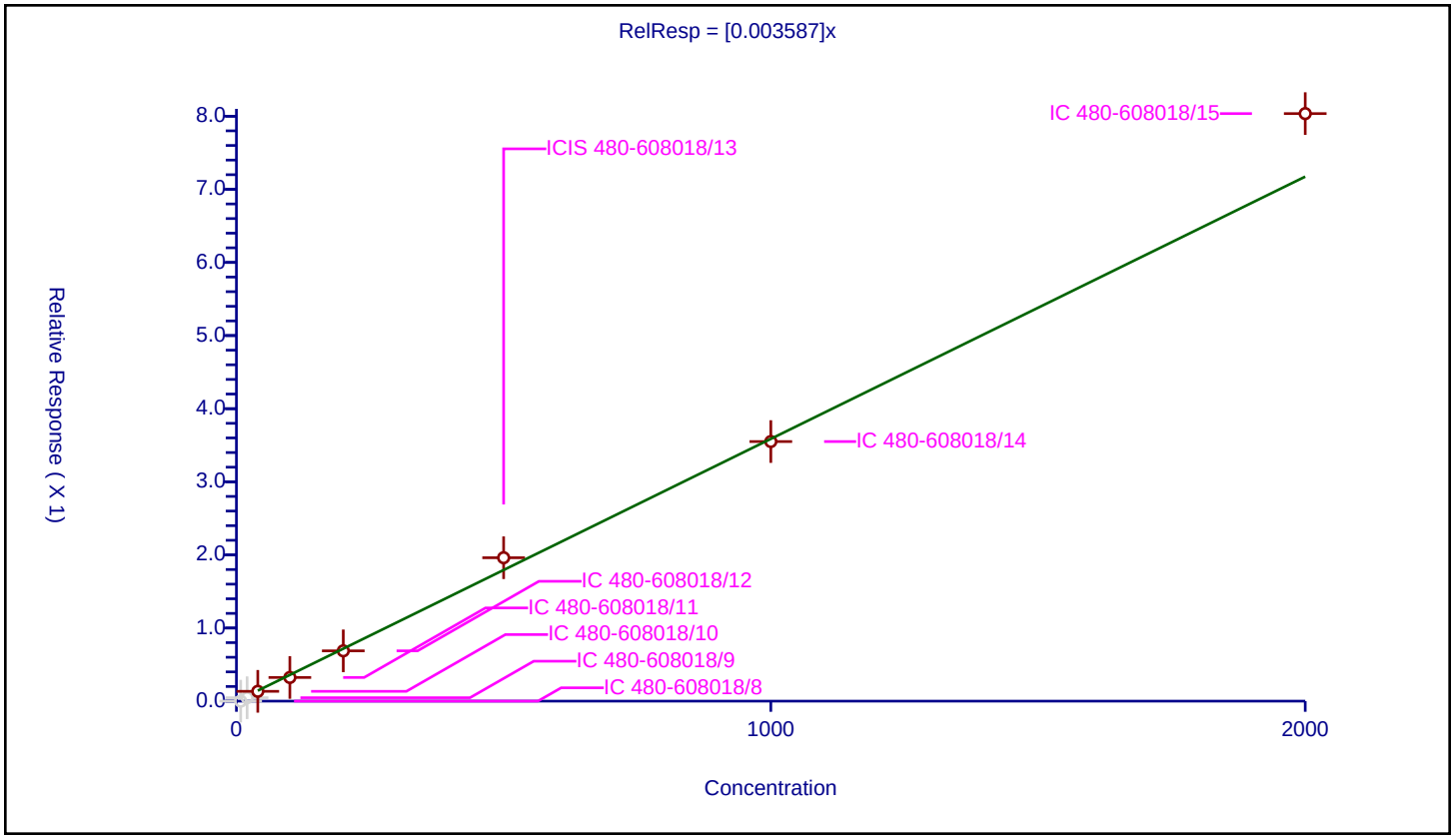
Curve Coefficients

Intercept:	0
Slope:	0.003587

Error Coefficients

Standard Error:	100000
Relative Standard Error:	8.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	8.0	0.0	25.0	536616.0	0.0	N
2	IC 480-608018/9	20.0	0.046776	25.0	560645.0	0.002339	N
3	IC 480-608018/10	40.0	0.134203	25.0	570962.0	0.003355	Y
4	IC 480-608018/11	100.0	0.323529	25.0	567878.0	0.003235	Y
5	IC 480-608018/12	200.0	0.687823	25.0	564208.0	0.003439	Y
6	ICIS 480-608018/13	500.0	1.961407	25.0	590112.0	0.003923	Y
7	IC 480-608018/14	1000.0	3.55038	25.0	614723.0	0.00355	Y
8	IC 480-608018/15	2000.0	8.03542	25.0	624818.0	0.004018	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

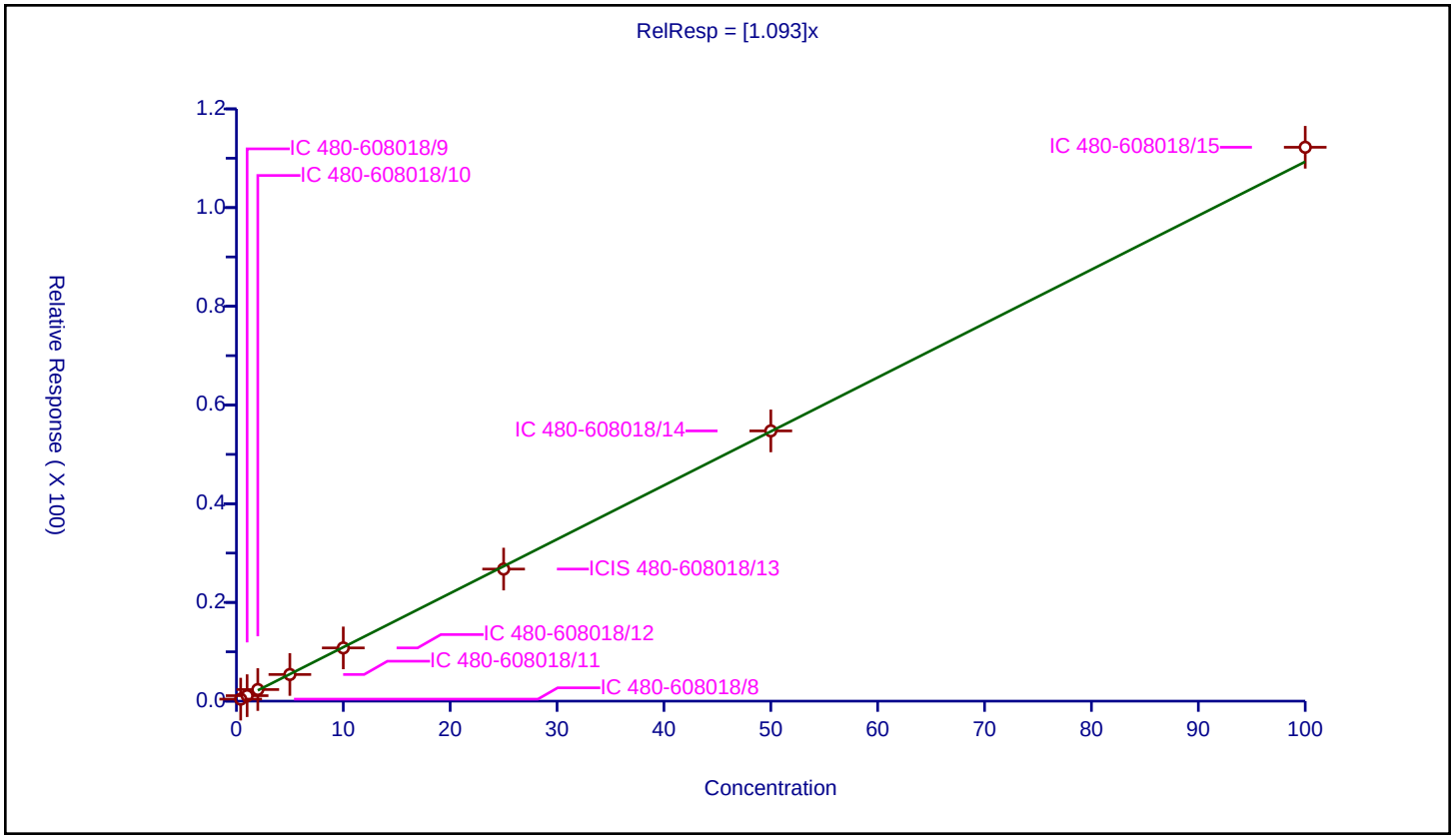
Curve Coefficients

Intercept:	0
Slope:	1.093

Error Coefficients

Standard Error:	255000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.405926	25.0	118864.0	1.014815	Y
2	IC 480-608018/9	1.0	1.109525	25.0	120840.0	1.109525	Y
3	IC 480-608018/10	2.0	2.348045	25.0	121697.0	1.174022	Y
4	IC 480-608018/11	5.0	5.397156	25.0	124825.0	1.079431	Y
5	IC 480-608018/12	10.0	10.784485	25.0	122762.0	1.078449	Y
6	ICIS 480-608018/13	25.0	26.757961	25.0	126368.0	1.070318	Y
7	IC 480-608018/14	50.0	54.758411	25.0	129807.0	1.095168	Y
8	IC 480-608018/15	100.0	112.22276	25.0	132241.0	1.122228	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

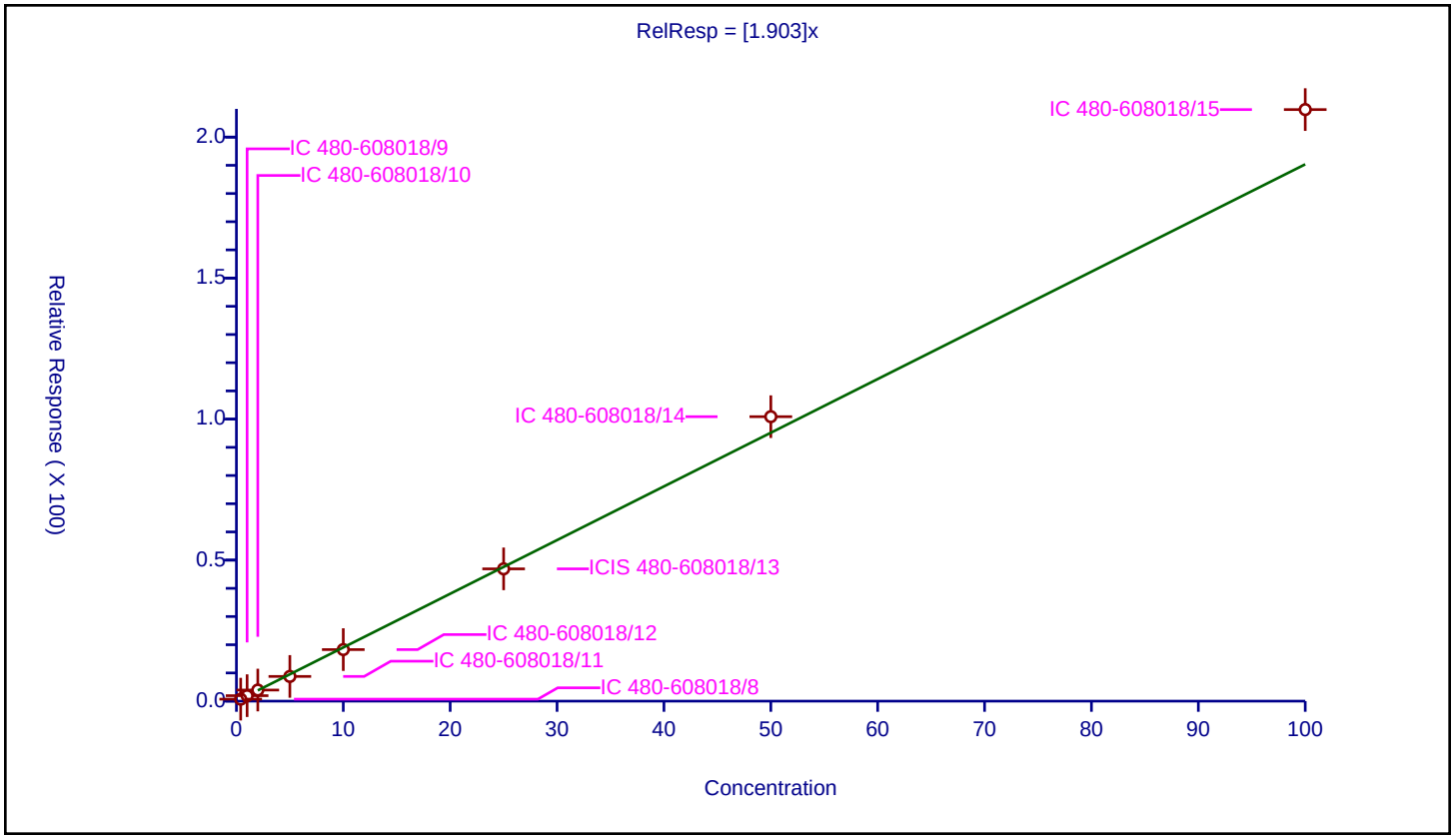
Curve Coefficients

Intercept:	0
Slope:	1.903

Error Coefficients

Standard Error:	474000
Relative Standard Error:	6.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.70017	25.0	118864.0	1.750425	Y
2	IC 480-608018/9	1.0	1.942445	25.0	120840.0	1.942445	Y
3	IC 480-608018/10	2.0	3.929226	25.0	121697.0	1.964613	Y
4	IC 480-608018/11	5.0	8.75686	25.0	124825.0	1.751372	Y
5	IC 480-608018/12	10.0	18.278865	25.0	122762.0	1.827886	Y
6	ICIS 480-608018/13	25.0	46.90329	25.0	126368.0	1.876132	Y
7	IC 480-608018/14	50.0	100.870331	25.0	129807.0	2.017407	Y
8	IC 480-608018/15	100.0	209.750002	25.0	132241.0	2.0975	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

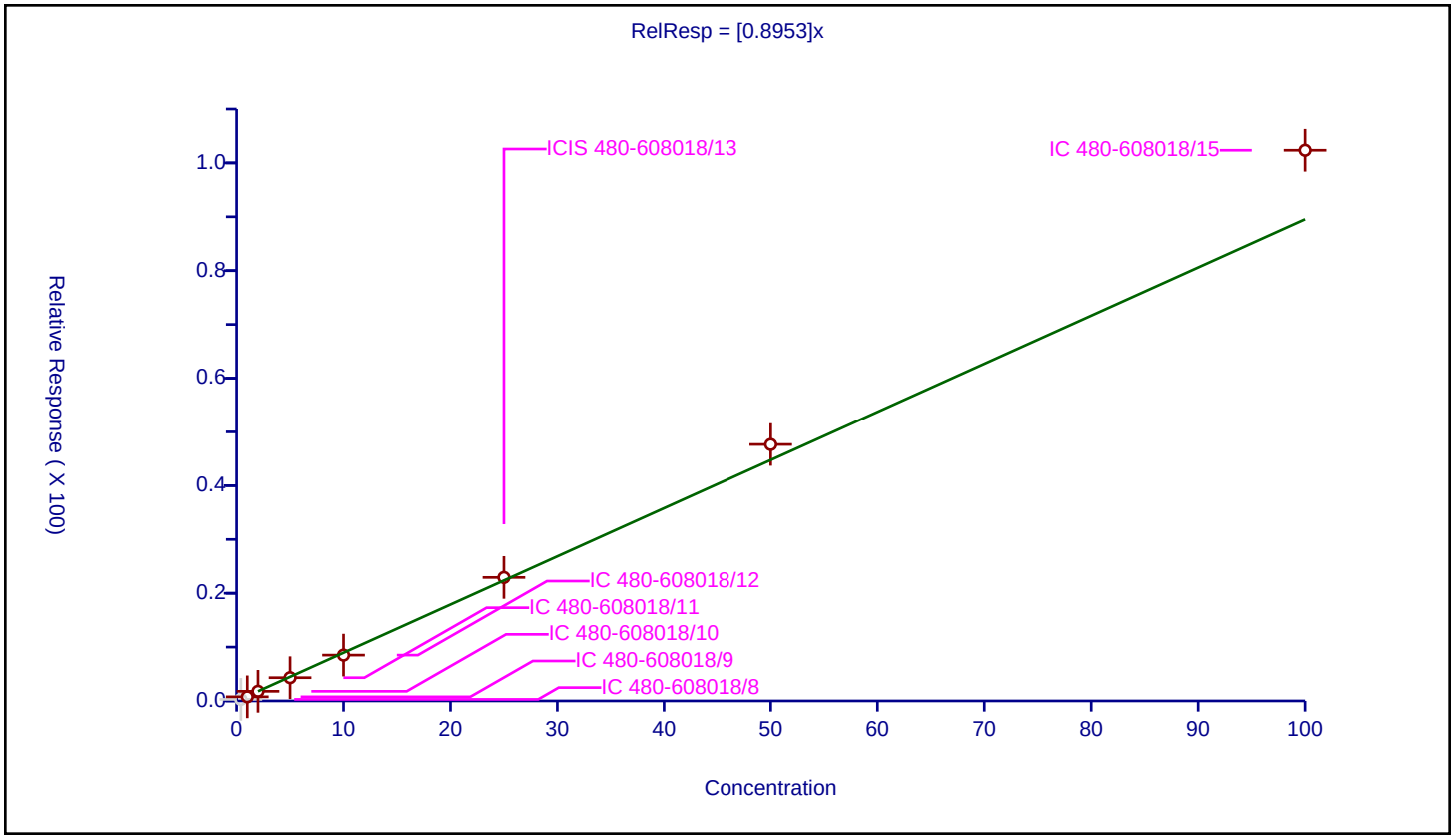
Curve Coefficients

Intercept:	0
Slope:	0.8953

Error Coefficients

Standard Error:	248000
Relative Standard Error:	9.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.29151	25.0	118864.0	0.728774	N
2	IC 480-608018/9	1.0	0.76382	25.0	120840.0	0.76382	Y
3	IC 480-608018/10	2.0	1.789691	25.0	121697.0	0.894845	Y
4	IC 480-608018/11	5.0	4.315642	25.0	124825.0	0.863128	Y
5	IC 480-608018/12	10.0	8.513221	25.0	122762.0	0.851322	Y
6	ICIS 480-608018/13	25.0	22.939747	25.0	126368.0	0.91759	Y
7	IC 480-608018/14	50.0	47.657676	25.0	129807.0	0.953154	Y
8	IC 480-608018/15	100.0	102.351767	25.0	132241.0	1.023518	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

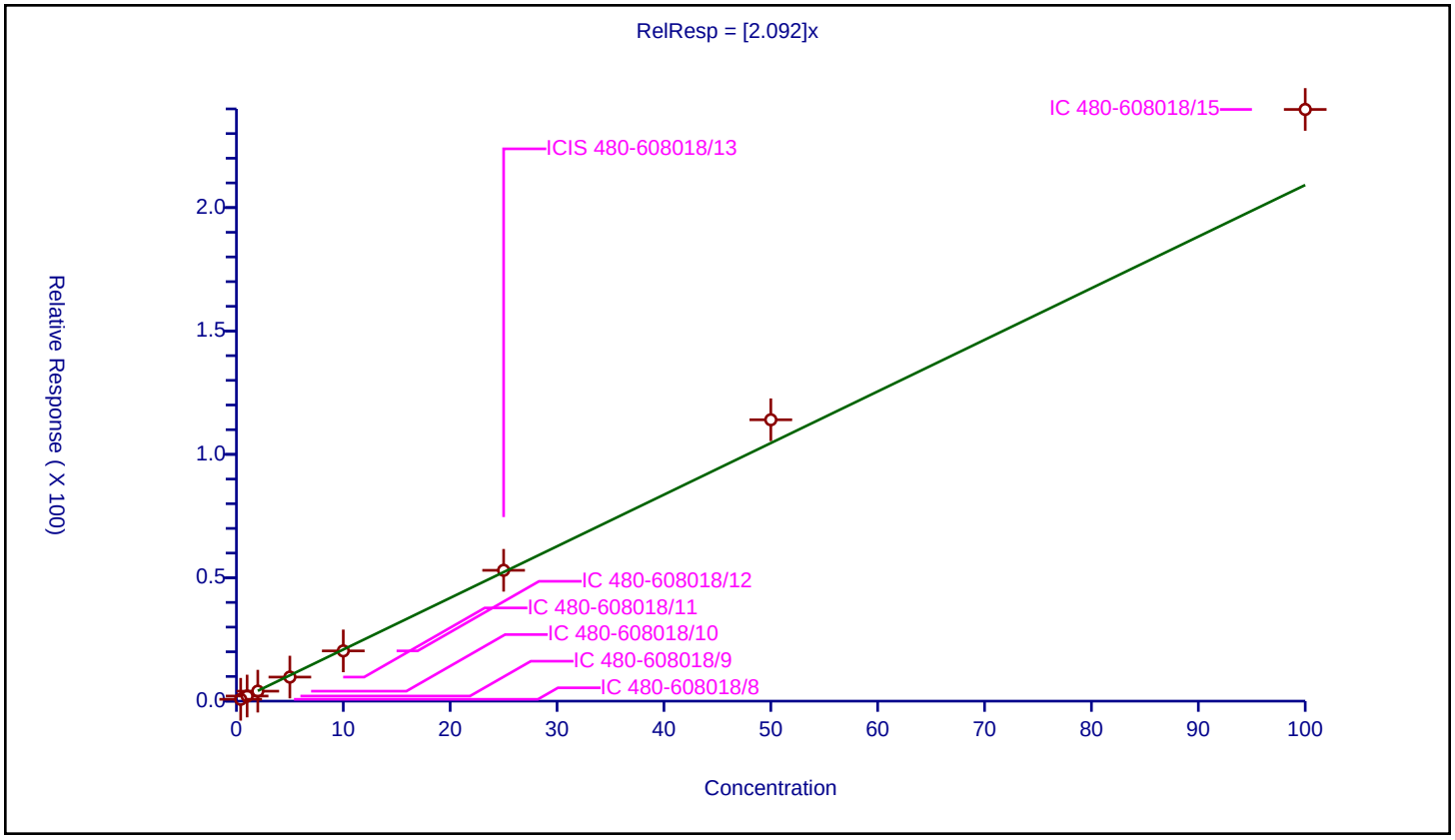
Curve Coefficients

Intercept:	0
Slope:	2.092

Error Coefficients

Standard Error:	540000
Relative Standard Error:	8.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.744969	25.0	118864.0	1.862423	Y
2	IC 480-608018/9	1.0	2.063265	25.0	120840.0	2.063265	Y
3	IC 480-608018/10	2.0	4.043855	25.0	121697.0	2.021927	Y
4	IC 480-608018/11	5.0	9.752053	25.0	124825.0	1.950411	Y
5	IC 480-608018/12	10.0	20.357888	25.0	122762.0	2.035789	Y
6	ICIS 480-608018/13	25.0	53.017576	25.0	126368.0	2.120703	Y
7	IC 480-608018/14	50.0	114.021393	25.0	129807.0	2.280428	Y
8	IC 480-608018/15	100.0	239.770192	25.0	132241.0	2.397702	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

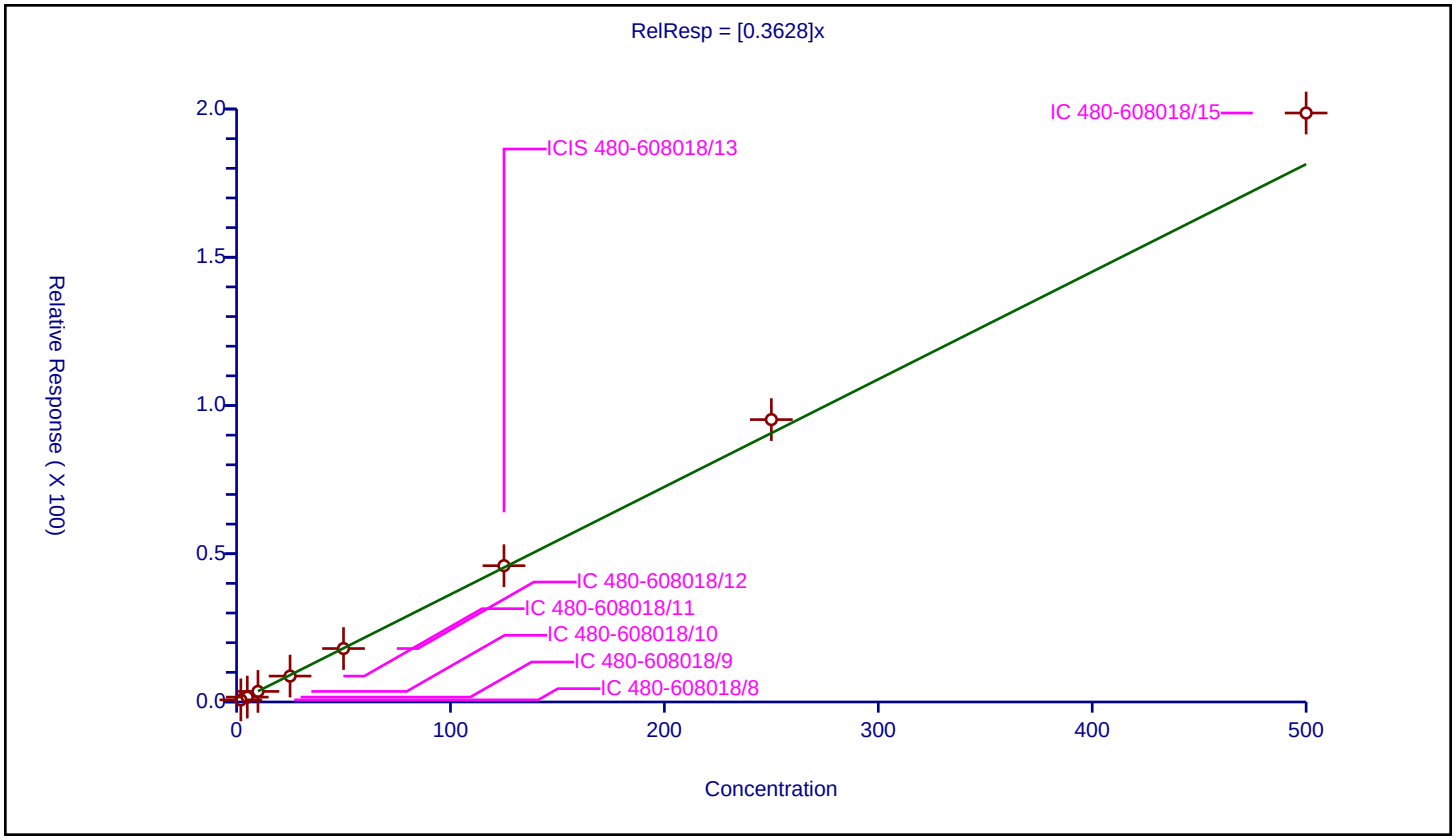
Curve Coefficients

Intercept:	0
Slope:	0.3628

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	2.0	0.718717	25.0	536616.0	0.359358	Y
2	IC 480-608018/9	5.0	1.651268	25.0	560645.0	0.330254	Y
3	IC 480-608018/10	10.0	3.566043	25.0	570962.0	0.356604	Y
4	IC 480-608018/11	25.0	8.735591	25.0	567878.0	0.349424	Y
5	IC 480-608018/12	50.0	18.02509	25.0	564208.0	0.360502	Y
6	ICIS 480-608018/13	125.0	45.973942	25.0	590112.0	0.367792	Y
7	IC 480-608018/14	250.0	95.244931	25.0	614723.0	0.38098	Y
8	IC 480-608018/15	500.0	198.655208	25.0	624818.0	0.39731	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

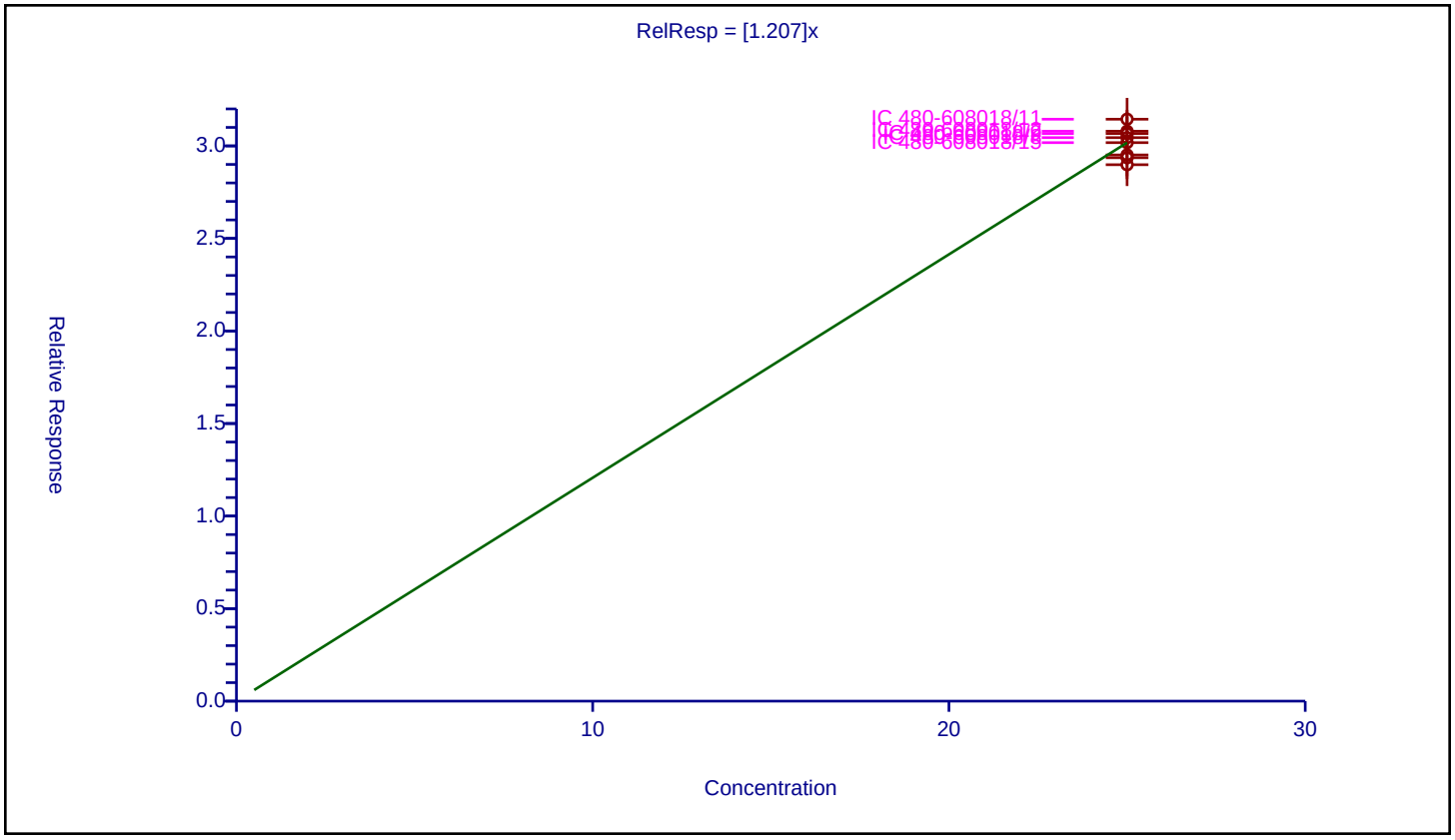
Curve Coefficients

Intercept:	0
Slope:	1.207

Error Coefficients

Standard Error:	747000
Relative Standard Error:	2.8
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	25.0	30.446819	25.0	536616.0	1.217873	Y
2	IC 480-608018/9	25.0	30.668025	25.0	560645.0	1.226721	Y
3	IC 480-608018/10	25.0	29.361148	25.0	570962.0	1.174446	Y
4	IC 480-608018/11	25.0	31.443329	25.0	567878.0	1.257733	Y
5	IC 480-608018/12	25.0	30.794671	25.0	564208.0	1.231787	Y
6	ICIS 480-608018/13	25.0	29.511389	25.0	590112.0	1.180456	Y
7	IC 480-608018/14	25.0	28.983786	25.0	614723.0	1.159351	Y
8	IC 480-608018/15	25.0	30.176948	25.0	624818.0	1.207078	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

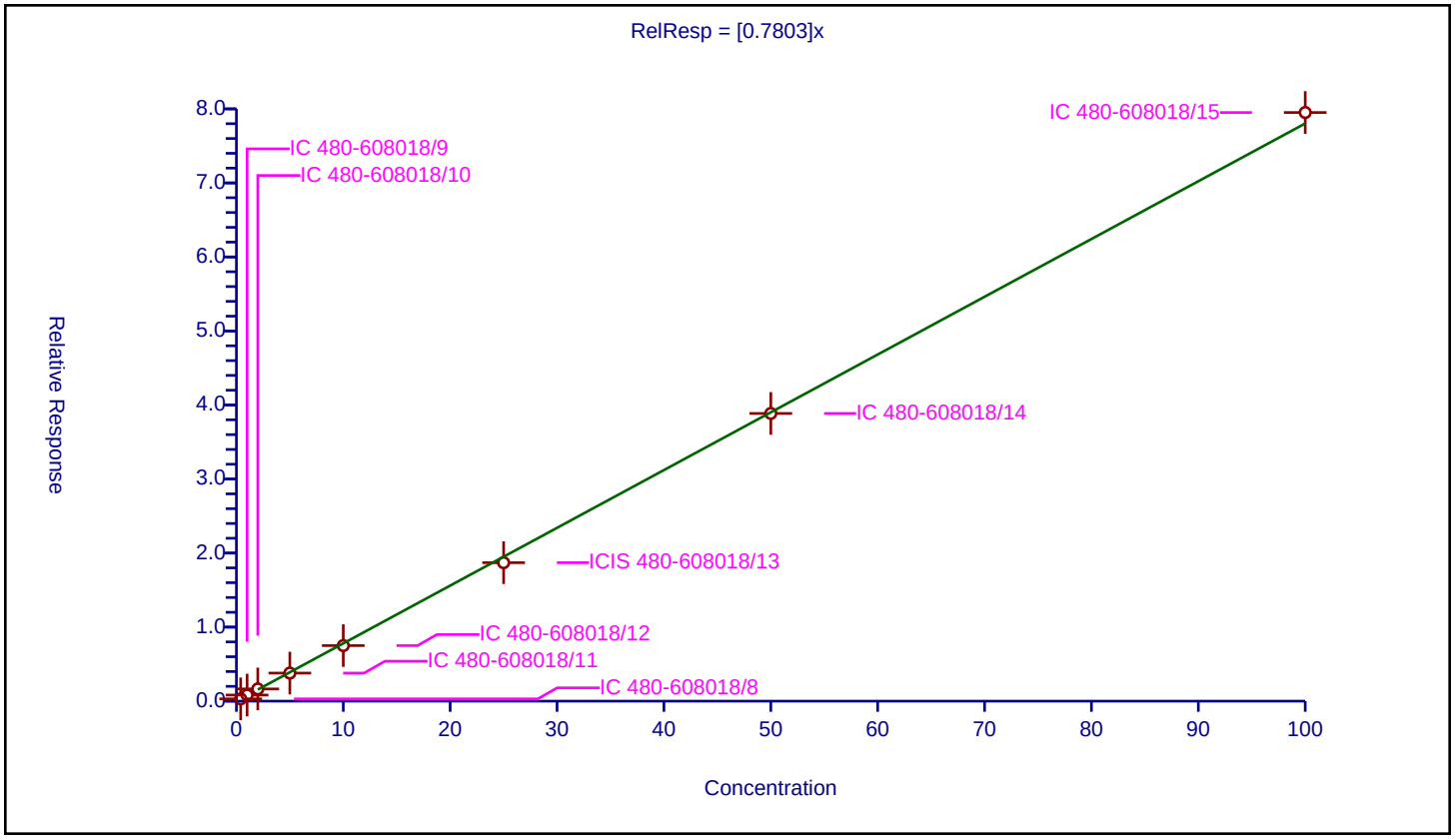
Curve Coefficients

Intercept:	0
Slope:	0.7803

Error Coefficients

Standard Error:	853000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.306085	25.0	536616.0	0.765212	Y
2	IC 480-608018/9	1.0	0.824229	25.0	560645.0	0.824229	Y
3	IC 480-608018/10	2.0	1.648928	25.0	570962.0	0.824464	Y
4	IC 480-608018/11	5.0	3.788446	25.0	567878.0	0.757689	Y
5	IC 480-608018/12	10.0	7.50366	25.0	564208.0	0.750366	Y
6	ICIS 480-608018/13	25.0	18.701662	25.0	590112.0	0.748066	Y
7	IC 480-608018/14	50.0	38.859698	25.0	614723.0	0.777194	Y
8	IC 480-608018/15	100.0	79.509513	25.0	624818.0	0.795095	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

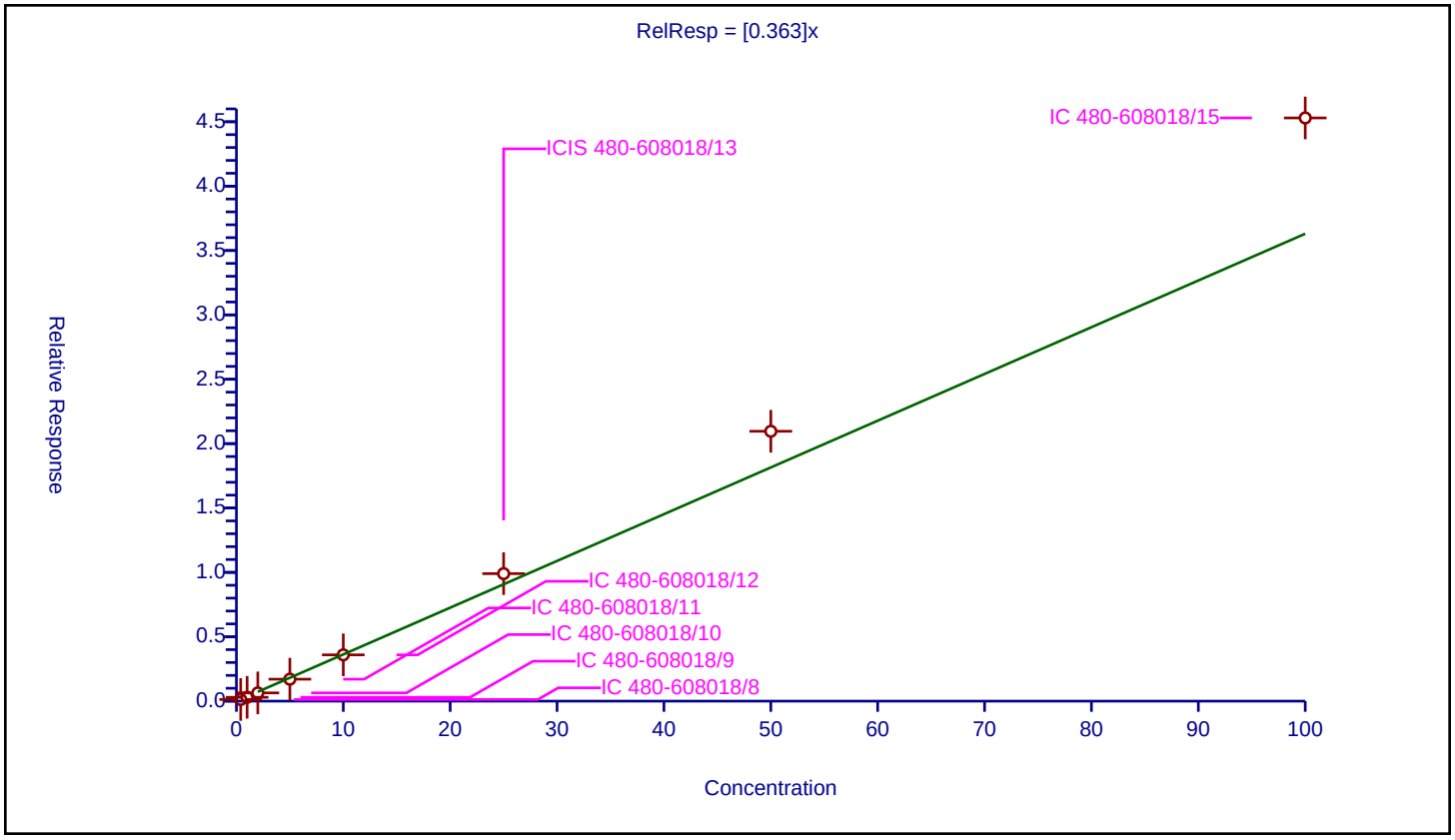
Curve Coefficients

Intercept:	0
Slope:	0.363

Error Coefficients

Standard Error:	480000
Relative Standard Error:	15.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.127419	25.0	536616.0	0.318547	Y
2	IC 480-608018/9	1.0	0.296801	25.0	560645.0	0.296801	Y
3	IC 480-608018/10	2.0	0.639535	25.0	570962.0	0.319767	Y
4	IC 480-608018/11	5.0	1.706264	25.0	567878.0	0.341253	Y
5	IC 480-608018/12	10.0	3.595172	25.0	564208.0	0.359517	Y
6	ICIS 480-608018/13	25.0	9.904052	25.0	590112.0	0.396162	Y
7	IC 480-608018/14	50.0	20.96005	25.0	614723.0	0.419201	Y
8	IC 480-608018/15	100.0	45.29667	25.0	624818.0	0.452967	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

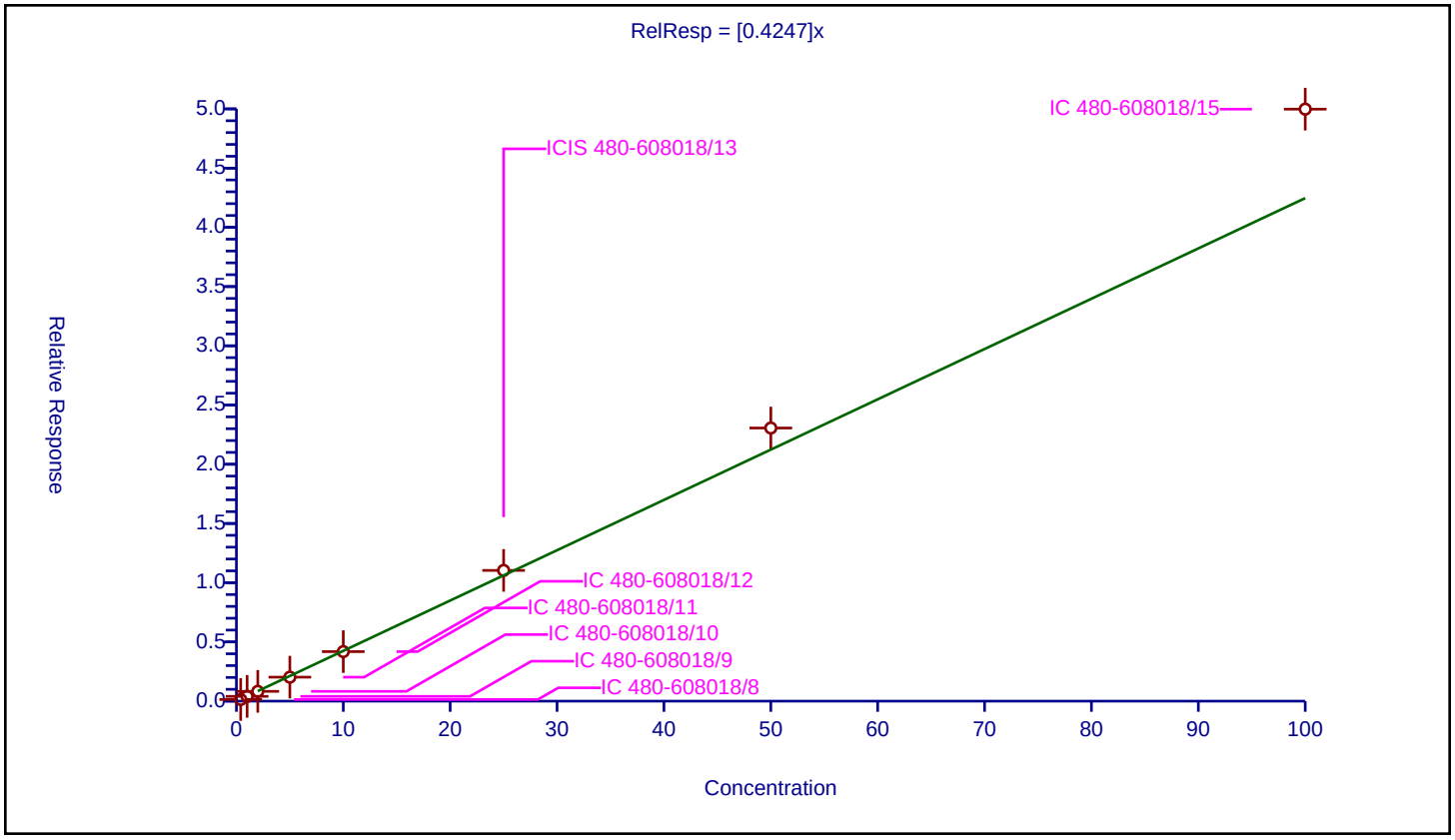
Curve Coefficients

Intercept:	0
Slope:	0.4247

Error Coefficients

Standard Error:	529000
Relative Standard Error:	10.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.141628	25.0	536616.0	0.354071	Y
2	IC 480-608018/9	1.0	0.404088	25.0	560645.0	0.404088	Y
3	IC 480-608018/10	2.0	0.827069	25.0	570962.0	0.413535	Y
4	IC 480-608018/11	5.0	2.025391	25.0	567878.0	0.405078	Y
5	IC 480-608018/12	10.0	4.181259	25.0	564208.0	0.418126	Y
6	ICIS 480-608018/13	25.0	11.036549	25.0	590112.0	0.441462	Y
7	IC 480-608018/14	50.0	23.05758	25.0	614723.0	0.461152	Y
8	IC 480-608018/15	100.0	49.978354	25.0	624818.0	0.499784	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

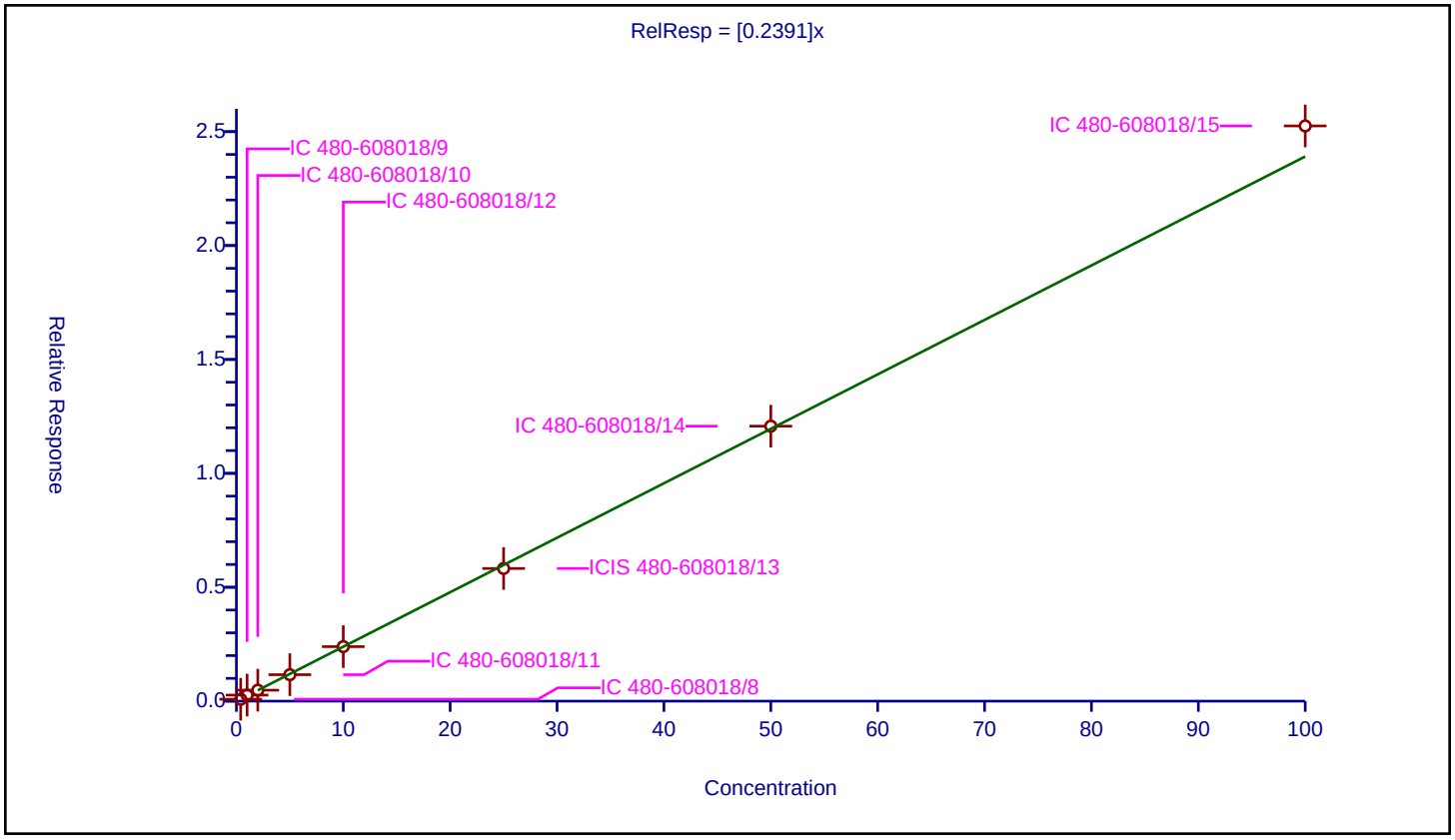
Curve Coefficients

Intercept:	0
Slope:	0.2391

Error Coefficients

Standard Error:	270000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.083253	25.0	536616.0	0.208133	Y
2	IC 480-608018/9	1.0	0.26581	25.0	560645.0	0.26581	Y
3	IC 480-608018/10	2.0	0.480592	25.0	570962.0	0.240296	Y
4	IC 480-608018/11	5.0	1.161429	25.0	567878.0	0.232286	Y
5	IC 480-608018/12	10.0	2.392646	25.0	564208.0	0.239265	Y
6	ICIS 480-608018/13	25.0	5.824233	25.0	590112.0	0.232969	Y
7	IC 480-608018/14	50.0	12.072307	25.0	614723.0	0.241446	Y
8	IC 480-608018/15	100.0	25.251353	25.0	624818.0	0.252514	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

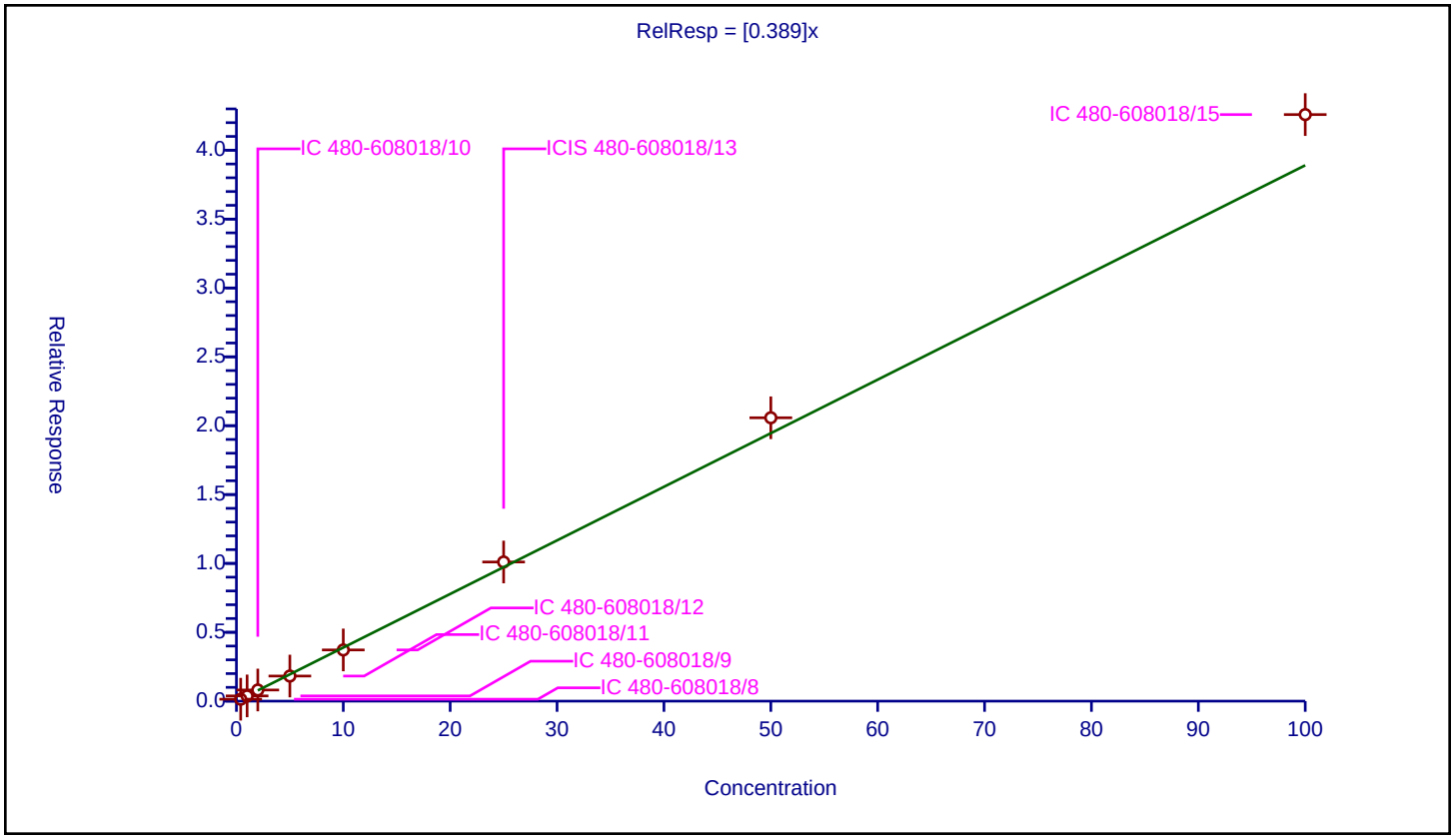
Curve Coefficients

Intercept:	0
Slope:	0.389

Error Coefficients

Standard Error:	456000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.139532	25.0	536616.0	0.34883	Y
2	IC 480-608018/9	1.0	0.380633	25.0	560645.0	0.380633	Y
3	IC 480-608018/10	2.0	0.810212	25.0	570962.0	0.405106	Y
4	IC 480-608018/11	5.0	1.822751	25.0	567878.0	0.36455	Y
5	IC 480-608018/12	10.0	3.71698	25.0	564208.0	0.371698	Y
6	ICIS 480-608018/13	25.0	10.103548	25.0	590112.0	0.404142	Y
7	IC 480-608018/14	50.0	20.573738	25.0	614723.0	0.411475	Y
8	IC 480-608018/15	100.0	42.586361	25.0	624818.0	0.425864	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

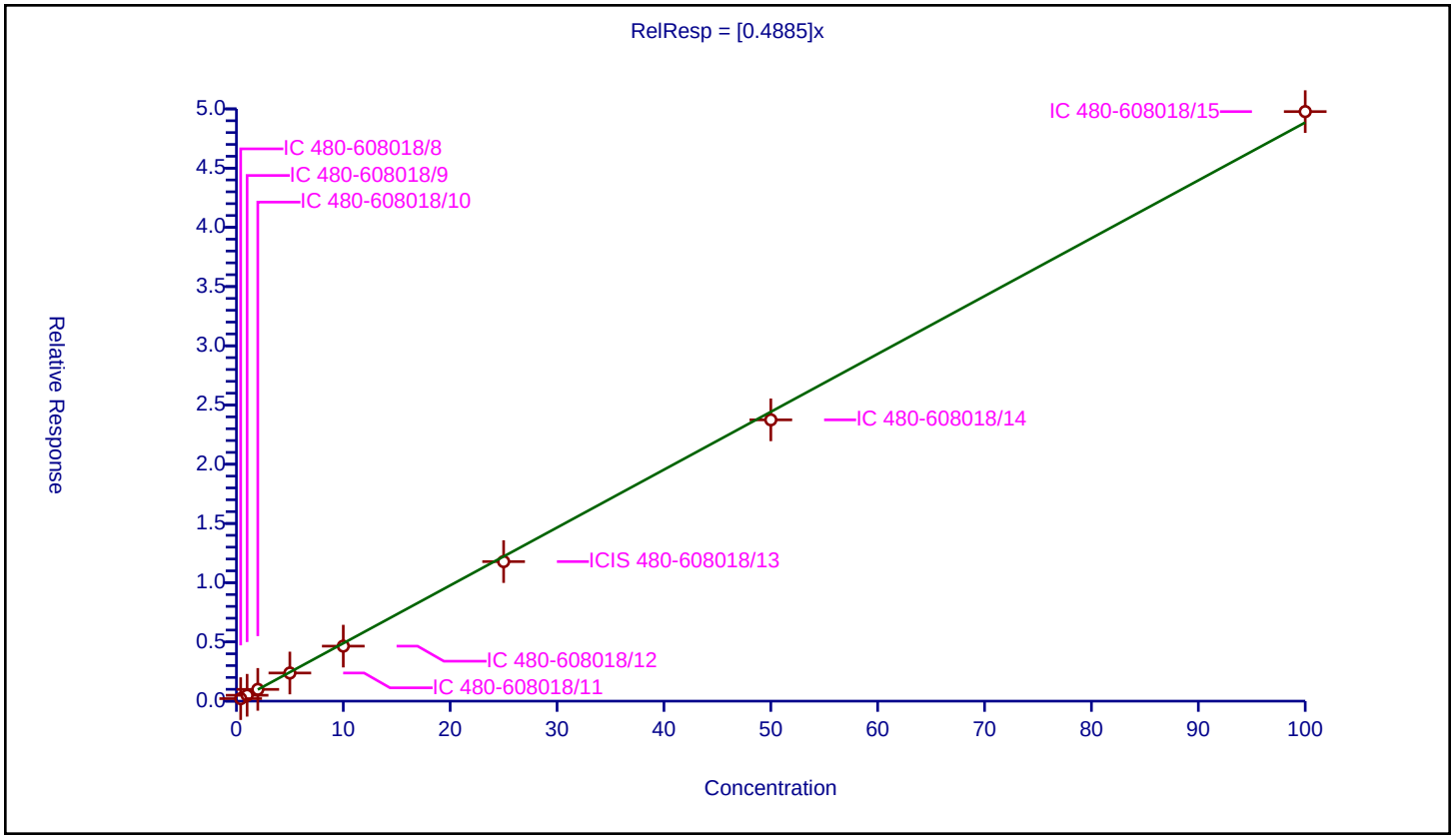
Curve Coefficients

Intercept:	0
Slope:	0.4885

Error Coefficients

Standard Error:	532000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.213141	25.0	536616.0	0.532853	Y
2	IC 480-608018/9	1.0	0.494832	25.0	560645.0	0.494832	Y
3	IC 480-608018/10	2.0	0.993718	25.0	570962.0	0.496859	Y
4	IC 480-608018/11	5.0	2.375026	25.0	567878.0	0.475005	Y
5	IC 480-608018/12	10.0	4.644918	25.0	564208.0	0.464492	Y
6	ICIS 480-608018/13	25.0	11.781662	25.0	590112.0	0.471266	Y
7	IC 480-608018/14	50.0	23.748583	25.0	614723.0	0.474972	Y
8	IC 480-608018/15	100.0	49.771373	25.0	624818.0	0.497714	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

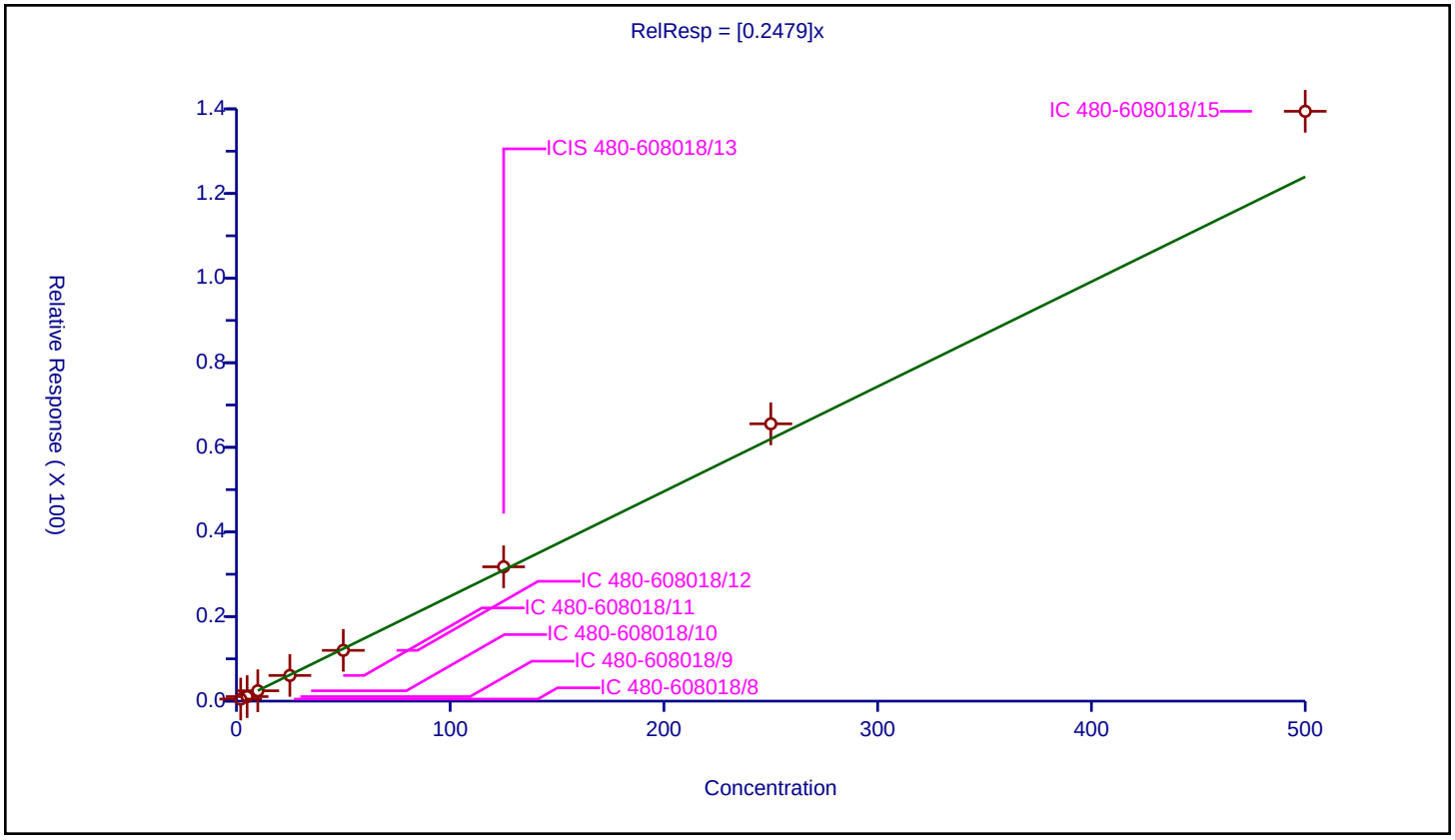
Curve Coefficients

Intercept:	0
Slope:	0.2479

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	7.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	2.0	0.490667	25.0	536616.0	0.245334	Y
2	IC 480-608018/9	5.0	1.071846	25.0	560645.0	0.214369	Y
3	IC 480-608018/10	10.0	2.453753	25.0	570962.0	0.245375	Y
4	IC 480-608018/11	25.0	6.073488	25.0	567878.0	0.24294	Y
5	IC 480-608018/12	50.0	12.002178	25.0	564208.0	0.240044	Y
6	ICIS 480-608018/13	125.0	31.754226	25.0	590112.0	0.254034	Y
7	IC 480-608018/14	250.0	65.556722	25.0	614723.0	0.262227	Y
8	IC 480-608018/15	500.0	139.430562	25.0	624818.0	0.278861	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

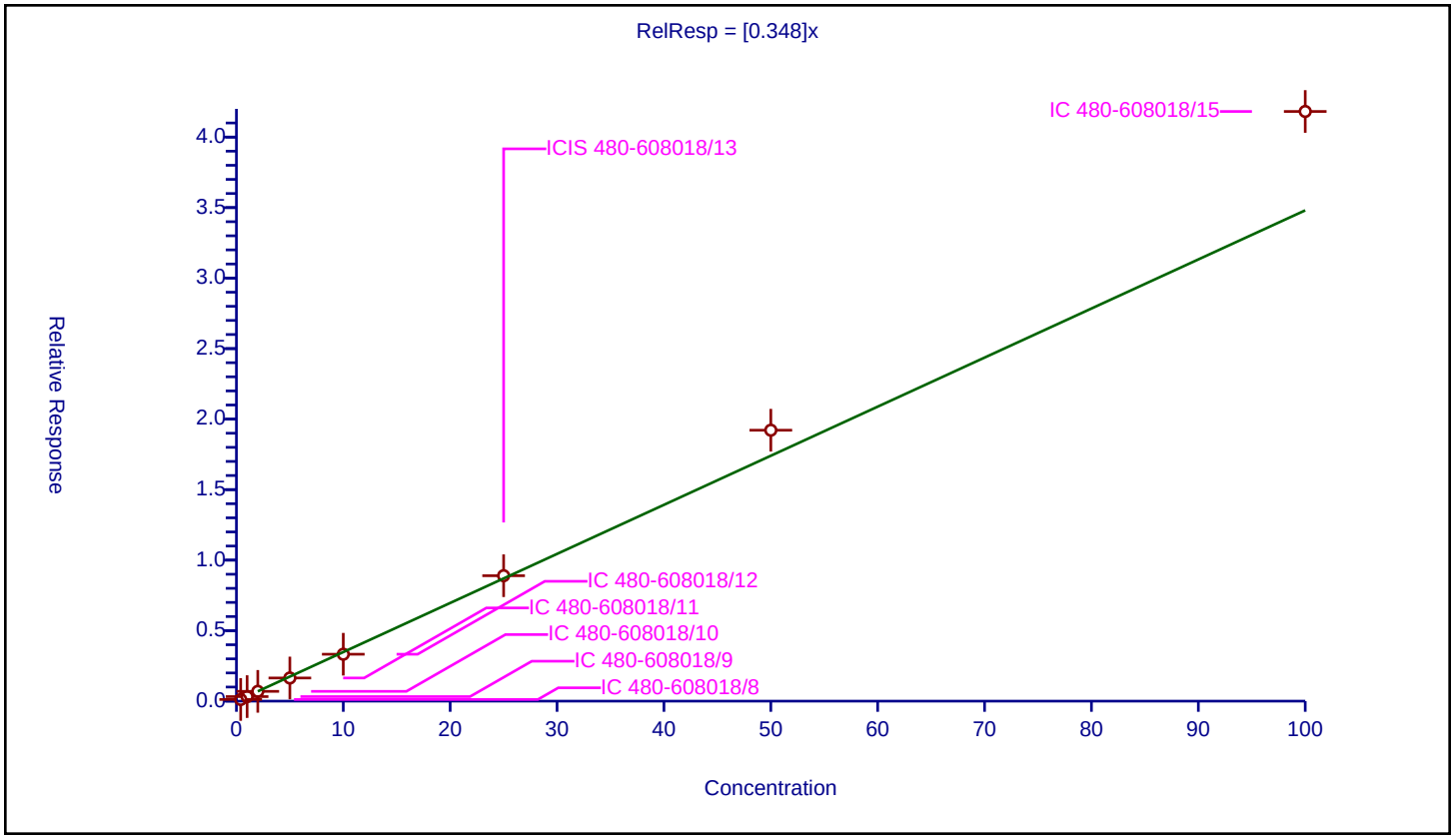
Curve Coefficients

Intercept:	0
Slope:	0.348

Error Coefficients

Standard Error:	442000
Relative Standard Error:	11.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.118194	25.0	536616.0	0.295486	Y
2	IC 480-608018/9	1.0	0.322084	25.0	560645.0	0.322084	Y
3	IC 480-608018/10	2.0	0.694354	25.0	570962.0	0.347177	Y
4	IC 480-608018/11	5.0	1.643091	25.0	567878.0	0.328618	Y
5	IC 480-608018/12	10.0	3.327186	25.0	564208.0	0.332719	Y
6	ICIS 480-608018/13	25.0	8.895811	25.0	590112.0	0.355832	Y
7	IC 480-608018/14	50.0	19.213085	25.0	614723.0	0.384262	Y
8	IC 480-608018/15	100.0	41.817697	25.0	624818.0	0.418177	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

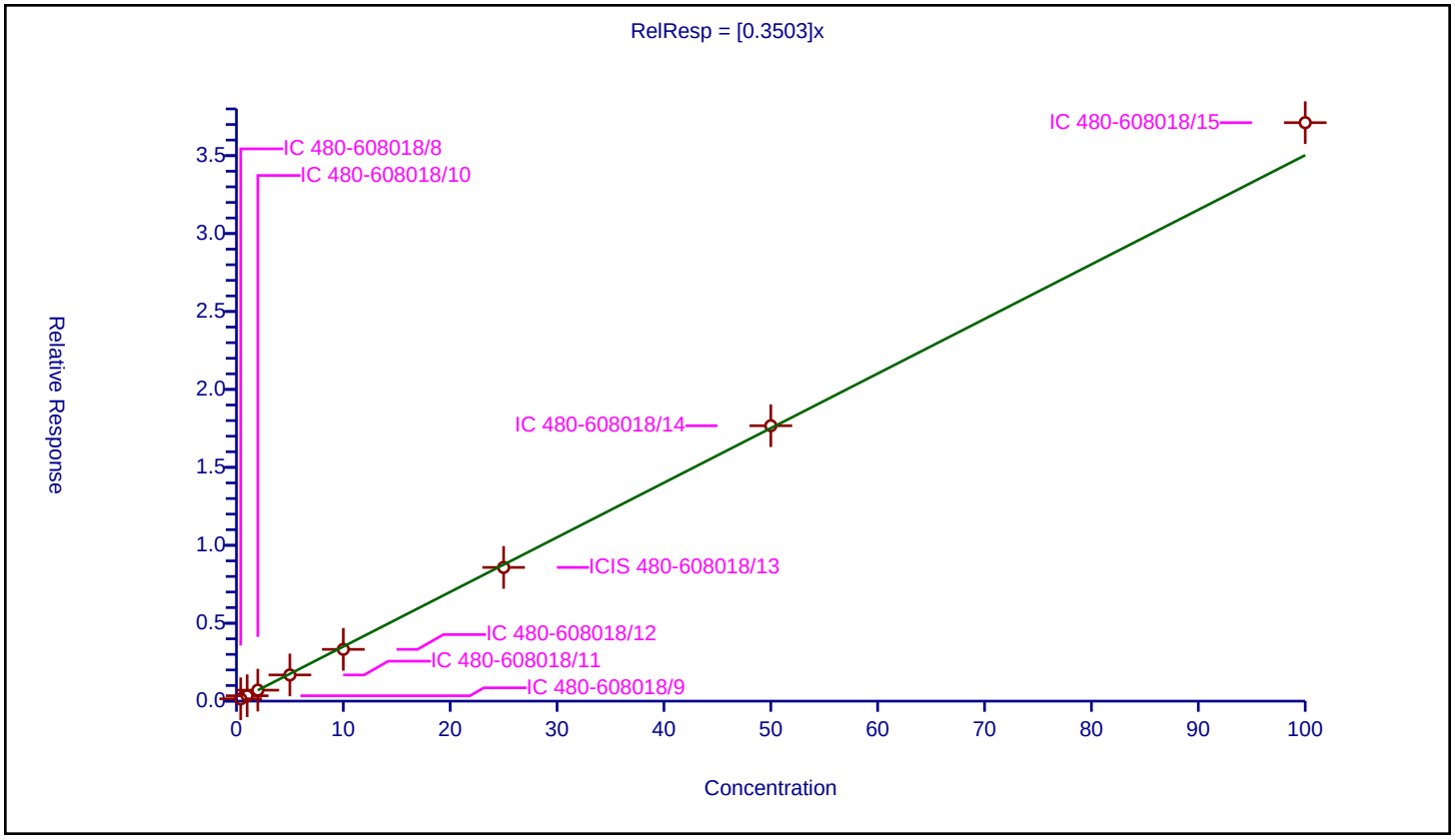
Curve Coefficients

Intercept:	0
Slope:	0.3503

Error Coefficients

Standard Error:	396000
Relative Standard Error:	4.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.147172	25.0	536616.0	0.367931	Y
2	IC 480-608018/9	1.0	0.345762	25.0	560645.0	0.345762	Y
3	IC 480-608018/10	2.0	0.704775	25.0	570962.0	0.352388	Y
4	IC 480-608018/11	5.0	1.681215	25.0	567878.0	0.336243	Y
5	IC 480-608018/12	10.0	3.323774	25.0	564208.0	0.332377	Y
6	ICIS 480-608018/13	25.0	8.579388	25.0	590112.0	0.343176	Y
7	IC 480-608018/14	50.0	17.670317	25.0	614723.0	0.353406	Y
8	IC 480-608018/15	100.0	37.115808	25.0	624818.0	0.371158	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

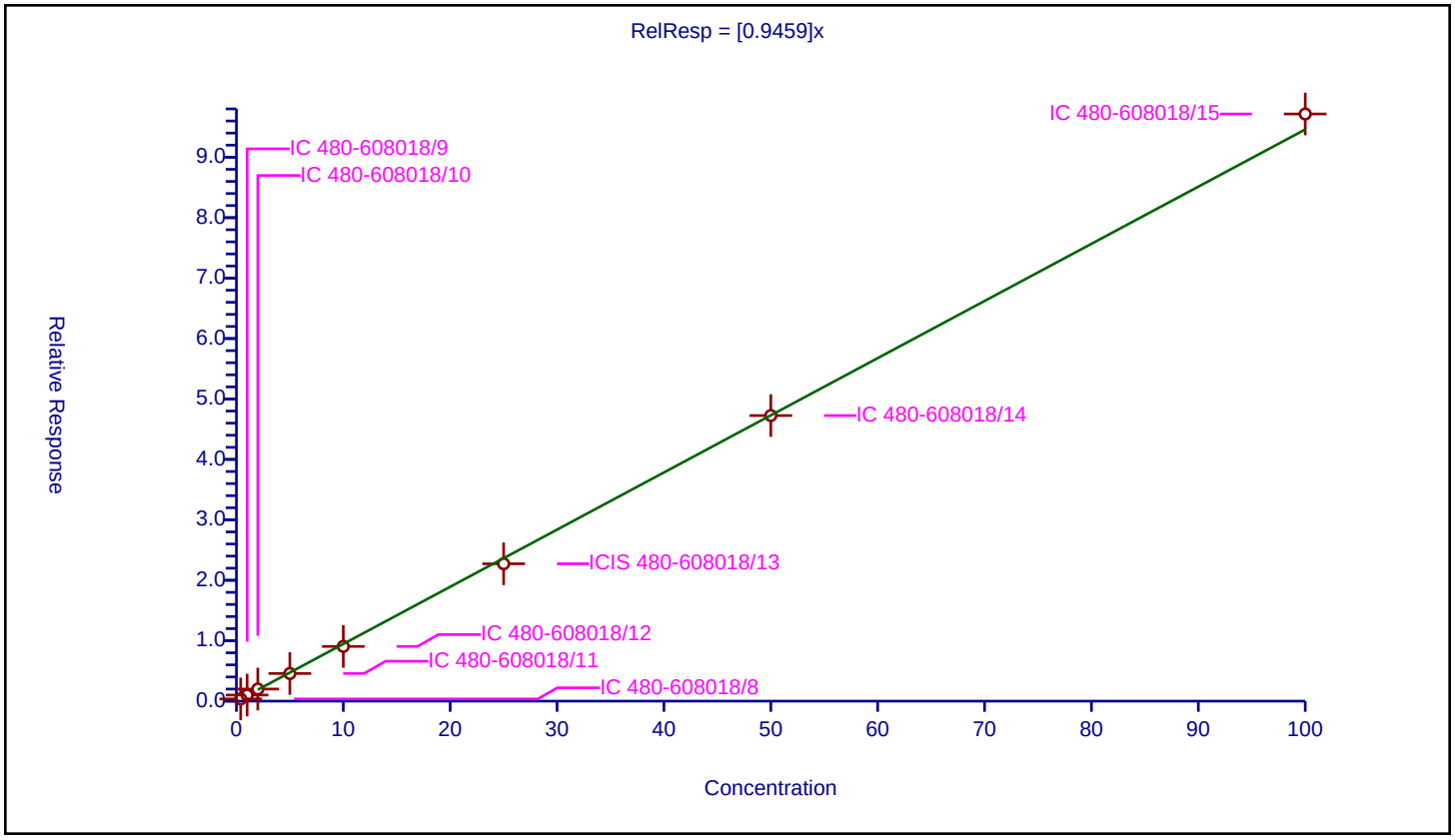
Curve Coefficients

Intercept:	0
Slope:	0.9459

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.365345	25.0	536616.0	0.913363	Y
2	IC 480-608018/9	1.0	1.005271	25.0	560645.0	1.005271	Y
3	IC 480-608018/10	2.0	2.005168	25.0	570962.0	1.002584	Y
4	IC 480-608018/11	5.0	4.57409	25.0	567878.0	0.914818	Y
5	IC 480-608018/12	10.0	9.055526	25.0	564208.0	0.905553	Y
6	ICIS 480-608018/13	25.0	22.727804	25.0	590112.0	0.909112	Y
7	IC 480-608018/14	50.0	47.253682	25.0	614723.0	0.945074	Y
8	IC 480-608018/15	100.0	97.159373	25.0	624818.0	0.971594	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

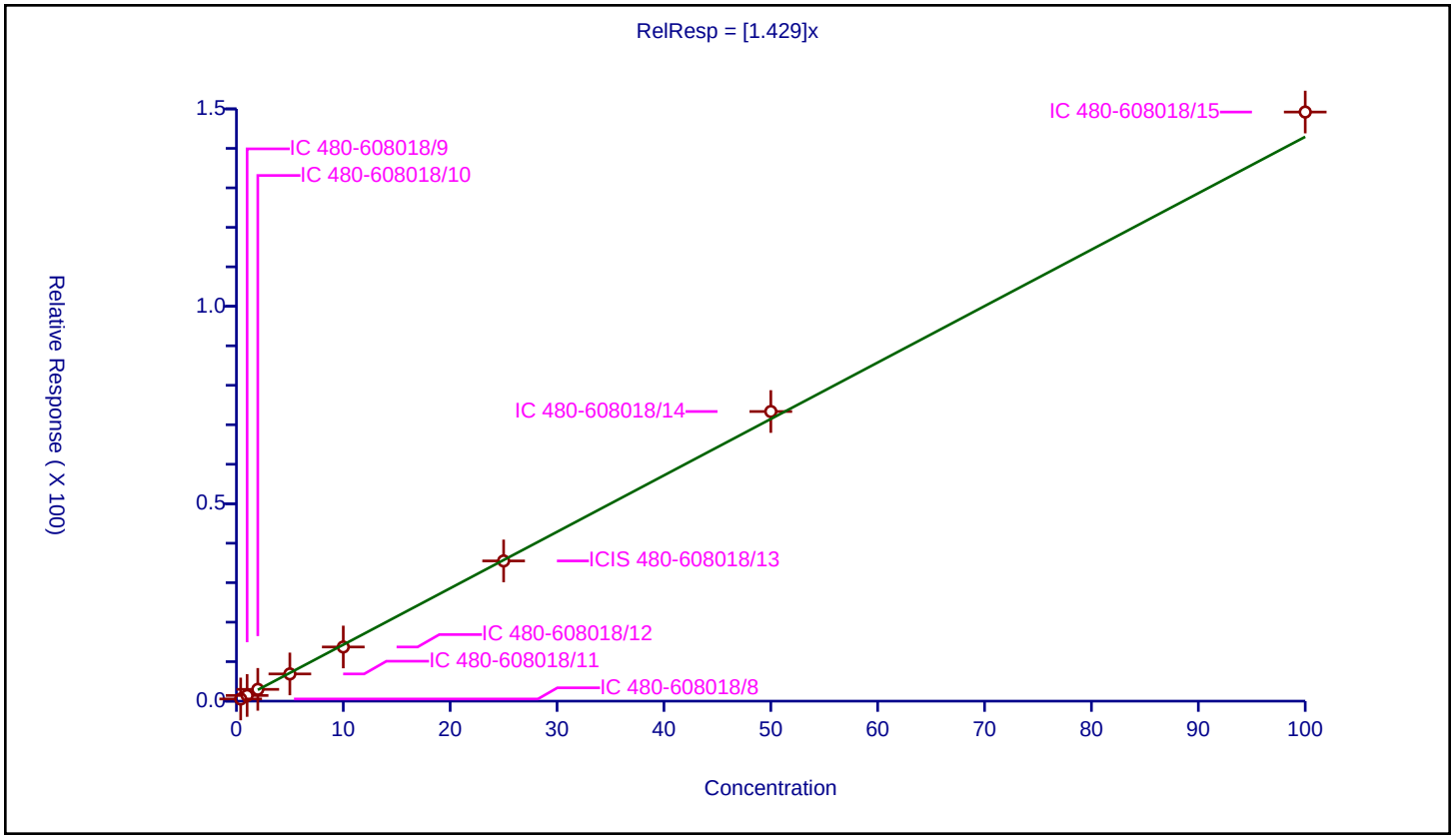
Curve Coefficients

Intercept:	0
Slope:	1.429

Error Coefficients

Standard Error:	1600000
Relative Standard Error:	3.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.551232	25.0	536616.0	1.37808	Y
2	IC 480-608018/9	1.0	1.434464	25.0	560645.0	1.434464	Y
3	IC 480-608018/10	2.0	2.986013	25.0	570962.0	1.493007	Y
4	IC 480-608018/11	5.0	6.889288	25.0	567878.0	1.377858	Y
5	IC 480-608018/12	10.0	13.715642	25.0	564208.0	1.371564	Y
6	ICIS 480-608018/13	25.0	35.51203	25.0	590112.0	1.420481	Y
7	IC 480-608018/14	50.0	73.354625	25.0	614723.0	1.467092	Y
8	IC 480-608018/15	100.0	149.205329	25.0	624818.0	1.492053	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

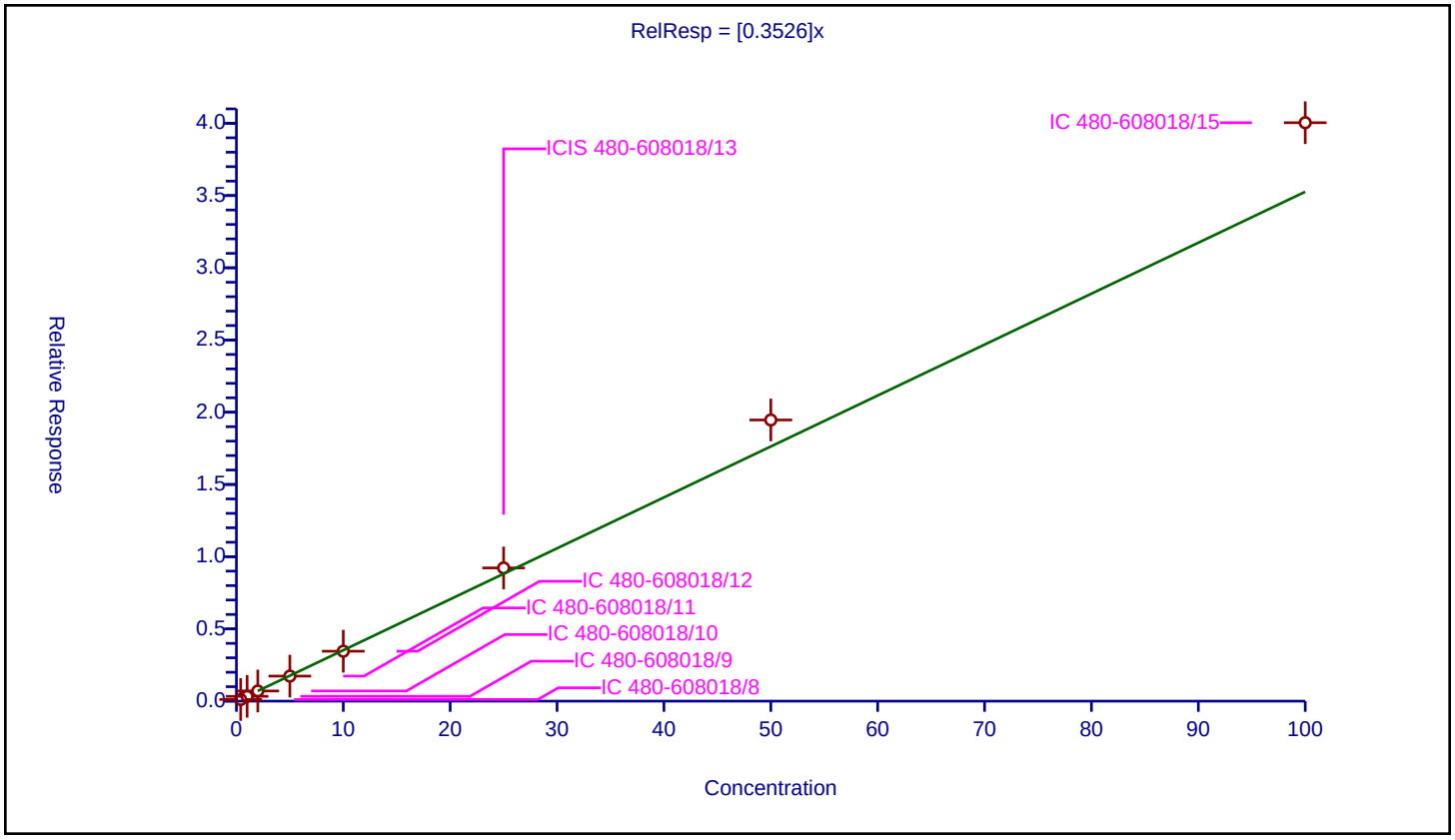
Curve Coefficients

Intercept:	0
Slope:	0.3526

Error Coefficients

Standard Error:	429000
Relative Standard Error:	10.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.113722	25.0	536616.0	0.284305	Y
2	IC 480-608018/9	1.0	0.333366	25.0	560645.0	0.333366	Y
3	IC 480-608018/10	2.0	0.703987	25.0	570962.0	0.351994	Y
4	IC 480-608018/11	5.0	1.733999	25.0	567878.0	0.3468	Y
5	IC 480-608018/12	10.0	3.457147	25.0	564208.0	0.345715	Y
6	ICIS 480-608018/13	25.0	9.222741	25.0	590112.0	0.36891	Y
7	IC 480-608018/14	50.0	19.464743	25.0	614723.0	0.389295	Y
8	IC 480-608018/15	100.0	40.043221	25.0	624818.0	0.400432	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

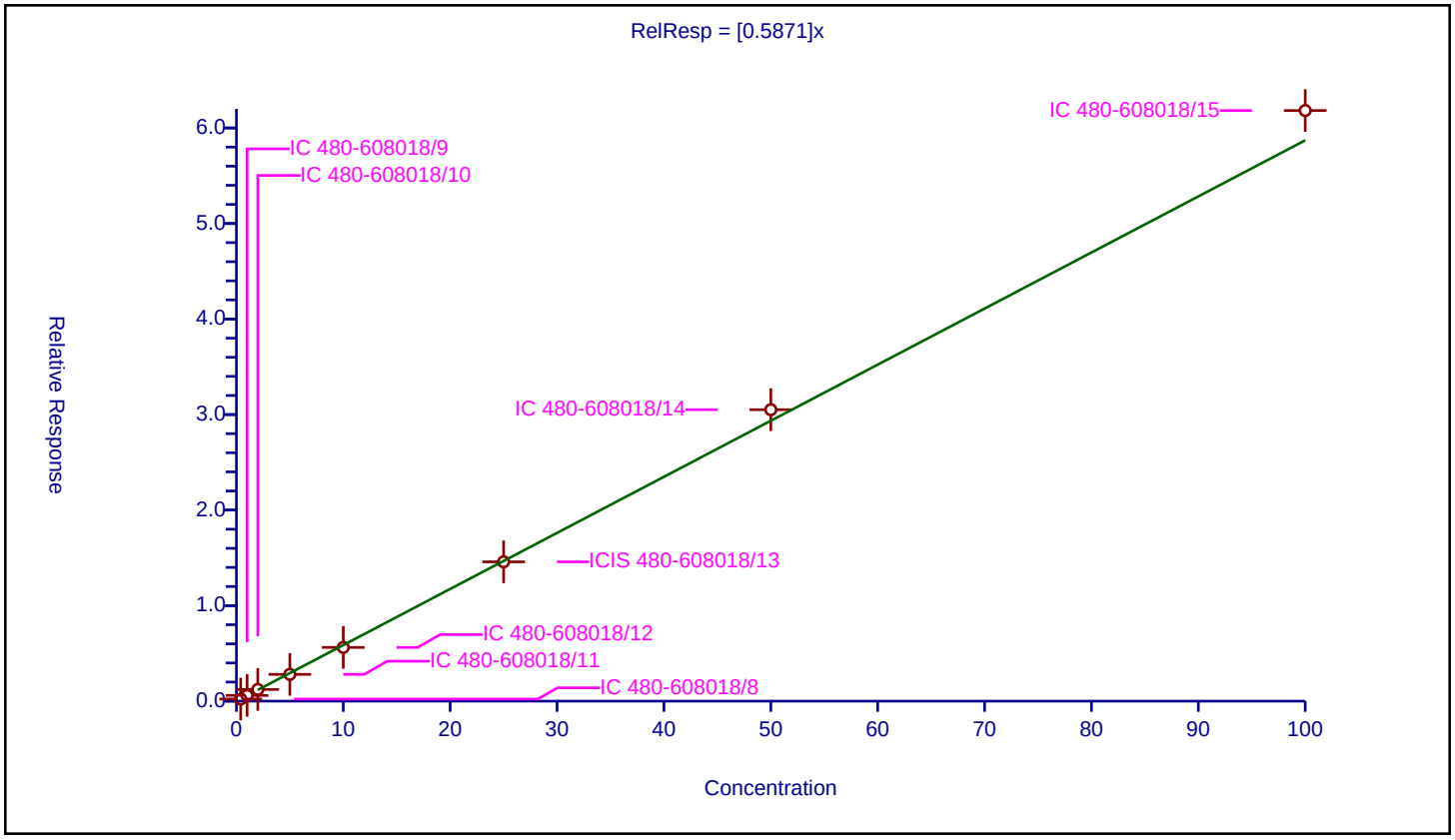
Curve Coefficients

Intercept:	0
Slope:	0.5871

Error Coefficients

Standard Error:	664000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.220735	25.0	536616.0	0.551838	Y
2	IC 480-608018/9	1.0	0.598507	25.0	560645.0	0.598507	Y
3	IC 480-608018/10	2.0	1.223856	25.0	570962.0	0.611928	Y
4	IC 480-608018/11	5.0	2.802054	25.0	567878.0	0.560411	Y
5	IC 480-608018/12	10.0	5.621331	25.0	564208.0	0.562133	Y
6	ICIS 480-608018/13	25.0	14.582359	25.0	590112.0	0.583294	Y
7	IC 480-608018/14	50.0	30.510449	25.0	614723.0	0.610209	Y
8	IC 480-608018/15	100.0	61.825924	25.0	624818.0	0.618259	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

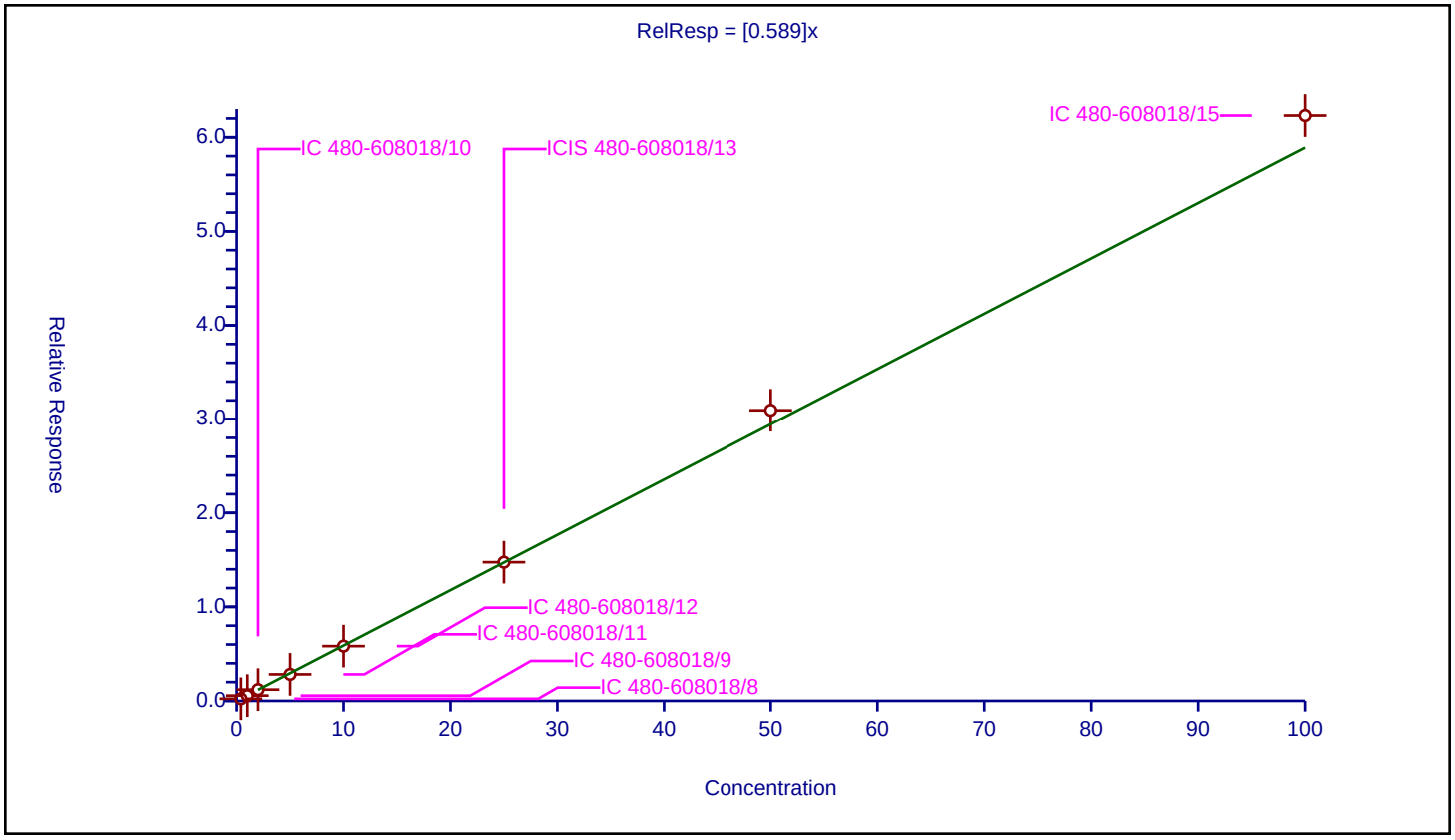
Curve Coefficients

Intercept:	0
Slope:	0.589

Error Coefficients

Standard Error:	671000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.228935	25.0	536616.0	0.572337	Y
2	IC 480-608018/9	1.0	0.56105	25.0	560645.0	0.56105	Y
3	IC 480-608018/10	2.0	1.199204	25.0	570962.0	0.599602	Y
4	IC 480-608018/11	5.0	2.821072	25.0	567878.0	0.564214	Y
5	IC 480-608018/12	10.0	5.827239	25.0	564208.0	0.582724	Y
6	ICIS 480-608018/13	25.0	14.754614	25.0	590112.0	0.590185	Y
7	IC 480-608018/14	50.0	30.945117	25.0	614723.0	0.618902	Y
8	IC 480-608018/15	100.0	62.309825	25.0	624818.0	0.623098	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

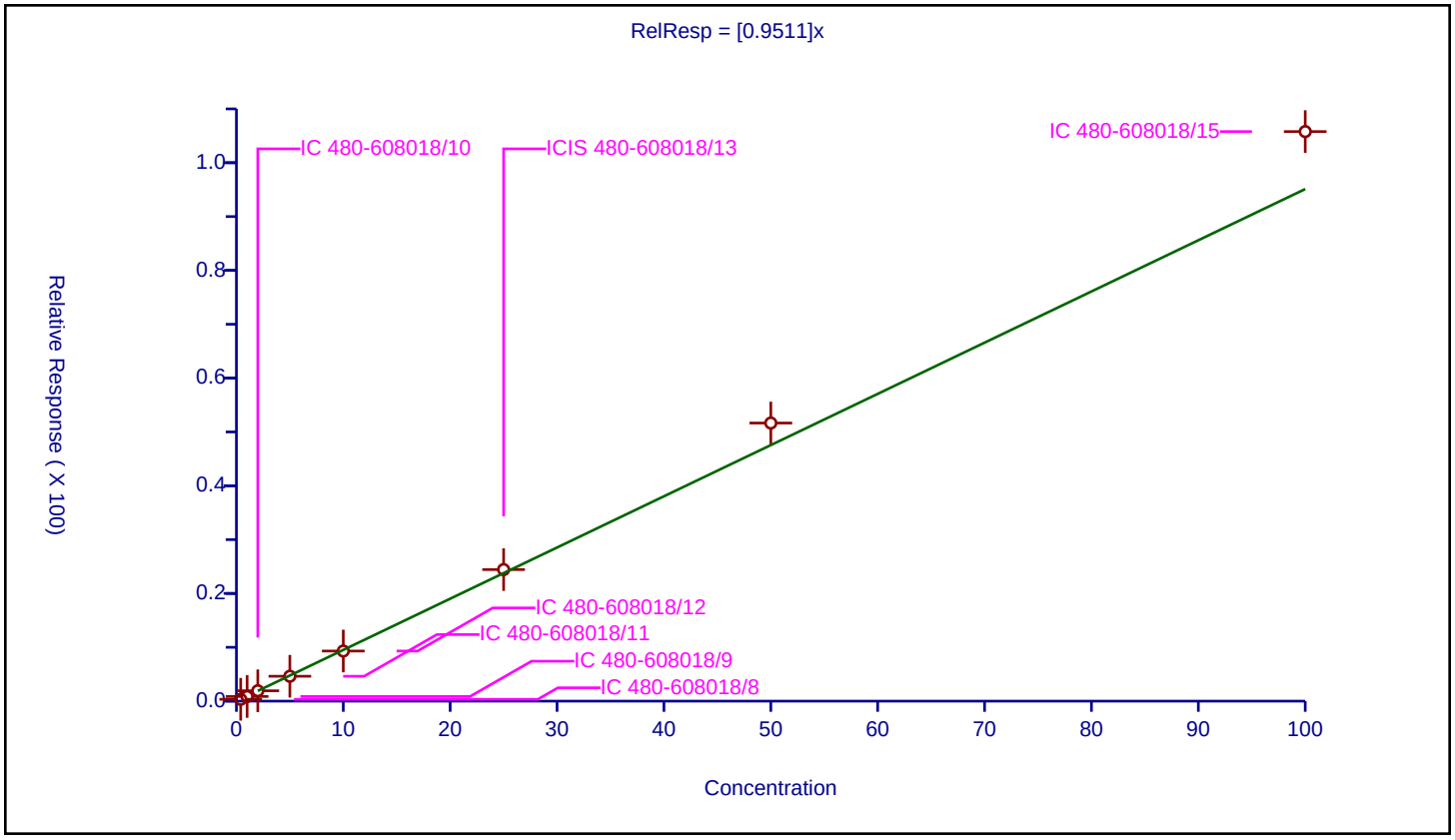
Curve Coefficients

Intercept:	0
Slope:	0.9511

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.343122	25.0	536616.0	0.857806	Y
2	IC 480-608018/9	1.0	0.863604	25.0	560645.0	0.863604	Y
3	IC 480-608018/10	2.0	1.927536	25.0	570962.0	0.963768	Y
4	IC 480-608018/11	5.0	4.623748	25.0	567878.0	0.92475	Y
5	IC 480-608018/12	10.0	9.305655	25.0	564208.0	0.930566	Y
6	ICIS 480-608018/13	25.0	24.434599	25.0	590112.0	0.977384	Y
7	IC 480-608018/14	50.0	51.653468	25.0	614723.0	1.033069	Y
8	IC 480-608018/15	100.0	105.784845	25.0	624818.0	1.057848	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

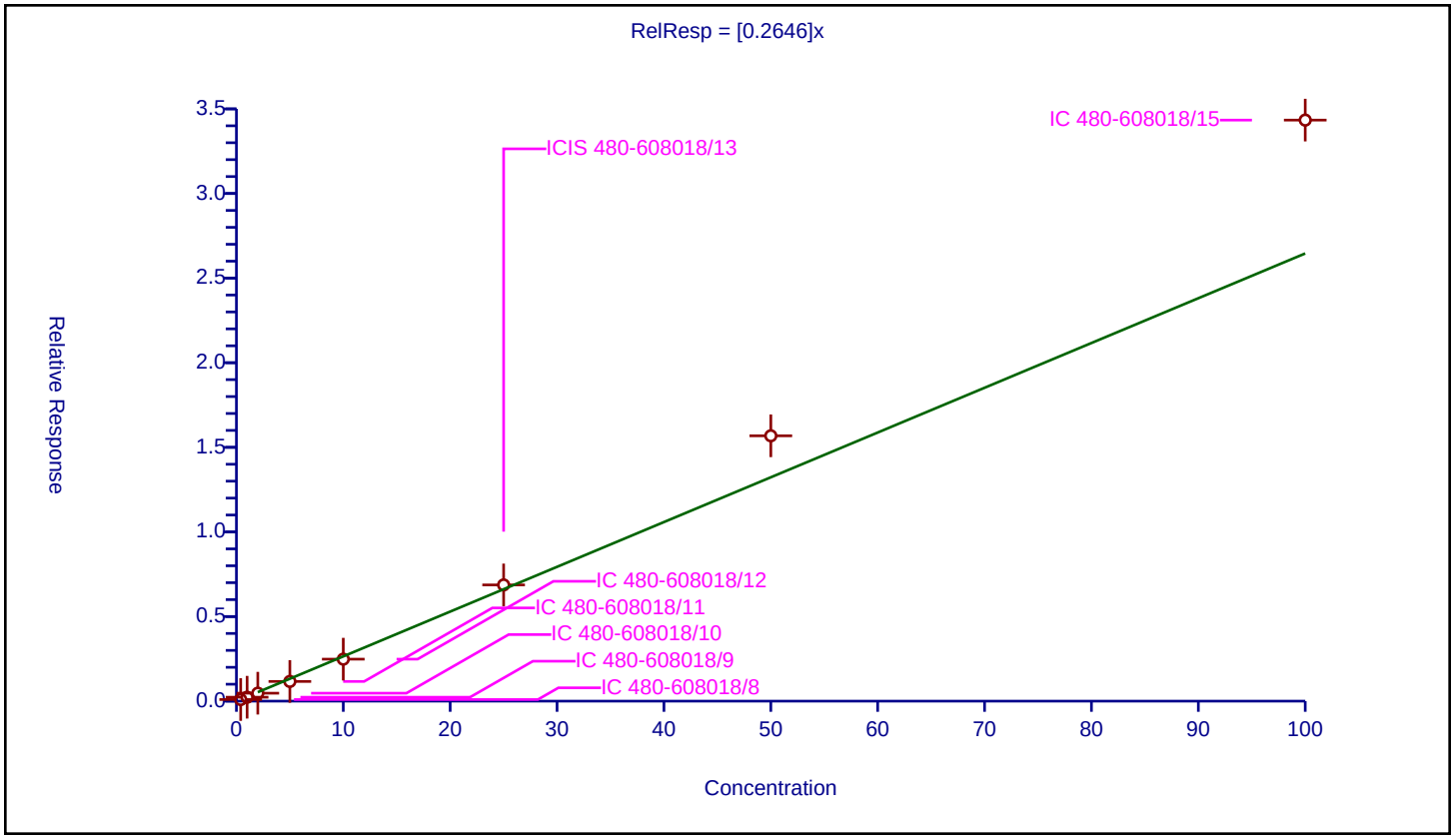
Curve Coefficients

Intercept:	0
Slope:	0.2646

Error Coefficients

Standard Error:	362000
Relative Standard Error:	16.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.09476	25.0	536616.0	0.236901	Y
2	IC 480-608018/9	1.0	0.231653	25.0	560645.0	0.231653	Y
3	IC 480-608018/10	2.0	0.470347	25.0	570962.0	0.235173	Y
4	IC 480-608018/11	5.0	1.164731	25.0	567878.0	0.232946	Y
5	IC 480-608018/12	10.0	2.481	25.0	564208.0	0.2481	Y
6	ICIS 480-608018/13	25.0	6.868145	25.0	590112.0	0.274726	Y
7	IC 480-608018/14	50.0	15.680437	25.0	614723.0	0.313609	Y
8	IC 480-608018/15	100.0	34.337079	25.0	624818.0	0.343371	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

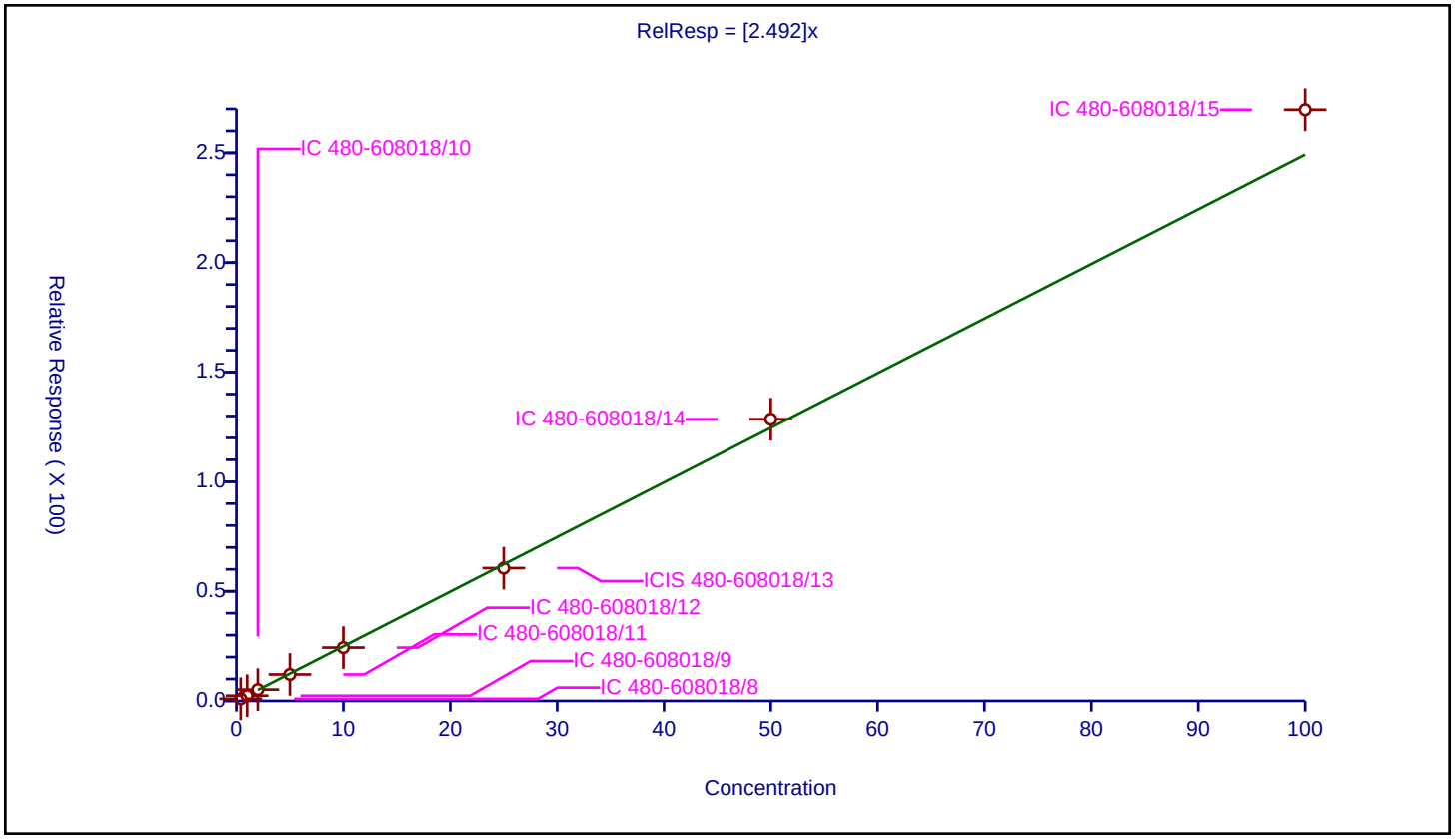
Curve Coefficients

Intercept:	0
Slope:	2.492

Error Coefficients

Standard Error:	1750000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.974127	25.0	321724.0	2.435317	Y
2	IC 480-608018/9	1.0	2.380235	25.0	336784.0	2.380235	Y
3	IC 480-608018/10	2.0	5.16818	25.0	350844.0	2.58409	Y
4	IC 480-608018/11	5.0	12.072113	25.0	332769.0	2.414423	Y
5	IC 480-608018/12	10.0	24.322688	25.0	340648.0	2.432269	Y
6	ICIS 480-608018/13	25.0	60.575307	25.0	375982.0	2.423012	Y
7	IC 480-608018/14	50.0	128.52558	25.0	389092.0	2.570512	Y
8	IC 480-608018/15	100.0	269.634724	25.0	376113.0	2.696347	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

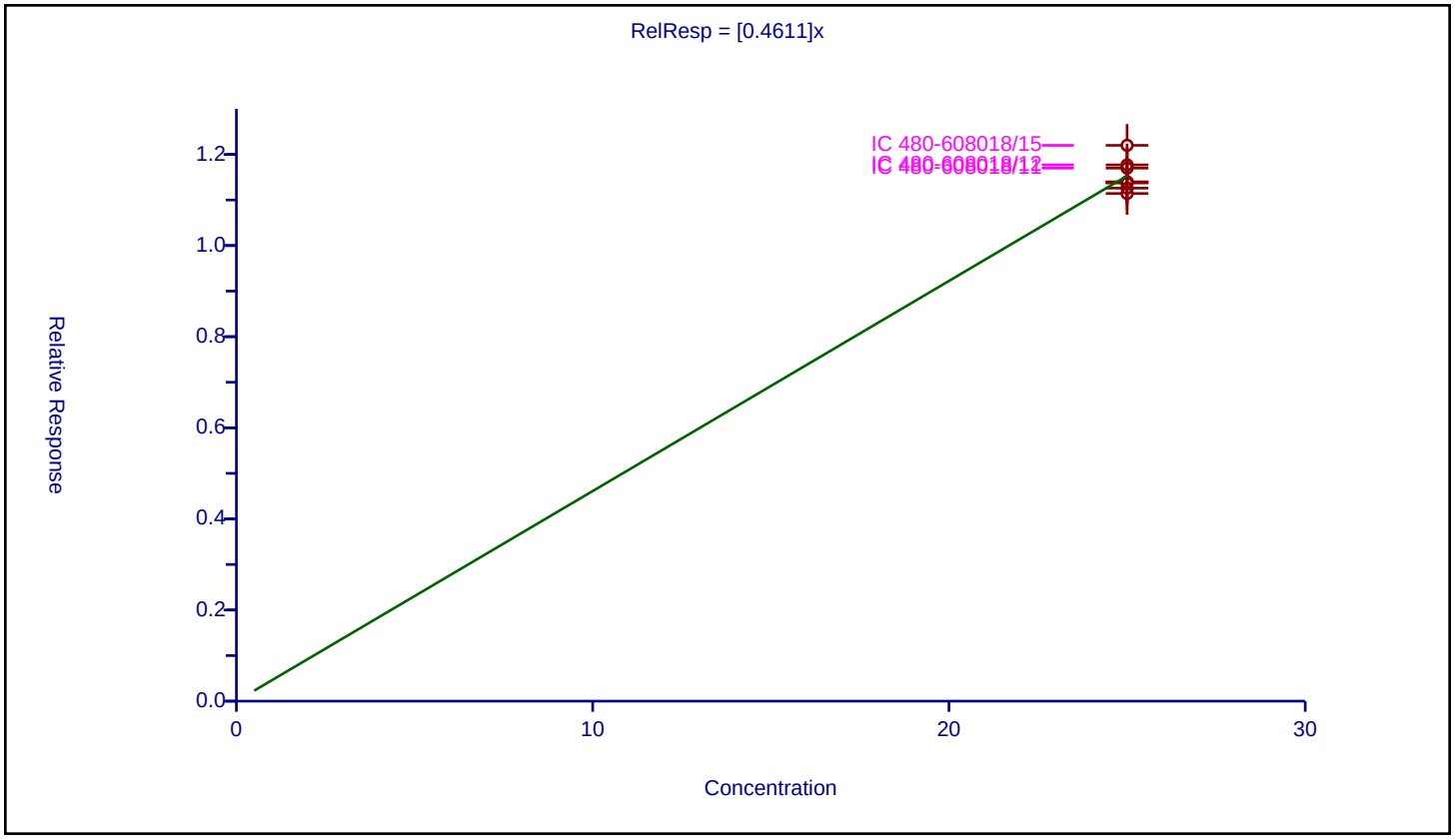
Curve Coefficients

Intercept:	0
Slope:	0.4611

Error Coefficients

Standard Error:	286000
Relative Standard Error:	3.0
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	25.0	11.259961	25.0	536616.0	0.450398	Y
2	IC 480-608018/9	25.0	11.380464	25.0	560645.0	0.455219	Y
3	IC 480-608018/10	25.0	11.142379	25.0	570962.0	0.445695	Y
4	IC 480-608018/11	25.0	11.69974	25.0	567878.0	0.46799	Y
5	IC 480-608018/12	25.0	11.77026	25.0	564208.0	0.47081	Y
6	ICIS 480-608018/13	25.0	11.37695	25.0	590112.0	0.455078	Y
7	IC 480-608018/14	25.0	11.399321	25.0	614723.0	0.455973	Y
8	IC 480-608018/15	25.0	12.199593	25.0	624818.0	0.487984	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

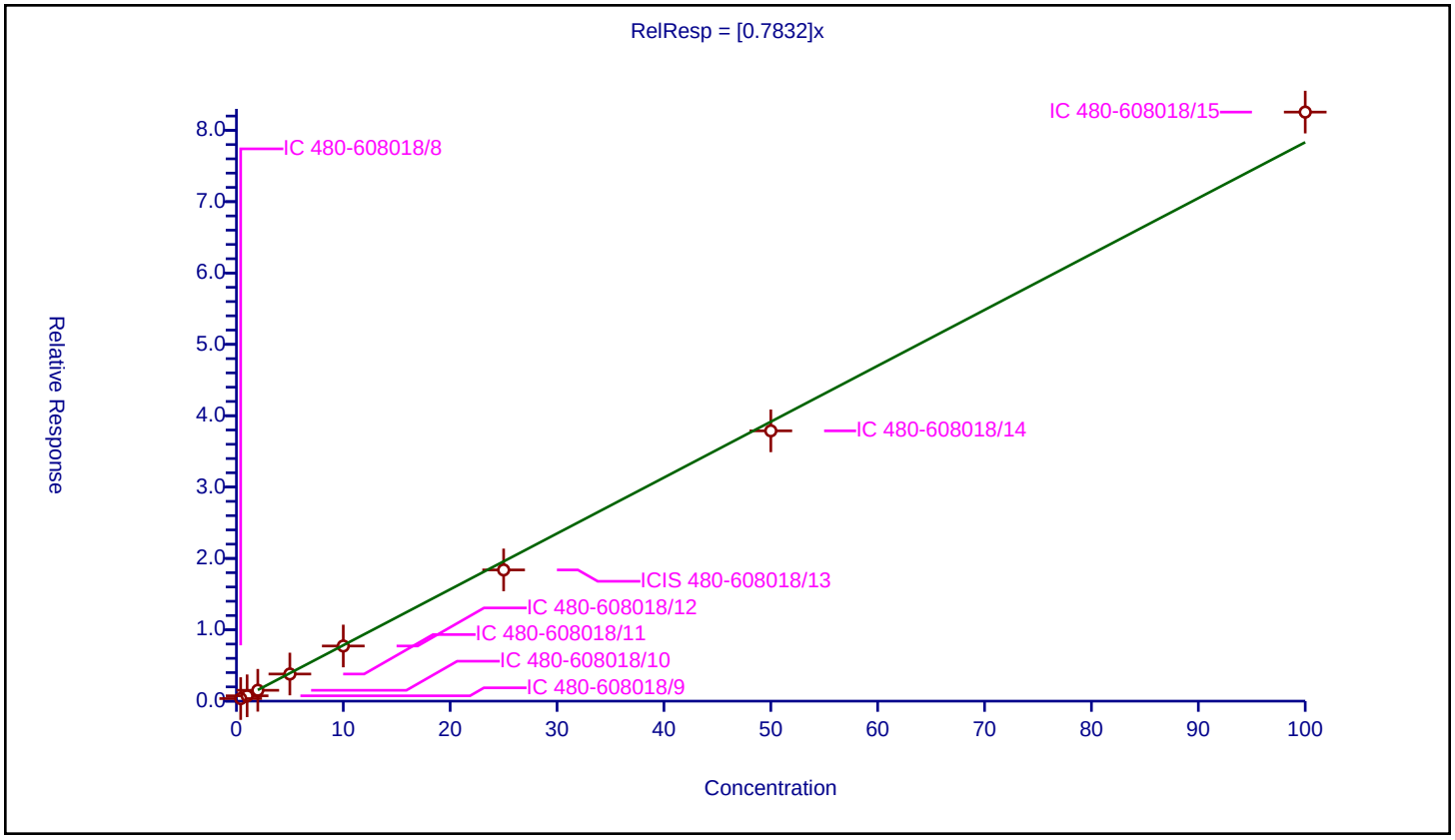
Curve Coefficients

Intercept:	0
Slope:	0.7832

Error Coefficients

Standard Error:	532000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.361645	25.0	321724.0	0.904113	Y
2	IC 480-608018/9	1.0	0.749442	25.0	336784.0	0.749442	Y
3	IC 480-608018/10	2.0	1.520833	25.0	350844.0	0.760416	Y
4	IC 480-608018/11	5.0	3.802938	25.0	332769.0	0.760588	Y
5	IC 480-608018/12	10.0	7.727185	25.0	340648.0	0.772718	Y
6	ICIS 480-608018/13	25.0	18.388114	25.0	375982.0	0.735525	Y
7	IC 480-608018/14	50.0	37.879088	25.0	389092.0	0.757582	Y
8	IC 480-608018/15	100.0	82.553249	25.0	376113.0	0.825532	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

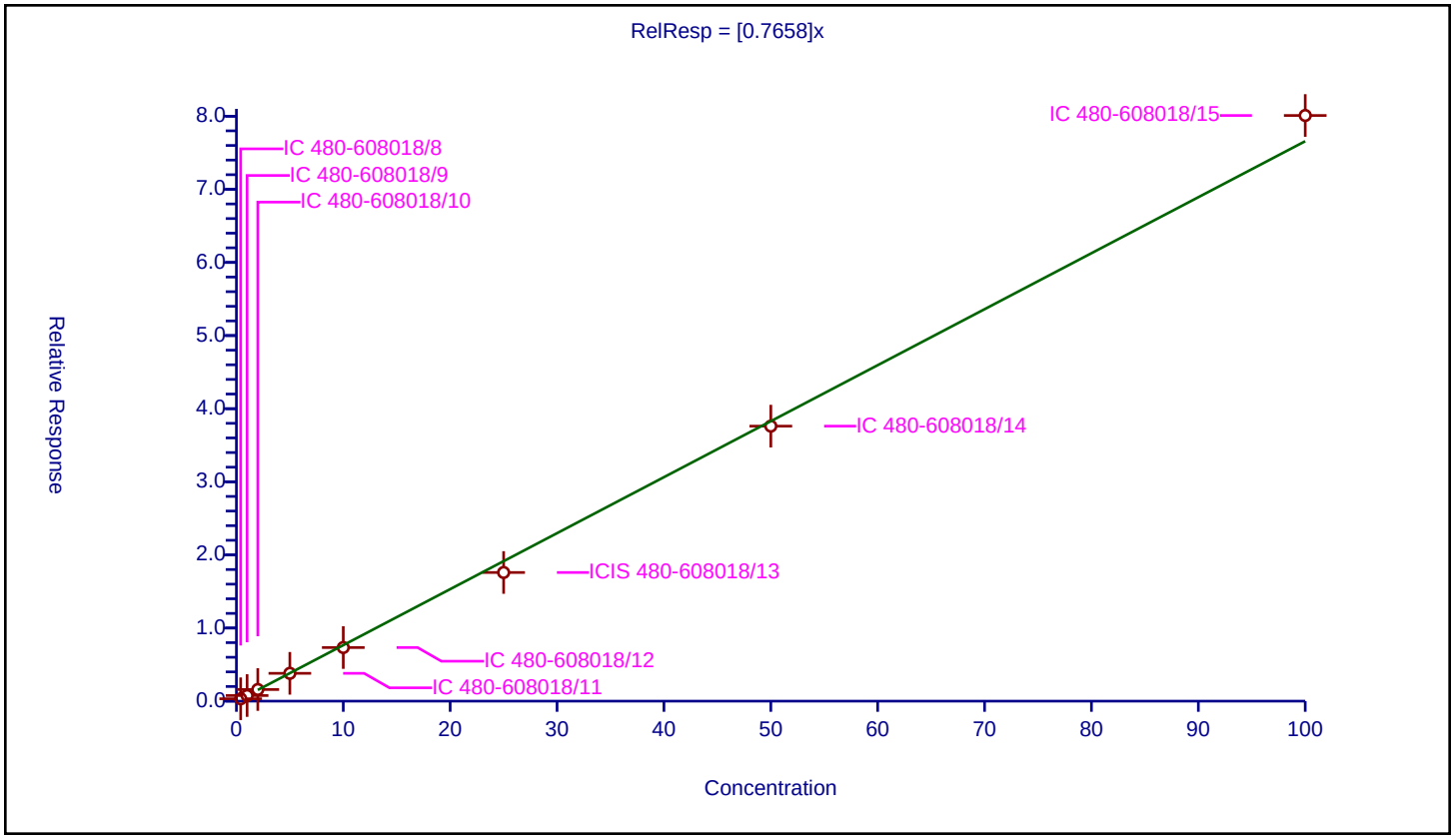
Curve Coefficients

Intercept:	0
Slope:	0.7658

Error Coefficients

Standard Error:	518000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.325201	25.0	321724.0	0.813003	Y
2	IC 480-608018/9	1.0	0.766218	25.0	336784.0	0.766218	Y
3	IC 480-608018/10	2.0	1.591519	25.0	350844.0	0.79576	Y
4	IC 480-608018/11	5.0	3.805568	25.0	332769.0	0.761114	Y
5	IC 480-608018/12	10.0	7.331542	25.0	340648.0	0.733154	Y
6	ICIS 480-608018/13	25.0	17.594193	25.0	375982.0	0.703768	Y
7	IC 480-608018/14	50.0	37.613084	25.0	389092.0	0.752262	Y
8	IC 480-608018/15	100.0	80.096208	25.0	376113.0	0.800962	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

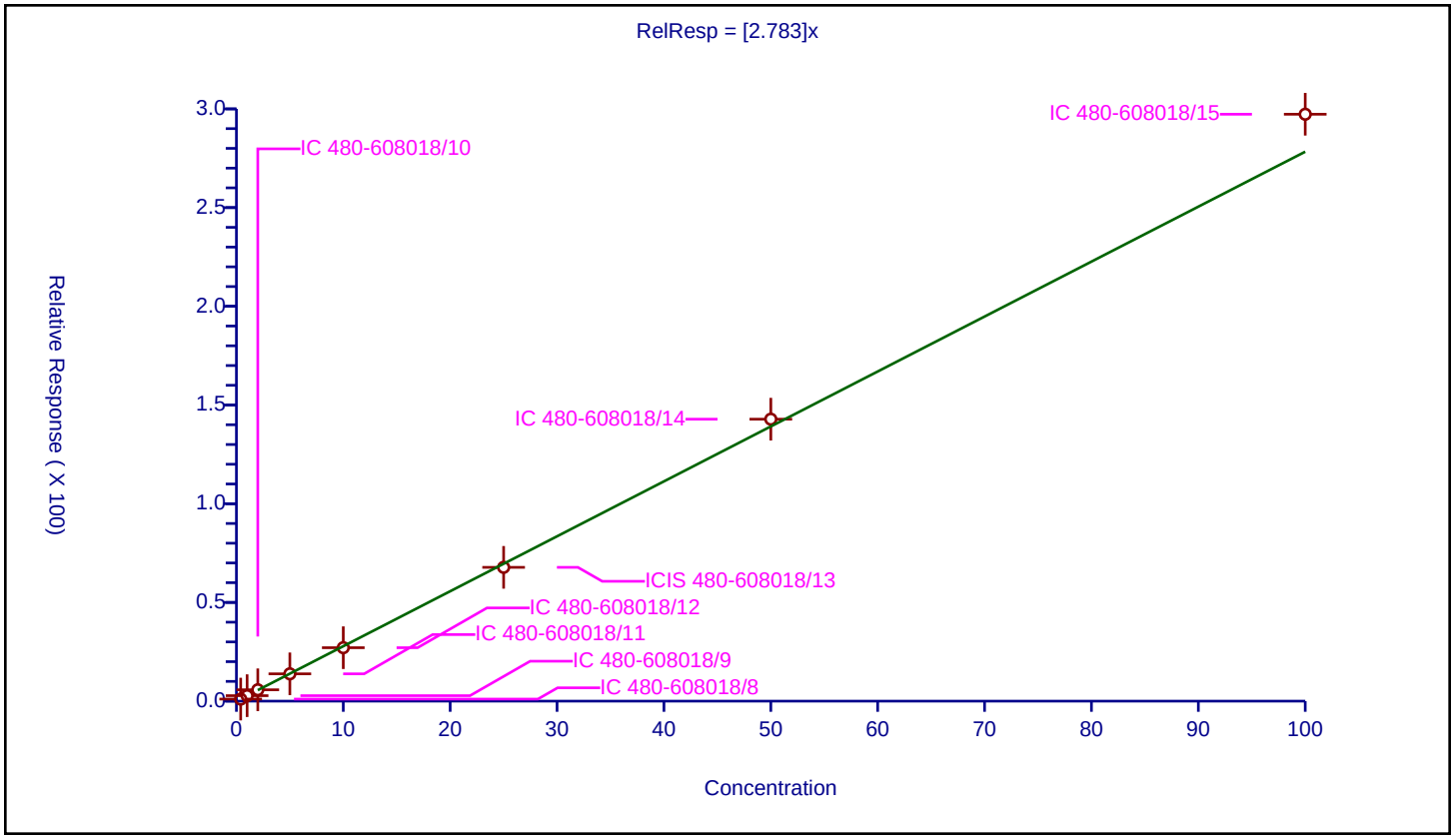
Curve Coefficients

Intercept:	0
Slope:	2.783

Error Coefficients

Standard Error:	1930000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.040488	25.0	321724.0	2.60122	Y
2	IC 480-608018/9	1.0	2.771361	25.0	336784.0	2.771361	Y
3	IC 480-608018/10	2.0	5.753839	25.0	350844.0	2.87692	Y
4	IC 480-608018/11	5.0	13.833846	25.0	332769.0	2.766769	Y
5	IC 480-608018/12	10.0	27.072814	25.0	340648.0	2.707281	Y
6	ICIS 480-608018/13	25.0	67.775651	25.0	375982.0	2.711026	Y
7	IC 480-608018/14	50.0	142.827596	25.0	389092.0	2.856552	Y
8	IC 480-608018/15	100.0	297.2935	25.0	376113.0	2.972935	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

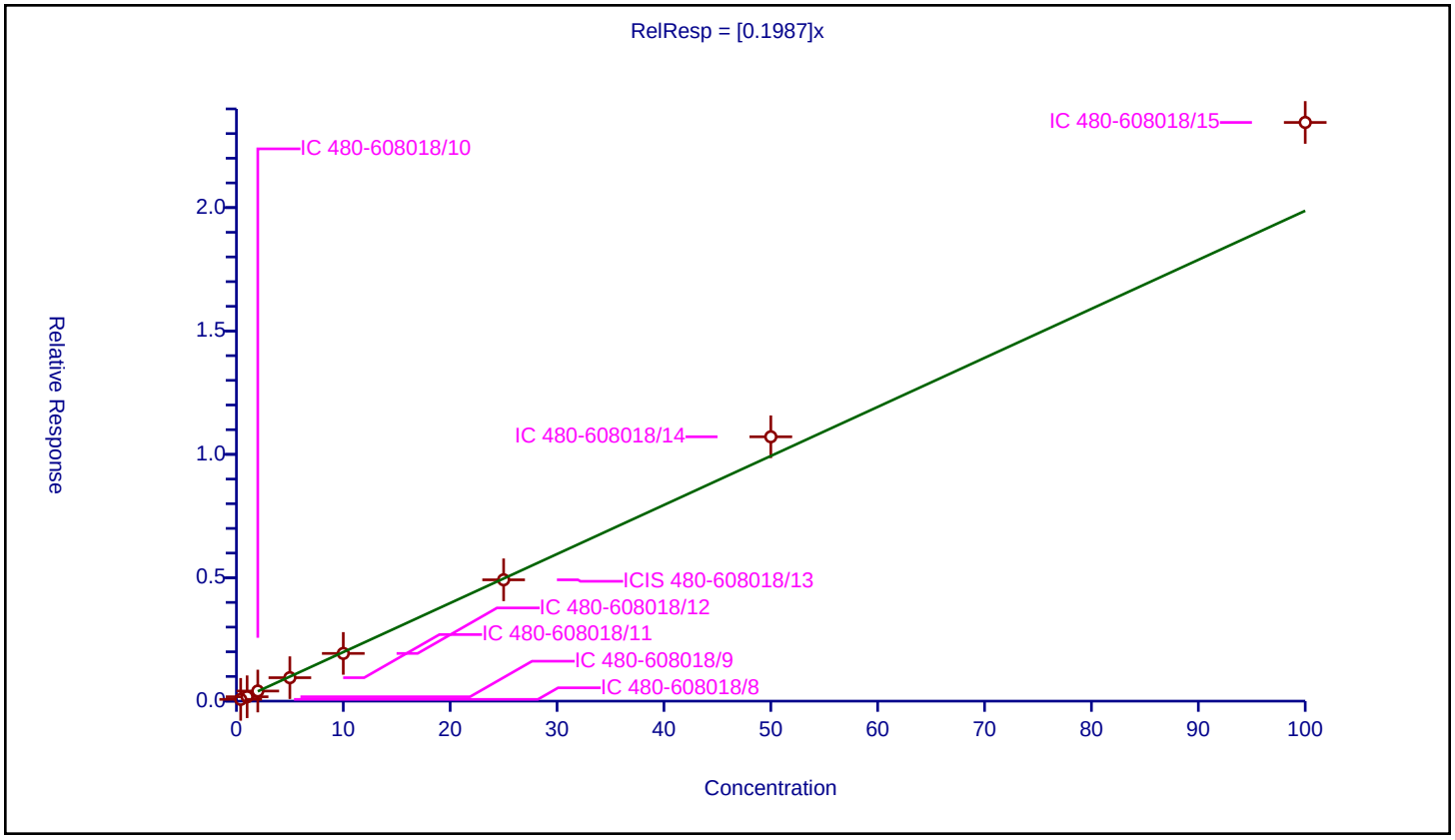
Curve Coefficients

Intercept:	0
Slope:	0.1987

Error Coefficients

Standard Error:	151000
Relative Standard Error:	9.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.071334	25.0	321724.0	0.178336	Y
2	IC 480-608018/9	1.0	0.178007	25.0	336784.0	0.178007	Y
3	IC 480-608018/10	2.0	0.409227	25.0	350844.0	0.204614	Y
4	IC 480-608018/11	5.0	0.950209	25.0	332769.0	0.190042	Y
5	IC 480-608018/12	10.0	1.933227	25.0	340648.0	0.193323	Y
6	ICIS 480-608018/13	25.0	4.916326	25.0	375982.0	0.196653	Y
7	IC 480-608018/14	50.0	10.712119	25.0	389092.0	0.214242	Y
8	IC 480-608018/15	100.0	23.450865	25.0	376113.0	0.234509	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

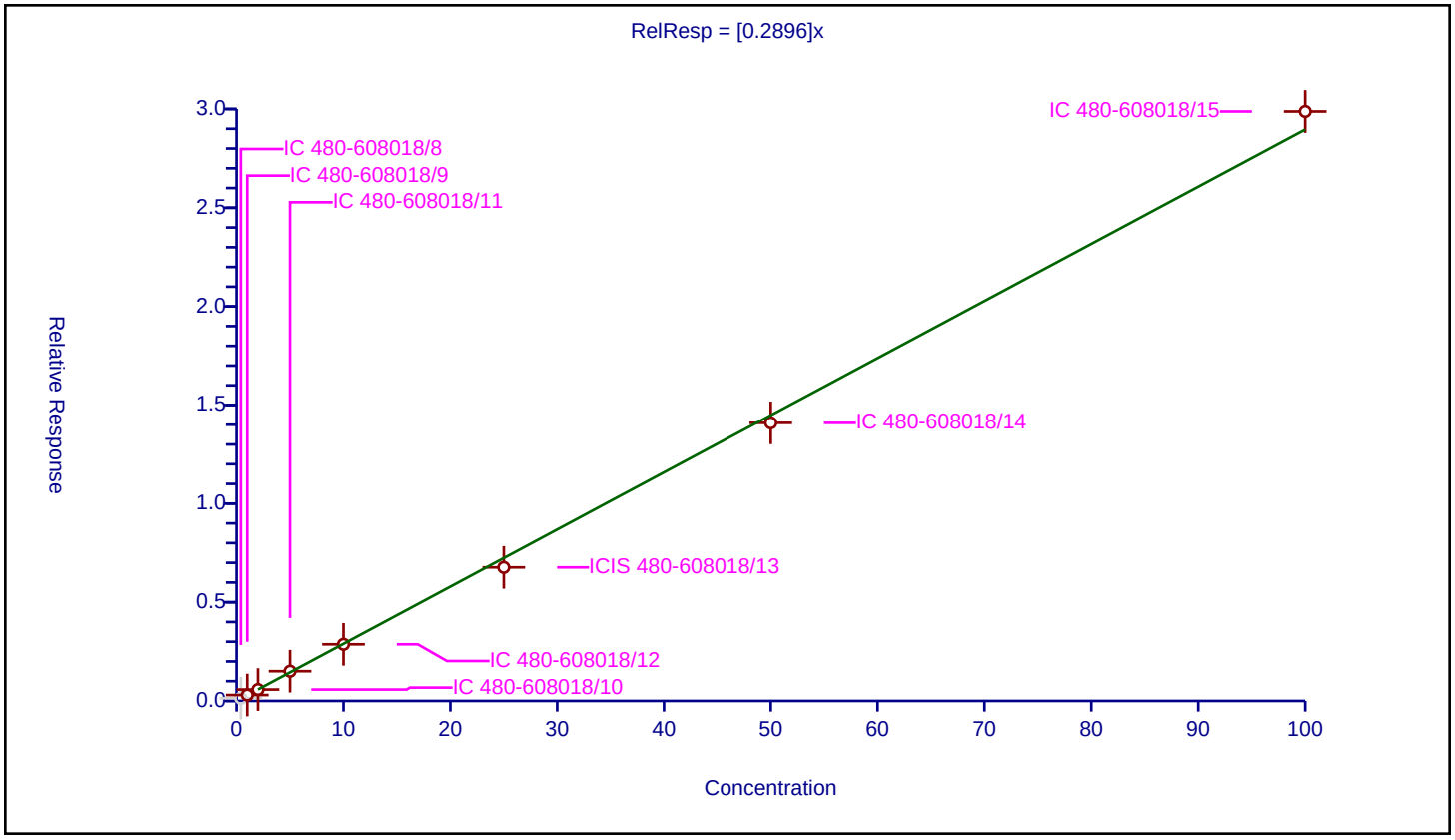
Curve Coefficients

Intercept:	0
Slope:	0.2896

Error Coefficients

Standard Error:	209000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.137463	25.0	321724.0	0.343656	N
2	IC 480-608018/9	1.0	0.299376	25.0	336784.0	0.299376	Y
3	IC 480-608018/10	2.0	0.57718	25.0	350844.0	0.28859	Y
4	IC 480-608018/11	5.0	1.506	25.0	332769.0	0.3012	Y
5	IC 480-608018/12	10.0	2.869311	25.0	340648.0	0.286931	Y
6	ICIS 480-608018/13	25.0	6.766148	25.0	375982.0	0.270646	Y
7	IC 480-608018/14	50.0	14.09506	25.0	389092.0	0.281901	Y
8	IC 480-608018/15	100.0	29.874865	25.0	376113.0	0.298749	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

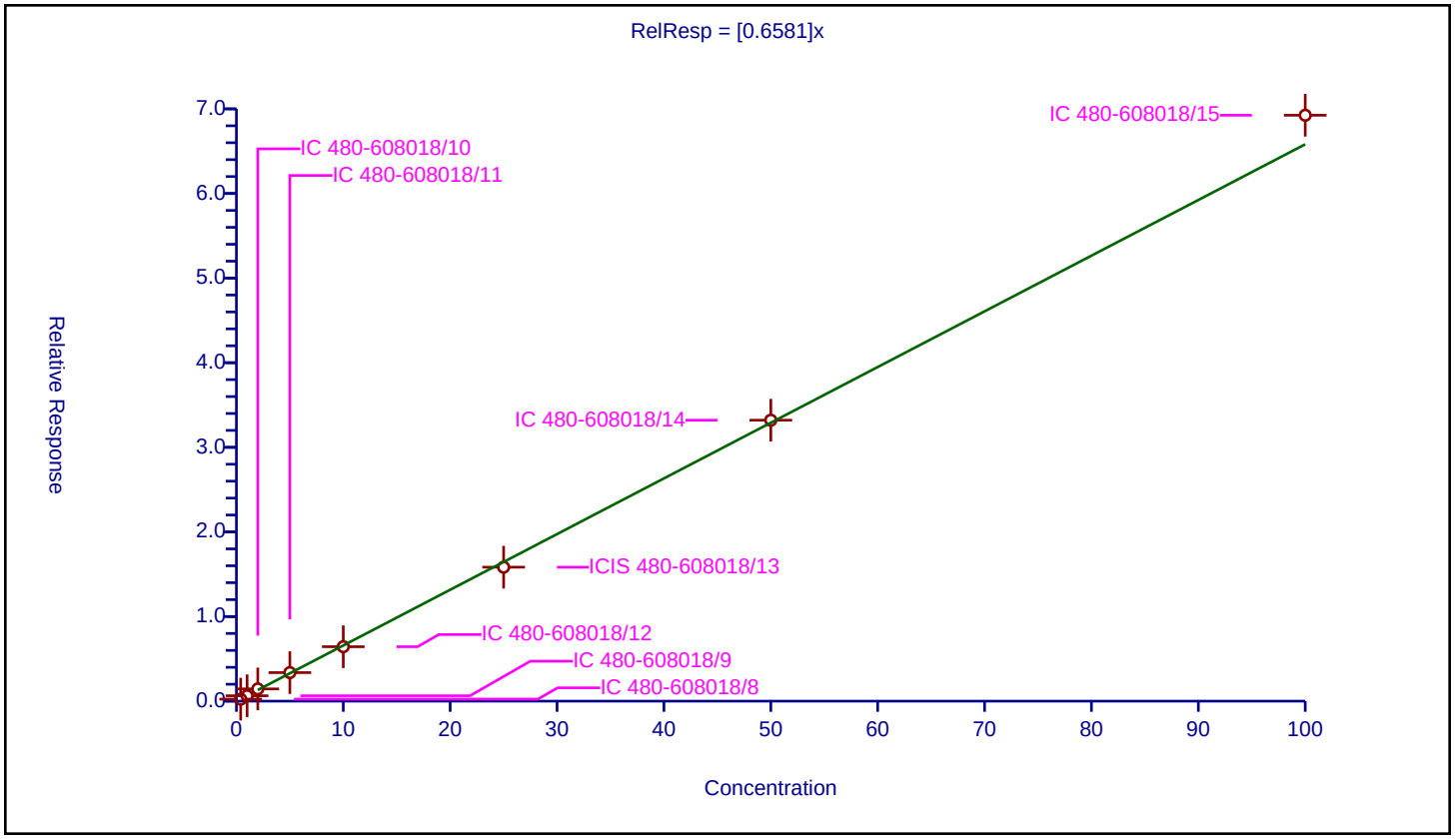
Curve Coefficients

Intercept:	0
Slope:	0.6581

Error Coefficients

Standard Error:	450000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.238792	25.0	321724.0	0.596979	Y
2	IC 480-608018/9	1.0	0.636239	25.0	336784.0	0.636239	Y
3	IC 480-608018/10	2.0	1.447296	25.0	350844.0	0.723648	Y
4	IC 480-608018/11	5.0	3.373812	25.0	332769.0	0.674762	Y
5	IC 480-608018/12	10.0	6.434281	25.0	340648.0	0.643428	Y
6	ICIS 480-608018/13	25.0	15.83387	25.0	375982.0	0.633355	Y
7	IC 480-608018/14	50.0	33.207635	25.0	389092.0	0.664153	Y
8	IC 480-608018/15	100.0	69.247075	25.0	376113.0	0.692471	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

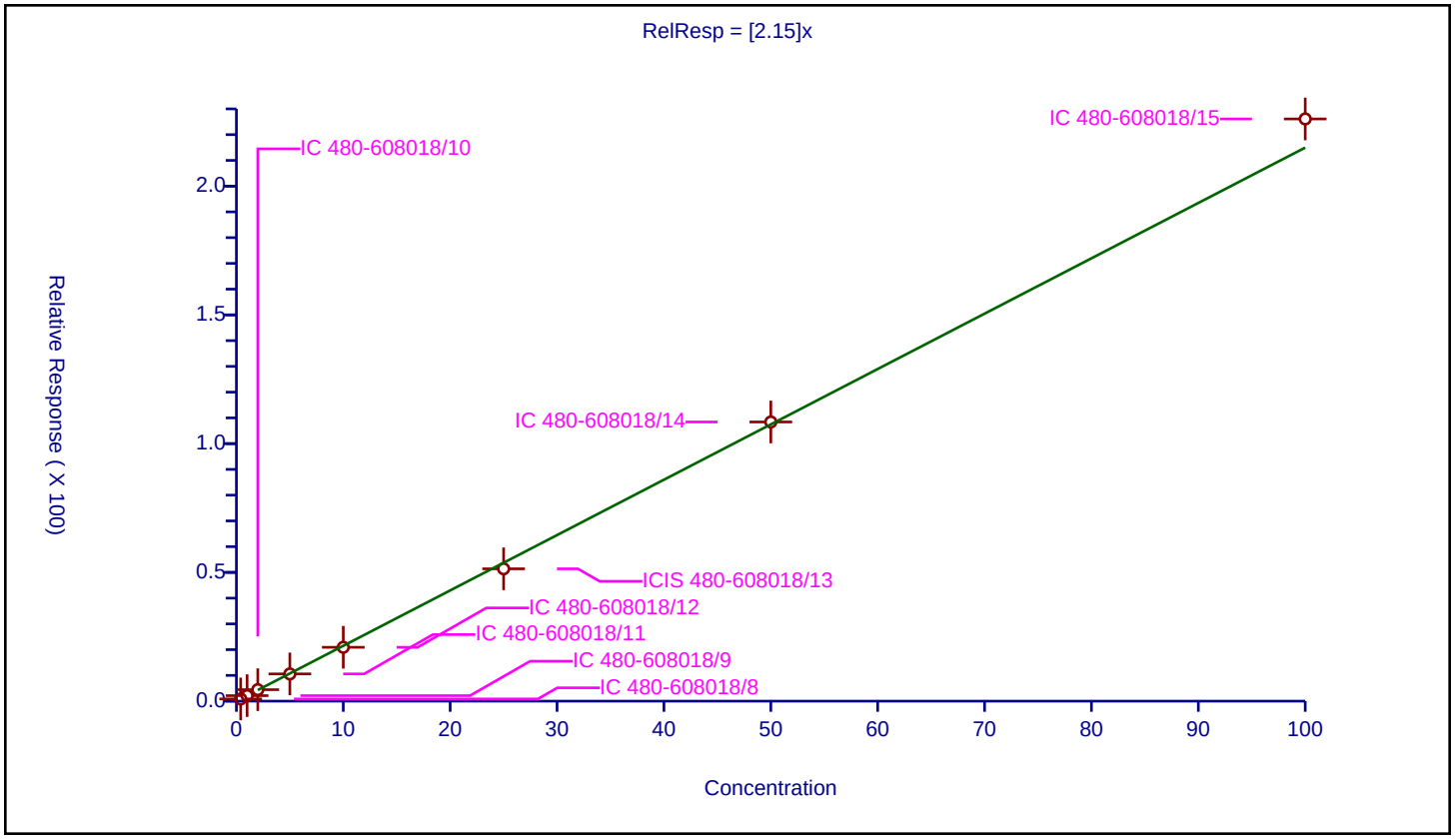
Curve Coefficients

Intercept:	0
Slope:	2.15

Error Coefficients

Standard Error:	1470000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.858111	25.0	321724.0	2.145278	Y
2	IC 480-608018/9	1.0	2.132524	25.0	336784.0	2.132524	Y
3	IC 480-608018/10	2.0	4.457537	25.0	350844.0	2.228768	Y
4	IC 480-608018/11	5.0	10.573251	25.0	332769.0	2.11465	Y
5	IC 480-608018/12	10.0	20.908753	25.0	340648.0	2.090875	Y
6	ICIS 480-608018/13	25.0	51.392021	25.0	375982.0	2.055681	Y
7	IC 480-608018/14	50.0	108.411828	25.0	389092.0	2.168237	Y
8	IC 480-608018/15	100.0	226.088237	25.0	376113.0	2.260882	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

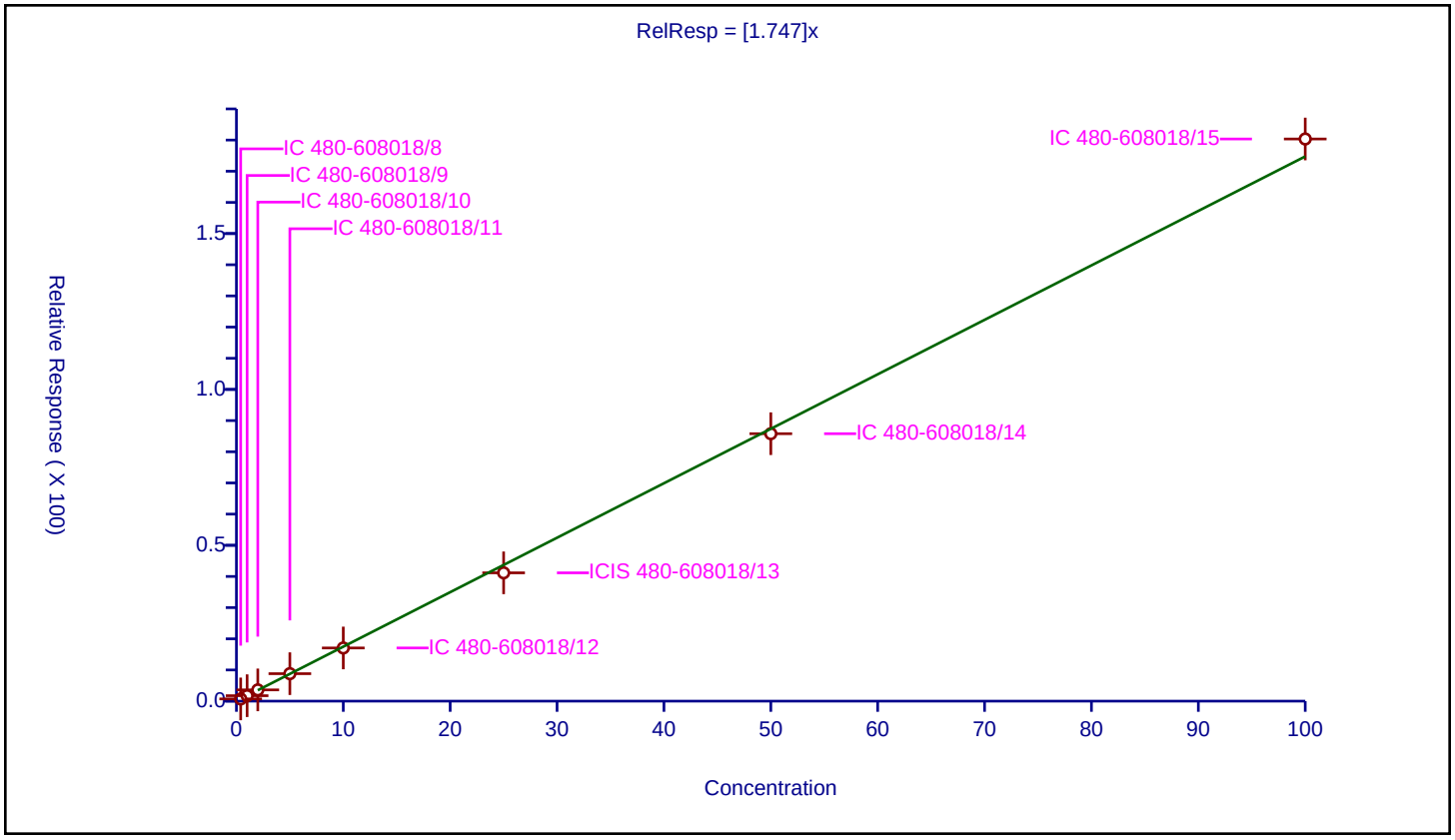
Curve Coefficients

Intercept:	0
Slope:	1.747

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.715909	25.0	321724.0	1.789772	Y
2	IC 480-608018/9	1.0	1.750677	25.0	336784.0	1.750677	Y
3	IC 480-608018/10	2.0	3.607871	25.0	350844.0	1.803936	Y
4	IC 480-608018/11	5.0	8.814673	25.0	332769.0	1.762935	Y
5	IC 480-608018/12	10.0	17.057564	25.0	340648.0	1.705756	Y
6	ICIS 480-608018/13	25.0	41.16733	25.0	375982.0	1.646693	Y
7	IC 480-608018/14	50.0	85.800081	25.0	389092.0	1.716002	Y
8	IC 480-608018/15	100.0	180.340416	25.0	376113.0	1.803404	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

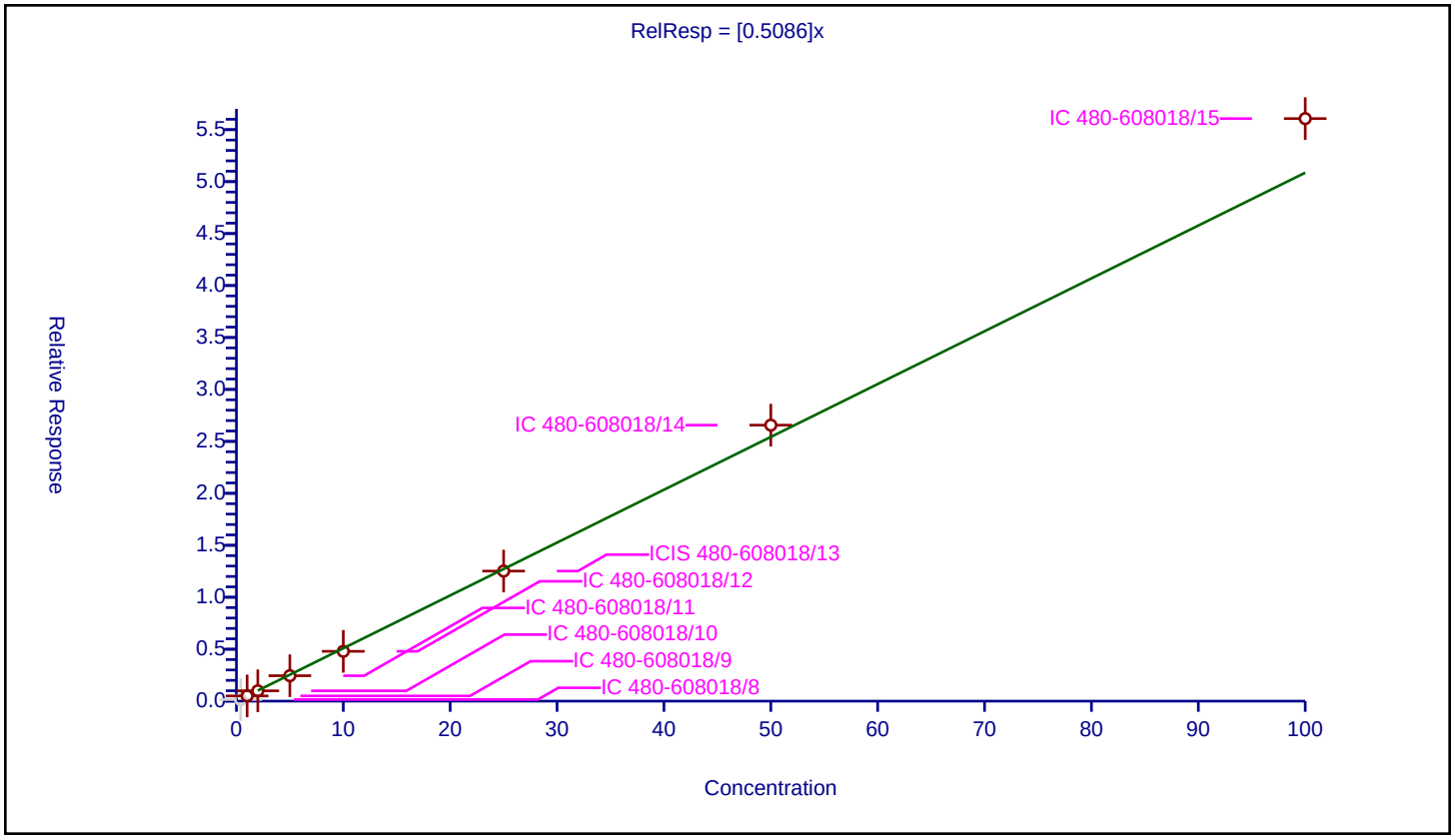
Curve Coefficients

Intercept:	0
Slope:	0.5086

Error Coefficients

Standard Error:	392000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.155257	25.0	321724.0	0.388143	N
2	IC 480-608018/9	1.0	0.501211	25.0	336784.0	0.501211	Y
3	IC 480-608018/10	2.0	0.99453	25.0	350844.0	0.497265	Y
4	IC 480-608018/11	5.0	2.447719	25.0	332769.0	0.489544	Y
5	IC 480-608018/12	10.0	4.793805	25.0	340648.0	0.47938	Y
6	ICIS 480-608018/13	25.0	12.519349	25.0	375982.0	0.500774	Y
7	IC 480-608018/14	50.0	26.563383	25.0	389092.0	0.531268	Y
8	IC 480-608018/15	100.0	56.064933	25.0	376113.0	0.560649	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

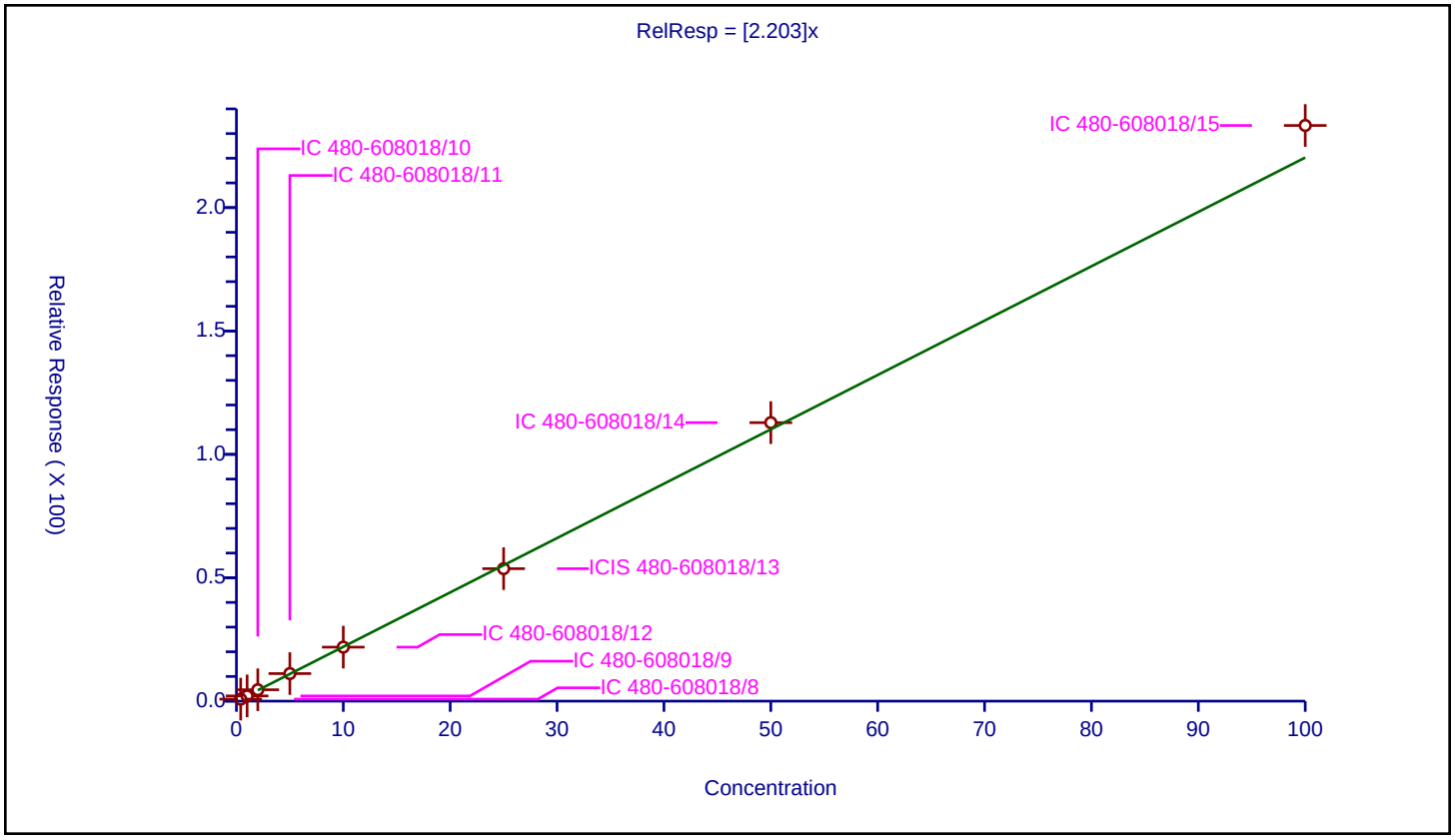
Curve Coefficients

Intercept:	0
Slope:	2.203

Error Coefficients

Standard Error:	1520000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.817549	25.0	321724.0	2.043871	Y
2	IC 480-608018/9	1.0	2.112853	25.0	336784.0	2.112853	Y
3	IC 480-608018/10	2.0	4.61024	25.0	350844.0	2.30512	Y
4	IC 480-608018/11	5.0	11.170662	25.0	332769.0	2.234132	Y
5	IC 480-608018/12	10.0	21.885788	25.0	340648.0	2.188579	Y
6	ICIS 480-608018/13	25.0	53.682623	25.0	375982.0	2.147305	Y
7	IC 480-608018/14	50.0	112.86296	25.0	389092.0	2.257259	Y
8	IC 480-608018/15	100.0	233.272381	25.0	376113.0	2.332724	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

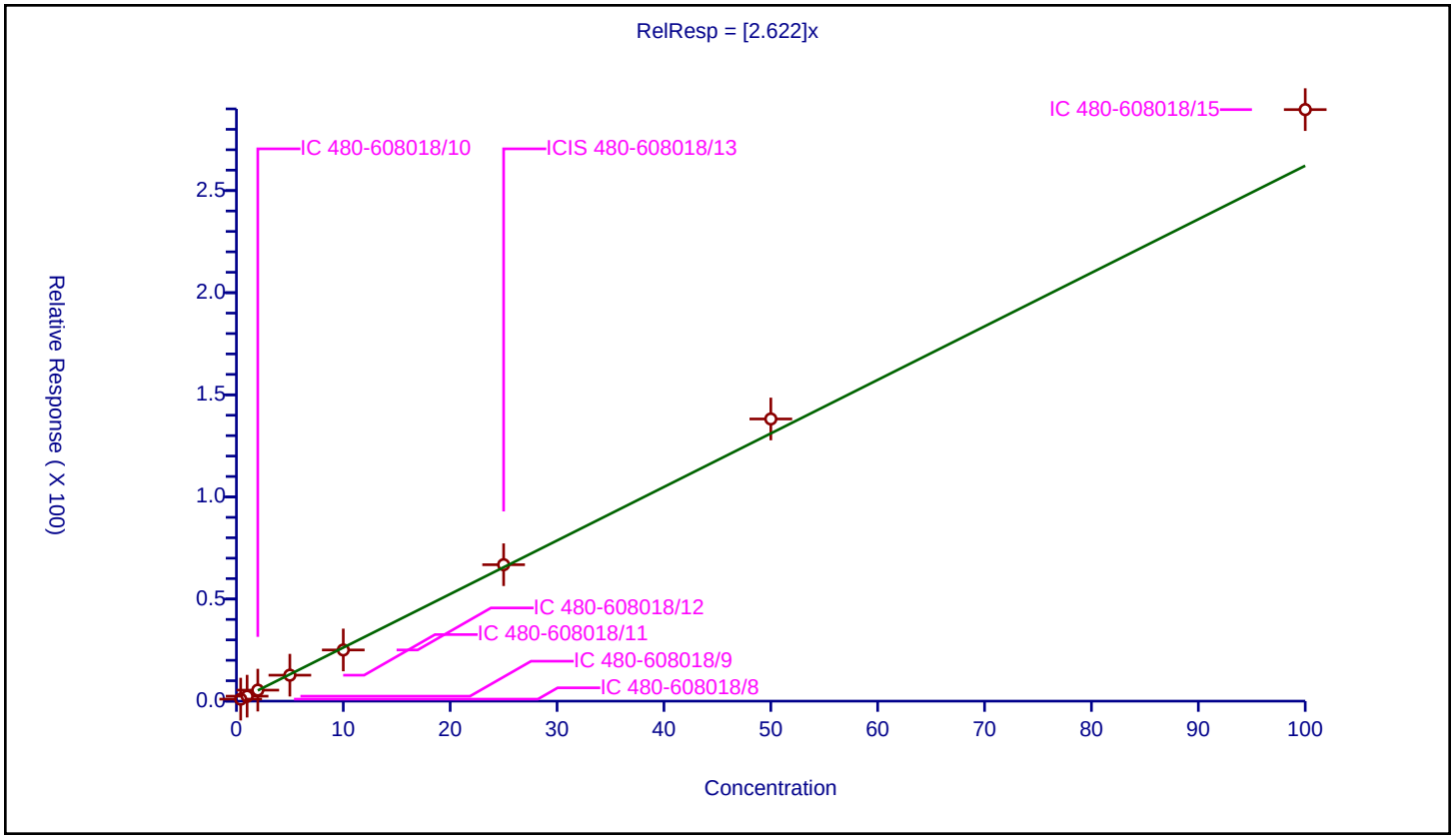
Curve Coefficients

Intercept:	0
Slope:	2.622

Error Coefficients

Standard Error:	1880000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.986871	25.0	321724.0	2.467177	Y
2	IC 480-608018/9	1.0	2.428188	25.0	336784.0	2.428188	Y
3	IC 480-608018/10	2.0	5.398553	25.0	350844.0	2.699277	Y
4	IC 480-608018/11	5.0	12.709041	25.0	332769.0	2.541808	Y
5	IC 480-608018/12	10.0	25.052987	25.0	340648.0	2.505299	Y
6	ICIS 480-608018/13	25.0	66.803996	25.0	375982.0	2.67216	Y
7	IC 480-608018/14	50.0	138.163853	25.0	389092.0	2.763277	Y
8	IC 480-608018/15	100.0	289.652844	25.0	376113.0	2.896528	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

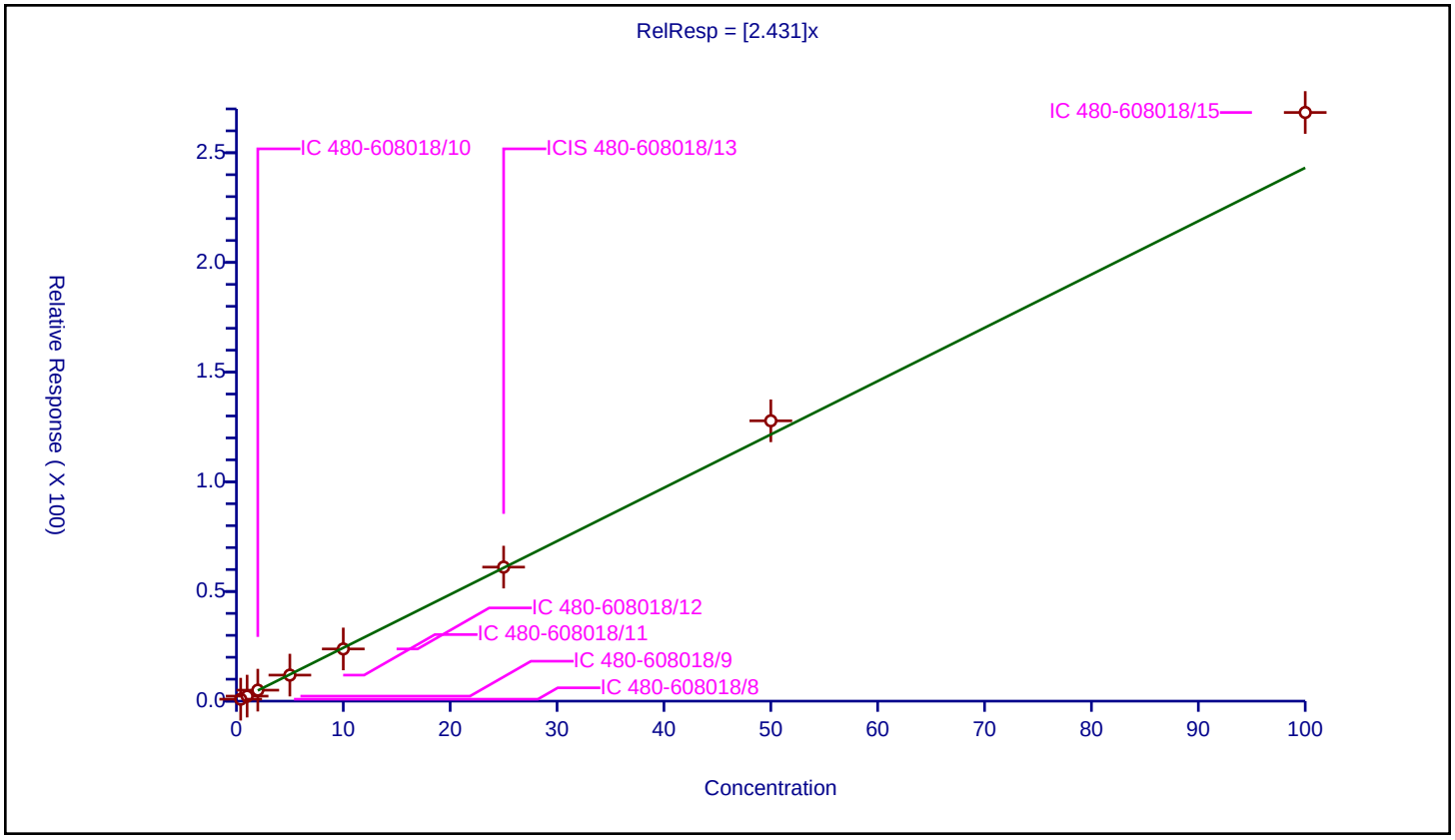
Curve Coefficients

Intercept:	0
Slope:	2.431

Error Coefficients

Standard Error:	1740000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.890049	25.0	321724.0	2.225122	Y
2	IC 480-608018/9	1.0	2.288485	25.0	336784.0	2.288485	Y
3	IC 480-608018/10	2.0	5.004076	25.0	350844.0	2.502038	Y
4	IC 480-608018/11	5.0	11.86356	25.0	332769.0	2.372712	Y
5	IC 480-608018/12	10.0	23.793036	25.0	340648.0	2.379304	Y
6	ICIS 480-608018/13	25.0	61.105186	25.0	375982.0	2.444207	Y
7	IC 480-608018/14	50.0	127.807434	25.0	389092.0	2.556149	Y
8	IC 480-608018/15	100.0	268.359575	25.0	376113.0	2.683596	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

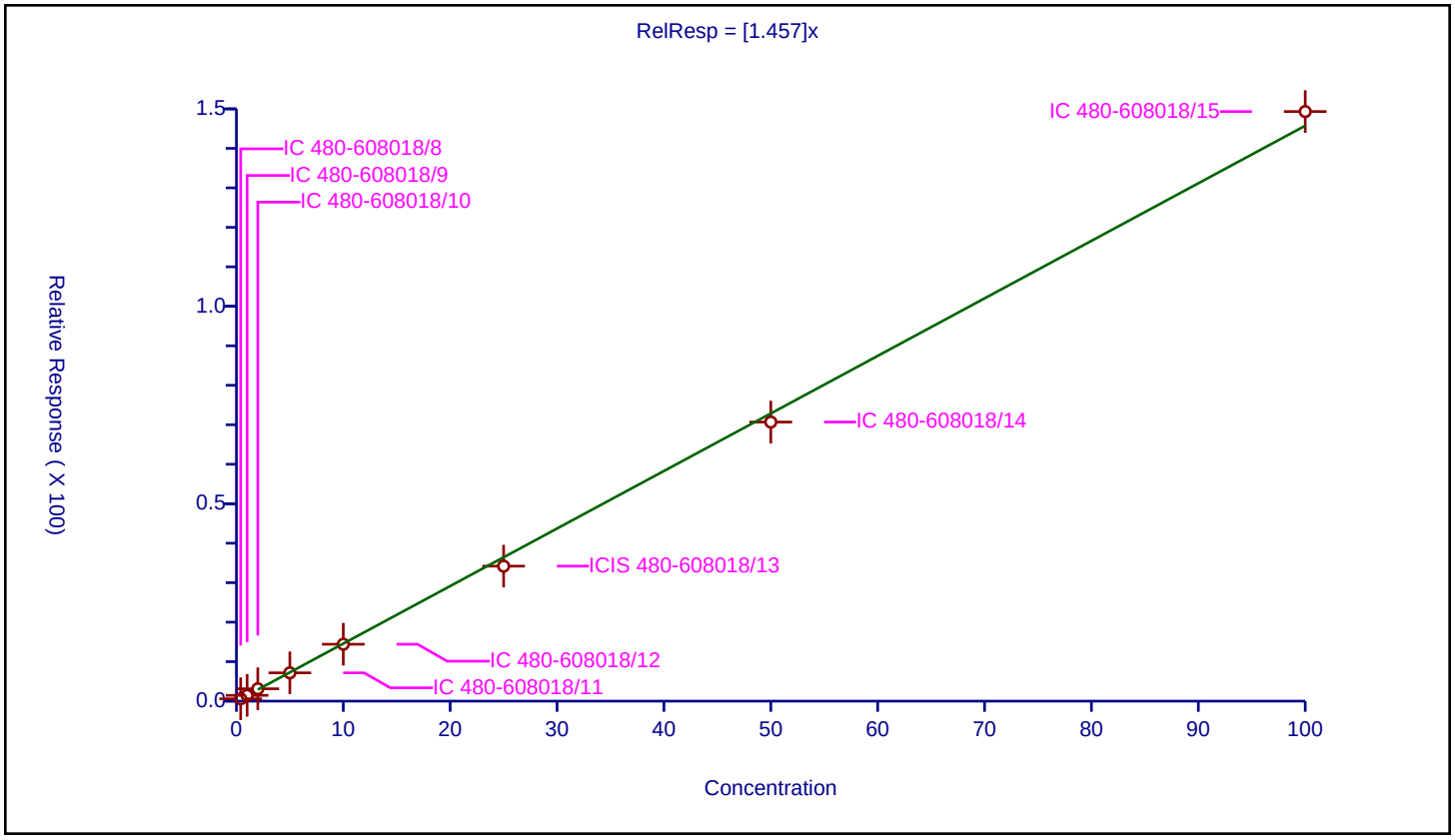
Curve Coefficients

Intercept:	0
Slope:	1.457

Error Coefficients

Standard Error:	969000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.590413	25.0	321724.0	1.476032	Y
2	IC 480-608018/9	1.0	1.466816	25.0	336784.0	1.466816	Y
3	IC 480-608018/10	2.0	3.131306	25.0	350844.0	1.565653	Y
4	IC 480-608018/11	5.0	7.169914	25.0	332769.0	1.433983	Y
5	IC 480-608018/12	10.0	14.412018	25.0	340648.0	1.441202	Y
6	ICIS 480-608018/13	25.0	34.192594	25.0	375982.0	1.367704	Y
7	IC 480-608018/14	50.0	70.685532	25.0	389092.0	1.413711	Y
8	IC 480-608018/15	100.0	149.326466	25.0	376113.0	1.493265	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

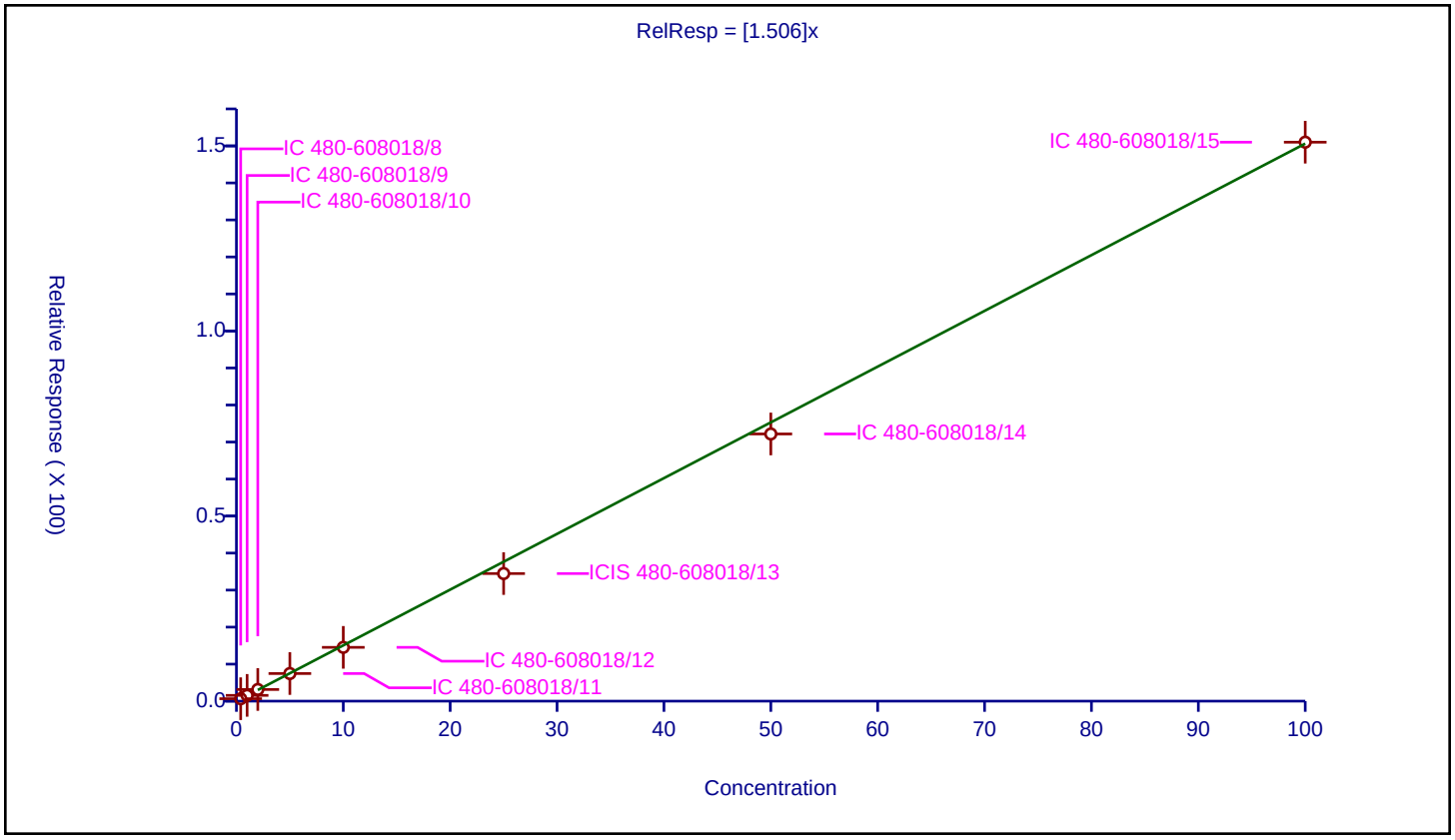
Curve Coefficients

Intercept:	0
Slope:	1.506

Error Coefficients

Standard Error:	981000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.655919	25.0	321724.0	1.639798	Y
2	IC 480-608018/9	1.0	1.559382	25.0	336784.0	1.559382	Y
3	IC 480-608018/10	2.0	3.14627	25.0	350844.0	1.573135	Y
4	IC 480-608018/11	5.0	7.458102	25.0	332769.0	1.49162	Y
5	IC 480-608018/12	10.0	14.528634	25.0	340648.0	1.452863	Y
6	ICIS 480-608018/13	25.0	34.46661	25.0	375982.0	1.378664	Y
7	IC 480-608018/14	50.0	72.182286	25.0	389092.0	1.443646	Y
8	IC 480-608018/15	100.0	151.007676	25.0	376113.0	1.510077	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

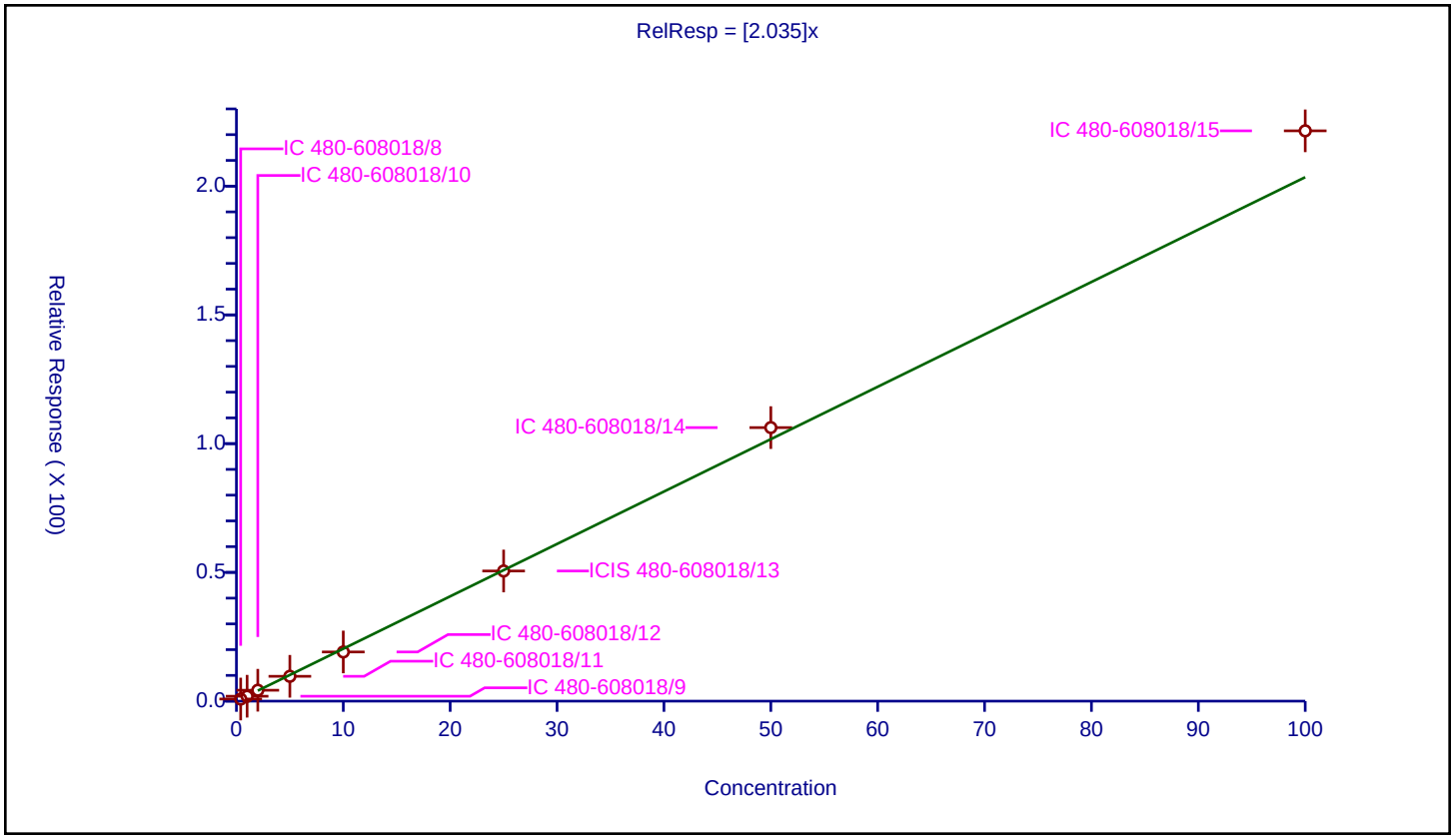
Curve Coefficients

Intercept:	0
Slope:	2.035

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.819957	25.0	321724.0	2.049894	Y
2	IC 480-608018/9	1.0	1.911388	25.0	336784.0	1.911388	Y
3	IC 480-608018/10	2.0	4.234076	25.0	350844.0	2.117038	Y
4	IC 480-608018/11	5.0	9.644153	25.0	332769.0	1.928831	Y
5	IC 480-608018/12	10.0	19.093903	25.0	340648.0	1.90939	Y
6	ICIS 480-608018/13	25.0	50.538124	25.0	375982.0	2.021525	Y
7	IC 480-608018/14	50.0	106.229118	25.0	389092.0	2.124582	Y
8	IC 480-608018/15	100.0	221.481576	25.0	376113.0	2.214816	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

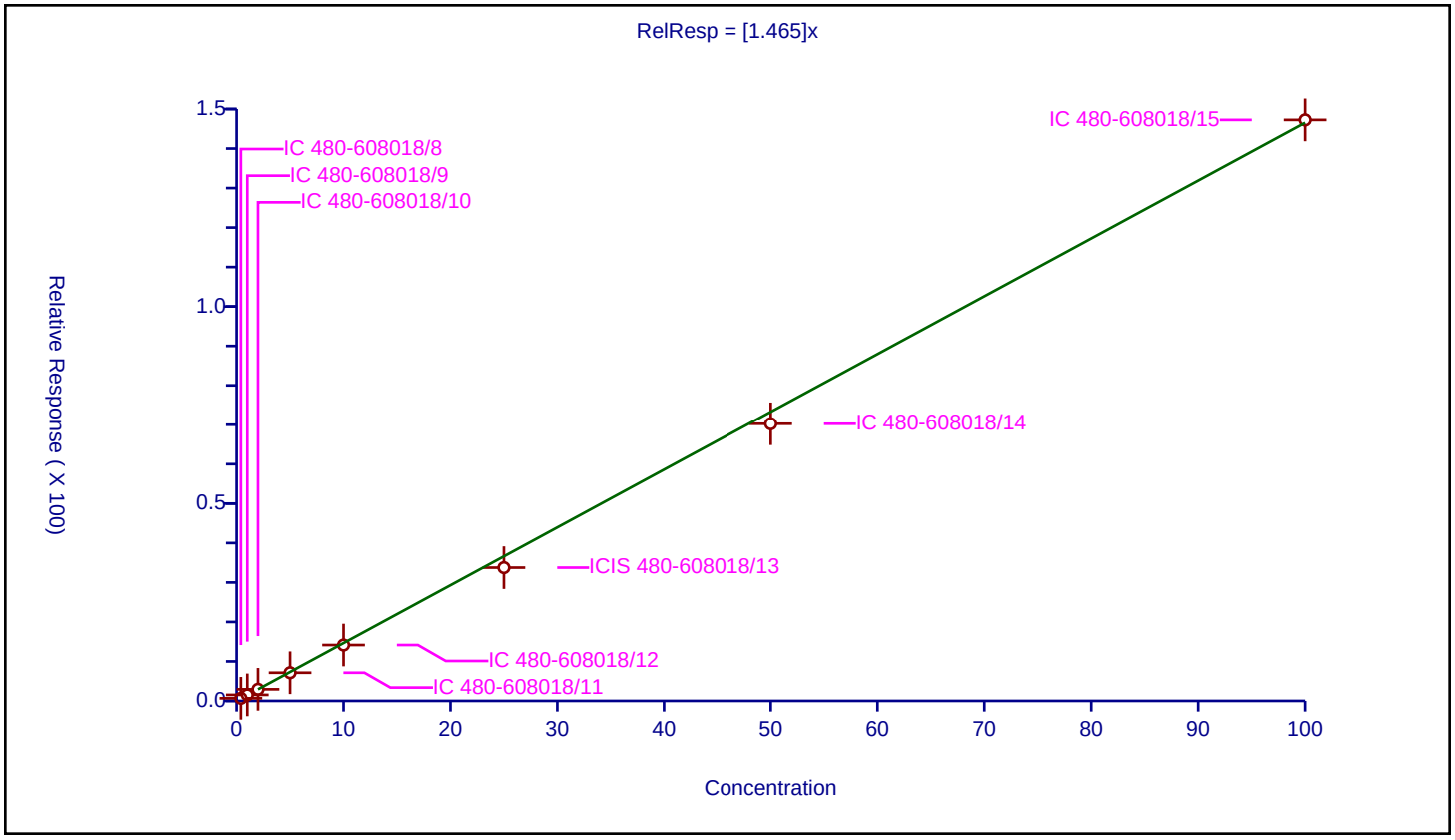
Curve Coefficients

Intercept:	0
Slope:	1.465

Error Coefficients

Standard Error:	957000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.663146	25.0	321724.0	1.657865	Y
2	IC 480-608018/9	1.0	1.527611	25.0	336784.0	1.527611	Y
3	IC 480-608018/10	2.0	2.935706	25.0	350844.0	1.467853	Y
4	IC 480-608018/11	5.0	7.132651	25.0	332769.0	1.42653	Y
5	IC 480-608018/12	10.0	14.155154	25.0	340648.0	1.415515	Y
6	ICIS 480-608018/13	25.0	33.767375	25.0	375982.0	1.350695	Y
7	IC 480-608018/14	50.0	70.247525	25.0	389092.0	1.404951	Y
8	IC 480-608018/15	100.0	147.25734	25.0	376113.0	1.472573	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

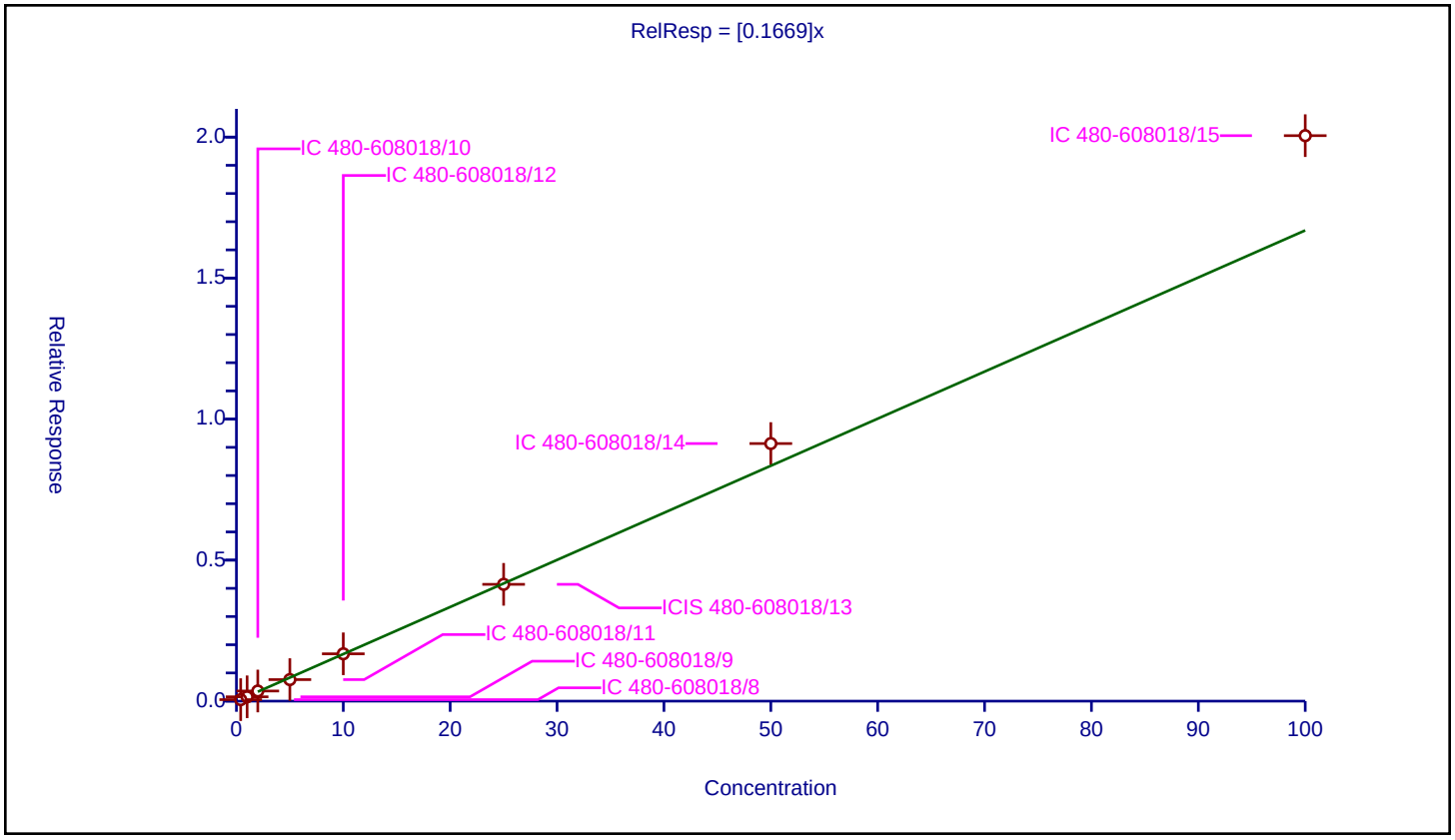
Curve Coefficients

Intercept:	0
Slope:	0.1669

Error Coefficients

Standard Error:	129000
Relative Standard Error:	12.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.053151	25.0	321724.0	0.132878	Y
2	IC 480-608018/9	1.0	0.153437	25.0	336784.0	0.153437	Y
3	IC 480-608018/10	2.0	0.358991	25.0	350844.0	0.179496	Y
4	IC 480-608018/11	5.0	0.763893	25.0	332769.0	0.152779	Y
5	IC 480-608018/12	10.0	1.678933	25.0	340648.0	0.167893	Y
6	ICIS 480-608018/13	25.0	4.141488	25.0	375982.0	0.16566	Y
7	IC 480-608018/14	50.0	9.133444	25.0	389092.0	0.182669	Y
8	IC 480-608018/15	100.0	20.050756	25.0	376113.0	0.200508	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

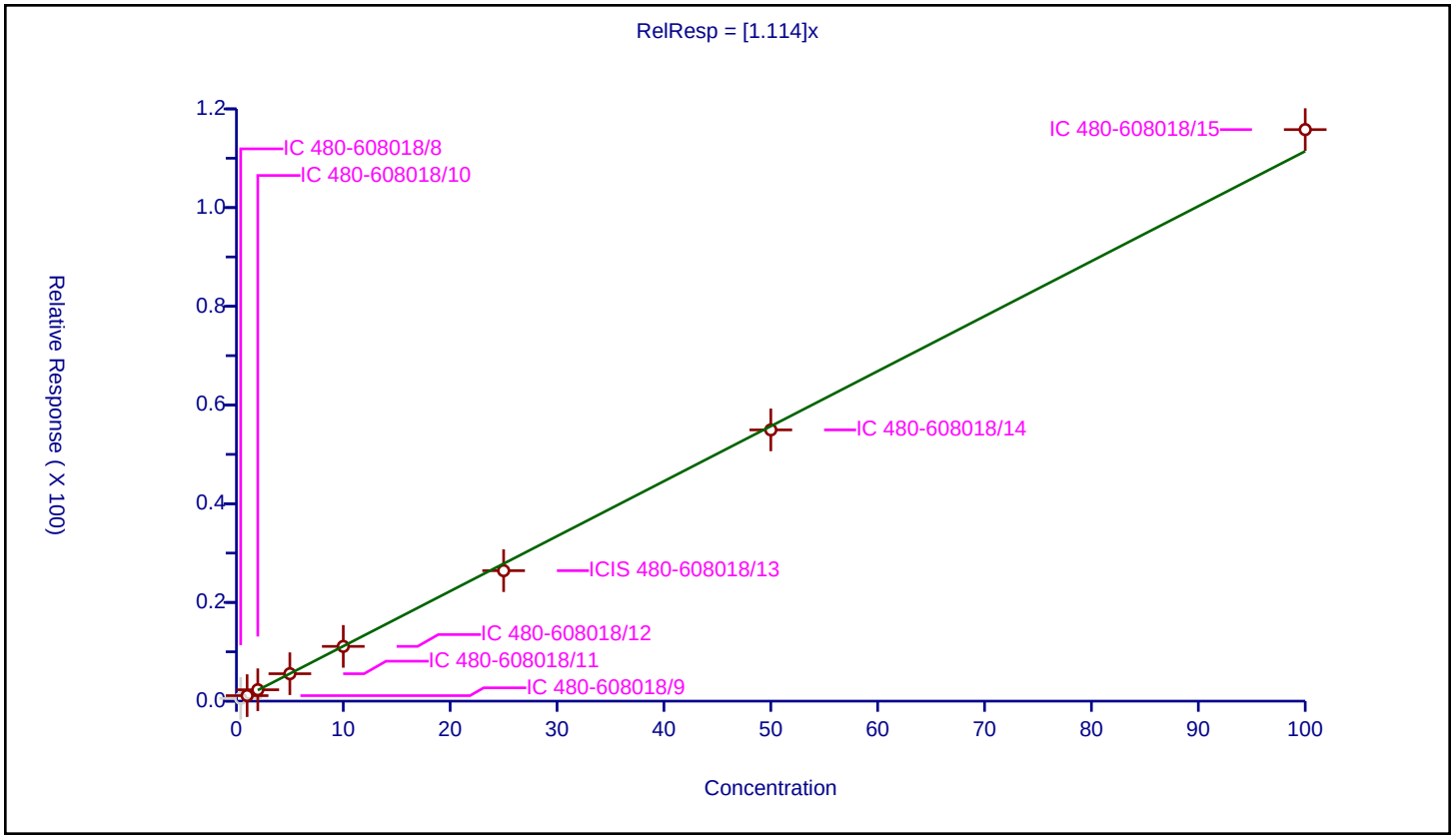
Curve Coefficients

Intercept:	0
Slope:	1.114

Error Coefficients

Standard Error:	812000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.556688	25.0	321724.0	1.391721	N
2	IC 480-608018/9	1.0	1.112211	25.0	336784.0	1.112211	Y
3	IC 480-608018/10	2.0	2.305013	25.0	350844.0	1.152507	Y
4	IC 480-608018/11	5.0	5.556031	25.0	332769.0	1.111206	Y
5	IC 480-608018/12	10.0	11.09026	25.0	340648.0	1.109026	Y
6	ICIS 480-608018/13	25.0	26.433446	25.0	375982.0	1.057338	Y
7	IC 480-608018/14	50.0	54.960459	25.0	389092.0	1.099209	Y
8	IC 480-608018/15	100.0	115.799706	25.0	376113.0	1.157997	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

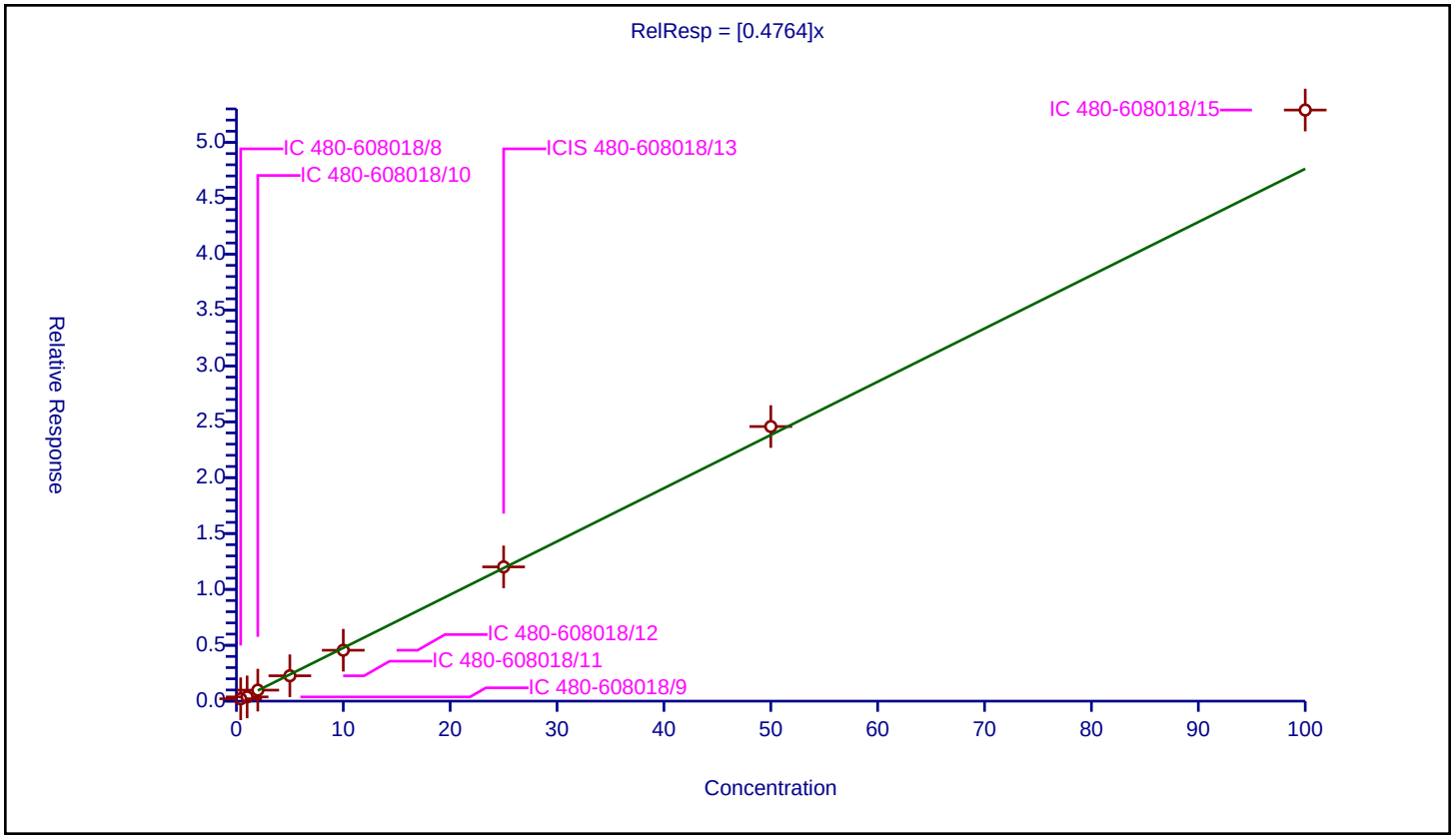
Curve Coefficients

Intercept:	0
Slope:	0.4764

Error Coefficients

Standard Error:	342000
Relative Standard Error:	10.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.211594	25.0	321724.0	0.528986	Y
2	IC 480-608018/9	1.0	0.378136	25.0	336784.0	0.378136	Y
3	IC 480-608018/10	2.0	0.98655	25.0	350844.0	0.493275	Y
4	IC 480-608018/11	5.0	2.269217	25.0	332769.0	0.453843	Y
5	IC 480-608018/12	10.0	4.556977	25.0	340648.0	0.455698	Y
6	ICIS 480-608018/13	25.0	12.013939	25.0	375982.0	0.480558	Y
7	IC 480-608018/14	50.0	24.574201	25.0	389092.0	0.491484	Y
8	IC 480-608018/15	100.0	52.898398	25.0	376113.0	0.528984	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

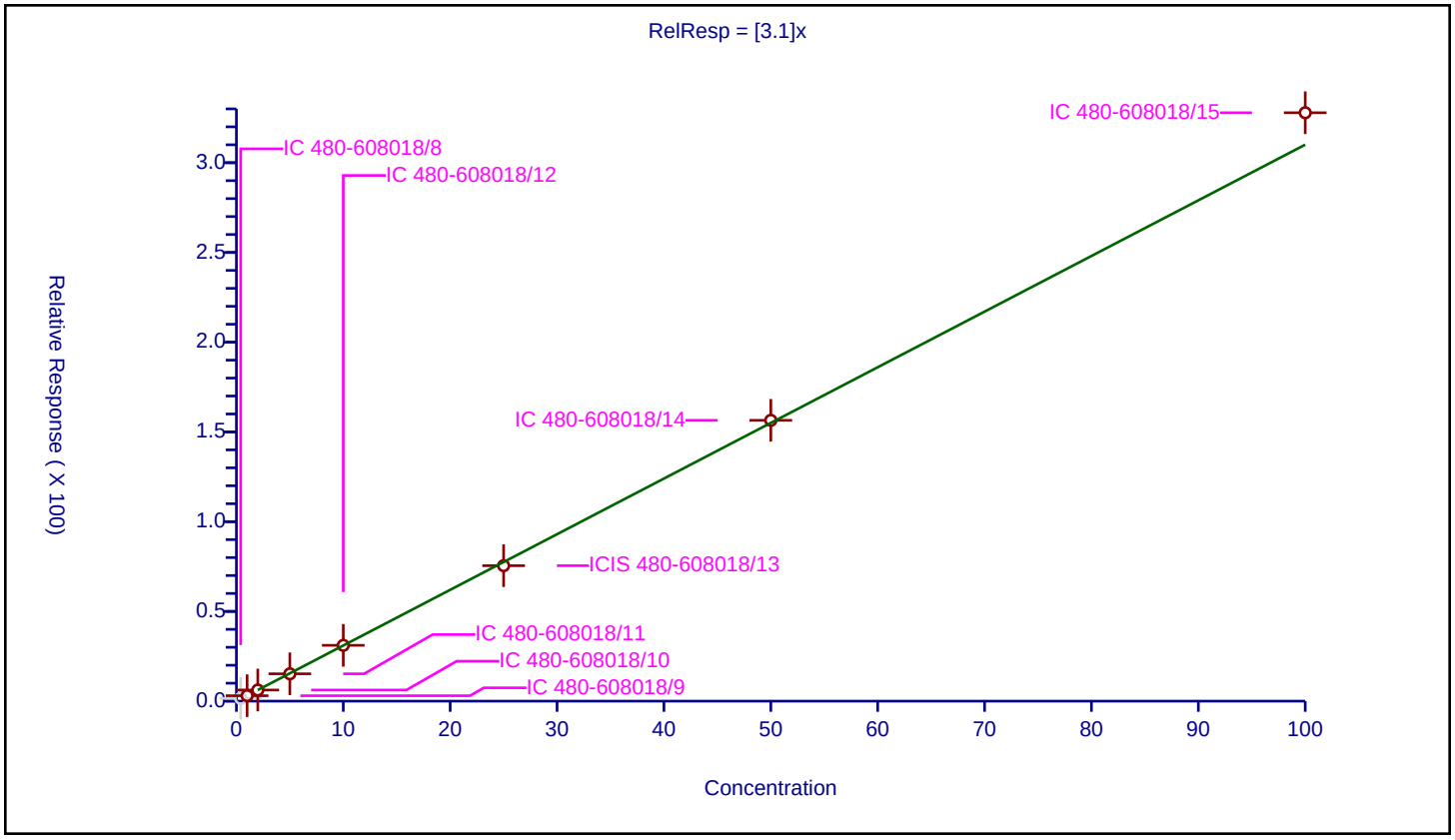
Curve Coefficients

Intercept:	0
Slope:	3.1

Error Coefficients

Standard Error:	2300000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	1.572155	25.0	321724.0	3.930388	N
2	IC 480-608018/9	1.0	3.019517	25.0	336784.0	3.019517	Y
3	IC 480-608018/10	2.0	6.200833	25.0	350844.0	3.100416	Y
4	IC 480-608018/11	5.0	15.233465	25.0	332769.0	3.046693	Y
5	IC 480-608018/12	10.0	31.100359	25.0	340648.0	3.110036	Y
6	ICIS 480-608018/13	25.0	75.470235	25.0	375982.0	3.018809	Y
7	IC 480-608018/14	50.0	156.469999	25.0	389092.0	3.1294	Y
8	IC 480-608018/15	100.0	327.84263	25.0	376113.0	3.278426	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

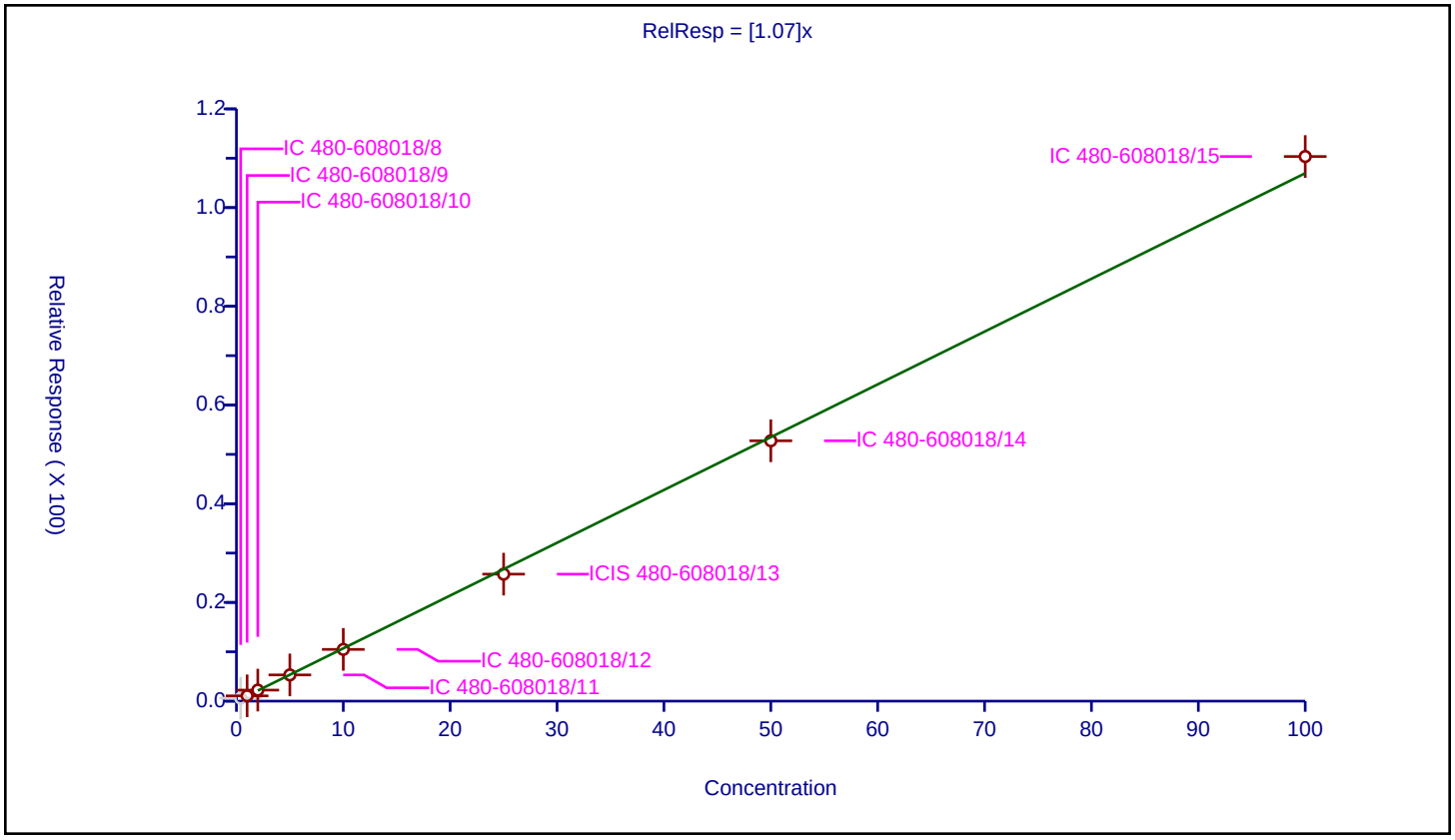
Curve Coefficients

Intercept:	0
Slope:	1.07

Error Coefficients

Standard Error:	775000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-608018/8	0.4	0.605876	25.0	321724.0	1.514691	N
2	IC 480-608018/9	1.0	1.071236	25.0	336784.0	1.071236	Y
3	IC 480-608018/10	2.0	2.235253	25.0	350844.0	1.117626	Y
4	IC 480-608018/11	5.0	5.311192	25.0	332769.0	1.062238	Y
5	IC 480-608018/12	10.0	10.482155	25.0	340648.0	1.048215	Y
6	ICIS 480-608018/13	25.0	25.733479	25.0	375982.0	1.029339	Y
7	IC 480-608018/14	50.0	52.754233	25.0	389092.0	1.055085	Y
8	IC 480-608018/15	100.0	110.349017	25.0	376113.0	1.10349	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Lab Sample ID: ICV 480-608018/29 Calibration Date: 12/08/2021 23:57

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16105.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		1.457	0.1000	25.4	25.0	1.6	50.0
Chloromethane	Ave	1.416	1.509	0.1000	26.6	25.0	6.6	30.0
Vinyl chloride	Ave	1.528	1.577	0.1000	25.8	25.0	3.2	30.0
Butadiene	Ave	1.359	1.291		23.8	25.0	-5.0	30.0
Bromomethane	Ave	1.559	1.659	0.1000	26.6	25.0	6.4	50.0
Chloroethane	Ave	1.224	1.223	0.1000	25.0	25.0	-0.0	50.0
Dichlorofluoromethane	Ave	2.500	2.421		24.2	25.0	-3.2	30.0
Trichlorofluoromethane	Lin1		2.309	0.1000	22.5	25.0	-10.2	30.0
Ethyl ether	Ave	1.213	1.158		23.9	25.0	-4.5	30.0
Acrolein	Ave	0.2348	0.2293		122	125	-2.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.144	1.269	0.1000	27.7	25.0	10.9	30.0
1,1-Dichloroethene	Ave	1.203	1.242	0.1000	25.8	25.0	3.2	30.0
Acetone	Ave	0.5449	0.5559	0.1000	128	125	2.0	50.0
Iodomethane	Ave	2.850	2.800		24.6	25.0	-1.8	30.0
Carbon disulfide	Ave	3.966	3.991	0.1000	25.2	25.0	0.6	30.0
Allyl chloride	Ave	1.767	1.658		23.5	25.0	-6.2	30.0
Methyl acetate	Ave	1.366	1.358	0.1000	49.7	50.0	-0.5	50.0
Methylene Chloride	Lin1		1.571	0.1000	23.7	25.0	-5.1	30.0
2-Methyl-2-propanol	Ave	0.2229	0.2300		258	250	3.2	50.0
Methyl tert-butyl ether	Ave	4.037	4.216	0.1000	26.1	25.0	4.4	30.0
trans-1,2-Dichloroethene	Ave	1.573	1.571	0.1000	25.0	25.0	-0.1	30.0
Acrylonitrile	Ave	0.7170	0.7194		251	250	0.3	30.0
Hexane	Ave	1.420	1.482		26.1	25.0	4.3	30.0
1,1-Dichloroethane	Ave	2.356	2.336	0.2000	24.8	25.0	-0.9	30.0
Vinyl acetate	Ave	2.760	2.859		51.8	50.0	3.6	30.0
2,2-Dichloropropane	Ave	1.573	1.460		23.2	25.0	-7.2	30.0
cis-1,2-Dichloroethene	Ave	1.722	1.730	0.1000	25.1	25.0	0.5	30.0
2-Butanone (MEK)	Ave	0.8547	0.9093	0.1000	133	125	6.4	30.0
Chlorobromomethane	Ave	1.000	1.040		26.0	25.0	4.0	30.0
Tetrahydrofuran	Ave	0.5683	0.6044		53.2	50.0	6.3	30.0
Chloroform	Ave	2.837	2.748	0.2000	24.2	25.0	-3.1	30.0
1,1,1-Trichloroethane	Ave	2.244	2.363	0.1000	26.3	25.0	5.3	30.0
Cyclohexane	Ave	1.612	1.802	0.1000	27.9	25.0	11.8	30.0
1,1-Dichloropropene	Ave	1.723	1.827		26.5	25.0	6.0	30.0
Carbon tetrachloride	Ave	1.984	2.118	0.1000	26.7	25.0	6.8	30.0
Isobutyl alcohol	Ave	0.0881	0.0938		665	625	6.4	50.0
Benzene	Ave	5.426	5.432	0.5000	25.0	25.0	0.1	30.0
1,2-Dichloroethane	Ave	2.052	2.053	0.1000	25.0	25.0	0.0	30.0
n-Heptane	Ave	1.371	1.360		24.8	25.0	-0.8	30.0
Trichloroethene	Ave	1.529	1.564	0.2000	25.6	25.0	2.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Lab Sample ID: ICV 480-608018/29 Calibration Date: 12/08/2021 23:57

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16105.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.022	2.217	0.1000	27.4	25.0	9.6	30.0
1,2-Dichloropropane	Ave	1.201	1.275	0.1000	26.5	25.0	6.1	30.0
1,4-Dioxane	Ave	0.0036	0.0033		461	500	-7.8	50.0
Dibromomethane	Ave	1.093	1.130	0.1000	25.9	25.0	3.4	30.0
Bromodichloromethane	Ave	1.903	1.996	0.2000	26.2	25.0	4.8	30.0
2-Chloroethyl vinyl ether	Ave	0.8953	0.9949		27.8	25.0	11.1	30.0
cis-1,3-Dichloropropene	Ave	2.092	2.221	0.2000	26.5	25.0	6.2	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3628	0.3795	0.1000	131	125	4.6	30.0
Toluene	Ave	0.7803	0.7562	0.4000	24.2	25.0	-3.1	30.0
Ethyl methacrylate	Ave	0.3630	0.4082		28.1	25.0	12.4	30.0
trans-1,3-Dichloropropene	Ave	0.4247	0.4494	0.1000	26.5	25.0	5.8	30.0
1,1,2-Trichloroethane	Ave	0.2391	0.2410	0.1000	25.2	25.0	0.8	30.0
Tetrachloroethene	Ave	0.3890	0.3969	0.2000	25.5	25.0	2.0	30.0
1,3-Dichloropropane	Ave	0.4885	0.4807		24.6	25.0	-1.6	30.0
2-Hexanone	Ave	0.2479	0.2653	0.1000	134	125	7.0	30.0
Dibromochloromethane	Ave	0.3480	0.3741	0.1000	26.9	25.0	7.5	30.0
1,2-Dibromoethane	Ave	0.3503	0.3572		25.5	25.0	2.0	30.0
Chlorobenzene	Ave	0.9459	0.9310	0.5000	24.6	25.0	-1.6	30.0
Ethylbenzene	Ave	1.429	1.411	0.1000	24.7	25.0	-1.3	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3526	0.3732		26.5	25.0	5.8	30.0
m,p-Xylene	Ave	0.5871	0.5799	0.1000	24.7	25.0	-1.2	30.0
o-Xylene	Ave	0.5890	0.5961	0.3000	25.3	25.0	1.2	30.0
Styrene	Ave	0.9511	0.9906	0.3000	26.0	25.0	4.2	30.0
Bromoform	Ave	0.2646	0.2928	0.1000	27.7	25.0	10.7	50.0
Isopropylbenzene	Ave	2.492	2.480	0.1000	24.9	25.0	-0.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7832	0.7670	0.3000	24.5	25.0	-2.1	30.0
Bromobenzene	Ave	0.7658	0.7523		24.6	25.0	-1.8	30.0
N-Propylbenzene	Ave	2.783	2.742		24.6	25.0	-1.5	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1987	0.2005		25.2	25.0	0.9	50.0
1,2,3-Trichloropropane	Ave	0.2896	0.2917		25.2	25.0	0.7	30.0
2-Chlorotoluene	Ave	0.6581	0.6535		24.8	25.0	-0.7	30.0
1,3,5-Trimethylbenzene	Ave	2.150	2.127		24.7	25.0	-1.1	30.0
4-Chlorotoluene	Ave	1.747	1.688		24.1	25.0	-3.4	30.0
tert-Butylbenzene	Ave	0.5086	0.5210		25.6	25.0	2.5	30.0
1,2,4-Trimethylbenzene	Ave	2.203	2.187		24.8	25.0	-0.7	30.0
sec-Butylbenzene	Ave	2.622	2.665		25.4	25.0	1.7	30.0
4-Isopropyltoluene	Ave	2.431	2.453		25.2	25.0	0.9	30.0
1,3-Dichlorobenzene	Ave	1.457	1.412	0.6000	24.2	25.0	-3.1	30.0
1,4-Dichlorobenzene	Ave	1.506	1.428	0.5000	23.7	25.0	-5.2	30.0
n-Butylbenzene	Ave	2.035	1.991		24.5	25.0	-2.2	30.0
1,2-Dichlorobenzene	Ave	1.465	1.406	0.4000	24.0	25.0	-4.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Lab Sample ID: ICV 480-608018/29 Calibration Date: 12/08/2021 23:57

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16105.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1669	0.1791	0.0500	26.8	25.0	7.3	50.0
1,2,4-Trichlorobenzene	Ave	1.114	1.085	0.2000	24.4	25.0	-2.6	30.0
Hexachlorobutadiene	Ave	0.4764	0.4607		24.2	25.0	-3.3	30.0
Naphthalene	Ave	3.100	3.148		25.4	25.0	1.5	30.0
1,2,3-Trichlorobenzene	Ave	1.070	1.049		24.5	25.0	-1.9	30.0
Dibromofluoromethane (Surr)	Ave	1.725	1.773		25.7	25.0	2.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.746	1.745		25.0	25.0	-0.0	30.0
Toluene-d8 (Surr)	Ave	1.207	1.204		24.9	25.0	-0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4611	0.4699		25.5	25.0	1.9	30.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16105.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Dec-2021 23:57:03 ALS Bottle#: 0 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 480-0102927-029
Operator ID: wd Instrument ID: HP5977L
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 16:00:18 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: HillL Date: 09-Dec-2021 15:52:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.351	6.350	0.001	99	125904	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	606530	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	92	372576	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.785	-0.004	94	223284	25.0	25.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.097	6.096	0.001	97	219754	25.0	25.0	
$ 6 Toluene-d8 (Surr)	98	7.807	7.810	-0.003	92	730189	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	92	284980	25.0	25.5	
10 Dichlorodifluoromethane	85	2.084	2.090	-0.006	99	183420	25.0	25.4	
13 Chloromethane	50	2.344	2.347	-0.003	99	189973	25.0	26.6	
14 Vinyl chloride	62	2.473	2.476	-0.003	98	198499	25.0	25.8	
15 Butadiene	54	2.492	2.492	0.000	92	162575	25.0	23.8	
18 Bromomethane	94	2.875	2.878	-0.003	93	208842	25.0	26.6	
19 Chloroethane	64	2.955	2.955	0.000	100	154016	25.0	25.0	
21 Trichlorofluoromethane	101	3.187	3.183	0.004	71	290720	25.0	22.5	
20 Dichlorofluoromethane	67	3.187	3.187	0.000	96	304807	25.0	24.2	
26 Ethyl ether	59	3.476	3.479	-0.003	88	145835	25.0	23.9	
28 Acrolein	56	3.679	3.678	0.001	99	144364	125.0	122.1	
29 112TCTFE	101	3.695	3.704	-0.009	89	159809	25.0	27.7	
30 1,1-Dichloroethene	96	3.727	3.730	-0.003	96	156343	25.0	25.8	
31 Acetone	43	3.823	3.826	-0.003	100	349953	125.0	127.5	
33 Iodomethane	142	3.913	3.913	0.000	100	352579	25.0	24.6	
35 Carbon disulfide	76	3.965	3.965	0.000	99	502481	25.0	25.2	
37 3-Chloro-1-propene	41	4.084	4.080	0.004	87	208749	25.0	23.5	
38 Methyl acetate	43	4.097	4.100	-0.003	96	342028	50.0	49.7	
39 Methylene Chloride	84	4.219	4.222	-0.003	86	197825	25.0	23.7	
40 2-Methyl-2-propanol	59	4.315	4.318	-0.003	97	289585	250.0	258.0	M
41 Methyl tert-butyl ether	73	4.399	4.399	0.000	94	530788	25.0	26.1	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	93	197828	25.0	25.0	
44 Acrylonitrile	53	4.476	4.479	-0.003	98	905788	250.0	250.9	
47 Hexane	57	4.598	4.598	0.000	91	186574	25.0	26.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.836	4.836	0.000	96	294146	25.0	24.8	
49 Vinyl acetate	43	4.836	4.836	0.000	97	719853	50.0	51.8	
56 2,2-Dichloropropane	77	5.328	5.331	-0.003	90	183836	25.0	23.2	
57 2-Butanone (MEK)	43	5.357	5.357	0.000	99	572443	125.0	133.0	
58 cis-1,2-Dichloroethene	96	5.354	5.357	-0.003	81	217788	25.0	25.1	
60 Chlorobromomethane	128	5.585	5.585	0.000	82	130923	25.0	26.0	
61 Tetrahydrofuran	42	5.598	5.601	-0.003	83	152193	50.0	53.2	
62 Chloroform	83	5.630	5.630	0.000	94	346000	25.0	24.2	
64 1,1,1-Trichloroethane	97	5.769	5.772	-0.003	97	297518	25.0	26.3	
65 Cyclohexane	56	5.788	5.791	-0.003	84	226934	25.0	27.9	
66 Carbon tetrachloride	117	5.907	5.907	0.000	95	266631	25.0	26.7	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	95	229985	25.0	26.5	
69 Isobutyl alcohol	43	6.010	6.010	0.000	92	295165	625.0	665.2	
70 Benzene	78	6.113	6.113	0.001	97	683898	25.0	25.0	
72 1,2-Dichloroethane	62	6.164	6.167	-0.003	98	258458	25.0	25.0	
73 n-Heptane	43	6.209	6.209	0.000	87	171260	25.0	24.8	
75 Trichloroethene	95	6.675	6.678	-0.003	94	196976	25.0	25.6	
76 Methylcyclohexane	83	6.807	6.807	0.000	85	279074	25.0	27.4	
77 1,2-Dichloropropane	63	6.920	6.920	0.000	94	160471	25.0	26.5	
81 1,4-Dioxane	88	7.032	7.029	0.003	89	40119	500.0	461.0	
82 Dibromomethane	93	7.061	7.064	-0.003	90	142309	25.0	25.9	
83 Dichlorobromomethane	83	7.180	7.180	0.000	99	251278	25.0	26.2	
84 2-Chloroethyl vinyl ether	63	7.402	7.402	0.000	94	125268	25.0	27.8	
85 cis-1,3-Dichloropropene	75	7.576	7.579	-0.003	95	279591	25.0	26.5	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.685	0.000	97	1150994	125.0	130.8	
88 Toluene	92	7.875	7.875	0.000	98	458631	25.0	24.2	
90 Ethyl methacrylate	69	8.109	8.109	0.000	87	247560	25.0	28.1	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	95	272580	25.0	26.5	
93 1,1,2-Trichloroethane	83	8.322	8.321	0.001	90	146175	25.0	25.2	
94 Tetrachloroethene	166	8.412	8.411	0.001	97	240742	25.0	25.5	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	97	291554	25.0	24.6	
96 2-Hexanone	43	8.505	8.505	0.000	94	804501	125.0	133.8	
98 Chlorodibromomethane	129	8.743	8.743	0.000	88	226893	25.0	26.9	
101 Ethylene Dibromide	107	8.875	8.875	0.001	98	216645	25.0	25.5	
103 Chlorobenzene	112	9.331	9.331	0.000	98	564672	25.0	24.6	
104 Ethylbenzene	91	9.392	9.392	0.000	97	855674	25.0	24.7	
105 1,1,1,2-Tetrachloroethane	131	9.412	9.411	0.001	95	226341	25.0	26.5	
106 m-Xylene & p-Xylene	106	9.505	9.508	-0.003	98	351723	25.0	24.7	
107 o-Xylene	106	9.949	9.945	0.004	95	361579	25.0	25.3	
109 Styrene	104	9.971	9.971	0.000	95	600848	25.0	26.0	
110 Bromoform	173	10.251	10.251	0.000	97	177588	25.0	27.7	
111 Isopropylbenzene	105	10.302	10.302	0.000	95	923807	25.0	24.9	
112 1,1,2,2-Tetrachloroethane	83	10.682	10.682	0.000	97	285762	25.0	24.5	
113 Bromobenzene	156	10.688	10.688	0.000	91	280279	25.0	24.6	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	1021439	25.0	24.6	
115 trans-1,4-Dichloro-2-butene	53	10.723	10.727	-0.004	76	74713	25.0	25.2	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	84	108681	25.0	25.2	
117 2-Chlorotoluene	126	10.846	10.846	0.000	98	243493	25.0	24.8	
118 1,3,5-Trimethylbenzene	105	10.875	10.874	0.001	95	792427	25.0	24.7	
119 4-Chlorotoluene	91	10.949	10.948	0.001	96	628811	25.0	24.1	
120 tert-Butylbenzene	134	11.190	11.190	0.000	90	194130	25.0	25.6	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	814925	25.0	24.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.389	11.389	0.000	93	992908	25.0	25.4	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	96	913777	25.0	25.2	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	98	525896	25.0	24.2	
126 1,4-Dichlorobenzene	146	11.633	11.636	-0.003	96	532059	25.0	23.7	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	741698	25.0	24.5	
128 1,2-Dichlorobenzene	146	11.977	11.977	0.000	99	523866	25.0	24.0	
129 1,2-Dibromo-3-Chloropropane	75	12.656	12.656	0.000	95	66743	25.0	26.8	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	94	404338	25.0	24.4	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	98	171653	25.0	24.2	
132 Naphthalene	128	13.556	13.559	-0.003	96	1172838	25.0	25.4	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	390797	25.0	24.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SS 8260 CORP_00097	Amount Added:	12.50	Units: uL	
SS GAS CORP_00435	Amount Added:	12.50	Units: uL	
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Dec-2021 16:06:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16105.D

Injection Date: 08-Dec-2021 23:57:03 Instrument ID: HP5977L

Lims ID: ICV

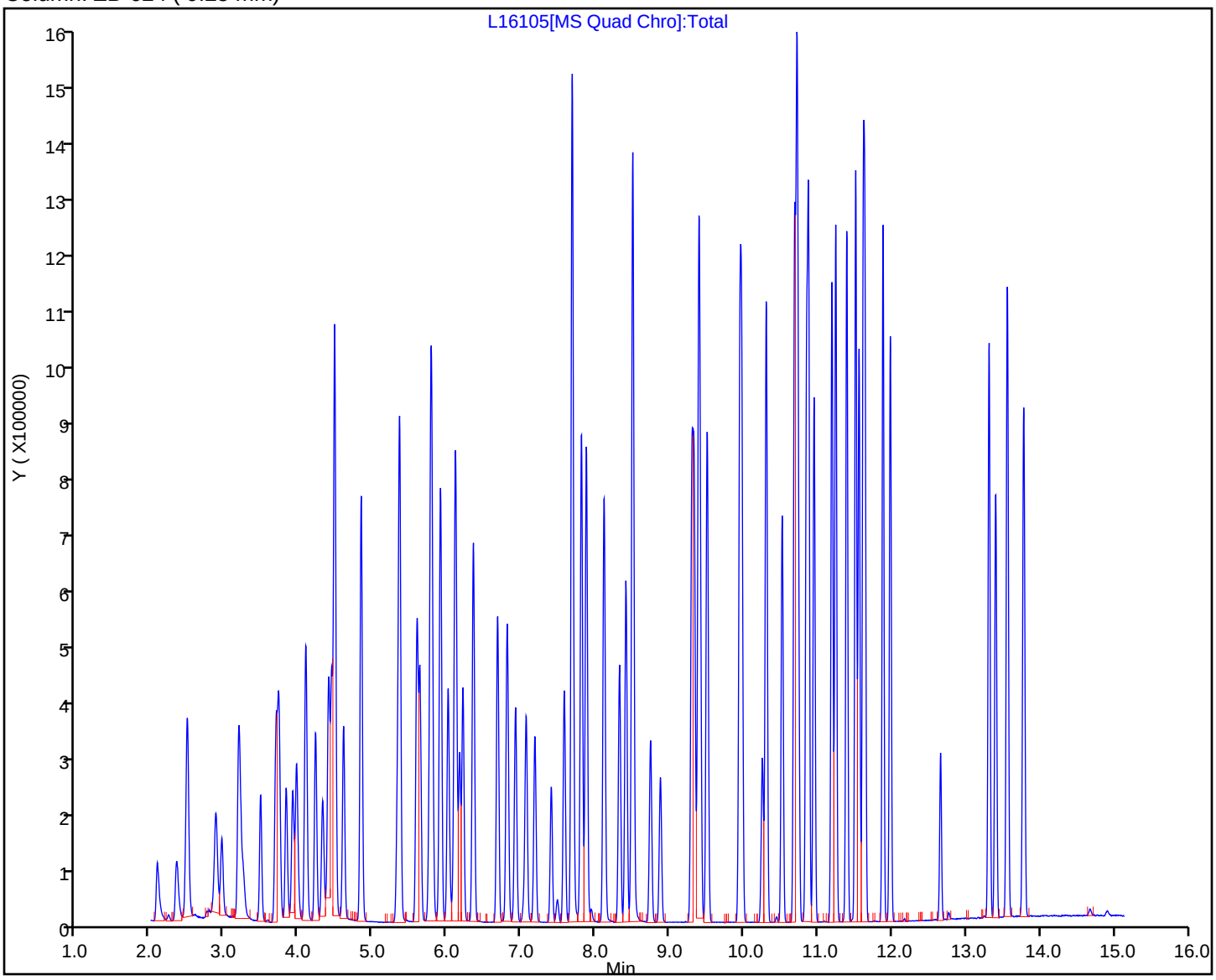
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 29

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

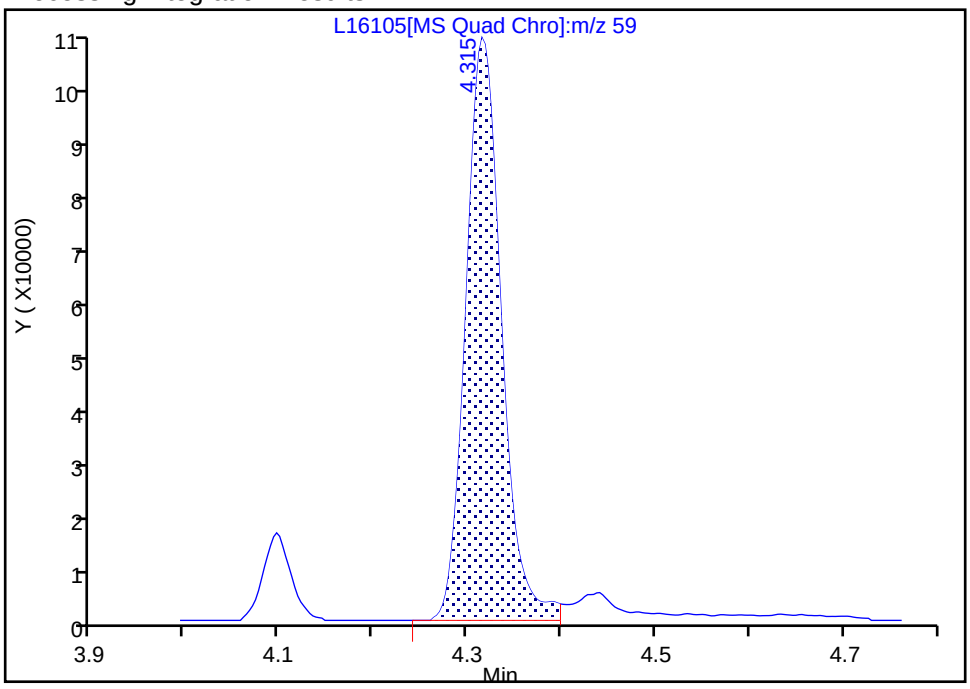
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16105.D
Injection Date: 08-Dec-2021 23:57:03 Instrument ID: HP5977L
Lims ID: ICV
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

40 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

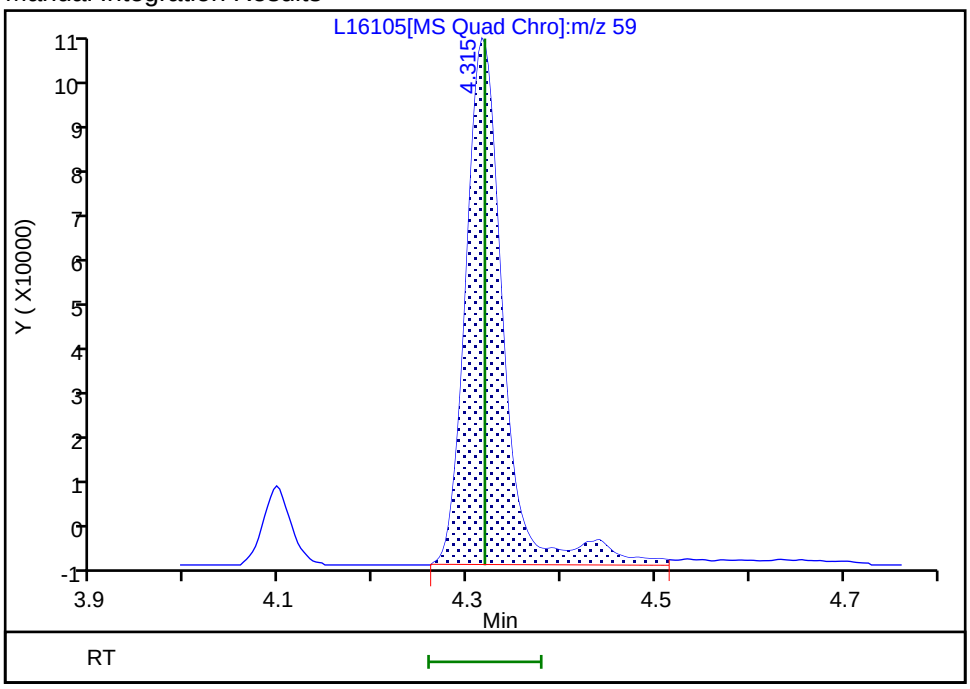
Processing Integration Results

RT: 4.32
Area: 272455
Amount: 242.6987
Amount Units: ug/L



Manual Integration Results

RT: 4.32
Area: 289585
Amount: 257.9578
Amount Units: ug/L



Reviewer: HillL, 09-Dec-2021 15:51:54
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Lab Sample ID: CCVIS 480-608629/4 Calibration Date: 12/13/2021 22:02

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16203.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		1.567	0.1000	27.3	25.0	9.1	50.0
Chloromethane	Ave	1.416	1.388	0.1000	24.5	25.0	-2.0	20.0
Vinyl chloride	Ave	1.528	1.591	0.1000	26.0	25.0	4.2	20.0
Butadiene	Ave	1.359	1.479		27.2	25.0	8.9	20.0
Bromomethane	Ave	1.559	1.605	0.1000	25.7	25.0	3.0	50.0
Chloroethane	Ave	1.224	1.192	0.1000	24.4	25.0	-2.6	50.0
Trichlorofluoromethane	Lin1		2.431	0.1000	23.6	25.0	-5.6	20.0
Dichlorofluoromethane	Ave	2.500	2.370		23.7	25.0	-5.2	20.0
Ethyl ether	Ave	1.213	1.061		21.9	25.0	-12.5	20.0
Acrolein	Ave	0.2348	0.2195		117	125	-6.5	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.144	1.248	0.1000	27.3	25.0	9.1	20.0
1,1-Dichloroethene	Ave	1.203	1.177	0.1000	24.5	25.0	-2.2	20.0
Acetone	Ave	0.5449	0.5739	0.1000	132	125	5.3	50.0
Iodomethane	Ave	2.850	2.465		21.6	25.0	-13.5	20.0
Carbon disulfide	Ave	3.966	3.794	0.1000	23.9	25.0	-4.3	20.0
Allyl chloride	Ave	1.767	1.555		22.0	25.0	-12.0	20.0
Methyl acetate	Ave	1.366	1.294	0.1000	47.4	50.0	-5.2	50.0
Methylene Chloride	Lin1		1.443	0.1000	21.6	25.0	-13.6	20.0
2-Methyl-2-propanol	Ave	0.2229	0.2330		261	250	4.5	50.0
Methyl tert-butyl ether	Ave	4.037	3.927	0.1000	24.3	25.0	-2.7	20.0
trans-1,2-Dichloroethene	Ave	1.573	1.448	0.1000	23.0	25.0	-8.0	20.0
Acrylonitrile	Ave	0.7170	0.6924		241	250	-3.4	20.0
Hexane	Ave	1.420	1.503		26.4	25.0	5.8	20.0
1,1-Dichloroethane	Ave	2.356	2.223	0.2000	23.6	25.0	-5.7	20.0
Vinyl acetate	Ave	2.760	2.765		50.1	50.0	0.2	20.0
2,2-Dichloropropane	Ave	1.573	1.485		23.6	25.0	-5.5	20.0
2-Butanone (MEK)	Ave	0.8547	0.9016	0.1000	132	125	5.5	20.0
cis-1,2-Dichloroethene	Ave	1.722	1.641	0.1000	23.8	25.0	-4.7	20.0
Chlorobromomethane	Ave	1.000	0.9556		23.9	25.0	-4.4	20.0
Tetrahydrofuran	Ave	0.5683	0.5823		51.2	50.0	2.5	20.0
Chloroform	Ave	2.837	2.556	0.2000	22.5	25.0	-9.9	20.0
1,1,1-Trichloroethane	Ave	2.244	2.211	0.1000	24.6	25.0	-1.5	20.0
Cyclohexane	Ave	1.612	1.823	0.1000	28.3	25.0	13.1	20.0
1,1-Dichloropropene	Ave	1.723	1.815		26.3	25.0	5.4	20.0
Carbon tetrachloride	Ave	1.984	2.017	0.1000	25.4	25.0	1.7	20.0
Isobutyl alcohol	Ave	0.0881	0.0978		694	625	11.0	50.0
Benzene	Ave	5.426	5.318	0.5000	24.5	25.0	-2.0	20.0
1,2-Dichloroethane	Ave	2.052	1.914	0.1000	23.3	25.0	-6.7	20.0
n-Heptane	Ave	1.371	1.360		24.8	25.0	-0.8	20.0
Trichloroethene	Ave	1.529	1.481	0.2000	24.2	25.0	-3.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Lab Sample ID: CCVIS 480-608629/4 Calibration Date: 12/13/2021 22:02

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16203.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.022	2.186	0.1000	27.0	25.0	8.1	20.0
1,2-Dichloropropane	Ave	1.201	1.232	0.1000	25.6	25.0	2.6	20.0
1,4-Dioxane	Ave	0.0036	0.0035		489	500	-2.2	50.0
Dibromomethane	Ave	1.093	1.059	0.1000	24.2	25.0	-3.1	20.0
Bromodichloromethane	Ave	1.903	1.900	0.2000	25.0	25.0	-0.2	20.0
2-Chloroethyl vinyl ether	Ave	0.8953	0.9616		26.8	25.0	7.4	20.0
cis-1,3-Dichloropropene	Ave	2.092	2.141	0.2000	25.6	25.0	2.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3628	0.3424	0.1000	118	125	-5.6	20.0
Toluene	Ave	0.7803	0.6935	0.4000	22.2	25.0	-11.1	20.0
Ethyl methacrylate	Ave	0.3630	0.3813		26.3	25.0	5.0	20.0
trans-1,3-Dichloropropene	Ave	0.4247	0.4128	0.1000	24.3	25.0	-2.8	20.0
1,1,2-Trichloroethane	Ave	0.2391	0.2245	0.1000	23.5	25.0	-6.1	20.0
Tetrachloroethene	Ave	0.3890	0.3552	0.2000	22.8	25.0	-8.7	20.0
1,3-Dichloropropane	Ave	0.4885	0.4544		23.3	25.0	-7.0	20.0
2-Hexanone	Ave	0.2479	0.2455	0.1000	124	125	-1.0	20.0
Dibromochloromethane	Ave	0.3480	0.3299	0.1000	23.7	25.0	-5.2	20.0
1,2-Dibromoethane	Ave	0.3503	0.3238		23.1	25.0	-7.6	20.0
Chlorobenzene	Ave	0.9459	0.8404	0.5000	22.2	25.0	-11.2	20.0
Ethylbenzene	Ave	1.429	1.296	0.1000	22.7	25.0	-9.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3526	0.3206		22.7	25.0	-9.1	20.0
m,p-Xylene	Ave	0.5871	0.5300	0.1000	22.6	25.0	-9.7	20.0
o-Xylene	Ave	0.5890	0.5190	0.3000	22.0	25.0	-11.9	20.0
Styrene	Ave	0.9511	0.8806	0.3000	23.1	25.0	-7.4	20.0
Bromoform	Ave	0.2646	0.2428	0.1000	22.9	25.0	-8.2	50.0
Isopropylbenzene	Ave	2.492	2.308	0.1000	23.2	25.0	-7.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7832	0.7418	0.3000	23.7	25.0	-5.3	20.0
Bromobenzene	Ave	0.7658	0.6660		21.7	25.0	-13.0	20.0
N-Propylbenzene	Ave	2.783	2.628		23.6	25.0	-5.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1987	0.1827		23.0	25.0	-8.1	50.0
1,2,3-Trichloropropane	Ave	0.2896	0.2729		23.6	25.0	-5.8	20.0
2-Chlorotoluene	Ave	0.6581	0.5898		22.4	25.0	-10.4	20.0
1,3,5-Trimethylbenzene	Ave	2.150	1.956		22.8	25.0	-9.0	20.0
4-Chlorotoluene	Ave	1.747	1.593		22.8	25.0	-8.8	20.0
tert-Butylbenzene	Ave	0.5086	0.4554		22.4	25.0	-10.5	20.0
1,2,4-Trimethylbenzene	Ave	2.203	2.009		22.8	25.0	-8.8	20.0
sec-Butylbenzene	Ave	2.622	2.508		23.9	25.0	-4.3	20.0
4-Isopropyltoluene	Ave	2.431	2.251		23.1	25.0	-7.4	20.0
1,3-Dichlorobenzene	Ave	1.457	1.272	0.6000	21.8	25.0	-12.7	20.0
1,4-Dichlorobenzene	Ave	1.506	1.281	0.5000	21.3	25.0	-14.9	20.0
n-Butylbenzene	Ave	2.035	1.898		23.3	25.0	-6.7	20.0
1,2-Dichlorobenzene	Ave	1.465	1.251	0.4000	21.3	25.0	-14.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Lab Sample ID: CCVIS 480-608629/4 Calibration Date: 12/13/2021 22:02

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16203.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1669	0.1608	0.0500	24.1	25.0	-3.6	50.0
1,2,4-Trichlorobenzene	Ave	1.114	0.9287	0.2000	20.8	25.0	-16.6	20.0
Hexachlorobutadiene	Ave	0.4764	0.3963		20.8	25.0	-16.8	20.0
Naphthalene	Ave	3.100	2.777		22.4	25.0	-10.4	20.0
1,2,3-Trichlorobenzene	Ave	1.070	0.9015		21.1	25.0	-15.7	20.0
Dibromofluoromethane (Surr)	Ave	1.725	1.815		26.3	25.0	5.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.746	1.848		26.5	25.0	5.8	20.0
Toluene-d8 (Surr)	Ave	1.207	1.245		25.8	25.0	3.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4611	0.4674		25.3	25.0	1.4	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16203.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 13-Dec-2021 22:02:19 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0103021-004
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Dec-2021 09:10:34 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1673

First Level Reviewer: izquierdoo Date: 14-Dec-2021 09:10:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.350	0.000	99	133515	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	678304	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	93	399229	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.781	0.000	93	242384	25.0	26.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.093	6.093	0.000	93	246683	25.0	26.5	
$ 6 Toluene-d8 (Surr)	98	7.807	7.807	0.000	93	844384	25.0	25.8	
$ 7 4-Bromofluorobenzene (Surr)	174	10.517	10.517	0.000	94	317026	25.0	25.3	
10 Dichlorodifluoromethane	85	2.087	2.087	0.000	99	209270	25.0	27.3	
13 Chloromethane	50	2.344	2.344	0.000	99	185340	25.0	24.5	
14 Vinyl chloride	62	2.473	2.473	0.000	98	212486	25.0	26.0	
15 Butadiene	54	2.492	2.492	0.000	91	197508	25.0	27.2	
18 Bromomethane	94	2.862	2.862	0.000	93	214253	25.0	25.7	
19 Chloroethane	64	2.952	2.952	0.000	100	159211	25.0	24.4	
21 Trichlorofluoromethane	101	3.186	3.186	0.000	96	324528	25.0	23.6	
20 Dichlorofluoromethane	67	3.190	3.190	0.000	96	316465	25.0	23.7	
26 Ethyl ether	59	3.476	3.476	0.000	88	141634	25.0	21.9	
28 Acrolein	56	3.678	3.678	0.000	100	146519	125.0	116.8	
29 112TCTFE	101	3.698	3.698	0.000	91	166624	25.0	27.3	
30 1,1-Dichloroethene	96	3.730	3.730	0.000	96	157084	25.0	24.5	
31 Acetone	43	3.823	3.823	0.000	100	383117	125.0	131.6	
33 Iodomethane	142	3.910	3.910	0.000	99	329093	25.0	21.6	
35 Carbon disulfide	76	3.964	3.964	0.000	99	506562	25.0	23.9	
37 3-Chloro-1-propene	41	4.080	4.080	0.000	86	207620	25.0	22.0	
38 Methyl acetate	43	4.093	4.093	0.000	96	345583	50.0	47.4	
39 Methylene Chloride	84	4.219	4.219	0.000	86	192620	25.0	21.6	
40 2-Methyl-2-propanol	59	4.315	4.315	0.000	97	311150	250.0	261.4	
41 Methyl tert-butyl ether	73	4.395	4.395	0.000	95	524329	25.0	24.3	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	95	193265	25.0	23.0	
44 Acrylonitrile	53	4.476	4.476	0.000	98	924472	250.0	241.4	
47 Hexane	57	4.598	4.598	0.000	91	200625	25.0	26.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.833	4.833	0.000	95	296769	25.0	23.6	
49 Vinyl acetate	43	4.836	4.836	0.000	97	738244	50.0	50.1	
56 2,2-Dichloropropane	77	5.328	5.328	0.000	90	198330	25.0	23.6	
58 cis-1,2-Dichloroethene	96	5.354	5.354	0.000	80	219084	25.0	23.8	
57 2-Butanone (MEK)	43	5.354	5.354	0.000	100	601893	125.0	131.9	
60 Chlorobromomethane	128	5.585	5.585	0.000	83	127586	25.0	23.9	
61 Tetrahydrofuran	42	5.598	5.598	0.000	82	155495	50.0	51.2	
62 Chloroform	83	5.630	5.630	0.000	91	341246	25.0	22.5	
64 1,1,1-Trichloroethane	97	5.768	5.768	0.000	97	295268	25.0	24.6	
65 Cyclohexane	56	5.788	5.788	0.000	86	243431	25.0	28.3	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	94	242375	25.0	26.3	
66 Carbon tetrachloride	117	5.907	5.907	0.000	97	269252	25.0	25.4	
69 Isobutyl alcohol	43	6.009	6.009	0.000	92	326336	625.0	693.5	
70 Benzene	78	6.112	6.112	0.000	96	710013	25.0	24.5	
72 1,2-Dichloroethane	62	6.164	6.164	0.000	98	255611	25.0	23.3	
73 n-Heptane	43	6.209	6.209	0.000	87	181612	25.0	24.8	
75 Trichloroethene	95	6.678	6.678	0.000	95	197731	25.0	24.2	
76 Methylcyclohexane	83	6.807	6.807	0.000	85	291830	25.0	27.0	
77 1,2-Dichloropropane	63	6.916	6.916	0.000	93	164453	25.0	25.6	
81 1,4-Dioxane	88	7.029	7.029	0.000	91	47568	500.0	488.8	
82 Dibromomethane	93	7.061	7.061	0.000	93	141340	25.0	24.2	
83 Dichlorobromomethane	83	7.180	7.180	0.000	98	253731	25.0	25.0	
84 2-Chloroethyl vinyl ether	63	7.398	7.398	0.000	93	128382	25.0	26.8	
85 cis-1,3-Dichloropropene	75	7.575	7.575	0.000	96	285882	25.0	25.6	
87 4-Methyl-2-pentanone (MIBK)	43	7.681	7.681	0.000	95	1161227	125.0	118.0	
88 Toluene	92	7.874	7.874	0.000	98	470424	25.0	22.2	
90 Ethyl methacrylate	69	8.109	8.109	0.000	87	258650	25.0	26.3	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	97	280015	25.0	24.3	
93 1,1,2-Trichloroethane	83	8.321	8.321	0.000	90	152280	25.0	23.5	
94 Tetrachloroethene	166	8.408	8.408	0.000	98	240967	25.0	22.8	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	96	308254	25.0	23.3	
96 2-Hexanone	43	8.501	8.501	0.000	93	832737	125.0	123.8	
98 Chlorodibromomethane	129	8.739	8.739	0.000	91	223786	25.0	23.7	
101 Ethylene Dibromide	107	8.874	8.874	0.000	98	219612	25.0	23.1	
103 Chlorobenzene	112	9.331	9.331	0.000	98	570027	25.0	22.2	
104 Ethylbenzene	91	9.389	9.389	0.000	97	878870	25.0	22.7	
105 1,1,1,2-Tetrachloroethane	131	9.408	9.408	0.000	95	217433	25.0	22.7	
106 m-Xylene & p-Xylene	106	9.505	9.505	0.000	98	359534	25.0	22.6	
107 o-Xylene	106	9.945	9.945	0.000	96	352033	25.0	22.0	
109 Styrene	104	9.971	9.971	0.000	95	597312	25.0	23.1	
110 Bromoform	173	10.251	10.251	0.000	97	164723	25.0	22.9	
111 Isopropylbenzene	105	10.302	10.302	0.000	95	921400	25.0	23.2	
112 1,1,2,2-Tetrachloroethane	83	10.681	10.681	0.000	96	296154	25.0	23.7	
113 Bromobenzene	156	10.688	10.688	0.000	87	265898	25.0	21.7	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	1049211	25.0	23.6	
115 trans-1,4-Dichloro-2-butene	53	10.723	10.723	0.000	77	72920	25.0	23.0	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	87	108931	25.0	23.6	
117 2-Chlorotoluene	126	10.845	10.845	0.000	98	235476	25.0	22.4	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	95	781074	25.0	22.8	
119 4-Chlorotoluene	91	10.948	10.948	0.000	96	636114	25.0	22.8	
120 tert-Butylbenzene	134	11.189	11.189	0.000	91	181801	25.0	22.4	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	802204	25.0	22.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.389	11.389	0.000	93	1001338	25.0	23.9	
123 4-Isopropyltoluene	119	11.511	11.511	0.000	97	898786	25.0	23.1	
124 1,3-Dichlorobenzene	146	11.556	11.556	0.000	98	507984	25.0	21.8	
126 1,4-Dichlorobenzene	146	11.633	11.633	0.000	96	511515	25.0	21.3	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	757754	25.0	23.3	
128 1,2-Dichlorobenzene	146	11.977	11.977	0.000	99	499530	25.0	21.3	
129 1,2-Dibromo-3-Chloropropane	75	12.656	12.656	0.000	91	64209	25.0	24.1	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	95	370782	25.0	20.8	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	98	158226	25.0	20.8	
132 Naphthalene	128	13.556	13.556	0.000	96	1108749	25.0	22.4	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	359915	25.0	21.1	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00218	Amount Added:	12.50	Units: uL	
GAS CORP mix_00484	Amount Added:	12.50	Units: uL	
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 14-Dec-2021 09:10:34 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16203.D

Injection Date: 13-Dec-2021 22:02:19 Instrument ID: HP5977L

Lims ID: CCVIS

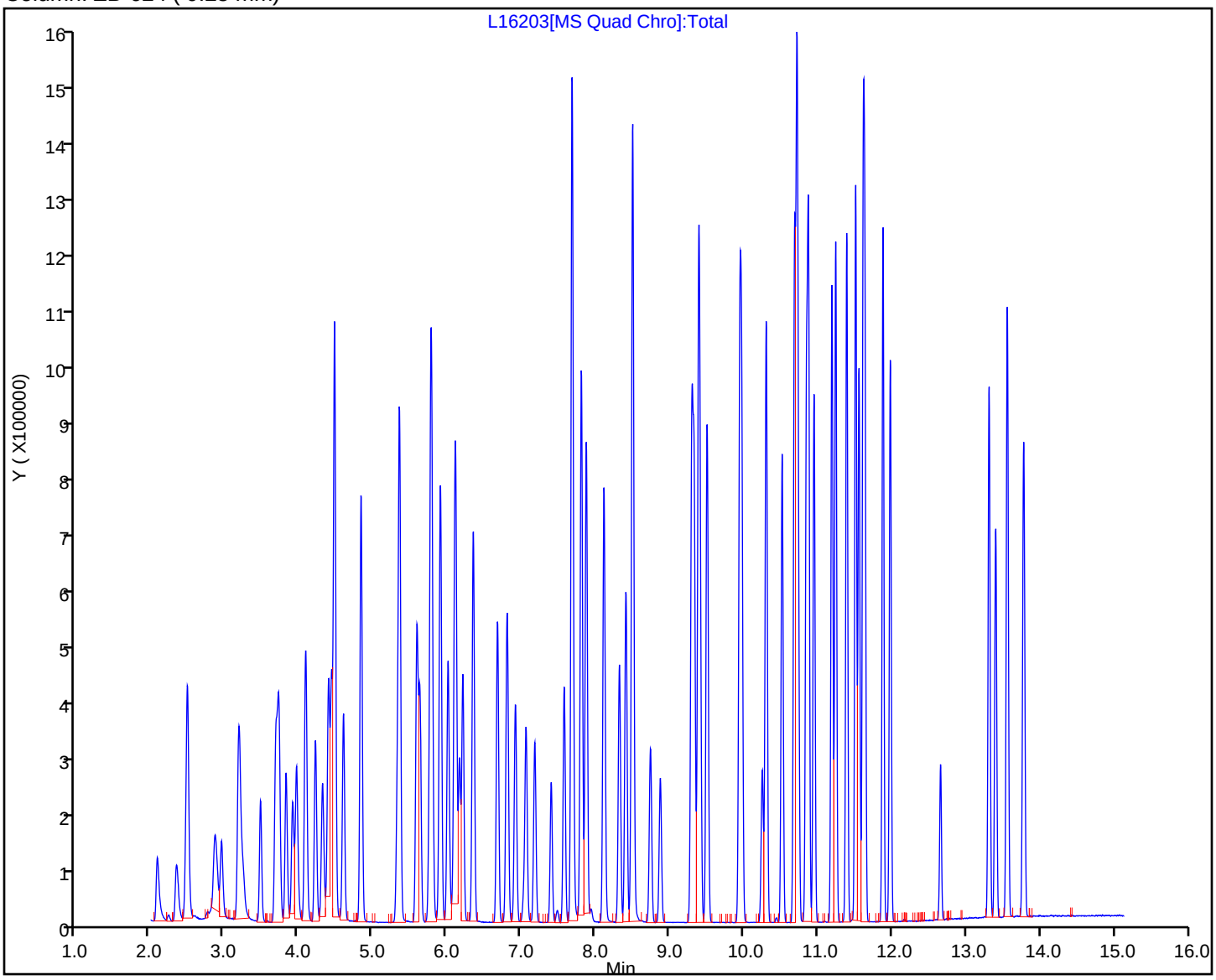
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 4

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Lab Sample ID: CCV 480-608629/5 Calibration Date: 12/13/2021 22:23

Instrument ID: HP5977L Calib Start Date: 12/08/2021 16:14

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 18:47

Lab File ID: L16204.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	1.725	1.828		26.5	25.0	6.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.746	1.864		26.7	25.0	6.8	20.0
Toluene-d8 (Surr)	Ave	1.207	1.247		25.8	25.0	3.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4611	0.4512		24.5	25.0	-2.2	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16204.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 13-Dec-2021 22:23:42 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 480-0103021-005
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub5

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Dec-2021 09:13:45 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1673

First Level Reviewer: izquierdoo Date: 14-Dec-2021 09:13:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.351	6.351	0.000	99	132171	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	84	653029	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	96	378198	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.781	0.000	93	241580	25.0	26.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	246394	25.0	26.7	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	93	814463	25.0	25.8	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	93	294626	25.0	24.5	
9 Chlorodifluoromethane	51	2.116	2.116	0.000	97	189766	25.0	30.9	
11 Ethanol	45	3.473	3.473	0.000	0	89186	1000.0	1280.7	
12 Propene oxide	58		3.588				ND	ND	
16 Isopropyl alcohol	45	3.961	3.961	0.000	97	171027	250.0	308.5	
17 Acetonitrile	40	4.132	4.132	0.000	99	163432	250.0	296.8	
22 Isopropyl ether	45	4.788	4.788	0.000	92	486722	25.0	27.7	
23 Halothane	117	4.804	4.804	0.000	92	143603	25.0	25.6	
25 1,1-Dimethoxyethane	75	4.875	4.875	0.000	93	244470	125.0	146.0	
24 2-Chloro-1,3-butadiene	53	4.888	4.888	0.000	91	241894	25.0	28.6	
27 Tert-butyl ethyl ether	59	5.109	5.109	0.000	95	503405	25.0	28.2	
32 Ethyl acetate	43	5.354	5.354	0.000	99	439427	50.0	56.0	
34 Propionitrile	54	5.466	5.466	0.000	99	401681	250.0	290.5	
36 Methacrylonitrile	41	5.572	5.572	0.000	90	1400247	250.0	270.6	
43 Isooctane	57	6.061	6.061	0.000	96	522569	25.0	28.1	
45 t-Amyl alcohol	59	6.084	6.084	0.000	89	276016	250.0	299.6	
46 Tert-amyl methyl ether	73	6.125	6.125	0.000	97	702788	25.0	28.8	
48 1,4-Difluorobenzene	114	6.424	6.424	0.000	93	636611	25.0	27.4	
51 2,4,4-Trimethyl-1-pentene	55	6.540	6.540	0.000	96	99087	NC	NC	
52 n-Butanol	56	6.598	6.598	0.000	85	205916	625.0	774.6	
53 Ethyl acrylate	55	6.730	6.730	0.000	98	500975	25.0	27.1	
54 2,4,4-Trimethyl-2-pentene	97		6.743				ND	ND	
55 Methyl methacrylate	41	6.936	6.936	0.000	84	350703	50.0	56.8	
59 2-Nitropropane	43	7.415	7.415	0.000	99	110132	50.0	52.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
63 Epichlorohydrin	57	7.527	7.527	0.000	99	281348	250.0	298.8	
68 2-Methylthiophene	97	8.016	8.016	0.000	97	619588	25.0	24.0	
71 3-Methylthiophene	97	8.177	8.177	0.000	98	635143	25.0	24.1	
74 n-Butyl acetate	43	8.576	8.576	0.000	98	288364	25.0	26.1	
78 1-Chlorohexane	55	9.215	9.215	0.000	92	139265	25.0	27.7	
79 3-Chlorobenzotrifluoride	180	9.219	9.219	0.000	92	313183	25.0	25.6	
80 4-Chlorobenzotrifluoride	180	9.280	9.280	0.000	96	288537	25.0	26.2	
86 2-Chlorobenzotrifluoride	180	10.219	10.219	0.000	98	333479	25.0	26.3	
89 Cyclohexanone	55	10.511	10.511	0.000	93	83118	250.0	280.3	
92 3-Chlorotoluene	126	10.903	10.903	0.000	95	246585	25.0	26.3	
97 Pentachloroethane	167	11.273	11.273	0.000	0	133601	25.0	26.7	
99 Dicyclopentadiene	66	11.624	11.624	0.000	97	841753	25.0	25.7	
100 1,2,3-Trimethylbenzene	105	11.643	11.643	0.000	98	873447	25.0	26.0	
102 Benzyl chloride	126	11.762	11.762	0.000	98	96518	25.0	21.0	
108 1,3,5-Trichlorobenzene	180	12.768	12.768	0.000	98	406416	25.0	24.4	
125 2-Methylnaphthalene	142	14.675	14.675	0.000	95	749184	25.0	26.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

2 MTP 2019_00038	Amount Added:	12.50	Units: uL	
3 MTP 2019_00038	Amount Added:	12.50	Units: uL	
3_MCP_Add_WRK_00344	Amount Added:	12.50	Units: uL	
ADD CORP mix_00118	Amount Added:	12.50	Units: uL	
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 14-Dec-2021 09:13:46 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16204.D

Injection Date: 13-Dec-2021 22:23:42 Instrument ID: HP5977L

Lims ID: CCV

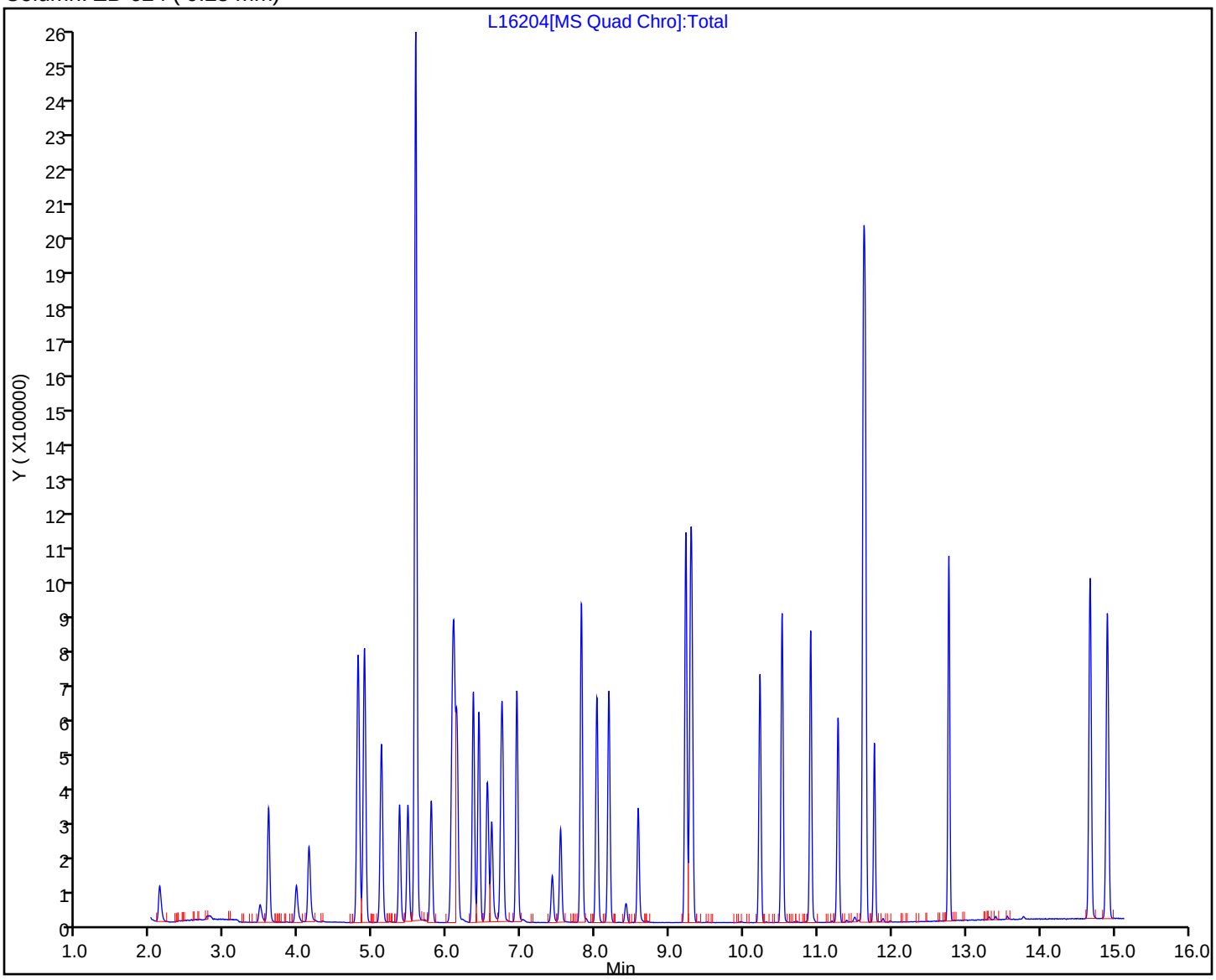
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 5

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Lab Sample ID: CCV 480-608629/5 Calibration Date: 12/13/2021 22:23

Instrument ID: HP5977L Calib Start Date: 12/08/2021 20:38

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 12/08/2021 22:50

Lab File ID: L16204.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	1.162	1.436		30.9	25.0	23.6*	20.0
Ethanol	Ave	0.0132	0.0169		1280	1000	28.1*	20.0
Isopropyl alcohol	Ave	0.1049	0.1294		308	250	23.4*	20.0
Acetonitrile	Ave	0.1042	0.1237		297	250	18.7	20.0
Isopropyl ether	Ave	3.327	3.683		27.7	25.0	10.7	20.0
Halothane	Ave	1.059	1.086		25.6	25.0	2.6	20.0
1,1-Dimethoxyethane	Ave	0.3167	0.3699		146	125	16.8	20.0
Chloroprene	Ave	1.602	1.830		28.6	25.0	14.2	20.0
Tert-butyl ethyl ether	Ave	3.371	3.809		28.2	25.0	13.0	20.0
Ethyl acetate	Ave	1.485	1.662		56.0	50.0	11.9	20.0
Propionitrile	Ave	0.2615	0.3039		291	250	16.2	20.0
Methacrylonitrile	Ave	0.9787	1.059		271	250	8.3	20.0
Isooctane	Ave	3.521	3.954		28.1	25.0	12.3	20.0
t-Amyl alcohol	Ave	0.1743	0.2088		300	250	19.8	20.0
Tert-amyl methyl ether	Ave	4.609	5.317		28.8	25.0	15.4	20.0
1,4-Difluorobenzene	Ave	4.391	4.817		27.4	25.0	9.7	20.0
n-Butanol	Ave	0.0503	0.0623		775	625	23.9*	20.0
Ethyl acrylate	Ave	3.491	3.790		27.1	25.0	8.6	20.0
Methyl methacrylate	Ave	1.168	1.327		56.8	50.0	13.6	20.0
2-Nitropropane	Ave	0.1390	0.1456		52.4	50.0	4.8	20.0
Epichlorohydrin	Ave	0.1781	0.2129		299	250	19.5	20.0
2-Methylthiophene	Ave	1.706	1.638		24.0	25.0	-4.0	20.0
3-Methylthiophene	Ave	1.741	1.679		24.1	25.0	-3.5	20.0
n-Butyl acetate	Ave	0.4233	0.4416	0.1000	26.1	25.0	4.3	20.0
1-Chlorohexane	Ave	0.1928	0.2133		27.7	25.0	10.6	20.0
3-Chlorobenzotrifluoride	Ave	0.8080	0.8281		25.6	25.0	2.5	20.0
4-Chlorobenzotrifluoride	Ave	0.7268	0.7629		26.2	25.0	5.0	20.0
2-Chlorobenzotrifluoride	Ave	0.8384	0.8818		26.3	25.0	5.2	20.0
Cyclohexanone	Ave	0.0196	0.0220		280	250	12.1	20.0
3-Chlorotoluene	Ave	0.6202	0.6520		26.3	25.0	5.1	20.0
Pentachloroethane	Ave	0.3305	0.3533		26.7	25.0	6.9	20.0
Dicyclopentadiene	Ave	2.161	2.226		25.7	25.0	3.0	20.0
1,2,3-Trimethylbenzene	Ave	2.217	2.309		26.0	25.0	4.2	20.0
Benzyl chloride	Lin1		0.1478		21.0	25.0	-15.9	20.0
1,3,5-Trichlorobenzene	Ave	1.101	1.075		24.4	25.0	-2.4	20.0
2-Methylnaphthalene	Ave	1.879	1.981		26.4	25.0	5.4	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16204.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 13-Dec-2021 22:23:42 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 480-0103021-005
Operator ID: wd Instrument ID: HP5977L
Sublist: chrom-L-8260*sub5

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Dec-2021 09:13:45 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1673

First Level Reviewer: izquierdoo Date: 14-Dec-2021 09:13:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.351	6.351	0.000	99	132171	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	84	653029	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	96	378198	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.781	0.000	93	241580	25.0	26.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	246394	25.0	26.7	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	93	814463	25.0	25.8	
$ 7 4-Bromofluorobenzene (Surr)	174	10.518	10.518	0.000	93	294626	25.0	24.5	
9 Chlorodifluoromethane	51	2.116	2.116	0.000	97	189766	25.0	30.9	
11 Ethanol	45	3.473	3.473	0.000	0	89186	1000.0	1280.7	
12 Propene oxide	58		3.588				ND	ND	
16 Isopropyl alcohol	45	3.961	3.961	0.000	97	171027	250.0	308.5	
17 Acetonitrile	40	4.132	4.132	0.000	99	163432	250.0	296.8	
22 Isopropyl ether	45	4.788	4.788	0.000	92	486722	25.0	27.7	
23 Halothane	117	4.804	4.804	0.000	92	143603	25.0	25.6	
25 1,1-Dimethoxyethane	75	4.875	4.875	0.000	93	244470	125.0	146.0	
24 2-Chloro-1,3-butadiene	53	4.888	4.888	0.000	91	241894	25.0	28.6	
27 Tert-butyl ethyl ether	59	5.109	5.109	0.000	95	503405	25.0	28.2	
32 Ethyl acetate	43	5.354	5.354	0.000	99	439427	50.0	56.0	
34 Propionitrile	54	5.466	5.466	0.000	99	401681	250.0	290.5	
36 Methacrylonitrile	41	5.572	5.572	0.000	90	1400247	250.0	270.6	
43 Isooctane	57	6.061	6.061	0.000	96	522569	25.0	28.1	
45 t-Amyl alcohol	59	6.084	6.084	0.000	89	276016	250.0	299.6	
46 Tert-amyl methyl ether	73	6.125	6.125	0.000	97	702788	25.0	28.8	
48 1,4-Difluorobenzene	114	6.424	6.424	0.000	93	636611	25.0	27.4	
51 2,4,4-Trimethyl-1-pentene	55	6.540	6.540	0.000	96	99087	NC	NC	
52 n-Butanol	56	6.598	6.598	0.000	85	205916	625.0	774.6	
53 Ethyl acrylate	55	6.730	6.730	0.000	98	500975	25.0	27.1	
54 2,4,4-Trimethyl-2-pentene	97		6.743				ND	ND	
55 Methyl methacrylate	41	6.936	6.936	0.000	84	350703	50.0	56.8	
59 2-Nitropropane	43	7.415	7.415	0.000	99	110132	50.0	52.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
63 Epichlorohydrin	57	7.527	7.527	0.000	99	281348	250.0	298.8	
68 2-Methylthiophene	97	8.016	8.016	0.000	97	619588	25.0	24.0	
71 3-Methylthiophene	97	8.177	8.177	0.000	98	635143	25.0	24.1	
74 n-Butyl acetate	43	8.576	8.576	0.000	98	288364	25.0	26.1	
78 1-Chlorohexane	55	9.215	9.215	0.000	92	139265	25.0	27.7	
79 3-Chlorobenzotrifluoride	180	9.219	9.219	0.000	92	313183	25.0	25.6	
80 4-Chlorobenzotrifluoride	180	9.280	9.280	0.000	96	288537	25.0	26.2	
86 2-Chlorobenzotrifluoride	180	10.219	10.219	0.000	98	333479	25.0	26.3	
89 Cyclohexanone	55	10.511	10.511	0.000	93	83118	250.0	280.3	
92 3-Chlorotoluene	126	10.903	10.903	0.000	95	246585	25.0	26.3	
97 Pentachloroethane	167	11.273	11.273	0.000	0	133601	25.0	26.7	
99 Dicyclopentadiene	66	11.624	11.624	0.000	97	841753	25.0	25.7	
100 1,2,3-Trimethylbenzene	105	11.643	11.643	0.000	98	873447	25.0	26.0	
102 Benzyl chloride	126	11.762	11.762	0.000	98	96518	25.0	21.0	
108 1,3,5-Trichlorobenzene	180	12.768	12.768	0.000	98	406416	25.0	24.4	
125 2-Methylnaphthalene	142	14.675	14.675	0.000	95	749184	25.0	26.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

2 MTP 2019_00038	Amount Added:	12.50	Units: uL	
3 MTP 2019_00038	Amount Added:	12.50	Units: uL	
3_MCP_Add_WRK_00344	Amount Added:	12.50	Units: uL	
ADD CORP mix_00118	Amount Added:	12.50	Units: uL	
L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 14-Dec-2021 09:13:46 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16204.D

Injection Date: 13-Dec-2021 22:23:42 Instrument ID: HP5977L

Lims ID: CCV

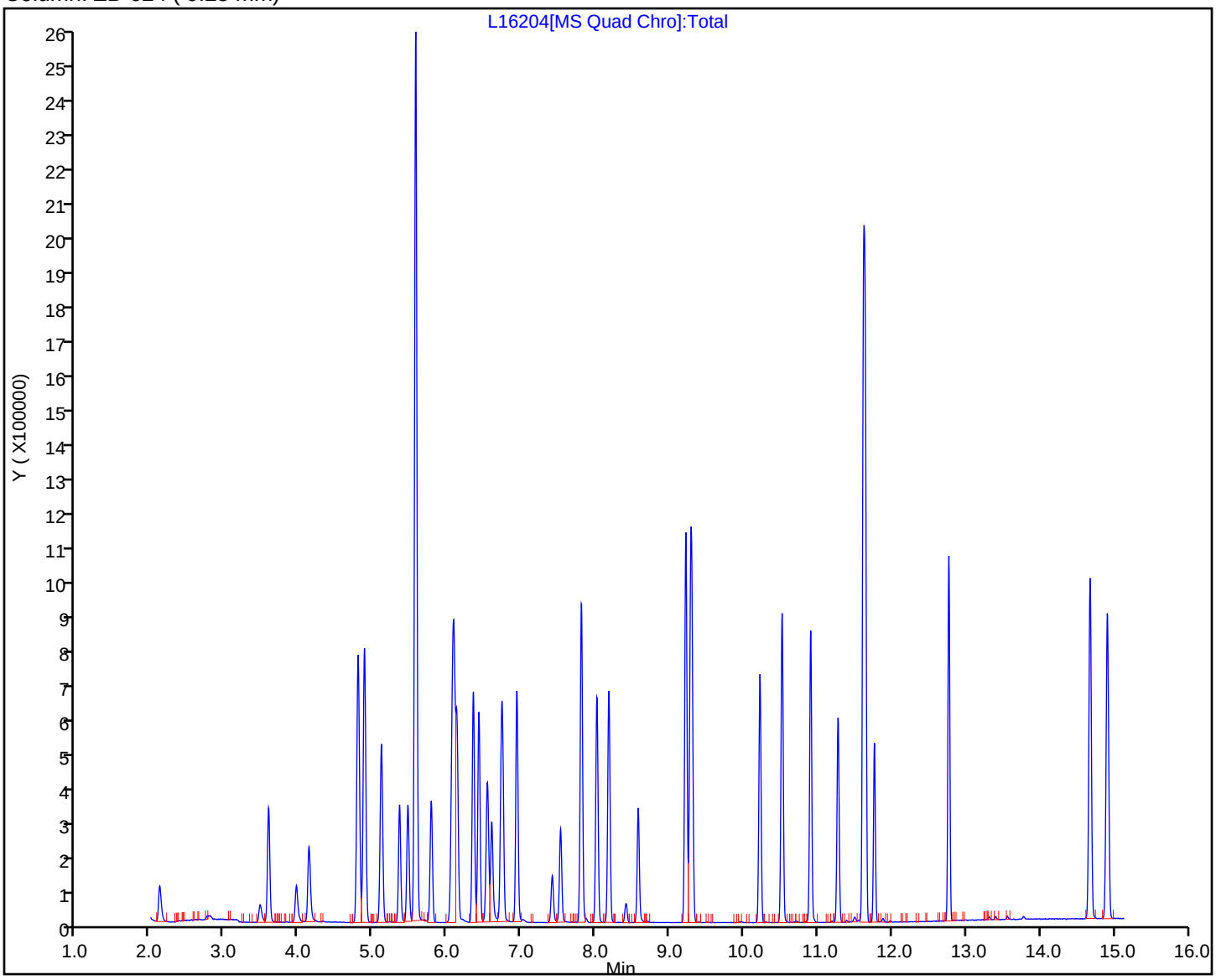
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 5

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16082.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Dec-2021 15:28:22 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0102927-006
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 09-Dec-2021 16:06:17 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: dahnw Date: 08-Dec-2021 15:38:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 8 BFB	95	6.061	6.061	0.000	0	94489	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

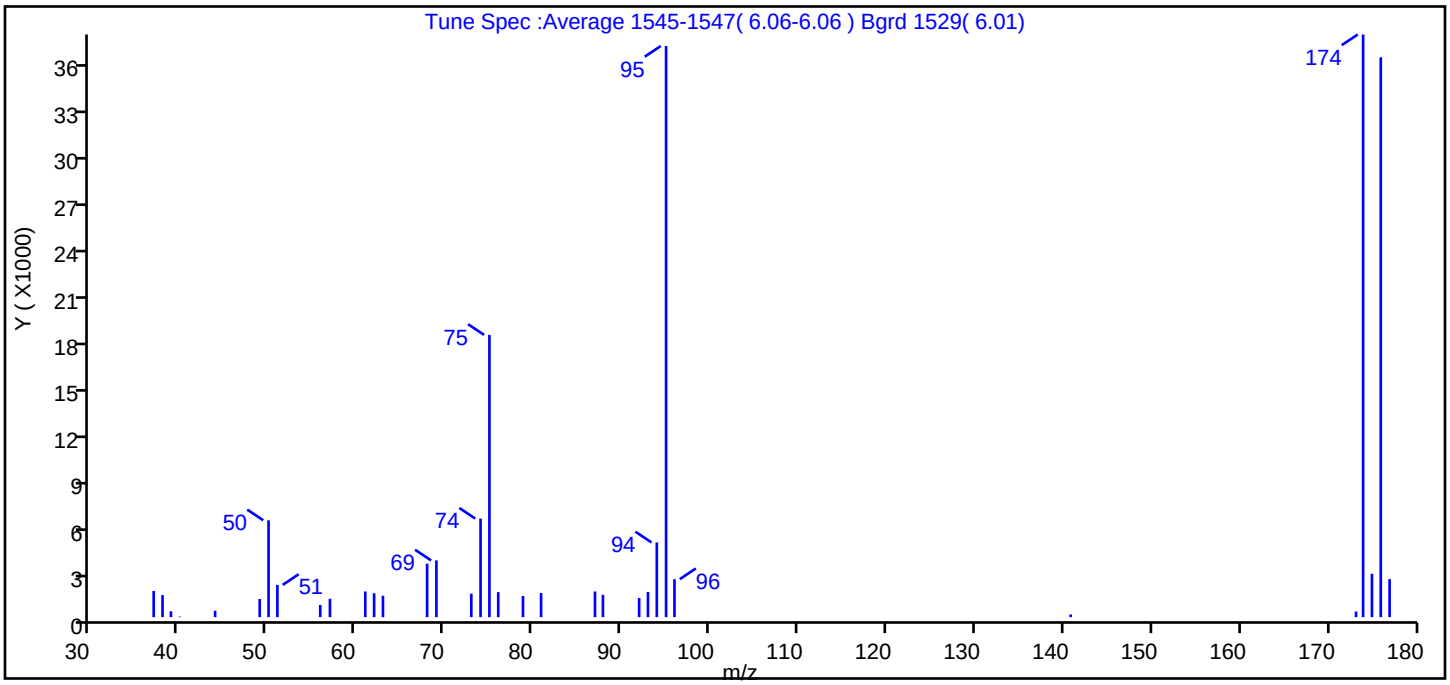
BFB_WRK_00130 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16082.D
Injection Date: 08-Dec-2021 15:28:22 Instrument ID: HP5977L
Lims ID: BFB
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.0
75	30 to 60% of m/z 95	49.4
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	1.0 (1.0)
174	50 to 120% of m/z 95	102.0
175	5 to 9% of m/z 174	7.6 (7.4)
176	Greater than 95% but less than 101% of m/z 174	98.0 (96.1)
177	5 to 9% of m/z 176	6.7 (6.8)

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16082.D\L-8260.rslt\spectra.d
Injection Date: 08-Dec-2021 15:28:22
Spectrum: Tune Spec :Average 1545-1547(6.06-6.06) Bgrd 1529(6.01)
Base Peak: 173.90
Minimum % Base Peak: 0
Number of Points: 34

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1674	57.00	1174	76.00	1599	96.00	2427
38.00	1408	61.00	1641	79.00	1346	141.00	171
39.00	376	62.00	1522	81.00	1538	173.00	356
40.00	35	63.00	1366	87.00	1640	174.00	37224
44.00	408	68.00	3416	88.00	1427	175.00	2768
49.00	1160	69.00	3625	92.00	1224	176.00	35768
50.00	6189	73.00	1501	93.00	1609	177.00	2429
51.00	2061	74.00	6296	94.00	4773		
56.00	777	75.00	18032	95.00	36488		

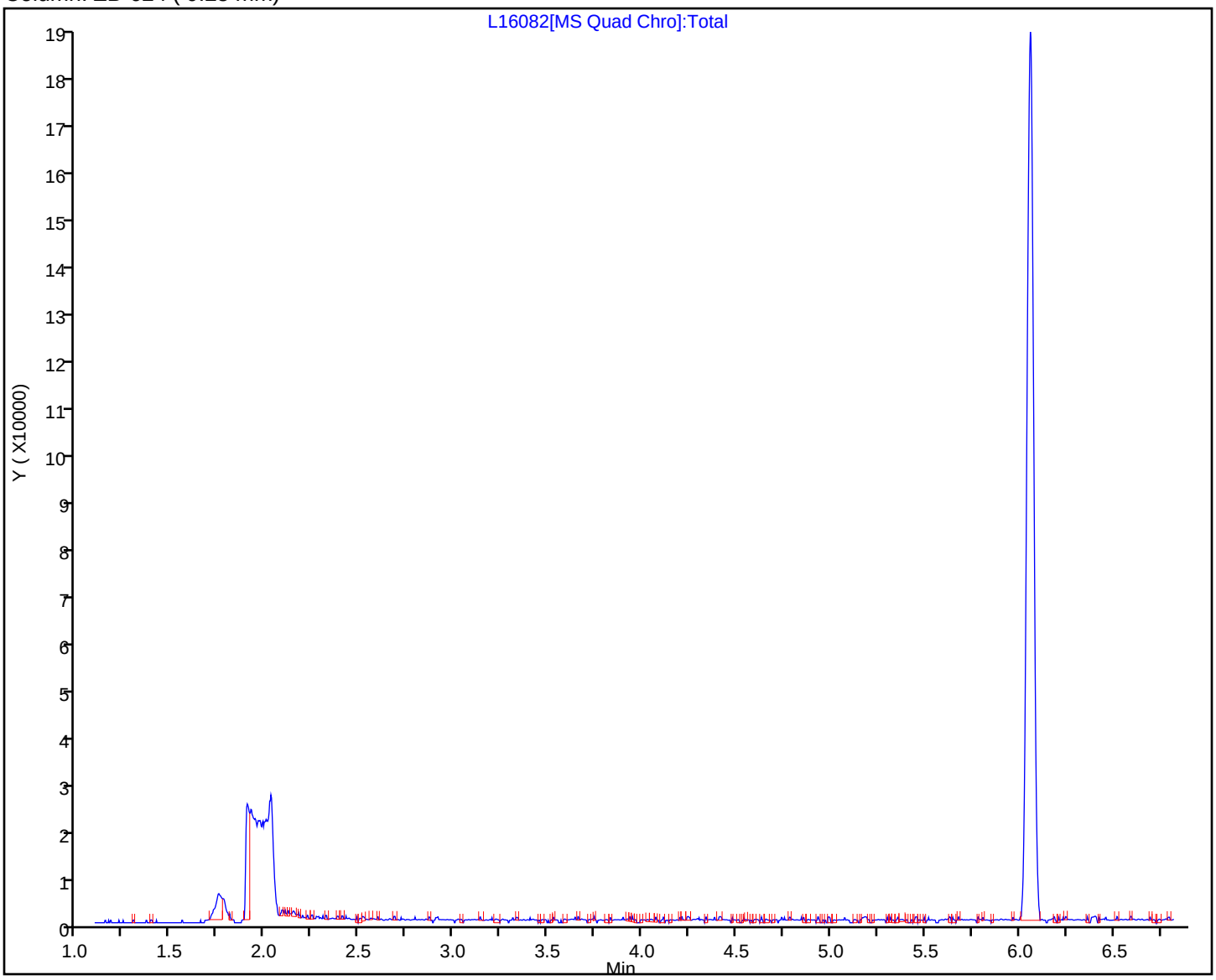
Report Date: 09-Dec-2021 16:06:17 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16082.D

Injection Date:	08-Dec-2021 15:28:22	Instrument ID:	HP5977L		
Lims ID:	BFB				
Client ID:					
Operator ID:	wd	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16202.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 13-Dec-2021 21:40:03 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0103021-003
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Dec-2021 08:11:00 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1673

First Level Reviewer: izquierdoo Date: 14-Dec-2021 08:11:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 8 BFB	95	6.045	6.045	0.000	0	336786	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

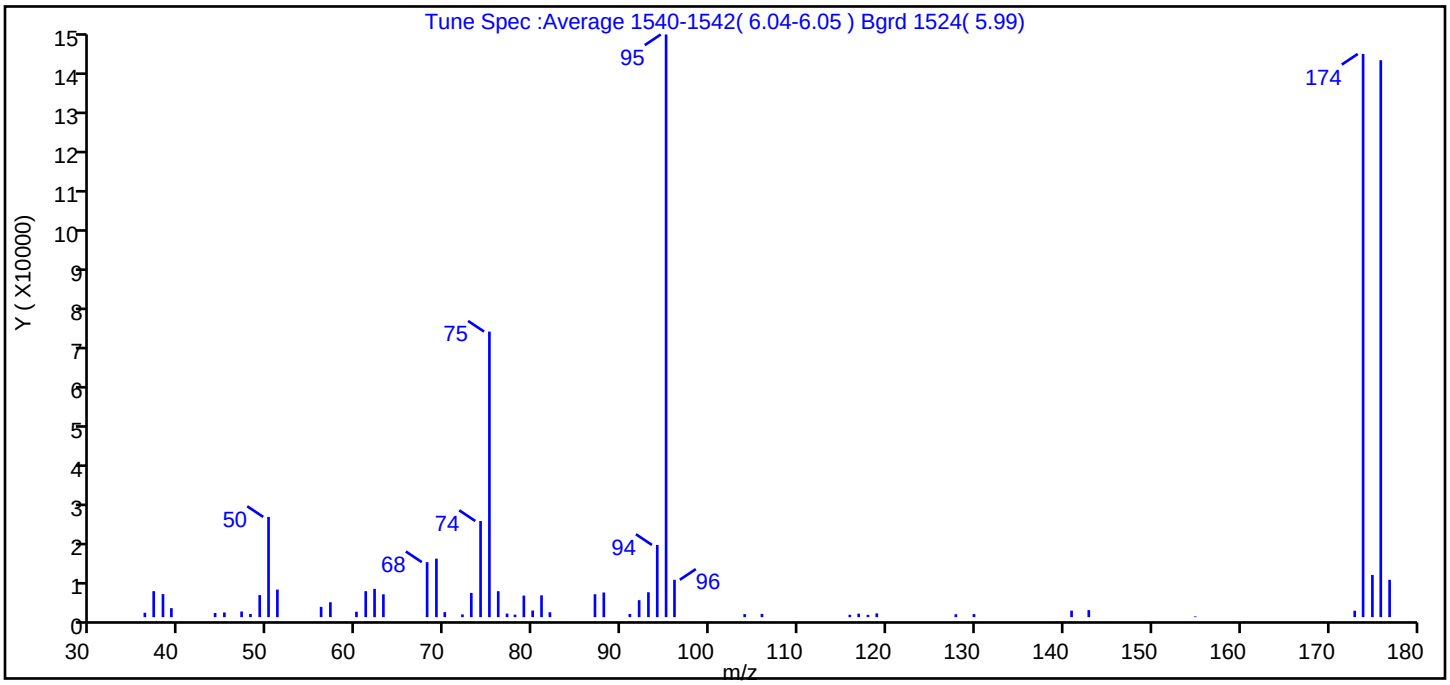
BFB_WRK_00130 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16202.D
Injection Date: 13-Dec-2021 21:40:03 Instrument ID: HP5977L
Lims ID: BFB
Client ID:
Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.2
75	30 to 60% of m/z 95	49.0
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	1.1 (1.1)
174	50 to 120% of m/z 95	96.7
175	5 to 9% of m/z 174	7.2 (7.5)
176	Greater than 95% but less than 101% of m/z 174	95.6 (98.9)
177	5 to 9% of m/z 176	6.4 (6.7)

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16202.D\L-8260.rslt\spectra.d
Injection Date: 13-Dec-2021 21:40:03
Spectrum: Tune Spec :Average 1540-1542(6.04-6.05) Bgrd 1524(5.99)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1083	61.00	6412	80.00	1637	117.00	862
37.00	6410	62.00	6973	81.00	5378	118.00	569
38.00	5690	63.00	5632	82.00	1203	119.00	932
39.00	2220	68.00	13566	87.00	5649	128.00	716
44.00	1029	69.00	14420	88.00	6074	130.00	757
45.00	1154	70.00	1241	91.00	795	141.00	1610
47.00	1388	72.00	670	92.00	4190	143.00	1736
48.00	793	73.00	5973	93.00	6132	155.00	172
49.00	5445	74.00	23712	94.00	17808	173.00	1587
50.00	24712	75.00	70416	95.00	143680	174.00	138880
51.00	6800	76.00	6399	96.00	9214	175.00	10402
56.00	2536	77.00	886	104.00	751	176.00	137344
57.00	3680	78.00	620	106.00	808	177.00	9209
60.00	1341	79.00	5312	116.00	582		

Report Date: 14-Dec-2021 08:11:01 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16202.D

Injection Date: 13-Dec-2021 21:40:03 Instrument ID: HP5977L

Lims ID: BFB

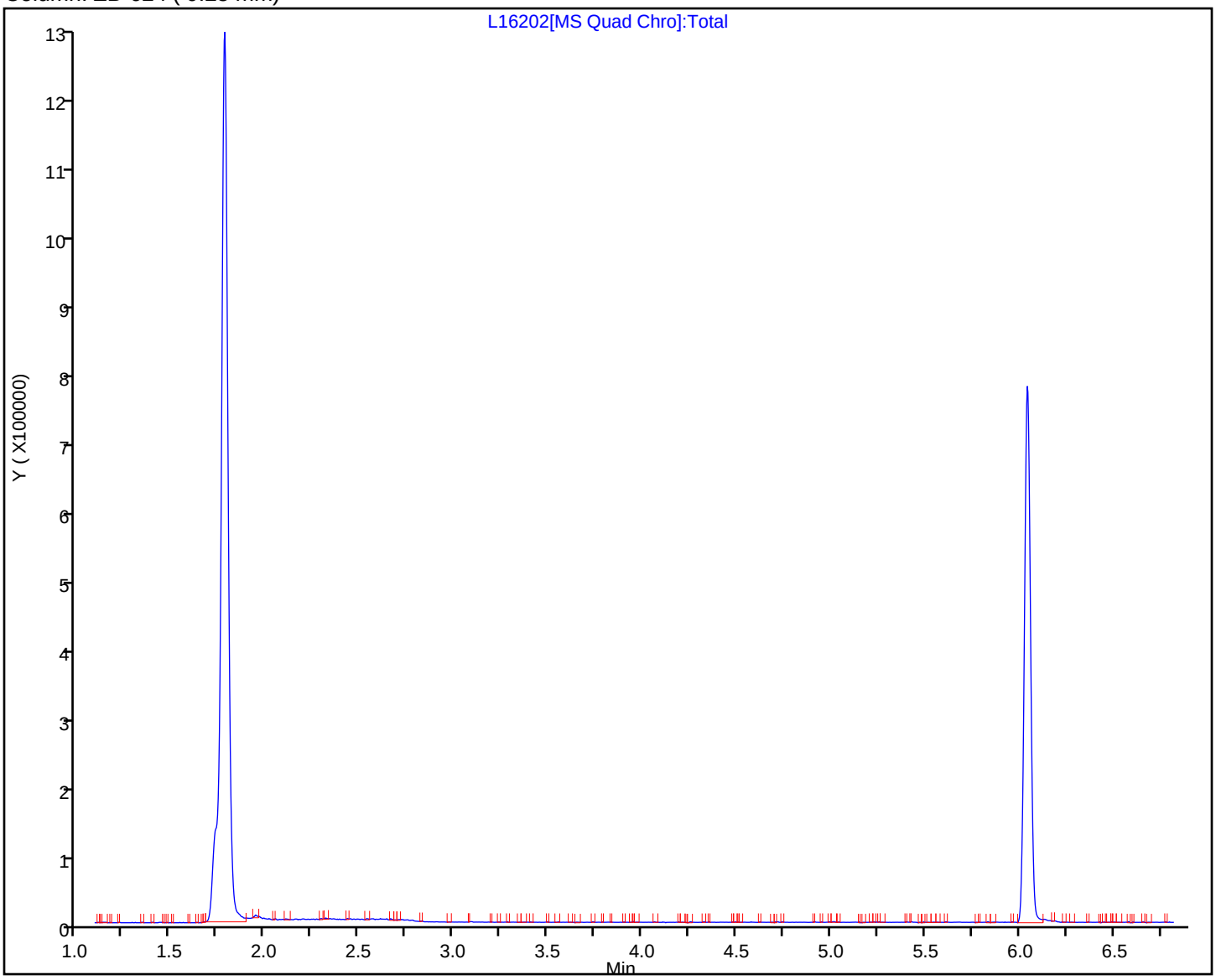
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: Lab Sample ID: MB 480-608629/8

Matrix: Water Lab File ID: L16207.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/13/2021 23:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: Lab Sample ID: MB 480-608629/8

Matrix: Water Lab File ID: L16207.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/13/2021 23:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
2037-26-5	Toluene-d8 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16207.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 13-Dec-2021 23:29:40 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0103021-008
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Dec-2021 09:22:19 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1673

First Level Reviewer: izquierdoo Date: 14-Dec-2021 09:22:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.351	0.000	99	127198	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	642177	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	94	377790	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.781	0.000	93	240745	25.0	27.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	96	239827	25.0	27.0	
$ 6 Toluene-d8 (Surr)	98	7.810	7.810	0.000	93	796883	25.0	25.7	
$ 7 4-Bromofluorobenzene (Surr)	174	10.517	10.518	-0.001	94	282736	25.0	23.9	
10 Dichlorodifluoromethane	85		2.087					ND	
9 Chlorodifluoromethane	51		2.116					ND	
13 Chloromethane	50		2.344					ND	
14 Vinyl chloride	62		2.473					ND	
15 Butadiene	54		2.492					ND	
18 Bromomethane	94		2.862					ND	
19 Chloroethane	64		2.952					ND	
21 Trichlorofluoromethane	101		3.186					ND	
20 Dichlorofluoromethane	67		3.190					ND	
11 Ethanol	45		3.473					ND	
26 Ethyl ether	59		3.476					ND	
12 Propene oxide	58		3.588					ND	
28 Acrolein	56		3.678					ND	
29 112TCTFE	101		3.698					ND	
30 1,1-Dichloroethene	96		3.730					ND	
31 Acetone	43		3.823					ND	
33 Iodomethane	142		3.910					ND	
16 Isopropyl alcohol	45		3.961					ND	
35 Carbon disulfide	76		3.964					ND	
37 3-Chloro-1-propene	41		4.080					ND	
38 Methyl acetate	43		4.093					ND	
17 Acetonitrile	40		4.132					ND	
39 Methylene Chloride	84		4.219					ND	
40 2-Methyl-2-propanol	59		4.315					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Methyl tert-butyl ether	73		4.395					ND	
42 trans-1,2-Dichloroethene	96		4.437					ND	
44 Acrylonitrile	53		4.476					ND	
47 Hexane	57		4.598					ND	
22 Isopropyl ether	45		4.788					ND	
23 Halothane	117		4.804					ND	
50 1,1-Dichloroethane	63		4.833					ND	
49 Vinyl acetate	43		4.836					ND	
25 1,1-Dimethoxyethane	75		4.875					ND	
24 2-Chloro-1,3-butadiene	53		4.888					ND	
27 Tert-butyl ethyl ether	59		5.109					ND	
56 2,2-Dichloropropane	77		5.328					ND	
58 cis-1,2-Dichloroethene	96		5.354					ND	
57 2-Butanone (MEK)	43		5.354					ND	
32 Ethyl acetate	43		5.354					ND	
34 Propionitrile	54		5.466					ND	
36 Methacrylonitrile	41		5.572					ND	
60 Chlorobromomethane	128		5.585					ND	
61 Tetrahydrofuran	42		5.598					ND	
62 Chloroform	83	5.627	5.630	-0.003	78	1376		0.0953	
64 1,1,1-Trichloroethane	97		5.768					ND	
65 Cyclohexane	56		5.788					ND	
67 1,1-Dichloropropene	75		5.907					ND	
66 Carbon tetrachloride	117		5.907					ND	
69 Isobutyl alcohol	43		6.009					ND	
43 Isooctane	57		6.061					ND	
45 t-Amyl alcohol	59		6.084					ND	
70 Benzene	78		6.112					ND	
46 Tert-amyl methyl ether	73		6.125					ND	
72 1,2-Dichloroethane	62		6.164					ND	
73 n-Heptane	43		6.209					ND	
48 1,4-Difluorobenzene	114		6.424					ND	
51 2,4,4-Trimethyl-1-pentene	55		6.540					ND	
52 n-Butanol	56		6.598					ND	
75 Trichloroethene	95		6.678					ND	
53 Ethyl acrylate	55		6.730					ND	
54 2,4,4-Trimethyl-2-pentene	97		6.743					ND	
76 Methylcyclohexane	83		6.807					ND	
77 1,2-Dichloropropane	63		6.916					ND	
55 Methyl methacrylate	41		6.936					ND	
81 1,4-Dioxane	88		7.029					ND	
82 Dibromomethane	93		7.061					ND	
83 Dichlorobromomethane	83		7.180					ND	
84 2-Chloroethyl vinyl ether	63		7.398					ND	
59 2-Nitropropane	43		7.415					ND	
63 Epichlorohydrin	57		7.527					ND	
85 cis-1,3-Dichloropropene	75		7.575					ND	
87 4-Methyl-2-pentanone (MIBK)	43		7.681					ND	
88 Toluene	92		7.874					ND	
68 2-Methylthiophene	97		8.016					ND	
90 Ethyl methacrylate	69		8.109					ND	
91 trans-1,3-Dichloropropene	75		8.119					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
71 3-Methylthiophene	97		8.177					ND	
93 1,1,2-Trichloroethane	83		8.321					ND	
94 Tetrachloroethene	166		8.408					ND	
95 1,3-Dichloropropane	76		8.492					ND	
96 2-Hexanone	43		8.501					ND	
74 n-Butyl acetate	43		8.576					ND	
98 Chlorodibromomethane	129		8.739					ND	
101 Ethylene Dibromide	107		8.874					ND	
78 1-Chlorohexane	55		9.215					ND	
79 3-Chlorobenzotrifluoride	180		9.219					ND	
80 4-Chlorobenzotrifluoride	180		9.280					ND	
103 Chlorobenzene	112		9.331					ND	
104 Ethylbenzene	91		9.389					ND	
105 1,1,1,2-Tetrachloroethane	131		9.408					ND	
106 m-Xylene & p-Xylene	106		9.505					ND	
107 o-Xylene	106		9.945					ND	
109 Styrene	104		9.971					ND	
86 2-Chlorobenzotrifluoride	180		10.219					ND	
110 Bromoform	173		10.251					ND	
111 Isopropylbenzene	105		10.302					ND	
89 Cyclohexanone	55		10.511					ND	U
112 1,1,2,2-Tetrachloroethane	83		10.681					ND	
113 Bromobenzene	156		10.688					ND	
114 N-Propylbenzene	91		10.717					ND	
115 trans-1,4-Dichloro-2-butene	53		10.723					ND	
116 1,2,3-Trichloropropane	110		10.736					ND	
117 2-Chlorotoluene	126		10.845					ND	
118 1,3,5-Trimethylbenzene	105		10.874					ND	7
92 3-Chlorotoluene	126		10.903					ND	
119 4-Chlorotoluene	91		10.948					ND	
120 tert-Butylbenzene	134		11.189					ND	
121 1,2,4-Trimethylbenzene	105		11.241					ND	
97 Pentachloroethane	167		11.273					ND	
122 sec-Butylbenzene	105		11.389					ND	
123 4-Isopropyltoluene	119		11.511					ND	
124 1,3-Dichlorobenzene	146		11.556					ND	
99 Dicyclopentadiene	66		11.624					ND	U
126 1,4-Dichlorobenzene	146		11.633					ND	
100 1,2,3-Trimethylbenzene	105		11.643					ND	
102 Benzyl chloride	126		11.762					ND	
127 n-Butylbenzene	91		11.881					ND	7
128 1,2-Dichlorobenzene	146		11.977					ND	
129 1,2-Dibromo-3-Chloropropane	75		12.656					ND	
108 1,3,5-Trichlorobenzene	180		12.768					ND	
130 1,2,4-Trichlorobenzene	180		13.312					ND	
131 Hexachlorobutadiene	225		13.402					ND	U
132 Naphthalene	128		13.556					ND	
133 1,2,3-Trichlorobenzene	180		13.778					ND	
125 2-Methylnaphthalene	142		14.675					ND	
136 1-Bromopropane TIC	1		0.000					ND	
139 Hexachloroethane	117		0.000					ND	
134 Ethylene oxide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
135 Propene oxide TIC	1		0.000					ND	
138 Nitrobenzene	77		0.000					ND	
137 cis-1,4-Dichloro-2-butene	88		0.000					ND	
S 142 Total BTEX	1		30.000					ND	7
S 144 1,3-Dichloropropene, Total	1		30.000					ND	7
S 141 1,2-Dichloroethene, Total	1		30.000					ND	7
S 143 Xylenes, Total	1		30.000					ND	7
S 145 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00032	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 14-Dec-2021 09:22:19 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16207.D

Injection Date: 13-Dec-2021 23:29:40 Instrument ID: HP5977L

Lims ID: MB

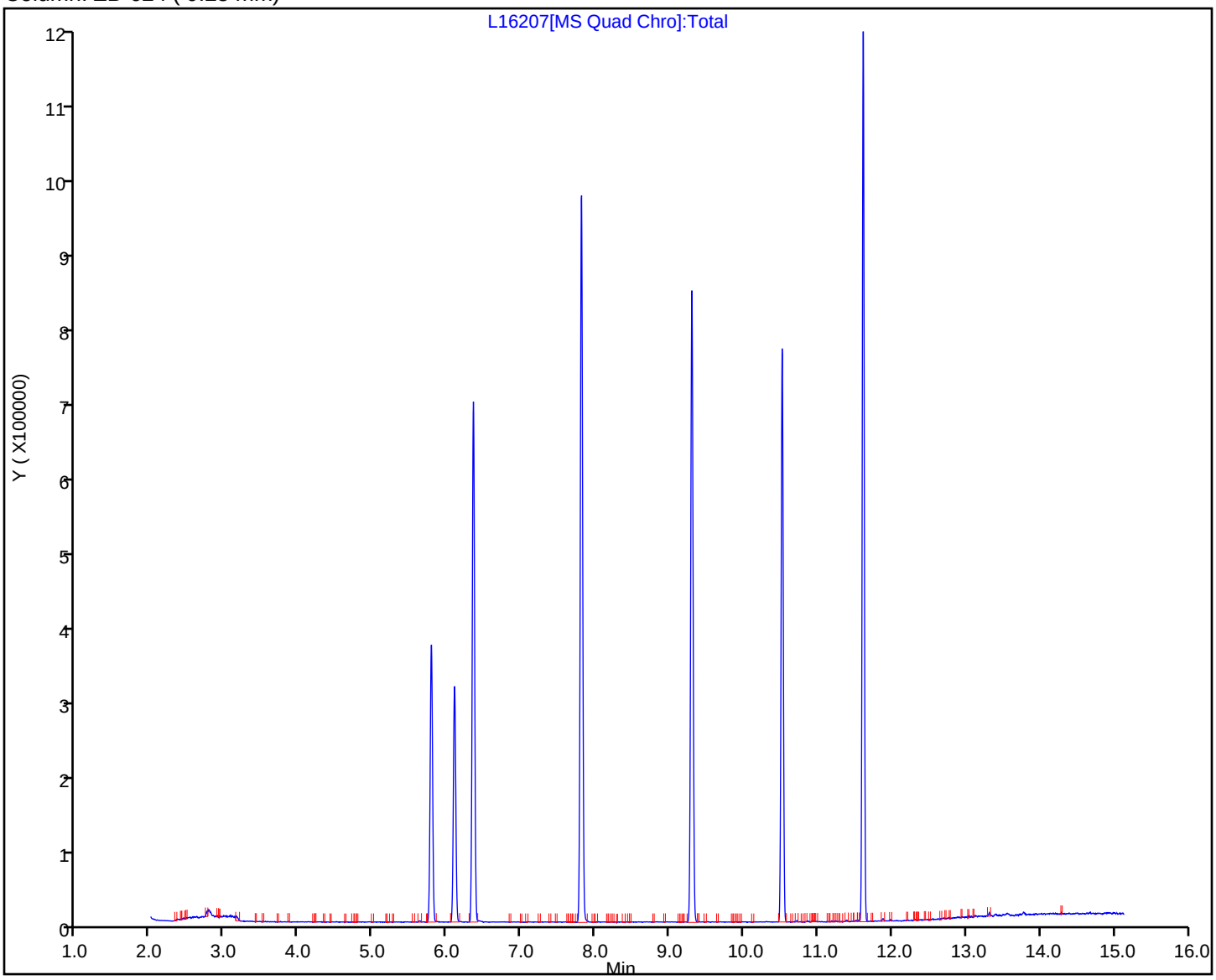
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: Lab Sample ID: LCS 480-608629/6

Matrix: Water Lab File ID: L16205.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/13/2021 22:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	26.7		1.0	
71-55-6	1,1,1-Trichloroethane	30.2		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	26.6		1.0	
79-00-5	1,1,2-Trichloroethane	27.2		1.0	
75-34-3	1,1-Dichloroethane	28.0		1.0	
75-35-4	1,1-Dichloroethene	30.4		1.0	
96-18-4	1,2,3-Trichloropropane	26.1		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	27.5		1.0	
95-50-1	1,2-Dichlorobenzene	24.7		1.0	
107-06-2	1,2-Dichloroethane	26.7		1.0	
78-87-5	1,2-Dichloropropane	29.7		1.0	
106-46-7	1,4-Dichlorobenzene	24.5		1.0	
78-93-3	2-Butanone (MEK)	149		10	
591-78-6	2-Hexanone	142		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	136		5.0	
67-64-1	Acetone	144		10	
107-13-1	Acrylonitrile	275		5.0	
71-43-2	Benzene	28.8		1.0	
74-97-5	Chlorobromomethane	27.7		1.0	
75-27-4	Bromodichloromethane	28.5		1.0	
75-25-2	Bromoform	26.7		1.0	
74-83-9	Bromomethane	29.2		1.0	
75-15-0	Carbon disulfide	29.5		1.0	
56-23-5	Carbon tetrachloride	30.8		1.0	
108-90-7	Chlorobenzene	25.8		1.0	
124-48-1	Dibromochloromethane	27.1		1.0	
75-00-3	Chloroethane	27.8		1.0	
67-66-3	Chloroform	26.2		1.0	
74-87-3	Chloromethane	27.5		1.0	
156-59-2	cis-1,2-Dichloroethene	28.0		1.0	
10061-01-5	cis-1,3-Dichloropropene	29.8		1.0	
74-95-3	Dibromomethane	27.6		1.0	
100-41-4	Ethylbenzene	27.0		1.0	
106-93-4	1,2-Dibromoethane	26.5		1.0	
74-88-4	Iodomethane	26.3		1.0	
75-09-2	Methylene Chloride	25.3		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Client Sample ID: Lab Sample ID: LCS 480-608629/6

Matrix: Water Lab File ID: L16205.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/13/2021 22:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 608629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	27.1		1.0	
127-18-4	Tetrachloroethene	26.6		1.0	
75-69-4	Trichlorofluoromethane	27.1		1.0	
79-01-6	Trichloroethene	29.2		1.0	
108-88-3	Toluene	26.3		1.0	
156-60-5	trans-1,2-Dichloroethene	27.9		1.0	
10061-02-6	trans-1,3-Dichloropropene	28.0		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	26.1		1.0	
108-05-4	Vinyl acetate	57.5		5.0	
75-01-4	Vinyl chloride	31.3		1.0	
1330-20-7	Xylenes, Total	52.7		2.0	
179601-23-1	m,p-Xylene	26.6		2.0	
95-47-6	o-Xylene	26.1		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
2037-26-5	Toluene-d8 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16205.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 13-Dec-2021 22:45:33 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0103021-006
Operator ID: wd Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Dec-2021 09:13:45 Calib Date: 08-Dec-2021 22:50:15
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20211208-102927.b\L16102.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1673

First Level Reviewer: izquierdoo Date: 14-Dec-2021 09:20:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.350	6.351	0.000	99	137007	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.299	9.299	0.000	83	689777	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.614	11.614	0.000	93	410023	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.781	5.781	0.000	93	248638	25.0	26.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.096	6.096	0.000	97	247478	25.0	25.9	
$ 6 Toluene-d8 (Surr)	98	7.807	7.810	-0.003	93	857887	25.0	25.8	
$ 7 4-Bromofluorobenzene (Surr)	174	10.517	10.518	-0.001	93	323612	25.0	25.4	
10 Dichlorodifluoromethane	85	2.084	2.087	-0.003	99	253877	25.0	32.1	
13 Chloromethane	50	2.344	2.344	0.000	99	213510	25.0	27.5	
14 Vinyl chloride	62	2.473	2.473	0.000	98	262053	25.0	31.3	
15 Butadiene	54	2.489	2.492	-0.003	93	242051	25.0	32.5	
18 Bromomethane	94	2.855	2.862	-0.007	92	249734	25.0	29.2	
19 Chloroethane	64	2.952	2.952	0.000	99	186460	25.0	27.8	
21 Trichlorofluoromethane	101	3.183	3.186	-0.003	96	384069	25.0	27.1	
20 Dichlorofluoromethane	67	3.183	3.190	-0.007	97	372981	25.0	27.2	
26 Ethyl ether	59	3.476	3.476	0.000	89	168708	25.0	25.4	
28 Acrolein	56	3.678	3.678	0.000	99	174897	125.0	135.9	
29 112TCTFE	101	3.698	3.698	0.000	91	209270	25.0	33.4	
30 1,1-Dichloroethene	96	3.727	3.730	-0.003	96	200291	25.0	30.4	
31 Acetone	43	3.823	3.823	0.000	100	431233	125.0	144.4	
33 Iodomethane	142	3.910	3.910	0.000	99	410778	25.0	26.3	
35 Carbon disulfide	76	3.965	3.964	0.001	99	642036	25.0	29.5	
37 3-Chloro-1-propene	41	4.080	4.080	0.000	86	257898	25.0	26.6	
38 Methyl acetate	43	4.096	4.093	0.003	97	408076	50.0	54.5	
39 Methylene Chloride	84	4.219	4.219	0.001	86	228878	25.0	25.3	
40 2-Methyl-2-propanol	59	4.315	4.315	0.000	97	370430	250.0	303.2	
41 Methyl tert-butyl ether	73	4.399	4.395	0.004	94	632339	25.0	28.6	
42 trans-1,2-Dichloroethene	96	4.437	4.437	0.000	95	240143	25.0	27.9	
44 Acrylonitrile	53	4.476	4.476	0.000	98	1080615	250.0	275.0	
47 Hexane	57	4.598	4.598	0.000	91	251398	25.0	32.3	
50 1,1-Dichloroethane	63	4.833	4.833	0.000	96	361122	25.0	28.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.836	4.836	0.000	97	869776	50.0	57.5	
56 2,2-Dichloropropane	77	5.328	5.328	0.000	90	248585	25.0	28.8	
58 cis-1,2-Dichloroethene	96	5.354	5.354	0.000	80	264445	25.0	28.0	
57 2-Butanone (MEK)	43	5.357	5.354	0.003	98	695869	125.0	148.6	
60 Chlorobromomethane	128	5.585	5.585	0.000	82	151630	25.0	27.7	
61 Tetrahydrofuran	42	5.598	5.598	0.000	83	180206	50.0	57.9	
62 Chloroform	83	5.630	5.630	0.000	91	407623	25.0	26.2	
64 1,1,1-Trichloroethane	97	5.772	5.768	0.004	97	371527	25.0	30.2	
65 Cyclohexane	56	5.791	5.788	0.003	86	306215	25.0	34.7	
67 1,1-Dichloropropene	75	5.907	5.907	0.000	94	297864	25.0	31.5	
66 Carbon tetrachloride	117	5.907	5.907	0.000	95	334317	25.0	30.8	
69 Isobutyl alcohol	43	6.010	6.009	0.001	92	376858	625.0	780.5	
70 Benzene	78	6.112	6.112	0.000	96	855251	25.0	28.8	
72 1,2-Dichloroethane	62	6.164	6.164	0.000	97	300327	25.0	26.7	
73 n-Heptane	43	6.209	6.209	0.000	87	226037	25.0	30.1	
75 Trichloroethene	95	6.675	6.678	-0.003	94	244475	25.0	29.2	
76 Methylcyclohexane	83	6.807	6.807	0.000	85	374217	25.0	33.8	
77 1,2-Dichloropropane	63	6.920	6.916	0.004	93	195302	25.0	29.7	
81 1,4-Dioxane	88	7.032	7.029	0.003	89	57314	500.0	579.2	
82 Dibromomethane	93	7.061	7.061	0.000	92	165481	25.0	27.6	
83 Dichlorobromomethane	83	7.180	7.180	0.000	99	297356	25.0	28.5	
84 2-Chloroethyl vinyl ether	63	7.402	7.398	0.004	93	150441	25.0	30.7	
85 cis-1,3-Dichloropropene	75	7.579	7.575	0.004	96	341692	25.0	29.8	
87 4-Methyl-2-pentanone (MIBK)	43	7.685	7.681	0.004	95	1360247	125.0	135.9	
88 Toluene	92	7.874	7.874	0.000	98	565592	25.0	26.3	
90 Ethyl methacrylate	69	8.109	8.109	0.000	86	301535	25.0	30.1	
91 trans-1,3-Dichloropropene	75	8.119	8.119	0.000	97	328199	25.0	28.0	
93 1,1,2-Trichloroethane	83	8.321	8.321	0.000	91	179340	25.0	27.2	
94 Tetrachloroethene	166	8.411	8.408	0.003	98	285006	25.0	26.6	
95 1,3-Dichloropropane	76	8.492	8.492	0.000	94	355080	25.0	26.3	
96 2-Hexanone	43	8.505	8.501	0.004	95	972402	125.0	142.2	
98 Chlorodibromomethane	129	8.743	8.739	0.004	88	260025	25.0	27.1	
101 Ethylene Dibromide	107	8.874	8.874	0.000	98	256058	25.0	26.5	
103 Chlorobenzene	112	9.328	9.331	-0.003	98	672663	25.0	25.8	
104 Ethylbenzene	91	9.389	9.389	0.000	97	1065080	25.0	27.0	
105 1,1,1,2-Tetrachloroethane	131	9.408	9.408	0.000	95	259588	25.0	26.7	
106 m-Xylene & p-Xylene	106	9.505	9.505	0.000	98	430520	25.0	26.6	
107 o-Xylene	106	9.948	9.945	0.003	95	424631	25.0	26.1	
109 Styrene	104	9.971	9.971	0.000	95	712033	25.0	27.1	
110 Bromoform	173	10.251	10.251	0.001	98	195004	25.0	26.7	
111 Isopropylbenzene	105	10.302	10.302	0.000	95	1135174	25.0	27.8	
112 1,1,2,2-Tetrachloroethane	83	10.685	10.681	0.004	97	341545	25.0	26.6	
113 Bromobenzene	156	10.688	10.688	0.000	87	313174	25.0	24.9	
114 N-Propylbenzene	91	10.717	10.717	0.000	98	1282140	25.0	28.1	
115 trans-1,4-Dichloro-2-butene	53	10.723	10.723	0.000	75	85162	25.0	26.1	
116 1,2,3-Trichloropropane	110	10.736	10.736	0.000	86	123884	25.0	26.1	
117 2-Chlorotoluene	126	10.845	10.845	0.000	98	287963	25.0	26.7	
118 1,3,5-Trimethylbenzene	105	10.874	10.874	0.000	96	949145	25.0	26.9	
119 4-Chlorotoluene	91	10.948	10.948	0.000	96	757405	25.0	26.4	
120 tert-Butylbenzene	134	11.189	11.189	0.000	91	226649	25.0	27.2	
121 1,2,4-Trimethylbenzene	105	11.241	11.241	0.000	96	975639	25.0	27.0	
122 sec-Butylbenzene	105	11.389	11.389	0.000	93	1235206	25.0	28.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
123 4-Isopropyltoluene	119	11.511	11.511	0.000	97	1101621	25.0	27.6	
124 1,3-Dichlorobenzene	146	11.553	11.556	-0.003	98	596096	25.0	24.9	
126 1,4-Dichlorobenzene	146	11.633	11.633	0.000	96	606166	25.0	24.5	
127 n-Butylbenzene	91	11.881	11.881	0.000	97	933870	25.0	28.0	
128 1,2-Dichlorobenzene	146	11.977	11.977	0.000	99	593367	25.0	24.7	
129 1,2-Dibromo-3-Chloropropane	75	12.656	12.656	0.000	90	75391	25.0	27.5	
130 1,2,4-Trichlorobenzene	180	13.312	13.312	0.000	94	448949	25.0	24.6	
131 Hexachlorobutadiene	225	13.402	13.402	0.000	97	200726	25.0	25.7	
132 Naphthalene	128	13.556	13.556	0.000	96	1326944	25.0	26.1	
133 1,2,3-Trichlorobenzene	180	13.778	13.778	0.000	96	432926	25.0	24.7	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00218	Amount Added: 12.50	Units: uL	
GAS CORP mix_00484	Amount Added: 12.50	Units: uL	
L_8260_SURR_00032	Amount Added: 2.00	Units: uL	Run Reagent
L_8260_IS_00034	Amount Added: 2.00	Units: uL	Run Reagent

Report Date: 14-Dec-2021 09:20:28 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20211213-103021.b\L16205.D

Injection Date: 13-Dec-2021 22:45:33 Instrument ID: HP5977L

Lims ID: LCS

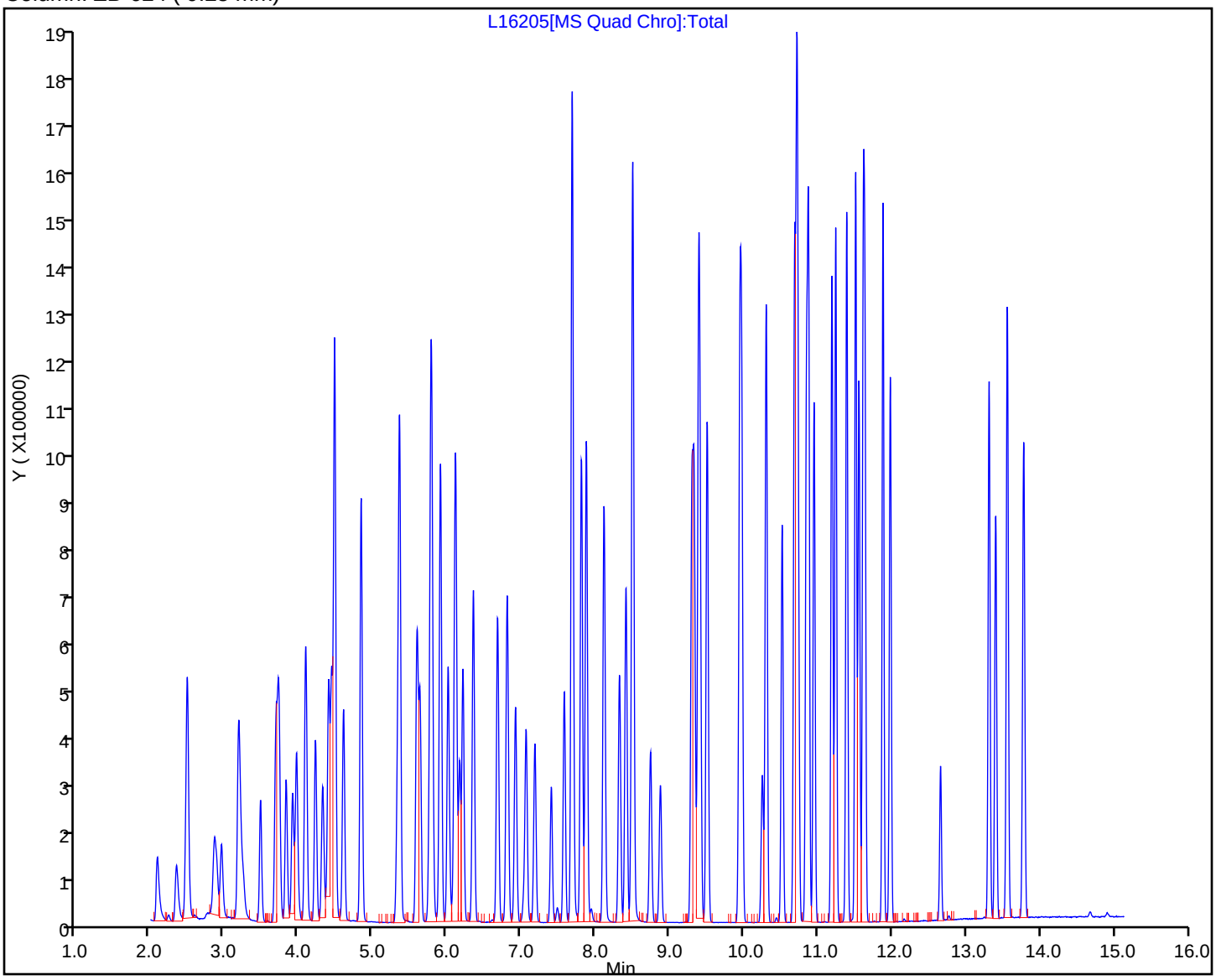
Client ID:

Operator ID: wd ALS Bottle#: 0 Worklist Smp#: 6

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: HP5977L Start Date: 12/08/2021 15:28

Analysis Batch Number: 608018 End Date: 12/09/2021 00:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-608018/6		12/08/2021 15:28	1	L16082.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/8		12/08/2021 16:14	1	L16084.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/9		12/08/2021 16:36	1	L16085.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/10		12/08/2021 16:58	1	L16086.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/11		12/08/2021 17:21	1	L16087.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/12		12/08/2021 17:42	1	L16088.D	ZB-624 (30) VOA 0.25(mm)
ICIS 480-608018/13		12/08/2021 18:04	1	L16089.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/14		12/08/2021 18:25	1	L16090.D	ZB-624 (30) VOA 0.25(mm)
IC 480-608018/15		12/08/2021 18:47	1	L16091.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/08/2021 19:32	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/20		12/08/2021 20:38	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/21		12/08/2021 21:00	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/22		12/08/2021 21:22	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/23		12/08/2021 21:44	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/24		12/08/2021 22:06	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/25		12/08/2021 22:28	1		ZB-624 (30) VOA 0.25(mm)
IC 480-608018/26		12/08/2021 22:50	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/08/2021 23:34	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-608018/29		12/08/2021 23:57	1	L16105.D	ZB-624 (30) VOA 0.25(mm)
ICV 480-608018/30		12/09/2021 00:19	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: HP5977L Start Date: 12/13/2021 21:40

Analysis Batch Number: 608629 End Date: 12/14/2021 07:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-608629/3		12/13/2021 21:40	1	L16202.D	ZB-624 (30) VOA 0.25(mm)
CCVIS 480-608629/4		12/13/2021 22:02	1	L16203.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-608629/5		12/13/2021 22:23	1	L16204.D	ZB-624 (30) VOA 0.25(mm)
LCS 480-608629/6		12/13/2021 22:45	1	L16205.D	ZB-624 (30) VOA 0.25(mm)
MB 480-608629/8		12/13/2021 23:29	1	L16207.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/13/2021 23:51	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 00:13	40		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 00:35	200		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 00:57	125		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 01:19	800		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 01:41	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 02:03	20		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 02:25	10		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 02:47	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 03:09	5		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 03:31	2		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 03:52	4		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 04:14	5		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 04:36	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 04:58	1		ZB-624 (30) VOA 0.25(mm)
480-193369-1	MW-1A	12/14/2021 05:20	1	L16223.D	ZB-624 (30) VOA 0.25(mm)
480-193369-2	MW-2A	12/14/2021 05:41	1	L16224.D	ZB-624 (30) VOA 0.25(mm)
480-193369-3	MW-2B	12/14/2021 06:04	1	L16225.D	ZB-624 (30) VOA 0.25(mm)
480-193369-4	MW-1B	12/14/2021 06:25	1	L16226.D	ZB-624 (30) VOA 0.25(mm)
480-193369-5	DUP MW-1B	12/14/2021 06:47	1	L16227.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 07:09	800		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		12/14/2021 07:31	800		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608018 Batch Start Date: 12/08/21 15:28 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 CORP mix 00218	BFB_WRK 00130	GAS CORP mix 00484	L_8260_IS 00034
BFB 480-608018/6		8260C		1 uL	1 uL		1 uL		
IC 480-608018/8		8260C		5 mL	5 mL	0.4 uL		0.4 uL	2 uL
IC 480-608018/9		8260C		5 mL	5 mL	1 uL		1 uL	2 uL
IC 480-608018/10		8260C		5 mL	5 mL	2 uL		2 uL	2 uL
IC 480-608018/11		8260C		5 mL	5 mL	5 uL		5 uL	2 uL
IC 480-608018/12		8260C		5 mL	5 mL	5 uL		5 uL	2 uL
ICIS 480-608018/13		8260C		5 mL	5 mL	12.5 uL		12.5 uL	2 uL
IC 480-608018/14		8260C		5 mL	5 mL	25 uL		25 uL	2 uL
IC 480-608018/15		8260C		5 mL	5 mL	50 uL		50 uL	2 uL
ICV 480-608018/29		8260C		5 mL	5 mL				2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	L_8260_SURR 00032	SS 8260 CORP 00097	SS GAS CORP 00435			
BFB 480-608018/6		8260C							
IC 480-608018/8		8260C		2 uL					
IC 480-608018/9		8260C		2 uL					
IC 480-608018/10		8260C		2 uL					
IC 480-608018/11		8260C		2 uL					
IC 480-608018/12		8260C		2 uL					
ICIS 480-608018/13		8260C		2 uL					
IC 480-608018/14		8260C		2 uL					
IC 480-608018/15		8260C		2 uL					
ICV 480-608018/29		8260C		2 uL	12.5 uL	12.5 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608018 Batch Start Date: 12/08/21 15:28 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608629 Batch Start Date: 12/13/21 21:40 Batch Analyst: LaPointe, Cody R

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	2 MTP 2019 00038	3 MTP 2019 00038	3_MCP_Add_WRK 00344
BFB 480-608629/3		8260C		1 uL	1 uL				
CCVIS 480-608629/4		8260C		5 mL	5 mL				
CCV 480-608629/5		8260C		5 mL	5 mL		12.5 uL	12.5 uL	12.5 uL
LCS 480-608629/6		8260C		5 mL	5 mL				
MB 480-608629/8		8260C		5 mL	5 mL				
480-193369-M-1	MW-1A	8260C	T	5 mL	5 mL	<2 SU			
480-193369-M-2	MW-2A	8260C	T	5 mL	5 mL	<2 SU			
480-193369-M-3	MW-2B	8260C	T	5 mL	5 mL	<2 SU			
480-193369-M-4	MW-1B	8260C	T	5 mL	5 mL	<2 SU			
480-193369-M-5	DUP @ MW-1B	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260 CORP mix 00218	ADD CORP mix 00118	BFB_WRK 00130	GAS CORP mix 00484	L_8260_IS 00034	L_8260_SURR 00032
BFB 480-608629/3		8260C				1 uL			
CCVIS 480-608629/4		8260C		12.5 uL			12.5 uL	2 uL	2 uL
CCV 480-608629/5		8260C			12.5 uL			2 uL	2 uL
LCS 480-608629/6		8260C		12.5 uL			12.5 uL	2 uL	2 uL
MB 480-608629/8		8260C						2 uL	2 uL
480-193369-M-1	MW-1A	8260C	T					2 uL	2 uL
480-193369-M-2	MW-2A	8260C	T					2 uL	2 uL
480-193369-M-3	MW-2B	8260C	T					2 uL	2 uL
480-193369-M-4	MW-1B	8260C	T					2 uL	2 uL
480-193369-M-5	DUP @ MW-1B	8260C	T					2 uL	2 uL

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608629 Batch Start Date: 12/13/21 21:40 Batch Analyst: LaPointe, Cody R

Batch Method: 8260C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG No.: 193337

Project: Towslee Landfill - Baseline

Client Sample ID	Lab Sample ID
MW-1A	480-193369-1
MW-2A	480-193369-2
MW-2B	480-193369-3
MW-1B	480-193369-4
DUP MW-1B	480-193369-5

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-1A
Lab Sample ID: 480-193369-1
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/10/2021 08:45
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	1.1	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.080	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.023	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	49.6	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	1.0	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	11.1	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.13	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.2	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	12.3	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	169	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-2A
Lab Sample ID: 480-193369-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/10/2021 07:45
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	1.1	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.44	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.20	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	84.1	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	9.5	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	17.6	0.20		mg/L			1	6010C
7439-96-5	Manganese	11.4	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	9.0	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	13.5	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	282	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-2B
Lab Sample ID: 480-193369-3
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/10/2021 08:05
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.32	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	1.0	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.20	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	175	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.34	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	36.7	0.20		mg/L			1	6010C
7439-96-5	Manganese	4.5	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.0	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	40.5	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.034	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	588	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-1B
Lab Sample ID: 480-193369-4
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/09/2021 12:20
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.20	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.74	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	26.8	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.63	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	6.0	0.20		mg/L			1	6010C
7439-96-5	Manganese	5.6	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	ND	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	6.0	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.046	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	91.6	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP MW-1B
Lab Sample ID: 480-193369-5
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/09/2021 13:45
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.32	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	27.0	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.19	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	6.1	0.20		mg/L			1	6010C
7439-96-5	Manganese	1.2	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	ND	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	6.2	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.019	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	92.4	0.50		mg/L			1	SM 2340B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

ICV Source: MEI_MSS_ICV_00089 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00206

Analyte	ICV 480-609081/5 12/15/2021 19:07				CCV 480-609081/15 12/15/2021 19:46				CCV 480-609081/21 12/15/2021 20:43			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	35.97		37.5	96	49.66		50.0	99	49.77		50.0	100
Antimony	0.780		0.750	104	0.976		1.00	98	1.02		1.00	102
Arsenic	0.728		0.750	97	0.991		1.00	99	1.00		1.00	100
Barium	0.722		0.750	96	0.993		1.00	99	0.999		1.00	100
Beryllium	0.731		0.750	97	1.02		1.00	102	0.998		1.00	100
Boron	0.738		0.750	98	1.00		1.00	100	1.06		1.00	106
Cadmium	0.729		0.750	97	0.970		1.00	97	1.03		1.00	103
Calcium	36.76		37.5	98	50.09		50.0	100	50.52		50.0	101
Chromium	0.734		0.750	98	1.01		1.00	101	1.01		1.00	101
Cobalt	0.710		0.750	95	0.982		1.00	98	1.00		1.00	100
Copper	0.692		0.750	92	0.990		1.00	99	0.987		1.00	99
Iron	37.23		37.5	99	50.44		50.0	101	49.82		50.0	100
Lead	0.727		0.750	97	1.01		1.00	101	0.983		1.00	98
Magnesium	36.28		37.5	97	49.66		50.0	99	50.07		50.0	100
Manganese	0.736		0.750	98	1.01		1.00	101	1.00		1.00	100
Nickel	0.721		0.750	96	1.01		1.00	101	0.985		1.00	99
Potassium	35.94		37.5	96	49.86		50.0	100	49.25		50.0	98
Selenium	0.727		0.750	97	0.974		1.00	97	1.01		1.00	101
Silver	0.718		0.750	96	0.996		1.00	100	1.01		1.00	101
Sodium	35.77		37.5	95	50.30		50.0	101	48.93		50.0	98
Thallium	0.731		0.750	97	1.02		1.00	102	0.991		1.00	99
Vanadium	0.728		0.750	97	1.01		1.00	101	0.999		1.00	100
Zinc	0.722		0.750	96	1.02		1.00	102	1.05		1.00	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

ICV Source: MEI_MSS_ICV_00089 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00206

Analyte	CCV 480-609081/33 12/15/2021 21:30				CCV 480-609081/45 12/15/2021 22:17							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	49.96		50.0	100	50.68		50.0	101				
Antimony	1.04		1.00	104	1.04		1.00	104				
Arsenic	1.01		1.00	101	1.01		1.00	101				
Barium	1.01		1.00	101	1.02		1.00	102				
Beryllium	0.996		1.00	100	0.998		1.00	100				
Boron	1.07		1.00	107	1.07		1.00	107				
Cadmium	1.04		1.00	104	1.04		1.00	104				
Calcium	50.68		50.0	101	50.79		50.0	102				
Chromium	1.02		1.00	102	1.02		1.00	102				
Cobalt	1.00		1.00	100	1.00		1.00	100				
Copper	0.985		1.00	98	0.989		1.00	99				
Iron	50.05		50.0	100	49.56		50.0	99				
Lead	0.975		1.00	97	0.976		1.00	98				
Magnesium	50.12		50.0	100	50.19		50.0	100				
Manganese	0.998		1.00	100	0.999		1.00	100				
Nickel	0.983		1.00	98	0.982		1.00	98				
Potassium	49.39		50.0	99	49.45		50.0	99				
Selenium	1.02		1.00	102	1.01		1.00	101				
Silver	1.01		1.00	101	1.01		1.00	101				
Sodium	48.97		50.0	98	49.64		50.0	99				
Thallium	0.984		1.00	98	0.985		1.00	99				
Vanadium	0.999		1.00	100	1.00		1.00	100				
Zinc	1.05		1.00	105	1.06		1.00	106				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

ICV Source: MEI_10_CCVL_00409 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00409

Analyte	ICVL 480-609081/7 12/15/2021 19:14				CCVL 480-609081/17 12/15/2021 20:04				CCVL 480-609081/23 12/15/2021 20:51			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	ND		0.200	95	0.172	J	0.200	86	0.174	J	0.200	87
Antimony	0.0203		0.0200	101	0.0208		0.0200	104	0.0217		0.0200	108
Arsenic	0.0150		0.0150	100	0.0150		0.0150	100	0.0126	J	0.0150	84
Barium	0.00204		0.00200	102	0.00201		0.00200	101	0.00204		0.00200	102
Beryllium	0.00213		0.00200	107	0.00201		0.00200	101	0.00207		0.00200	104
Boron	ND		0.0200	92	0.0177	J	0.0200	89	0.0181	J	0.0200	90
Cadmium	0.00209		0.00200	105	0.00211		0.00200	106	0.00209		0.00200	105
Calcium	0.505		0.500	101	0.499	J	0.500	100	0.503		0.500	101
Chromium	ND		0.00400	97	0.00380	J	0.00400	95	0.00374	J	0.00400	94
Cobalt	ND		0.00400	94	0.00384	J	0.00400	96	0.00384	J	0.00400	96
Copper	ND		0.0100	97	0.00966	J	0.0100	97	0.00988	J	0.0100	99
Iron	ND		0.0500	92	0.0495	J	0.0500	99	0.0454	J	0.0500	91
Lead	ND		0.0100	98	0.00980	J	0.0100	98	0.00843	J	0.0100	84
Magnesium	ND		0.200	97	0.193	J	0.200	97	0.195	J	0.200	98
Manganese	0.00304		0.00300	101	0.00307		0.00300	102	0.00304		0.00300	101
Nickel	ND		0.0100	95	0.00942	J	0.0100	94	0.00947	J	0.0100	95
Potassium	ND		0.500	86	0.386	J	0.500	77	0.371	J	0.500	74
Selenium	ND		0.0250	91	0.0207	J	0.0250	83	0.0216	J	0.0250	86
Silver	ND		0.00600	90	0.00549	J	0.00600	92	0.00558	J	0.00600	93
Sodium	ND		1.01	94	0.942	J	1.01	94	0.953	J	1.01	95
Thallium	0.0207		0.0200	103	0.0186	J	0.0200	93	0.0190	J	0.0200	95
Vanadium	0.00511		0.00500	102	0.00507		0.00500	101	0.00511		0.00500	102
Zinc	ND		0.0100	98	0.00979	J	0.0100	98	0.0101		0.0100	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

ICV Source: MEI_10_CCVL_00409 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00409

Analyte	CCVL 480-609081/35 12/15/2021 21:38				CCVL 480-609081/47 12/15/2021 22:25							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.181	J	0.200	91	0.190	J	0.200	95				
Antimony	0.0223		0.0200	112	0.0223		0.0200	111				
Arsenic	0.0150		0.0150	100	0.0146	J	0.0150	97				
Barium	0.00204		0.00200	102	0.00203		0.00200	102				
Beryllium	0.00197	J	0.00200	99	0.00194	J	0.00200	97				
Boron	0.0180	J	0.0200	90	0.0178	J	0.0200	89				
Cadmium	0.00214		0.00200	107	0.00200		0.00200	100				
Calcium	0.505		0.500	101	0.505		0.500	101				
Chromium	0.00378	J	0.00400	95	0.00384	J	0.00400	96				
Cobalt	0.00375	J	0.00400	94	0.00383	J	0.00400	96				
Copper	0.00993	J	0.0100	99	0.00956	J	0.0100	96				
Iron	0.0430	J	0.0500	86	0.0487	J	0.0500	97				
Lead	0.0102		0.0100	102	0.00984	J	0.0100	98				
Magnesium	0.198	J	0.200	99	0.193	J	0.200	97				
Manganese	0.00307		0.00300	102	0.00301		0.00300	100				
Nickel	0.00924	J	0.0100	92	0.00950	J	0.0100	95				
Potassium	0.394	J	0.500	79	0.382	J	0.500	76				
Selenium	0.0230	J	0.0250	92	0.0194	J	0.0250	78				
Silver	0.00535	J	0.00600	89	0.00579	J	0.00600	97				
Sodium	0.943	J	1.01	94	0.946	J	1.01	94				
Thallium	0.0180	J	0.0200	90	0.0193	J	0.0200	96				
Vanadium	0.00514		0.00500	103	0.00501		0.00500	100				
Zinc	0.00967	J	0.0100	97	0.0103		0.0100	103				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

ICV Source: MEH_HG1_WKG_02731 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02731

Analyte	ICV 480-609041/8 12/15/2021 15:27				ICVL 480-609041/10 12/15/2021 15:30				CCV 480-609041/35 12/15/2021 16:02			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00298		0.00300	99	ND		0.000200	95	0.00200		0.00200	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

ICV Source: MEH_HG1_WKG_02731 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02731

Analyte	CCV 480-609041/47 12/15/2021 16:18				CCV 480-609041/59 12/15/2021 16:34				CCVL 480-609041/73 12/15/2021 16:52			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00199		0.00200	100	0.00201		0.00200	101	0.000190	J	0.000200	95

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	ICB 480-609081/6 12/15/2021 19:11		CCB 480-609081/16 12/15/2021 19:50		CCB 480-609081/22 12/15/2021 20:47		CCB 480-609081/34 12/15/2021 21:34	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Boron	0.020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	CCB 480-609081/46 12/15/2021 22:21							
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND							
Antimony	0.020	ND							
Arsenic	0.015	ND							
Barium	0.0020	ND							
Beryllium	0.0020	ND							
Boron	0.020	ND							
Cadmium	0.0020	ND							
Calcium	0.50	ND							
Chromium	0.0040	ND							
Cobalt	0.0040	ND							
Copper	0.010	ND							
Iron	0.050	ND							
Lead	0.010	ND							
Magnesium	0.20	ND							
Manganese	0.0030	ND							
Nickel	0.010	ND							
Potassium	0.50	ND							
Selenium	0.025	ND							
Silver	0.0060	ND							
Sodium	1.0	ND							
Thallium	0.020	ND							
Vanadium	0.0050	ND							
Zinc	0.010	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	ICB 480-609041/9 12/15/2021 15:28		CCB 480-609041/36 12/15/2021 16:04		CCB 480-609041/48 12/15/2021 16:19		CCB 480-609041/60 12/15/2021 16:35	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Concentration Units: mg/L Lab Sample ID: MB 480-608816/1-A

Instrument Code: ICAP1 Batch No.: 609081

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-42-8	Boron	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	ND			6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Concentration Units: mg/L Lab Sample ID: MB 480-608976/1-A

Instrument Code: LEEMAN5 Batch No.: 609041

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Lab Sample ID: ICSA 480-609081/8 Instrument ID: ICAP1

Lab File ID: I1121521B-2.asc ICS Source: MEI_MSS_ICSA_00035

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**506**	**101**
Antimony		**0.0003**	
Arsenic		**-0.0132**	
Barium	**0.0120**	**0.0139**	
Beryllium		**0.0000**	
Boron		**-0.0013**	
Cadmium		**0.0006**	
Calcium	**500**	**475**	**95**
Chromium		**0.0021**	
Cobalt		**-0.0003**	
Copper		**0.0004**	
Iron	**200**	**194**	**97**
Lead		**0.0025**	
Magnesium	**500**	**516**	**103**
Manganese		**-0.0010**	
Nickel		**0.0025**	
Potassium		**0.0581**	
Selenium		**0.0047**	
Silver		**-0.0013**	
Sodium		**0.0452**	
Thallium		**-0.0008**	
Vanadium		**-0.0017**	
Zinc		**0.0011**	
Lithium		*0.0013*	
Silicon		*0.0186*	
Sulfur		*-0.238*	
Tin		*-0.0035*	
Titanium		*0.0015*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Lab Sample ID: ICSAB 480-609081/9 Instrument ID: ICAP1

Lab File ID: I1121521B-2.asc ICS Source: MEI_MSS_ICSAB_00030

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Aluminum	**500**	**495**	**99**
Antimony	**0.500**	**0.506**	**101**
Arsenic	**0.500**	**0.490**	**98**
Barium	**0.513**	**0.524**	**102**
Beryllium	**0.250**	**0.249**	**100**
Boron	**5.00**	**4.82**	**96**
Cadmium	**0.500**	**0.514**	**103**
Calcium	**500**	**466**	**93**
Chromium	**0.500**	**0.489**	**98**
Cobalt	**0.500**	**0.489**	**98**
Copper	**0.500**	**0.511**	**102**
Iron	**200**	**188**	**94**
Lead	**0.500**	**0.504**	**101**
Magnesium	**500**	**497**	**99**
Manganese	**0.501**	**0.487**	**97**
Nickel	**0.501**	**0.495**	**99**
Potassium	**5.00**	**5.23**	**105**
Selenium	**0.500**	**0.492**	**98**
Silver	**0.500**	**0.537**	**107**
Sodium	**5.00**	**5.20**	**104**
Thallium	**0.500**	**0.491**	**98**
Vanadium	**0.500**	**0.491**	**98**
Zinc	**0.501**	**0.463**	**92**
Lithium		*0.0006*	
Molybdenum	*0.500*	*0.480*	*96*
Silicon	*5.00*	*4.85*	*97*
Strontium	*0.500*	*0.506*	*101*
Sulfur		*-0.257*	
Tin	*0.500*	*0.489*	*98*
Titanium	*0.500*	*0.499*	*100*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-1A MS
Lab ID: 480-193369-1 MS
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG No.: 193337
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.00662		ND		0.00667	99	80-120		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MW-1A MSD
Lab ID: 480-193369-1 MSD
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG No.: 193337
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.00668		0.00667	100	80-120	1	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-608816/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

Sample Matrix: Water LCS Source: MED_02_W2_00067

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10.0	9.94		99	80	120		6010C
Antimony	0.200	0.217		108	80	120		6010C
Arsenic	0.200	0.209		104	80	120		6010C
Barium	0.200	0.213		107	80	120		6010C
Beryllium	0.200	0.207		103	80	120		6010C
Boron	0.200	0.207		104	80	120		6010C
Cadmium	0.200	0.205		102	80	120		6010C
Calcium	10.0	10.01		100	80	120		6010C
Chromium	0.200	0.199		99	80	120		6010C
Cobalt	0.200	0.193		97	80	120		6010C
Copper	0.200	0.193		97	80	120		6010C
Iron	10.0	10.03		100	80	120		6010C
Lead	0.200	0.194		97	80	120		6010C
Magnesium	10.0	10.16		102	80	120		6010C
Manganese	0.200	0.202		101	80	120		6010C
Nickel	0.200	0.191		95	80	120		6010C
Potassium	10.0	9.61		96	80	120		6010C
Selenium	0.200	0.195		98	80	120		6010C
Silver	0.0500	0.0486		97	80	120		6010C
Sodium	10.0	9.61		96	80	120		6010C
Thallium	0.200	0.198		99	80	120		6010C
Vanadium	0.200	0.197		99	80	120		6010C
Zinc	0.200	0.206		103	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-608976/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_02731

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00648		97	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 480-608976/3-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_02731

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.00658		0.00667	99	80-120	2	20		7470A

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-193369-1

SDG No: 193337

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193369-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	ND		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: ICAP1

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: ICAP1

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A MDL Date: 06/21/2021 17:21

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A XMDL Date: 06/21/2021 17:23

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2340B MDL Date: 08/28/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Hardness as calcium carbonate		0.5	0.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2340B XMDL Date: 08/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Hardness as calcium carbonate		0.5	0.1

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Ce	Co	Cr	Cu	Fe	K
Aluminum	308.215														
Antimony	206.833											0.005976		0.000013	
Arsenic	189.042		-0.00003300									-0.011195			
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802			0.003343										0.000001	
Calcium	317.933														
Chromium	267.716		0.000013											-0.000007	
Cobalt	228.616														
Copper	327.396							0.000008							
Iron	259.940														
Lead	220.353		-0.000031										0.000143	0.000041	
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610		0.000006											0.000003	
Molybdenum	202.030														
Nickel	231.604													0.000010	
Potassium	766.490														
Selenium	196.090		-0.000019												
Silicon	288.158														
Silver	328.068									-0.006683					
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856										0.004598				
Tin	189.989														
Titanium	334.904														
Vanadium	292.402													0.00002	

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Ce	Co	Cr	Cu	Fe	K
Zinc	206.200											-0.001456			

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														-0.001025
Boron	208.959				0.002541										
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716			0.000064											
Cobalt	228.616				-0.001081										0.001734
Copper	327.396														
Iron	259.940														
Lead	220.353				-0.001520							0.000018			
Lithium	670.784														
Magnesium	279.079			-0.003583											
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090			0.000315											
Silicon	288.158														
Silver	328.068			0.000072											
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856			0.000597											
Tin	189.989														
Titanium	334.904				.01185109										
Vanadium	292.402				0.012980										0.000492
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Tl	V	Zn											
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	327.396														
Iron	259.940														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856		0.002141												
Tin	189.989														
Titanium	334.904														
Vanadium	292.402														
Zinc	206.200														

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193369-1

SDG No.: 193337

Instrument ID: ICAP1 Date: 08/01/2019 09:58

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	600	6010C
Antimony	15	10	6010C
Arsenic	15	5	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Boron	15	20	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	10	6010C
Cobalt	15	20	6010C
Copper	15	25	6010C
Iron	15	600	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	10	6010C
Potassium	15	600	6010C
Selenium	15	60	6010C
Silver	15	3	6010C
Sodium	15	1000	6010C
Thallium	15	20	6010C
Vanadium	15	5	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193369-1

SDG No.: 193337

Instrument ID: LEEMAN5 Date: 10/09/2018 16:19

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	20	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-608816/1-A	12/15/2021 08:40	608816		50	50
LCS 480-608816/2-A	12/15/2021 08:40	608816		50	50
480-193369-1	12/15/2021 08:40	608816		50	50
480-193369-2	12/15/2021 08:40	608816		50	50
480-193369-3	12/15/2021 08:40	608816		50	50
480-193369-4	12/15/2021 08:40	608816		50	50
480-193369-5	12/15/2021 08:40	608816		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-608976/1-A	12/15/2021 12:48	608976		30	50
LCS 480-608976/2-A	12/15/2021 12:48	608976		30	50
LCSD 480-608976/3-A	12/15/2021 12:48	608976		30	50
480-193369-1	12/15/2021 12:48	608976		30	50
480-193369-1 MS	12/15/2021 12:48	608976		30	50
480-193369-1 MSD	12/15/2021 12:48	608976		30	50
480-193369-2	12/15/2021 12:48	608976		30	50
480-193369-3	12/15/2021 12:48	608976		30	50
480-193369-4	12/15/2021 12:48	608976		30	50
480-193369-5	12/15/2021 12:48	608976		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: ICAP1 Method: 6010C

Start Date: 12/15/2021 18:52 End Date: 12/15/2021 23:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se
ICIS 480-609081/1	1		18:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-609081/2			18:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-609081/3			18:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-609081/4			19:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-609081/5	1		19:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-609081/6	1		19:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-609081/7	1		19:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-609081/8	1		19:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-609081/9	1		19:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			19:26																				
ZZZZZZ			19:30																				
ZZZZZZ			19:34																				
ZZZZZZ			19:38																				
ZZZZZZ			19:42																				
CCV 480-609081/15	1		19:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609081/16	1		19:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609081/17	1		20:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-608816/1-A	1	T	20:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 480-608816/2-A	1	T	20:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:39																				
CCV 480-609081/21	1		20:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609081/22	1		20:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609081/23	1		20:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:55																				
ZZZZZZ			20:58																				
ZZZZZZ			21:02																				
ZZZZZZ			21:06																				
ZZZZZZ			21:10																				
ZZZZZZ			21:14																				
ZZZZZZ			21:19																				
ZZZZZZ			21:23																				
ZZZZZZ			21:26																				
CCV 480-609081/33	1		21:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609081/34	1		21:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609081/35	1		21:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			21:42																				
ZZZZZZ			21:46																				
ZZZZZZ			21:49																				
480-193369-1	1	T	21:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193369-2	1	T	21:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193369-3	1	T	22:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193369-4	1	T	22:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: ICAP1 Method: 6010C

Start Date: 12/15/2021 18:52 End Date: 12/15/2021 23:11

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se
480-193369-5	1	T	22:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			22:13																				
CCV 480-609081/45	1		22:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609081/46	1		22:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609081/47	1		22:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			22:28																				
ZZZZZZ			22:32																				
ZZZZZZ			22:36																				
ZZZZZZ			22:48																				
ZZZZZZ			22:52																				
CCV 480-609081/53			23:04																				
CCB 480-609081/54			23:08																				
CCVL 480-609081/55			23:11																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: ICAP1 Method: 6010C

Start Date: 12/15/2021 18:52 End Date: 12/15/2021 23:11

Lab Sample ID	D/F	Type	Time	Analytes																				
				Tl	V	Zn																		
ICIS 480-609081/1	1		18:52	X	X	X																		
IC 480-609081/2			18:56	X	X	X																		
IC 480-609081/3			18:59	X	X	X																		
IC 480-609081/4			19:03	X	X	X																		
ICV 480-609081/5	1		19:07	X	X	X																		
ICB 480-609081/6	1		19:11	X	X	X																		
ICVL 480-609081/7	1		19:14	X	X	X																		
ICSA 480-609081/8	1		19:18	X	X	X																		
ICSAB 480-609081/9	1		19:22	X	X	X																		
ZZZZZZ			19:26																					
ZZZZZZ			19:30																					
ZZZZZZ			19:34																					
ZZZZZZ			19:38																					
ZZZZZZ			19:42																					
CCV 480-609081/15	1		19:46	X	X	X																		
CCB 480-609081/16	1		19:50	X	X	X																		
CCVL 480-609081/17	1		20:04	X	X	X																		
MB 480-608816/1-A	1	T	20:31	X	X	X																		
LCS 480-608816/2-A	1	T	20:35	X	X	X																		
ZZZZZZ			20:39																					
CCV 480-609081/21	1		20:43	X	X	X																		
CCB 480-609081/22	1		20:47	X	X	X																		
CCVL 480-609081/23	1		20:51	X	X	X																		
ZZZZZZ			20:55																					
ZZZZZZ			20:58																					
ZZZZZZ			21:02																					
ZZZZZZ			21:06																					
ZZZZZZ			21:10																					
ZZZZZZ			21:14																					
ZZZZZZ			21:19																					
ZZZZZZ			21:23																					
ZZZZZZ			21:26																					
CCV 480-609081/33	1		21:30	X	X	X																		
CCB 480-609081/34	1		21:34	X	X	X																		
CCVL 480-609081/35	1		21:38	X	X	X																		
ZZZZZZ			21:42																					
ZZZZZZ			21:46																					
ZZZZZZ			21:49																					
480-193369-1	1	T	21:53	X	X	X																		
480-193369-2	1	T	21:57	X	X	X																		
480-193369-3	1	T	22:01	X	X	X																		
480-193369-4	1	T	22:05	X	X	X																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: ICAP1 Method: 6010C

Start Date: 12/15/2021 18:52 End Date: 12/15/2021 23:11

Lab Sample ID	D / F	Type	Time	Analytes																				
				Tl	V	Zn																		
480-193369-5	1	T	22:09	X	X	X																		
ZZZZZZ			22:13																					
CCV 480-609081/45	1		22:17	X	X	X																		
CCB 480-609081/46	1		22:21	X	X	X																		
CCVL 480-609081/47	1		22:25	X	X	X																		
ZZZZZZ			22:28																					
ZZZZZZ			22:32																					
ZZZZZZ			22:36																					
ZZZZZZ			22:48																					
ZZZZZZ			22:52																					
CCV 480-609081/53			23:04																					
CCB 480-609081/54			23:08																					
CCVL 480-609081/55			23:11																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 12/15/2021 15:17 End Date: 12/15/2021 17:39

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			15:17																				
IC 480-609037/1-A			15:19	X																			
IC 480-609037/2-A			15:20	X																			
IC 480-609037/3-A			15:22	X																			
IC 480-609037/4-A			15:23	X																			
IC 480-609037/5-A			15:24	X																			
IC 480-609037/6-A			15:26	X																			
ICV 480-609041/8	1		15:27	X																			
ICB 480-609041/9	1		15:28	X																			
ICVL 480-609041/10	1		15:30	X																			
CCV 480-609041/11			15:31																				
CCB 480-609041/12			15:32																				
ZZZZZZ			15:34																				
ZZZZZZ			15:35																				
ZZZZZZ			15:36																				
ZZZZZZ			15:37																				
ZZZZZZ			15:39																				
ZZZZZZ			15:40																				
ZZZZZZ			15:41																				
ZZZZZZ			15:43																				
ZZZZZZ			15:44																				
ZZZZZZ			15:45																				
CCV 480-609041/23			15:47																				
CCB 480-609041/24			15:48																				
ZZZZZZ			15:49																				
ZZZZZZ			15:51																				
ZZZZZZ			15:52																				
ZZZZZZ			15:53																				
ZZZZZZ			15:54																				
ZZZZZZ			15:56																				
ZZZZZZ			15:57																				
ZZZZZZ			15:58																				
ZZZZZZ			16:00																				
ZZZZZZ			16:01																				
CCV 480-609041/35	1		16:02	X																			
CCB 480-609041/36	1		16:04	X																			
ZZZZZZ			16:05																				
ZZZZZZ			16:06																				
MB 480-608976/1-A	1	T	16:07	X																			
LCS 480-608976/2-A	1	T	16:09	X																			
LCSD 480-608976/3-A	1	T	16:10	X																			
ZZZZZZ			16:11																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 12/15/2021 15:17 End Date: 12/15/2021 17:39

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:13																				
ZZZZZZ			16:14																				
ZZZZZZ			16:15																				
ZZZZZZ			16:17																				
CCV 480-609041/47	1		16:18	X																			
CCB 480-609041/48	1		16:19	X																			
480-193369-1	1	T	16:20	X																			
480-193369-1 SD	5	T	16:22	X																			
480-193369-1 MS	1	T	16:23	X																			
480-193369-1 MSD	1	T	16:24	X																			
480-193369-2	1	T	16:26	X																			
480-193369-3	1	T	16:27	X																			
480-193369-4	1	T	16:28	X																			
480-193369-5	1	T	16:30	X																			
ZZZZZZ			16:31																				
ZZZZZZ			16:32																				
CCV 480-609041/59	1		16:34	X																			
CCB 480-609041/60	1		16:35	X																			
ZZZZZZ			16:36																				
ZZZZZZ			16:37																				
ZZZZZZ			16:39																				
ZZZZZZ			16:40																				
ZZZZZZ			16:41																				
ZZZZZZ			16:43																				
ZZZZZZ			16:44																				
ZZZZZZ			16:45																				
ZZZZZZ			16:47																				
ZZZZZZ			16:48																				
CCV 480-609041/71			16:49																				
CCB 480-609041/72			16:50																				
CCVL 480-609041/73	1		16:52	X																			
ZZZZZZ			16:53																				
ZZZZZZ			16:54																				
ZZZZZZ			16:56																				
ZZZZZZ			16:57																				
ZZZZZZ			16:58																				
ZZZZZZ			17:00																				
ZZZZZZ			17:01																				
ZZZZZZ			17:02																				
ZZZZZZ			17:04																				
ZZZZZZ			17:05																				
CCV 480-609041/84			17:06																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 12/15/2021 15:17 End Date: 12/15/2021 17:39

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCB 480-609041/85			17:08																				
ZZZZZZ			17:09																				
ZZZZZZ			17:10																				
ZZZZZZ			17:11																				
ZZZZZZ			17:13																				
ZZZZZZ			17:14																				
ZZZZZZ			17:15																				
ZZZZZZ			17:17																				
ZZZZZZ			17:18																				
ZZZZZZ			17:19																				
ZZZZZZ			17:21																				
CCV 480-609041/96			17:22																				
CCB 480-609041/97			17:23																				
ZZZZZZ			17:24																				
ZZZZZZ			17:26																				
ZZZZZZ			17:28																				
ZZZZZZ			17:30																				
ZZZZZZ			17:31																				
ZZZZZZ			17:32																				
ZZZZZZ			17:34																				
ZZZZZZ			17:35																				
CCV 480-609041/106			17:36																				
CCB 480-609041/107			17:37																				
CCVL 480-609041/108			17:39																				

Prep Types
D = Dissolved
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: NOEQUIP Method: SM 2340B

Start Date: 12/17/2021 12:12 End Date: 12/17/2021 12:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				HardCC																			
480-193369-1	1	T	12:12	X																			
480-193369-2	1	T	12:12	X																			
480-193369-3	1	T	12:12	X																			
480-193369-4	1	T	12:12	X																			
480-193369-5	1	T	12:12	X																			

Prep Types

T = Total/NA

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337 Analysis Batch No.: 609081

ICP Instrument ID: ICAP1 Start Date: 12/15/2021 End Date: 12/15/2021

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-609081/1	18:52										
ICV 480-609081/5	19:07	87		94		94		99			
ICB 480-609081/6	19:11	100		97		100		99			
ICVL 480-609081/7	19:14	99		98		101		102			
ICSA 480-609081/8	19:18	73		86		85		97			
ICSAB 480-609081/9	19:22	73		87		85		96			
CCV 480-609081/15	19:46	85		96		93		98			
CCB 480-609081/16	19:50	100		99		99		99			
CCVL 480-609081/17	20:04	99		97		100		100			
MB 480-608816/1-A	20:31	99		96		101		101			
LCS 480-608816/2-A	20:35	93		94		97		100			
CCV 480-609081/21	20:43	85		92		93		98			
CCB 480-609081/22	20:47	100		96		100		99			
CCVL 480-609081/23	20:51	99		96		100		99			
CCV 480-609081/33	21:30	86		92		94		98			
CCB 480-609081/34	21:34	100		95		100		99			
CCVL 480-609081/35	21:38	100		95		100		99			
480-193369-1	21:53	92		92		96		99			
480-193369-2	21:57	89		91		95		100			
480-193369-3	22:01	85		88		92		98			
480-193369-4	22:05	95		93		97		99			
480-193369-5	22:09	95		93		98		100			
CCV 480-609081/45	22:17	86		92		93		97			
CCB 480-609081/46	22:21	100		95		100		99			
CCVL 480-609081/47	22:25	99		95		100		99			

Run File: I1121521B

Instrument: ICAP1

Analyst: AMH

Data Review: AMH 12/16/21

Spikes Ids:6639940(W1), 6639959(W2) 6639939(Sn), 6742802(Ag), 6742856(Si), 6742882(S), 6370646(TCLP)
Pipette Ids: 10/6/21-(1-11)
Internal Standard: 6810091

Seq#	Run File ID	Sample ID	Date / Time	Sample Type
1	I1121521B	ICIS-6810114	12/15/2021 6:52:08PM	Standard
2	I1121521B	IC-6811103	12/15/2021 6:56:03PM	Standard
3	I1121521B	IC-6817081	12/15/2021 6:59:58PM	Standard
4	I1121521B	IC-6797476	12/15/2021 7:03:39PM	Standard
5	I1121521B	ICV-6817392	12/15/2021 7:07:19PM	QC
6	I1121521B	ICB-6810114	12/15/2021 7:11:01PM	QC
7	I1121521B	ICVL-6811103	12/15/2021 7:14:55PM	QC
8	I1121521B	ICSA-6812501	12/15/2021 7:18:50PM	QC
9	I1121521B	ICSAB-6743474	12/15/2021 7:22:49PM	QC
10	I1121521B	ICEX1	12/15/2021 7:26:44PM	Unknown
11	I1121521B	ICEX2	12/15/2021 7:30:46PM	Unknown
12	I1121521B	ICEX3	12/15/2021 7:34:44PM	Unknown
13	I1121521B	ICEX4	12/15/2021 7:38:43PM	Unknown
14	I1121521B	ICEX5	12/15/2021 7:42:36PM	Unknown
15	I1121521B	CCV-6817081	12/15/2021 7:46:30PM	QC
16	I1121521B	CCB-6810114	12/15/2021 7:50:10PM	QC
17	I1121521B	CCVL-6811103	12/15/2021 8:04:38PM	QC
18	I1121521B	480-193071-A-1-A	12/15/2021 8:08:33PM	Unknown
19	I1121521B	480-193071-A-2-A	12/15/2021 8:12:28PM	Unknown
20	I1121521B	480-193071-A-3-A	12/15/2021 8:16:19PM	Unknown
21	I1121521B	480-193071-A-4-A	12/15/2021 8:20:20PM	Unknown
22	I1121521B	480-193071-A-5-A	12/15/2021 8:24:11PM	Unknown
23	I1121521B	480-192989-A-23-A	12/15/2021 8:28:01PM	Unknown
24	I1121521B	MB 480-608816/1-A	12/15/2021 8:31:52PM	Unknown
25	I1121521B	LCS 480-608816/2-A	12/15/2021 8:35:46PM	Unknown
26	I1121521B	480-192920-A-14-C	12/15/2021 8:39:29PM	Unknown
27	I1121521B	CCV-6817081	12/15/2021 8:43:31PM	QC
28	I1121521B	CCB-6810114	12/15/2021 8:47:12PM	QC
29	I1121521B	CCVL-6811103	12/15/2021 8:51:08PM	QC
30	I1121521B	480-192920-A-18-C	12/15/2021 8:55:02PM	Unknown
31	I1121521B	480-192920-B-19-C	12/15/2021 8:58:52PM	Unknown
32	I1121521B	480-193322-F-1-B	12/15/2021 9:02:48PM	Unknown
33	I1121521B	480-193322-F-2-A	12/15/2021 9:06:38PM	Unknown
34	I1121521B	480-193322-F-3-D	12/15/2021 9:10:46PM	Unknown
35	I1121521B	480-193322-F-4-B	12/15/2021 9:14:54PM	Unknown
36	I1121521B	480-193322-F-5-B	12/15/2021 9:19:01PM	Unknown
37	I1121521B	480-193405-C-1-A	12/15/2021 9:23:03PM	Unknown
38	I1121521B	480-193405-C-1-ASD@5	12/15/2021 9:26:55PM	Unknown
39	I1121521B	CCV-6817081	12/15/2021 9:30:51PM	QC
40	I1121521B	CCB-6810114	12/15/2021 9:34:33PM	QC
41	I1121521B	CCVL-6811103	12/15/2021 9:38:28PM	QC
42	I1121521B	480-193405-C-1-APDS	12/15/2021 9:42:23PM	Unknown

43	I1121521B	480-193405-C-1-B MS	12/15/2021	9:46:05PM	Unknown
44	I1121521B	480-193405-C-1-C MSD	12/15/2021	9:49:46PM	Unknown
45	I1121521B	480-193369-D-1-A	12/15/2021	9:53:28PM	Unknown
46	I1121521B	480-193369-D-2-A	12/15/2021	9:57:20PM	Unknown
47	I1121521B	480-193369-D-3-A	12/15/2021	10:01:23PM	Unknown
48	I1121521B	480-193369-D-4-A	12/15/2021	10:05:25PM	Unknown
49	I1121521B	480-193369-D-5-A	12/15/2021	10:09:29PM	Unknown
50	I1121521B	480-193336-F-1-B	12/15/2021	10:13:26PM	Unknown
51	I1121521B	CCV-6817081	12/15/2021	10:17:28PM	QC
52	I1121521B	CCB-6810114	12/15/2021	10:21:09PM	QC
53	I1121521B	CCVL-6811103	12/15/2021	10:25:05PM	QC
54	I1121521B	480-193336-F-2-B	12/15/2021	10:28:59PM	Unknown
55	I1121521B	480-193336-F-3-B	12/15/2021	10:32:59PM	Unknown
56	I1121521B	480-193336-F-5-A	12/15/2021	10:36:58PM	Unknown
57	I1121521B	rinse	12/15/2021	10:40:58PM	Unknown
58	I1121521B	rinse	12/15/2021	10:44:53PM	Unknown
59	I1121521B	480-193336-F-6-A	12/15/2021	10:48:47PM	Unknown
60	I1121521B	480-193336-F-7-A	12/15/2021	10:52:47PM	Unknown
61	I1121521B	MB 480-608869/1-A	12/15/2021	10:56:43PM	Unknown
62	I1121521B	LCS 480-608869/2-A	12/15/2021	11:00:38PM	Unknown
63	I1121521B	CCV-6817081	12/15/2021	11:04:22PM	QC
64	I1121521B	CCB-6810114	12/15/2021	11:08:03PM	QC
65	I1121521B	CCVL-6811103	12/15/2021	11:11:59PM	QC
66	I1121521B	180-130889-E-1-A	12/15/2021	11:15:53PM	Unknown
67	I1121521B	180-130889-E-1-ASD@5	12/15/2021	11:19:48PM	Unknown
68	I1121521B	180-130889-E-1-APDS	12/15/2021	11:23:40PM	Unknown
69	I1121521B	180-130889-E-1-B MS	12/15/2021	11:27:27PM	Unknown
70	I1121521B	180-130889-E-1-C MSD	12/15/2021	11:31:15PM	Unknown
71	I1121521B	180-130889-E-2-A	12/15/2021	11:35:02PM	Unknown
72	I1121521B	480-193416-C-1-A	12/15/2021	11:38:57PM	Unknown
73	I1121521B	480-193419-B-2-A	12/15/2021	11:42:46PM	Unknown
74	I1121521B	480-193410-E-1-A	12/15/2021	11:46:36PM	Unknown
75	I1121521B	CCV-6817081	12/15/2021	11:50:30PM	QC
76	I1121521B	CCB-6810114	12/15/2021	11:54:11PM	QC
77	I1121521B	CCVL-6811103	12/15/2021	11:58:07PM	QC
78	I1121521B	480-193410-E-2-A	12/16/2021	12:02:02AM	Unknown
79	I1121521B	480-193410-E-3-A	12/16/2021	12:05:57AM	Unknown
80	I1121521B	480-193394-A-1-A	12/16/2021	12:09:51AM	Unknown
81	I1121521B	480-193394-A-2-A	12/16/2021	12:13:45AM	Unknown
82	I1121521B	480-193394-A-3-A	12/16/2021	12:17:38AM	Unknown
83	I1121521B	480-193394-A-4-A	12/16/2021	12:21:31AM	Unknown

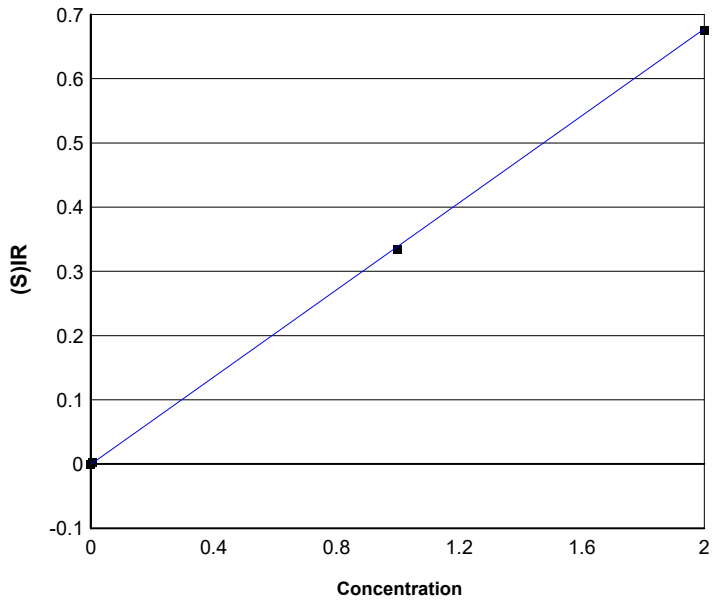
I1121521B

Author: AMH

Published: 12/16/2021 7:39:57AM

Instrument Name: BUFICAP1 Serial Number: 20094603

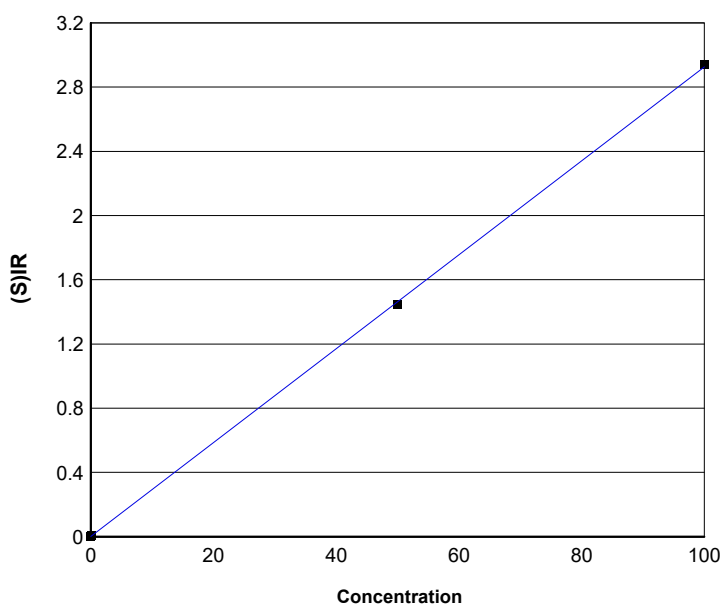
Method Name: ICAP1 New Stds (402)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00017750
A1 (Gain):	0.33887
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

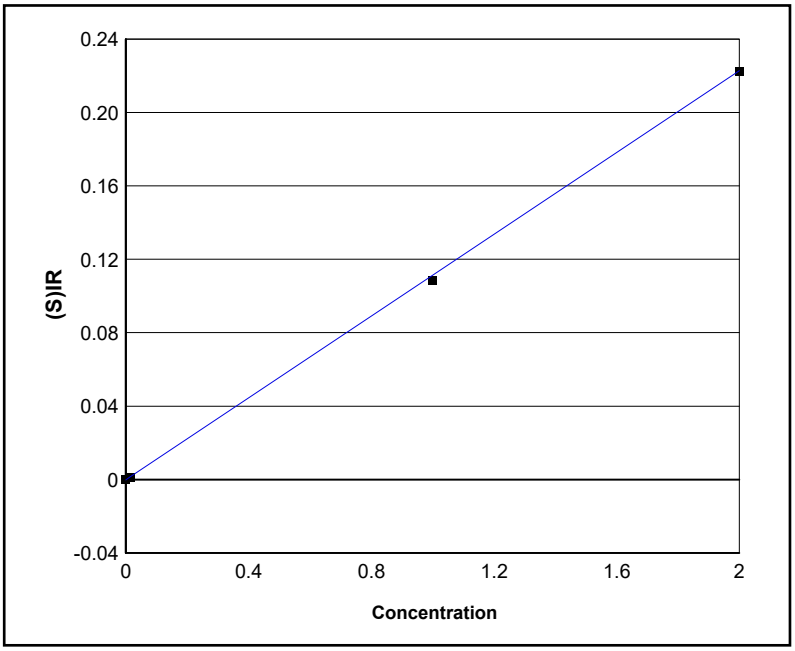
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000003335	0.0000003335	0.00000	-0.00017738	0.000087367	1
IC-6811103	0.0060000	0.0056864	-0.00031355	-5.2258	0.0017495	0.000086206	1
IC-6817081	1.0000	0.99305	-0.0069514	-0.69514	0.33409	0.00070453	1
IC-6797476	2.0000	2.0073	0.0072670	0.36335	0.67554	0.00069355	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00092039
A1 (Gain):	0.029251
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

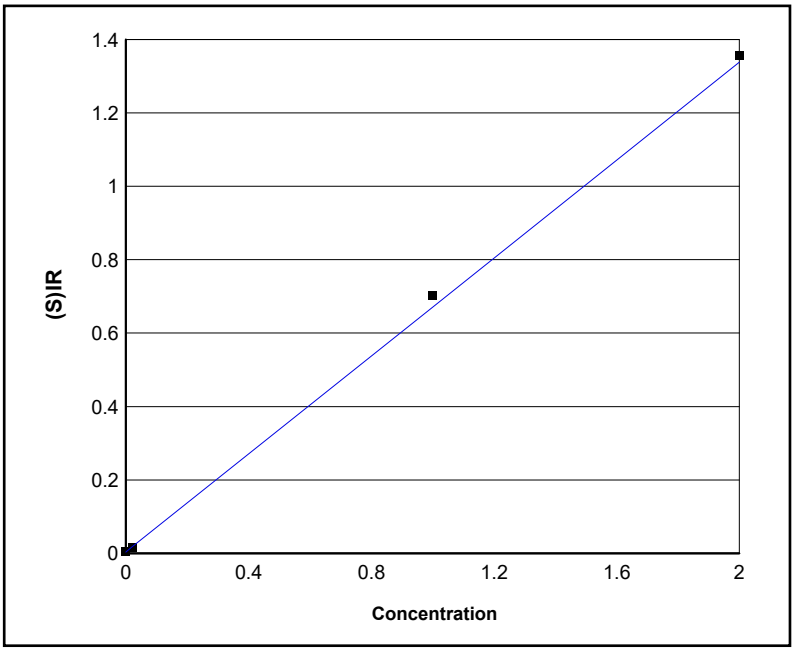
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.000027135	0.000027135	0.00000	0.00092119	0.00011416	1
IC-6811103	0.20000	0.17381	-0.026187	-13.094	0.0060045	0.00072464	1
IC-6817081	50.000	49.500	-0.49984	-0.99968	1.4488	0.0064706	1
IC-6797476	100.00	100.53	0.52603	0.52603	2.9414	0.0033653	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.00021286
A1 (Gain):	0.11151
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

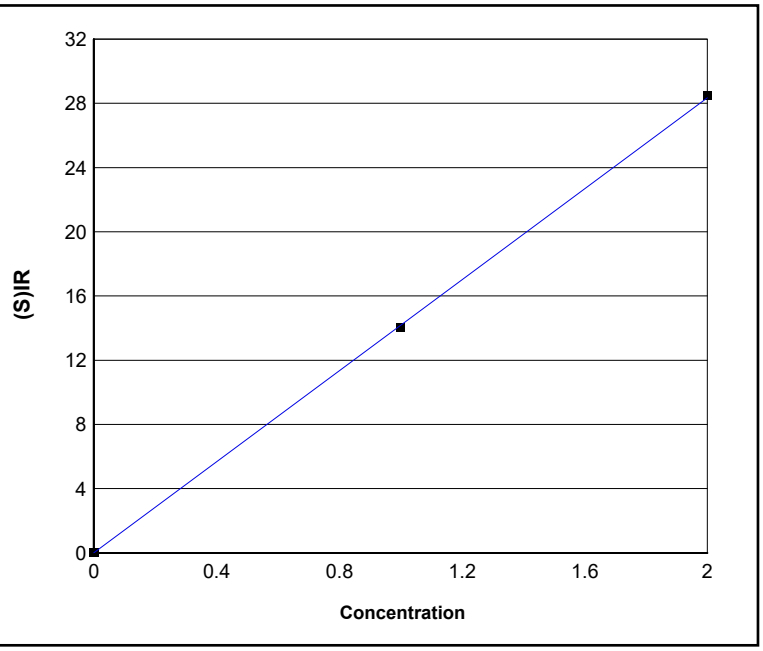
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000014792	0.0000014792	0.00000	-0.00021269	0.000057358	1
IC-6811103	0.015000	0.013612	-0.0013884	-9.2559	0.0013002	0.00018872	1
IC-6817081	1.0000	0.98650	-0.013503	-1.3503	0.10861	0.000011965	1
IC-6797476	2.0000	2.0149	0.014902	0.74512	0.22210	0.00011961	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99984
A0 (Offset):	0.0036311
A1 (Gain):	0.66746
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

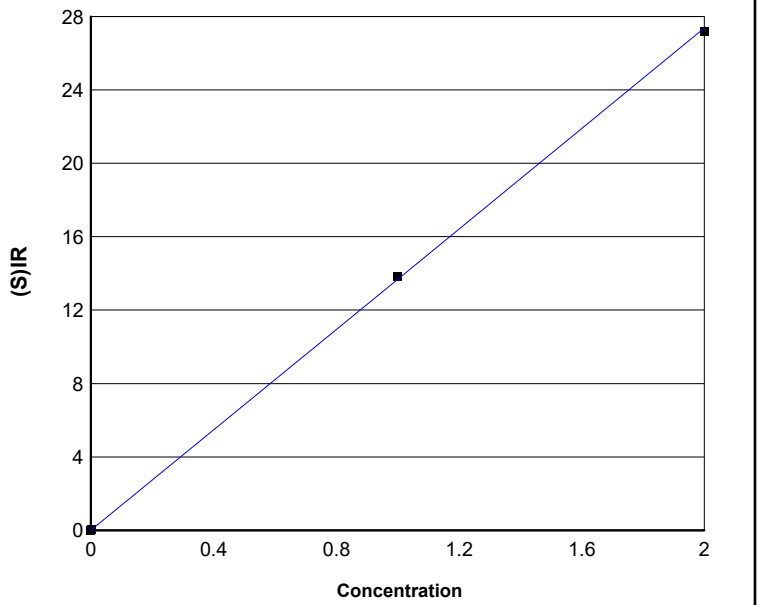
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000017293	0.0000017293	0.00000	0.0036322	0.00010163	1
IC-6811103	0.020000	0.018015	-0.0019849	-9.9246	0.015818	0.00028149	1
IC-6817081	1.0000	1.0236	0.023596	2.3596	0.70307	0.0014874	1
IC-6797476	2.0000	1.9784	-0.021635	-1.0818	1.3566	0.000031423	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.011702
A1 (Gain):	14.164
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

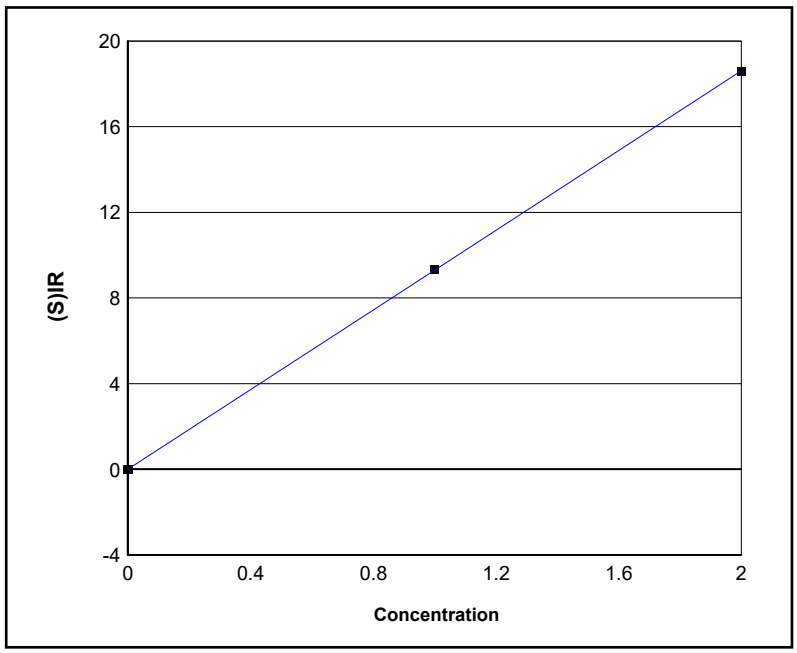
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000001075	0.0000001075	0.00000	0.011704	0.00044595	1
IC-6811103	0.0020000	0.0019029	-0.000097110	-4.8555	0.038655	0.0021262	1
IC-6817081	1.0000	0.98956	-0.010443	-1.0443	14.028	0.075704	1
IC-6797476	2.0000	2.0105	0.010540	0.52700	28.490	0.064765	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.0034710
A1 (Gain):	13.681
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

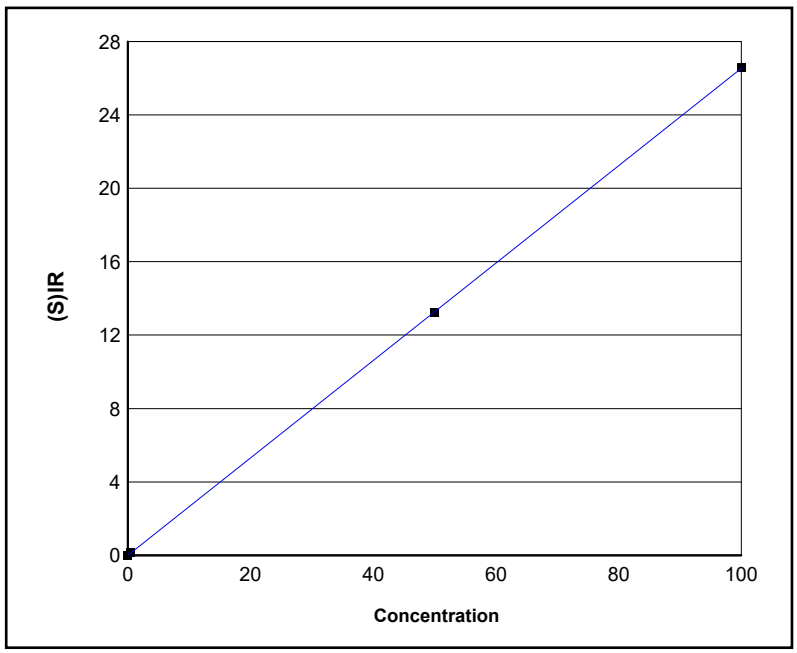
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000000451	-0.0000000451	0.00000	0.0034703	0.000057797	1
IC-6811103	0.0020000	0.0020321	0.000032072	1.6036	0.031272	0.00023417	1
IC-6817081	1.0000	1.0131	0.013050	1.3050	13.863	0.038756	1
IC-6797476	2.0000	1.9869	-0.013082	-0.65412	27.187	0.0028023	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.000051418
A1 (Gain):	9.3088
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

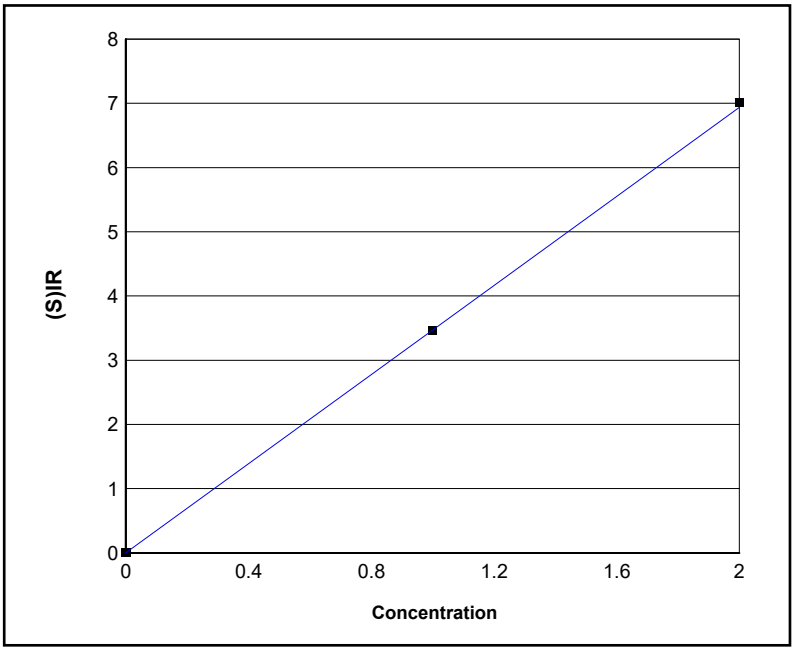
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000000330	-0.0000000330	0.00000	-0.000051725	0.00017911	1
IC-6811103	0.0020000	0.0020298	0.000029773	1.4887	0.018809	0.00014357	1
IC-6817081	1.0000	1.0032	0.0032465	0.32465	9.3321	0.031634	1
IC-6797476	2.0000	1.9967	-0.0032762	-0.16381	18.573	0.059511	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0089324
A1 (Gain):	0.26527
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

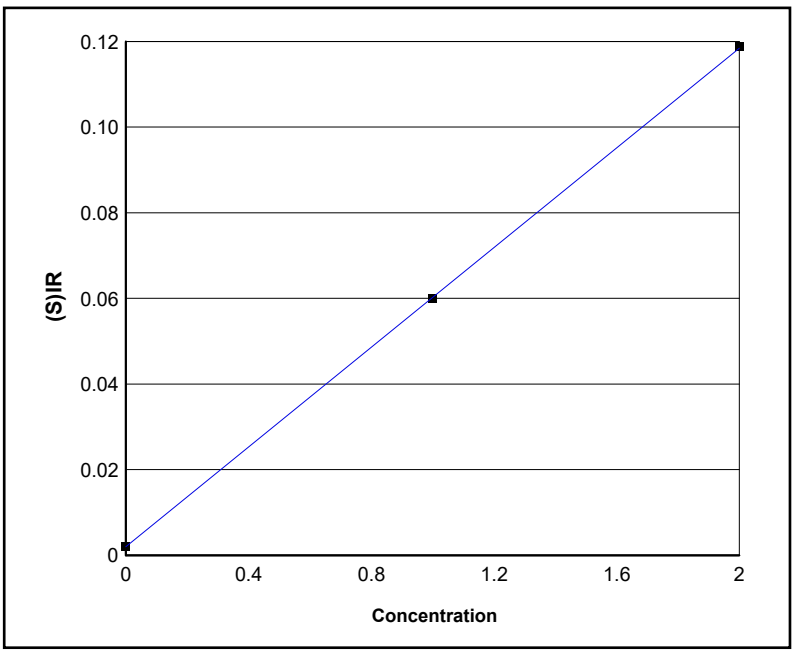
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000040251	-0.0000040251	0.00000	0.0089313	0.00024125	1
IC-6811103	0.50000	0.50507	0.0050736	1.0147	0.14292	0.00027893	1
IC-6817081	50.000	49.795	-0.20463	-0.40926	13.218	0.044726	1
IC-6797476	100.00	100.20	0.19956	0.19956	26.589	0.10149	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00079060
A1 (Gain):	3.4686
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

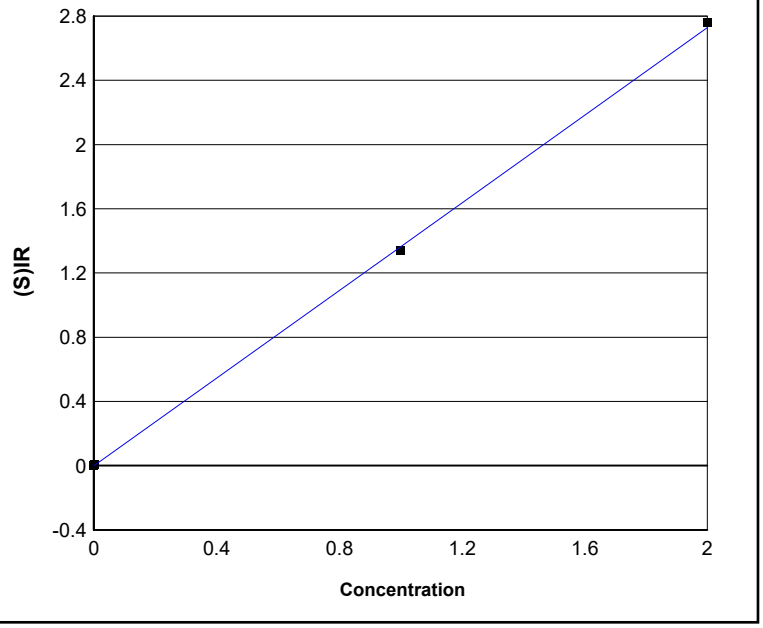
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000000374	0.0000000374	0.00000	0.00079073	0.00011374	1
IC-6811103	0.0020000	0.0019714	-0.000028611	-1.4305	0.0080200	0.000023709	1
IC-6817081	1.0000	0.99119	-0.0088108	-0.88108	3.4649	0.0072297	1
IC-6797476	2.0000	2.0088	0.0088408	0.44204	7.0208	0.0038883	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.002006
A1 (Gain):	0.05823
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

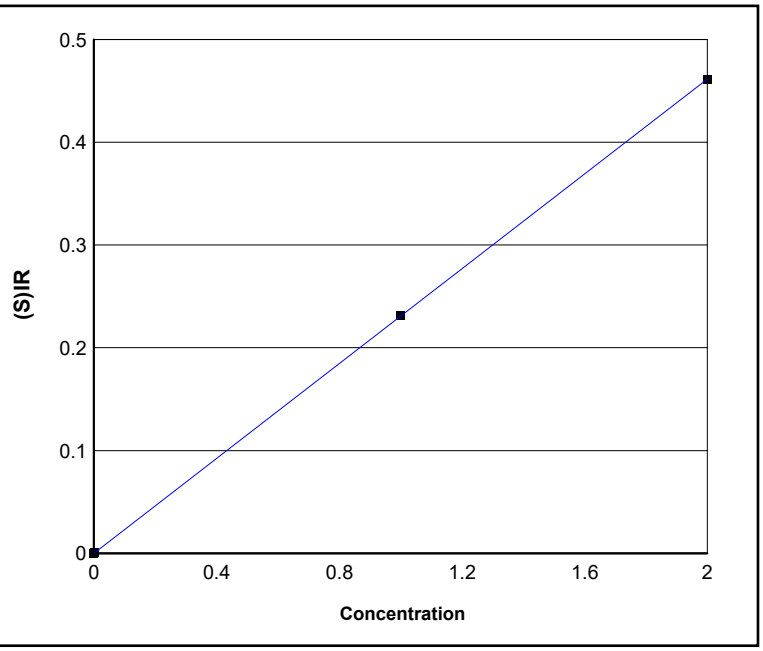
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.0000	0.000002462	0.000002462	0.0000	0.002006	0.001755	1
IC-6817081	1.000	0.9951	-0.004923	-0.4923	0.05995	0.0007276	1
IC-6797476	2.000	2.005	0.004923	0.2462	0.1188	0.001507	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	-0.00013326
A1 (Gain):	1.3647
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

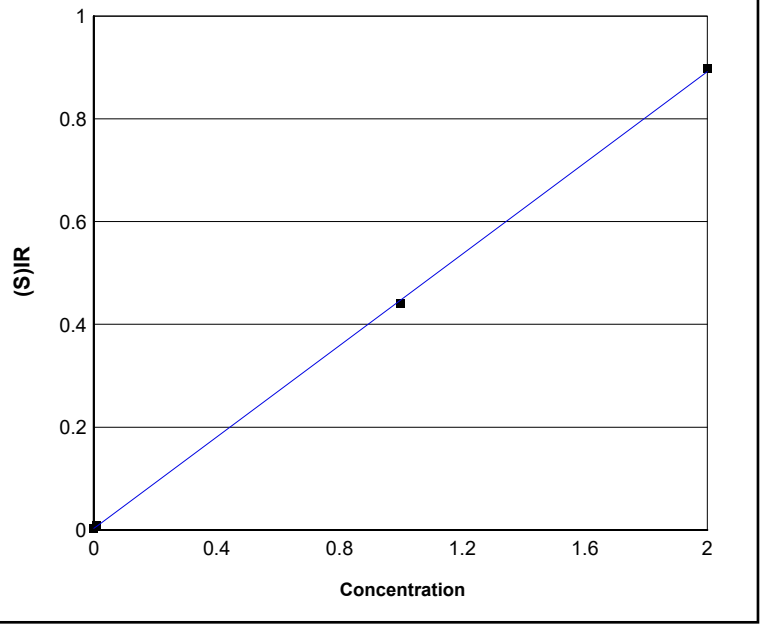
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000002857	0.0000002857	0.00000	-0.00013287	0.000031322	1
IC-6811103	0.0040000	0.0037523	-0.00024767	-6.1917	0.0049863	0.00022111	1
IC-6817081	1.0000	0.98072	-0.019283	-1.9283	1.3395	0.0010437	1
IC-6797476	2.0000	2.0195	0.019530	0.97650	2.7584	0.0020582	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.000054453
A1 (Gain):	0.23070
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

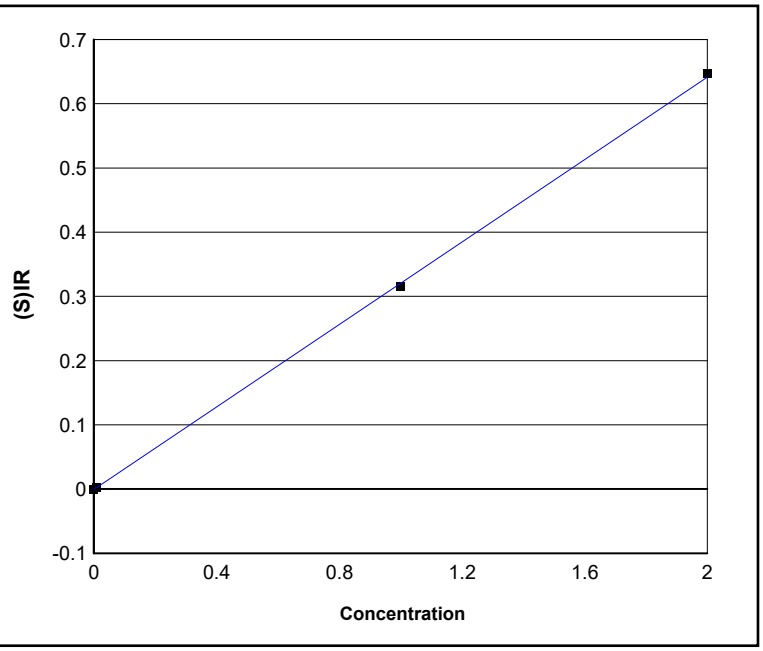
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000000927	0.0000000927	0.00000	0.000054474	0.0000097778	1
IC-6811103	0.0040000	0.0039045	-0.000095471	-2.3868	0.00095528	0.000021567	1
IC-6817081	1.0000	1.0013	0.0012758	0.12758	0.23101	0.0013782	1
IC-6797476	2.0000	1.9988	-0.0011803	-0.059015	0.46110	0.00012631	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.0028224
A1 (Gain):	0.44461
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

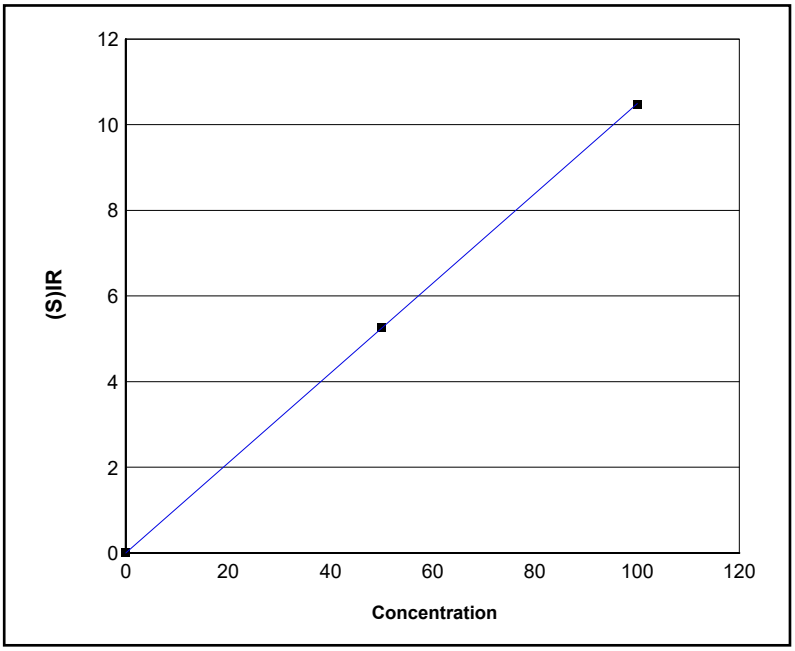
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000002651	-0.0000002651	0.00000	0.0028223	0.00020939	1
IC-6811103	0.010000	0.010344	0.00034389	3.4389	0.0074215	0.000033165	1
IC-6817081	1.0000	0.98459	-0.015412	-1.5412	0.44058	0.0012767	1
IC-6797476	2.0000	2.0151	0.015068	0.75340	0.89874	0.0021485	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.00028491
A1 (Gain):	0.32085
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

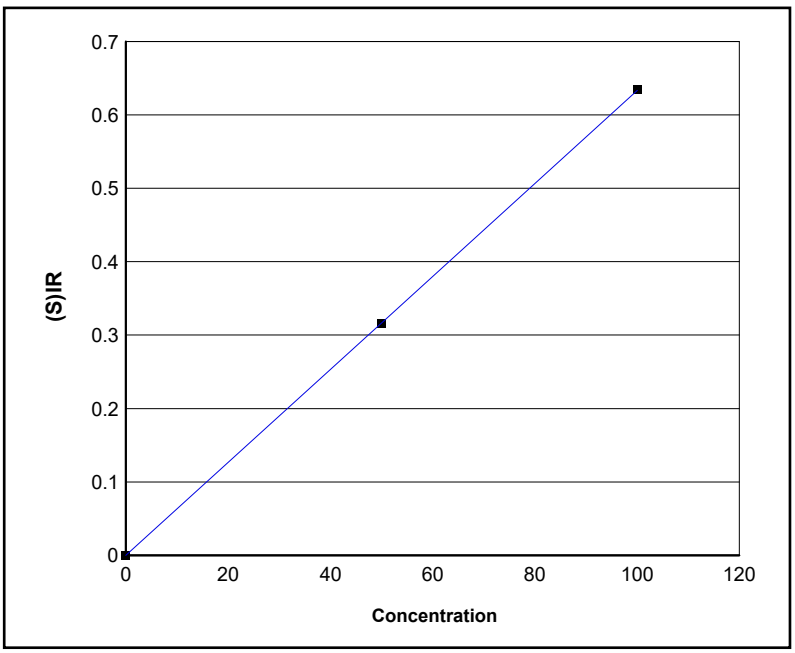
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000000977	0.0000000977	0.00000	-0.00028488	0.000035570	1
IC-6811103	0.010000	0.0099822	-0.000017835	-0.17835	0.0029191	0.000022863	1
IC-6817081	1.0000	0.98401	-0.015993	-1.5993	0.31556	0.00077034	1
IC-6797476	2.0000	2.0160	0.016011	0.80053	0.64681	0.0018970	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0011009
A1 (Gain):	0.10489
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

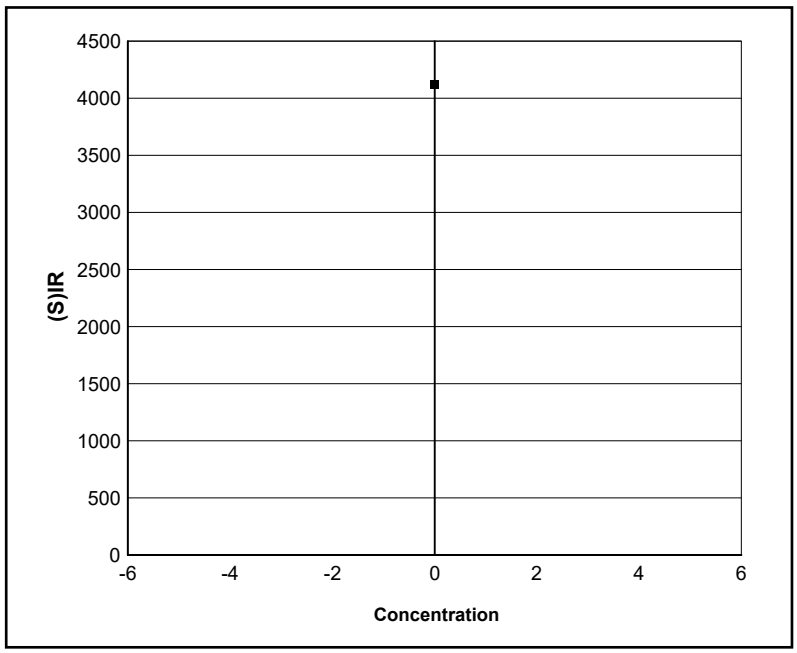
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000016113	0.0000016113	0.00000	0.0011011	0.00074245	1
IC-6811103	0.050000	0.048297	-0.0017026	-3.4053	0.0061669	0.00050667	1
IC-6817081	50.025	50.206	0.18114	0.36209	5.2673	0.013762	1
IC-6797476	100.05	99.871	-0.17944	-0.17935	10.477	0.022487	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.000062711
A1 (Gain):	0.0063331
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

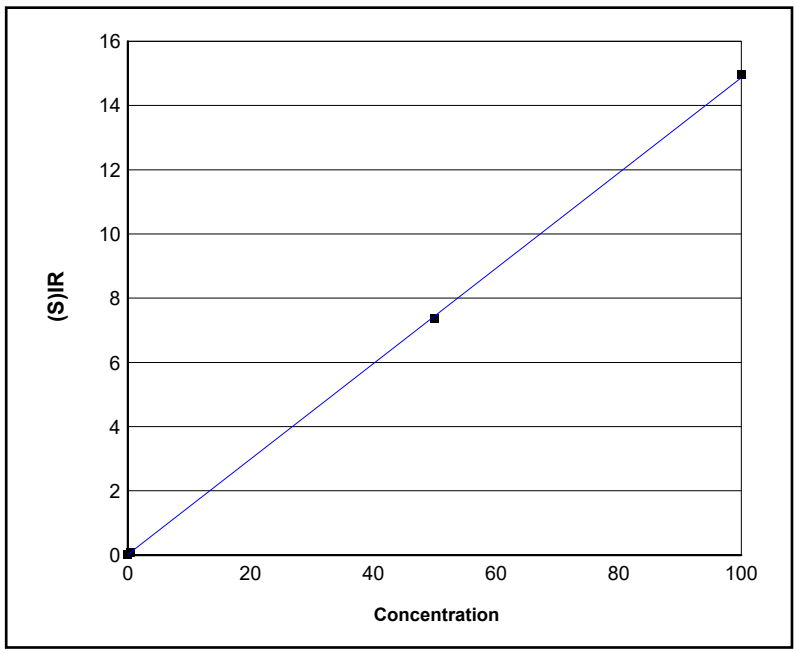
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000092556	0.0000092556	0.00000	0.000062769	0.000029158	1
IC-6811103	0.050000	0.040837	-0.0091633	-18.327	0.00032133	0.00080935	1
IC-6817081	50.025	49.831	-0.19376	-0.38734	0.31565	0.00099761	1
IC-6797476	100.05	100.25	0.20293	0.20283	0.63497	0.00057610	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 6:55:59PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

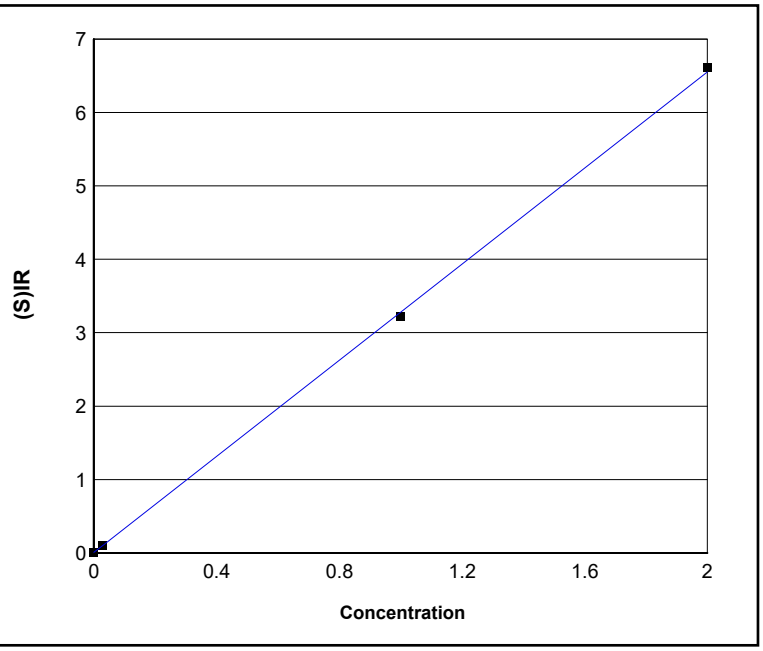
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.0000			0.0000	4,121	2.677	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.019604
A1 (Gain):	0.14849
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

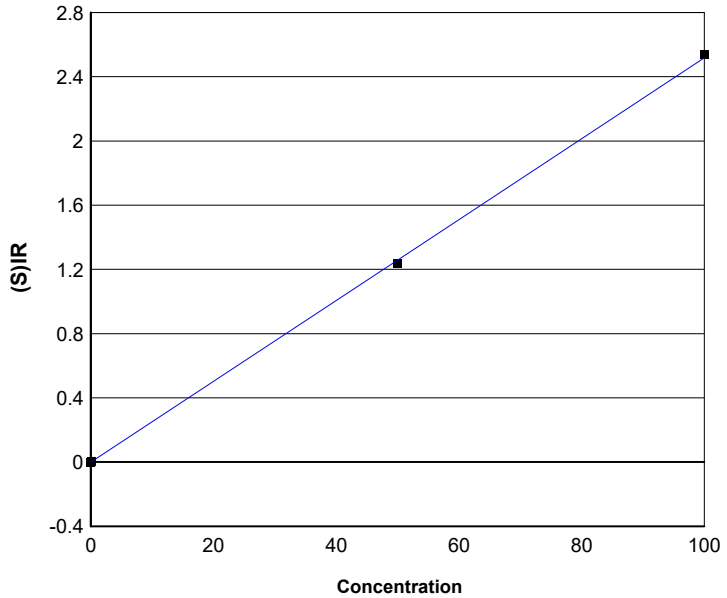
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.000079256	0.000079256	0.00000	0.019616	0.0011880	1
IC-6811103	0.50000	0.42319	-0.076808	-15.362	0.082445	0.0047447	1
IC-6817081	50.000	49.434	-0.56643	-1.1329	7.3601	0.024842	1
IC-6797476	100.00	100.64	0.64323	0.64323	14.964	0.042492	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	0.0072029
A1 (Gain):	3.2720
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

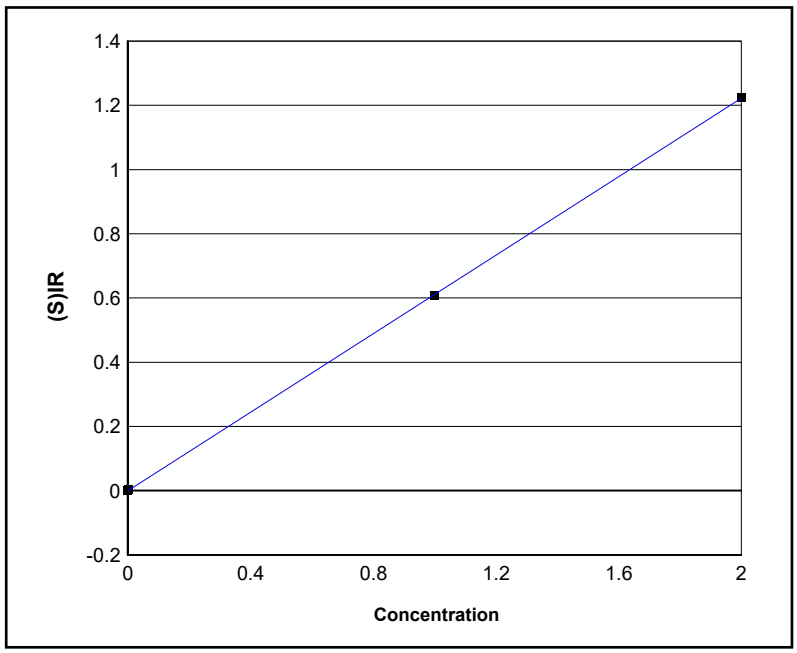
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000026251	0.0000026251	0.00000	0.0072115	0.00010146	1
IC-6811103	0.030000	0.027587	-0.0024132	-8.0442	0.097467	0.0010482	1
IC-6817081	1.0000	0.98346	-0.016538	-1.6538	3.2251	0.0026167	1
IC-6797476	2.0000	2.0190	0.018951	0.94754	6.6132	0.022820	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.000044156
A1 (Gain):	0.025181
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

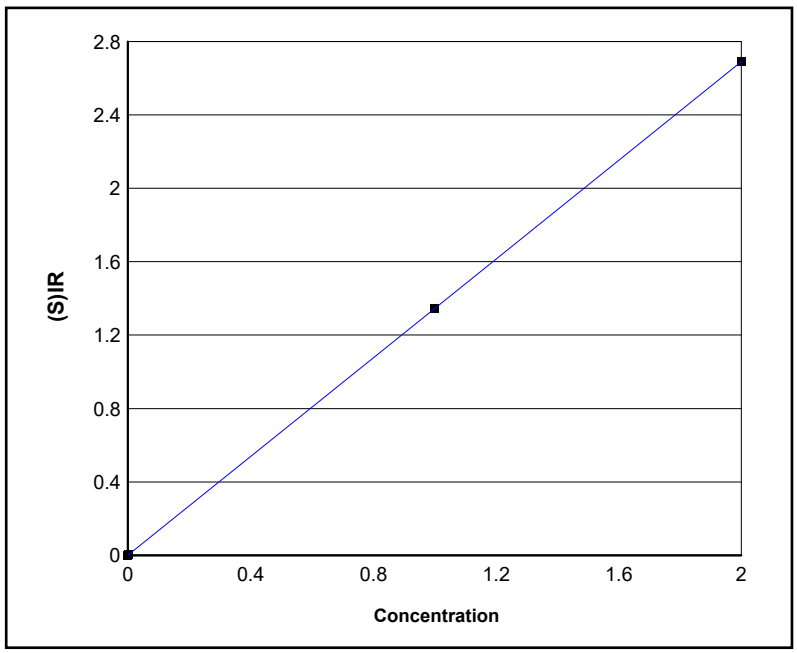
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.000012080	0.000012080	0.00000	-0.000043852	0.000070147	1
IC-6811103	0.20000	0.18953	-0.010473	-5.2367	0.0047280	0.000030702	1
IC-6817081	50.000	49.186	-0.81388	-1.6278	1.2384	0.0067876	1
IC-6797476	100.00	100.82	0.82435	0.82435	2.5386	0.0018728	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.000012429
A1 (Gain):	0.61105
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

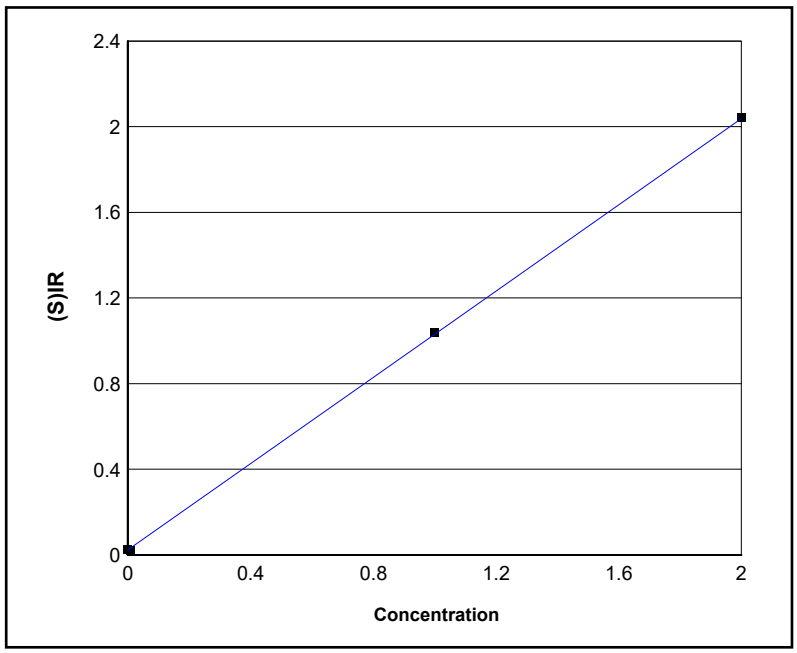
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000010315	-0.0000010315	0.00000	-0.000013059	0.00023704	1
IC-6811103	0.0030000	0.0040379	0.0010379	34.596	0.0024557	0.0000025374	1
IC-6817081	1.0000	0.99677	-0.0032347	-0.32347	0.60933	0.0019623	1
IC-6797476	2.0000	2.0022	0.0021968	0.10984	1.2240	0.0019635	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00020809
A1 (Gain):	1.3447
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

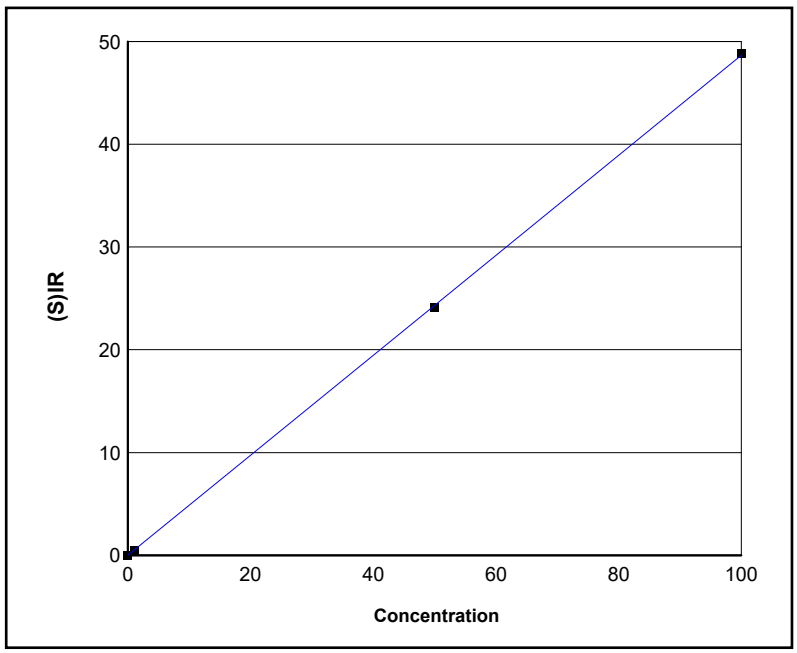
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000000580	-0.0000000580	0.00000	0.00020801	0.000034735	1
IC-6811103	0.0030000	0.0030597	0.000059749	1.9916	0.0043242	0.00010314	1
IC-6817081	1.0000	0.99891	-0.0010913	-0.10913	1.3440	0.0038542	1
IC-6797476	2.0000	2.0010	0.0010316	0.051580	2.6921	0.0022878	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99626
A0 (Offset):	0.024078
A1 (Gain):	1.0071
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

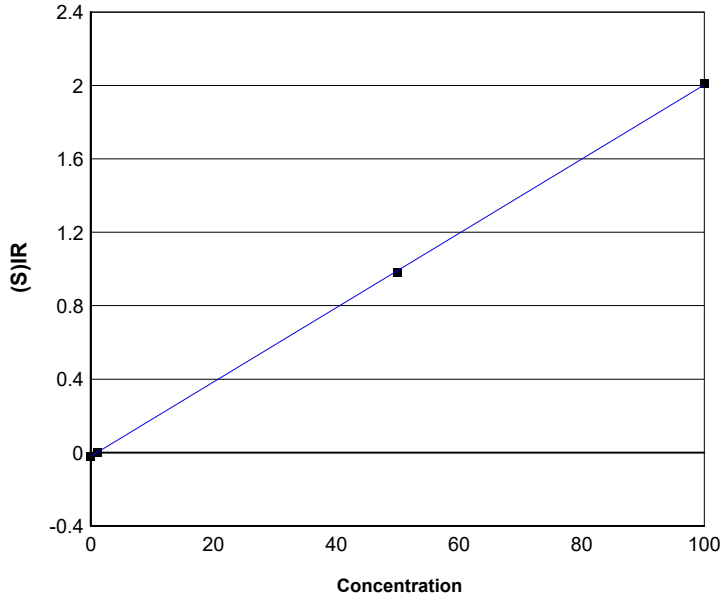
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.000014878	0.000014878	0.00000	0.024093	0.0028820	1
IC-6811103	0.010000	-0.0049973	-0.014997	-149.97	0.019045	0.00046124	1
IC-6817081	1.0000	1.0090	0.0089621	0.89621	1.0402	0.00099763	1
IC-6797476	2.0000	2.0060	0.0060352	0.30176	2.0443	0.0067952	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.014384
A1 (Gain):	0.48637
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

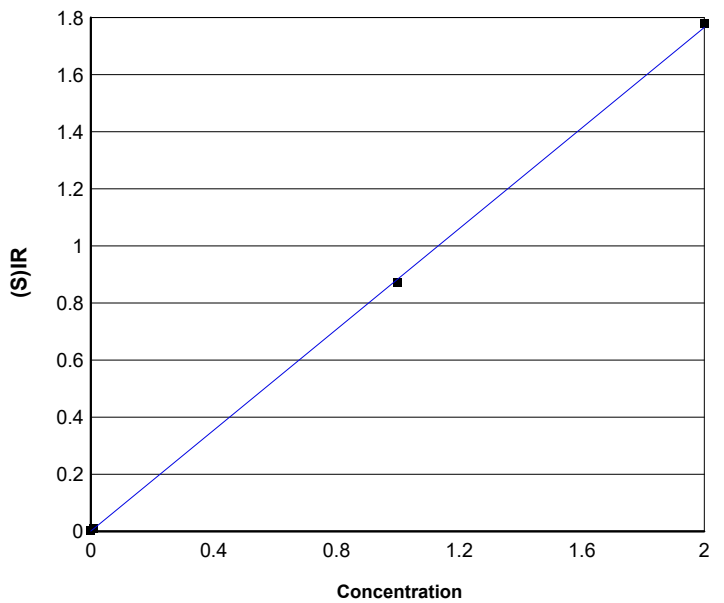
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.000033977	0.000033977	0.00000	0.014401	0.0028895	1
IC-6811103	1.0000	0.96950	-0.030498	-3.0498	0.48592	0.0044453	1
IC-6817081	50.000	49.622	-0.37835	-0.75670	24.149	0.11295	1
IC-6797476	100.00	100.41	0.40885	0.40885	48.850	0.081181	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.020979
A1 (Gain):	0.020245
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

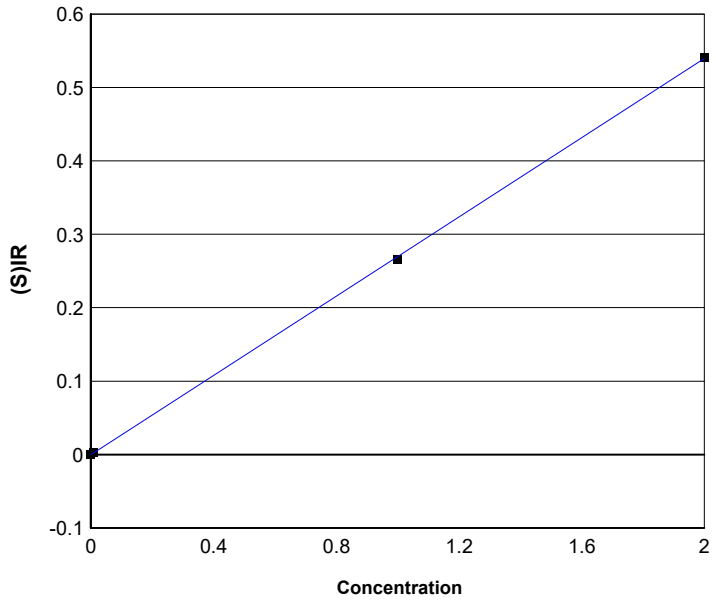
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	-0.000063128	-0.000063128	0.00000	-0.020981	0.0018991	1
IC-6811103	1.0000	1.0695	0.069457	6.9457	0.00067230	0.000049128	1
IC-6817081	50.000	49.437	-0.56345	-1.1269	0.97988	0.0048794	1
IC-6797476	100.00	100.49	0.49399	0.49399	2.0136	0.0086327	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.0011856
A1 (Gain):	0.88231
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

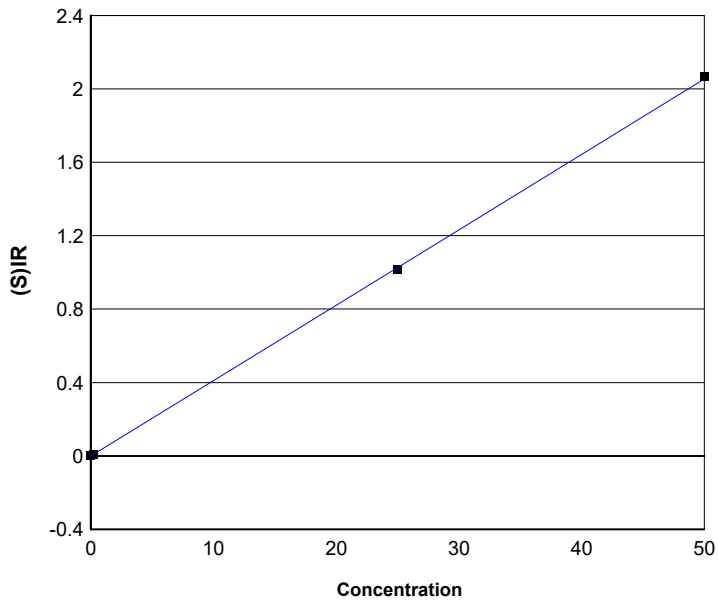
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000006013	0.0000006013	0.00000	0.0011862	0.000046528	1
IC-6811103	0.010000	0.0094688	-0.00053116	-5.3116	0.0095405	0.00010839	1
IC-6817081	1.0000	0.98544	-0.014557	-1.4557	0.87108	0.0010877	1
IC-6797476	2.0000	2.0151	0.015088	0.75441	1.7800	0.00092948	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00014147
A1 (Gain):	0.26987
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

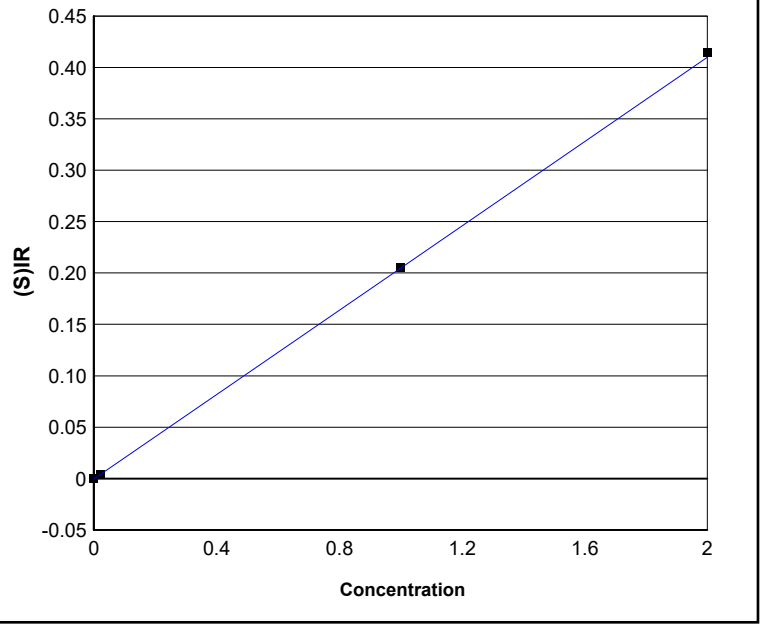
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000003957	0.0000003957	0.00000	-0.00014137	0.00014704	1
IC-6811103	0.010000	0.0096686	-0.00033139	-3.3139	0.0024622	0.0000042628	1
IC-6817081	1.0000	0.98680	-0.013201	-1.3201	0.26512	0.00016910	1
IC-6797476	2.0000	2.0135	0.013533	0.67664	0.54116	0.0012398	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.9999
A0 (Offset):	-0.00005315
A1 (Gain):	0.04107
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

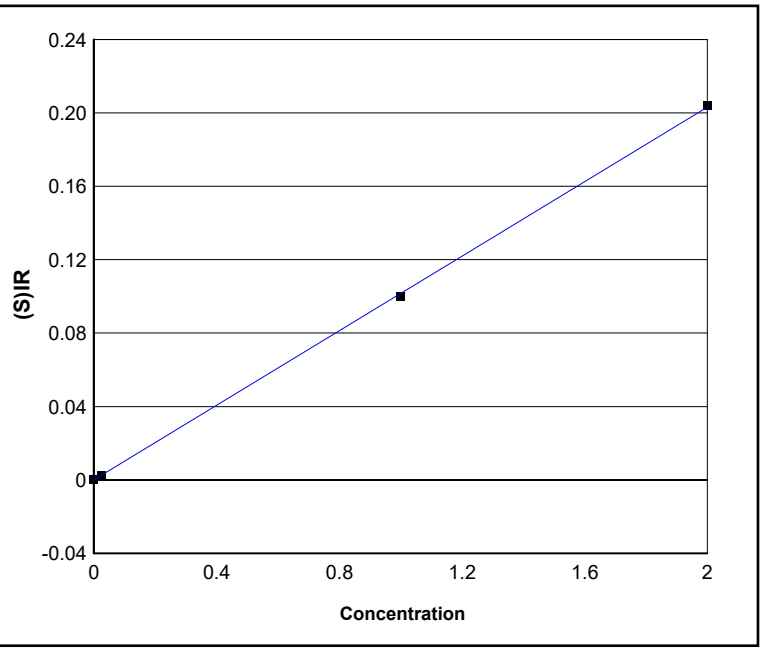
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.0000	0.00002146	0.00002146	0.0000	-0.00005227	0.0001148	1
IC-6811103	0.2000	0.1798	-0.02021	-10.11	0.007330	0.000007373	1
IC-6817081	25.00	24.67	-0.3328	-1.331	1.013	0.001895	1
IC-6797476	50.00	50.35	0.3531	0.7061	2.068	0.002698	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00034447
A1 (Gain):	0.20522
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

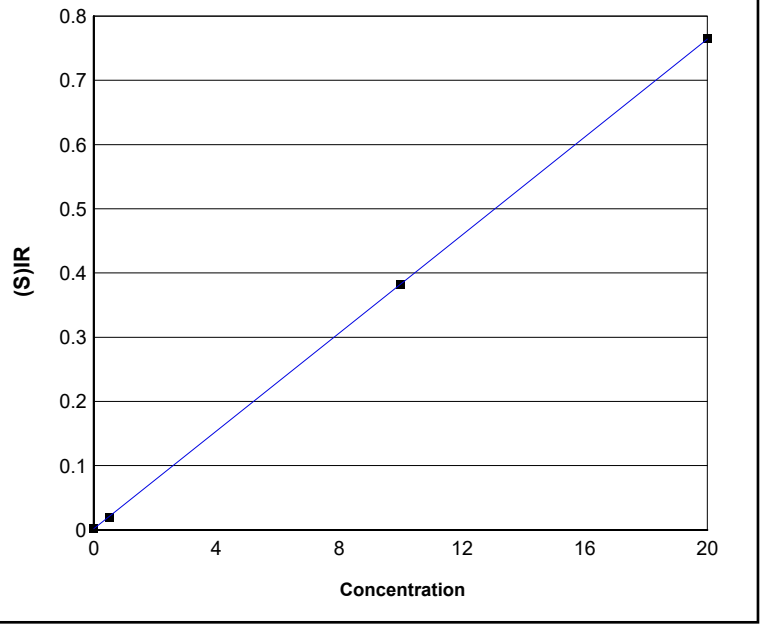
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000000511	0.0000000511	0.00000	-0.00034446	0.000023021	1
IC-6811103	0.020000	0.020023	0.000023260	0.11630	0.0037748	0.0000084065	1
IC-6817081	1.0000	0.99258	-0.0074172	-0.74172	0.20515	0.000028345	1
IC-6797476	2.0000	2.0074	0.0073940	0.36970	0.41520	0.0019952	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.000031632
A1 (Gain):	0.10159
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

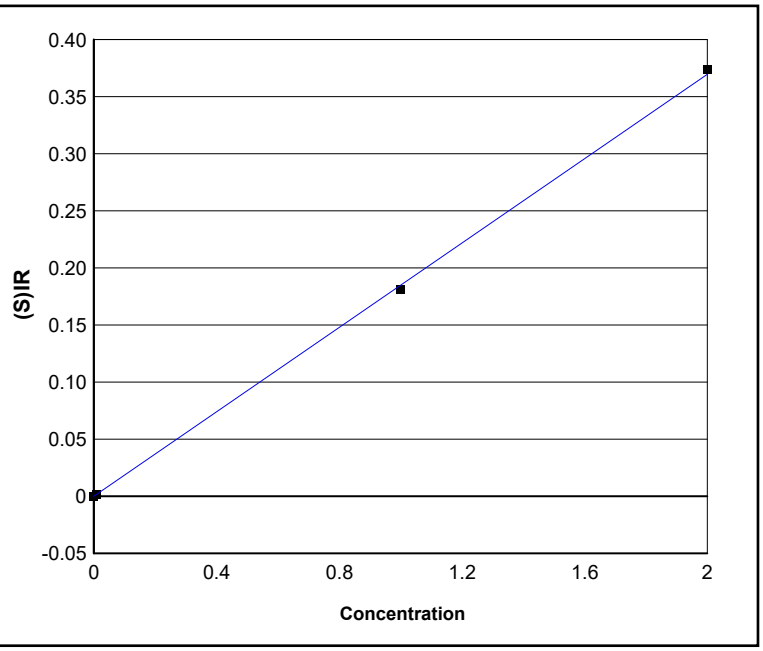
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000019869	0.0000019869	0.00000	-0.000031430	0.000052925	1
IC-6811103	0.025000	0.023172	-0.0018275	-7.3101	0.0023216	0.00014931	1
IC-6817081	1.0000	0.98542	-0.014581	-1.4581	0.099840	0.00011796	1
IC-6797476	2.0000	2.0164	0.016412	0.82059	0.20434	0.00030567	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0017668
A1 (Gain):	0.038113
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

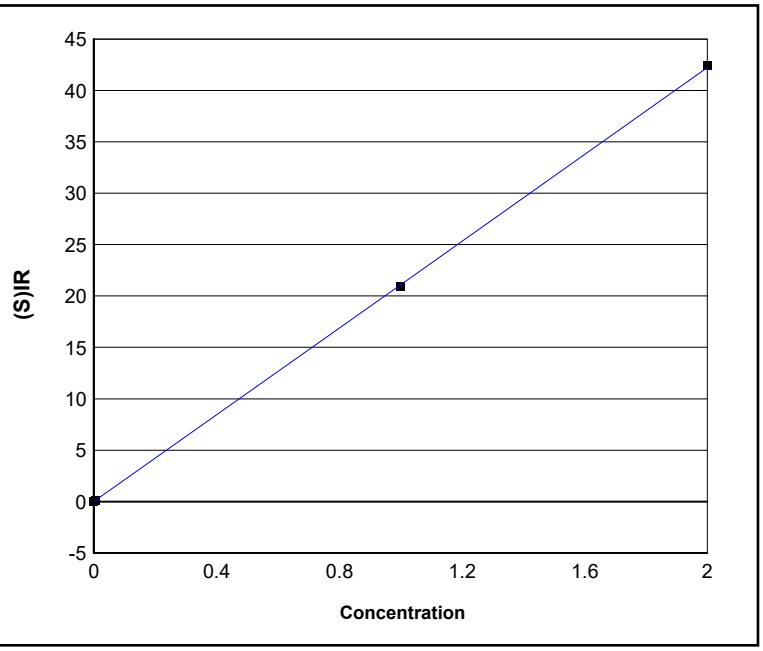
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.000028491	0.000028491	0.00000	0.0017679	0.00029859	1
IC-6811103	0.50000	0.47103	-0.028973	-5.7947	0.019719	0.00099386	1
IC-6817081	10.000	9.9903	-0.0096827	-0.096827	0.38253	0.0016022	1
IC-6797476	20.000	20.039	0.038656	0.19328	0.76550	0.0024542	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99988
A0 (Offset):	-0.000053866
A1 (Gain):	0.18481
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

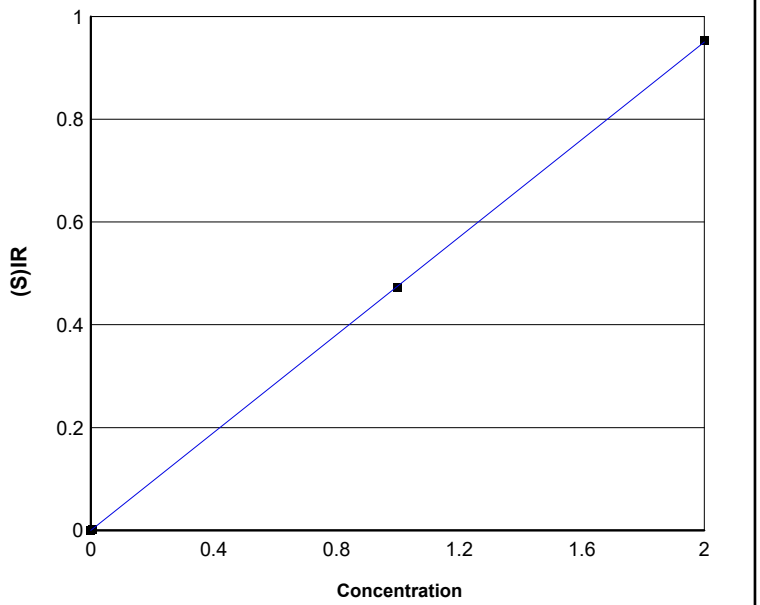
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000008634	0.0000008634	0.00000	-0.000053706	0.000077563	1
IC-6811103	0.010000	0.0092361	-0.00076390	-7.6390	0.0016530	0.000051689	1
IC-6817081	1.0000	0.97934	-0.020658	-2.0658	0.18094	0.00070851	1
IC-6797476	2.0000	2.0214	0.021422	1.0711	0.37352	0.000065378	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.0029144
A1 (Gain):	21.114
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

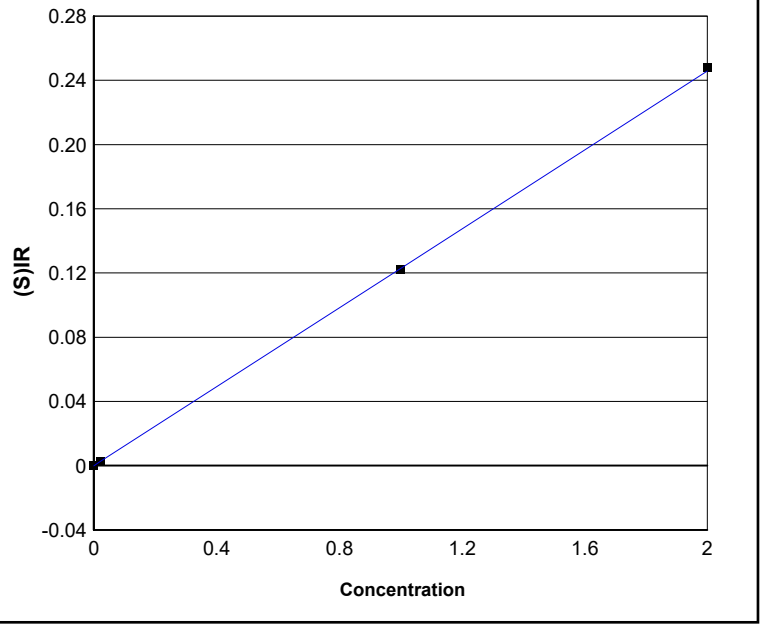
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000000916	0.0000000916	0.00000	-0.0029124	0.0012701	1
IC-6811103	0.0050000	0.0049283	-0.000071679	-1.4336	0.10114	0.0017396	1
IC-6817081	1.0000	0.99198	-0.0080215	-0.80215	20.941	0.098903	1
IC-6797476	2.0000	2.0081	0.0080931	0.40466	42.395	0.067927	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00020911
A1 (Gain):	0.47507
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

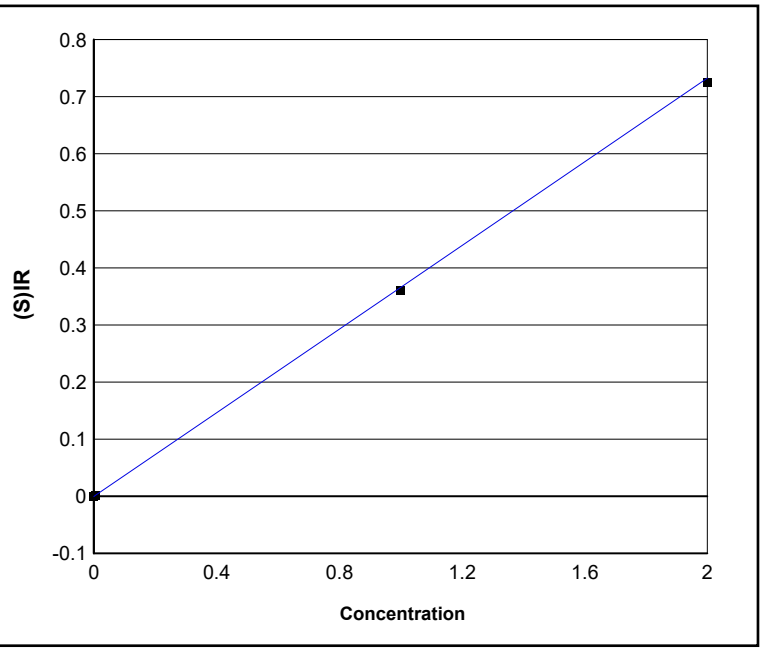
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000005832	0.0000005832	0.00000	0.00020938	0.000084723	1
IC-6811103	0.0050000	0.0044271	-0.00057285	-11.457	0.0023125	0.00011152	1
IC-6817081	1.0000	0.99527	-0.0047299	-0.47299	0.47310	0.0014261	1
IC-6797476	2.0000	2.0053	0.0053027	0.26513	0.95299	0.0018368	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.000030133
A1 (Gain):	0.12294
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

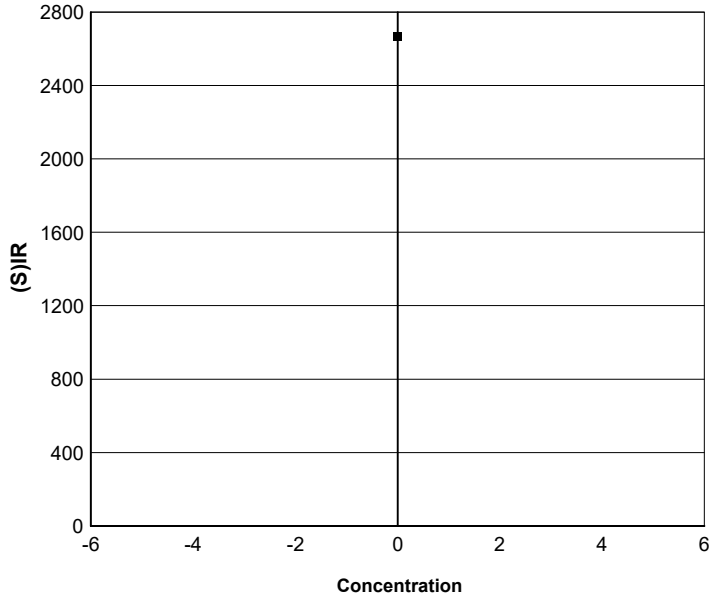
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000005113	0.0000005113	0.00000	-0.000030070	0.000035663	1
IC-6811103	0.020000	0.019566	-0.00043449	-2.1724	0.0023771	0.000045312	1
IC-6817081	1.0000	0.99189	-0.0081108	-0.81108	0.12240	0.000013255	1
IC-6797476	2.0000	2.0085	0.0085439	0.42720	0.24788	0.00024430	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00035812
A1 (Gain):	0.36647
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

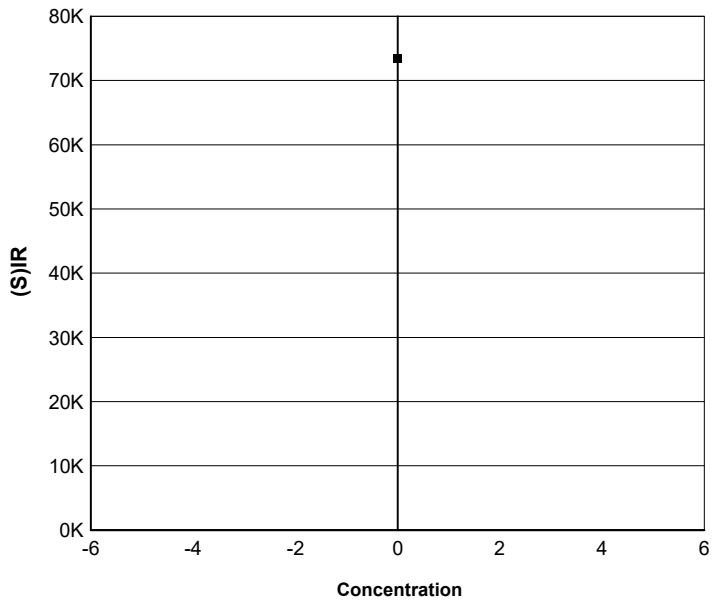
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000002830	-0.0000002830	0.00000	-0.00035822	0.0000079125	1
IC-6811103	0.0050000	0.0052922	0.00029219	5.8437	0.0015361	0.000029527	1
IC-6817081	1.0000	0.99662	-0.0033777	-0.33777	0.36079	0.0016667	1
IC-6797476	2.0000	2.0031	0.0030895	0.15448	0.72555	0.000082751	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 6:55:59PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

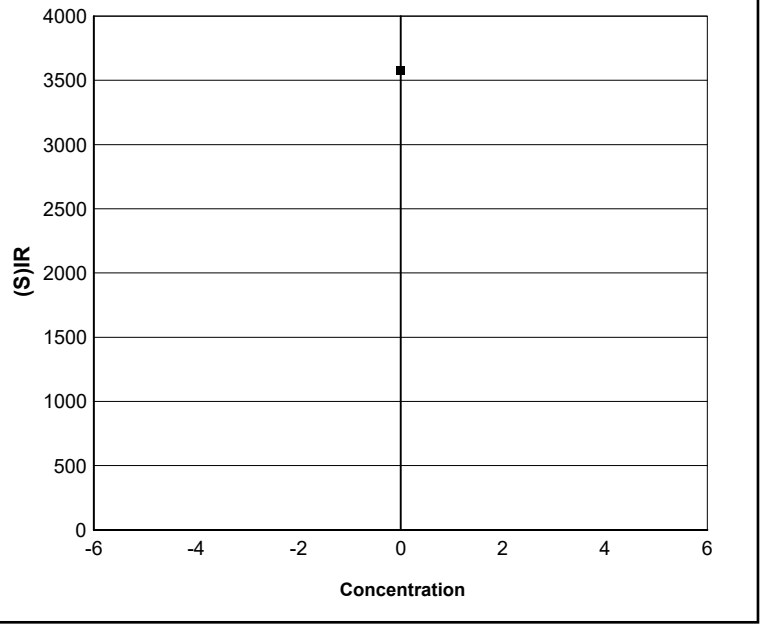
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.0000			0.0000	2,670	2.902	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 6:55:59PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

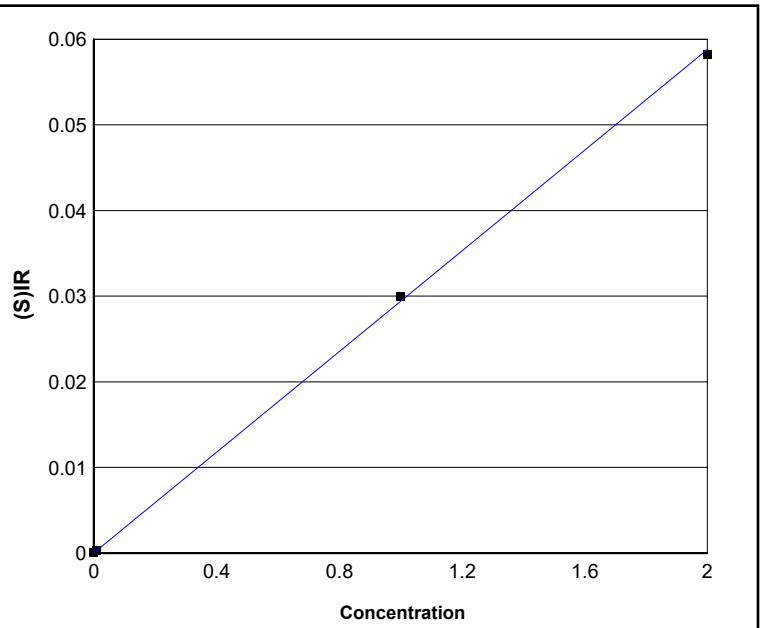
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.0000			0.0000	73,370	180.1	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 6:55:59PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.0000			0.0000	3,578	27.61	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	12/15/2021 7:07:14PM
Date of Fit:	12/15/2021 8:00:05PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.000026421
A1 (Gain):	0.029395
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6810114	0.00000	0.0000003364	0.0000003364	0.00000	0.000026430	0.0000067977	1
IC-6811103	0.010000	0.0095714	-0.00042859	-4.2859	0.00030760	0.0000091216	1
IC-6817081	1.0000	1.0180	0.018003	1.8003	0.029908	0.00011175	1
IC-6797476	2.0000	1.9824	-0.017574	-0.87870	0.058214	0.000062172	1

Sample Name: ICIS-6810114 Acquired: 12/15/2021 18:52:08 Type: Cal
Method: ICAP1 New Stds (v402) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00018**	**.00092**	**-.00021**	**.00363**	**.01170**	**.00347**	**-.00005**
Stddev	.00009	.00011	.00006	.00010	.00045	.00006	.00018
%RSD	49.253	12.392	26.967	2.7981	3.8103	1.6654	346.28
#1	-.00024	.00100	-.00017	.00370	.01202	.00351	.00007
#2	-.00012	.00084	-.00025	.00356	.01139	.00343	-.00018

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00893**	**.00079**	**.0020**	**-.00013**	**.00005**	**-.00028**	**.00110**
Stddev	.00024	.00011	.0018	.00003	.00001	.00004	.00074
%RSD	2.7012	14.384	87.45	23.574	17.949	12.486	67.431
#1	.00910	.00087	.0008	-.00016	.00005	-.00026	.00163
#2	.00876	.00071	.0032	-.00011	.00006	-.00031	.00058

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00006**	**.01962**	**.00721**	**-.00004**	**-.00001**	**.00021**	**.02409**
Stddev	.00003	.00119	.00010	.00007	.00024	.00003	.00288
%RSD	46.453	6.0561	1.4070	159.96	1815.1	16.699	11.962
#1	.00008	.01878	.00714	-.00009	-.00018	.00018	.02613
#2	.00004	.02046	.00728	.00001	.00015	.00023	.02206

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01440**	**-.02098**	**.00119**	**-.00014**	**-.0001**	**-.00034**	**-.00003**
Stddev	.00289	.00190	.00005	.00015	.0001	.00002	.00005
%RSD	20.064	9.0519	3.9225	104.02	219.6	6.6834	168.39
#1	.01236	-.01964	.00122	-.00025	.0000	-.00036	-.00007
#2	.01644	-.02232	.00115	-.00004	-.0001	-.00033	.00001

Sample Name: ICIS-6810114 Acquired: 12/15/2021 18:52:08 Type: Cal
Method: ICAP1 New Stds (v402) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00177	-.00005	-.00291	.00021	-.00003	-.00036	.00003
Stddev	.00030	.00008	.00127	.00008	.00004	.00001	.00001
%RSD	16.890	144.42	43.611	40.463	118.60	2.2088	25.719
#1	.00198	-.00011	-.00381	.00015	-.00006	-.00035	.00002
#2	.00156	.00000	-.00201	.00027	-.00000	-.00036	.00003

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4120.8	2669.5	73375.	3578.2
Stddev	2.7	2.9	180.	27.6
%RSD	.06496	.10870	.24542	.77170
#1	4122.7	2671.6	73502.	3597.7
#2	4118.9	2667.5	73248.	3558.6

Sample Name: IC-6811103 Acquired: 12/15/2021 18:56:03 Type: Cal
Method: ICAP1 New Stds (v402) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00175**	**.00600**	**.00130**	**.01582**	**.03866**	**.03127**	**.01881**
Stddev	.00009	.00072	.00019	.00028	.00213	.00023	.00014
%RSD	4.9274	12.068	14.514	1.7796	5.5003	.74880	.76331
#1	.00169	.00652	.00117	.01602	.04016	.03111	.01871
#2	.00181	.00549	.00143	.01562	.03715	.03144	.01891

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.14292**	**.00802**	**.00499**	**.00096**	**.00292**	**.00617**	**.00032**
Stddev	.00028	.00002	.00022	.00002	.00002	.00051	.00081
%RSD	.19517	.29562	4.4343	2.2577	.78322	8.2159	251.87
#1	.14311	.00800	.00483	.00097	.00290	.00581	.00089
#2	.14272	.00804	.00514	.00094	.00294	.00653	-.00025

Elem	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.08245**	**.09747**	**.00473**	**.00246**	**.00432**	**.01905**	**.48592**
Stddev	.00474	.00105	.00003	.00000	.00010	.00046	.00445
%RSD	5.7550	1.0755	.64937	.10333	2.3853	2.4218	.91483
#1	.07909	.09673	.00471	.00246	.00425	.01937	.48278
#2	.08580	.09821	.00475	.00245	.00440	.01872	.48906

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00067**	**.00954**	**.00246**	**.0073**	**.00377**	**.00232**	**.01972**
Stddev	.00005	.00011	.00000	.0000	.00001	.00015	.00099
%RSD	7.3075	1.1361	.17313	.1006	.22270	6.4314	5.0401
#1	.00071	.00962	.00247	.0073	.00378	.00222	.01902
#2	.00064	.00946	.00246	.0073	.00377	.00243	.02042

Sample Name: IC-6811103 Acquired: 12/15/2021 18:56:03 Type: Cal
Method: ICAP1 New Stds (v402) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00165	.10114	.00231	.00238	.00154	.00031
Stddev	.00005	.00174	.00011	.00005	.00003	.00001
%RSD	3.1269	1.7199	4.8227	1.9062	1.9222	2.9654
#1	.00169	.09991	.00239	.00241	.00152	.00031
#2	.00162	.10237	.00223	.00235	.00156	.00030

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4095.0	2651.6	73459.	3583.5
Stddev	1.0	.1	177.	3.7
%RSD	.02475	.00321	.24098	.10333
#1	4095.7	2651.6	73584.	3580.9
#2	4094.3	2651.5	73334.	3586.1

Sample Name: IC-6817081 Acquired: 12/15/2021 18:59:58 Type: Cal
Method: ICAP1 New Stds (v402) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.33409	1.4488	.10861	.70307	14.028	13.863	9.3321
Stddev	.00070	.0065	.00001	.00149	.076	.039	.0316
%RSD	.21088	.44661	.01102	.21156	.53966	.27956	.33898
#1	.33459	1.4443	.10860	.70412	13.975	13.891	9.3097
#2	.33360	1.4534	.10861	.70202	14.082	13.836	9.3544

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	13.218	3.4649	.0599	1.3395	.23101	.31556	5.2673
Stddev	.045	.0072	.0007	.0010	.00138	.00077	.0138
%RSD	.33837	.20866	1.214	.07792	.59658	.24412	.26127
#1	13.187	3.4700	.0605	1.3402	.23198	.31611	5.2576
#2	13.250	3.4598	.0594	1.3387	.23003	.31502	5.2770

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.31565	7.3601	3.2251	1.2384	.60933	1.3440	1.0402
Stddev	.00100	.0248	.0026	.0068	.00196	.0039	.0010
%RSD	.31605	.33752	.08113	.54809	.32204	.28676	.09591
#1	.31494	7.3426	3.2232	1.2432	.60795	1.3467	1.0395
#2	.31635	7.3777	3.2269	1.2336	.61072	1.3413	1.0409

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	24.149	.97988	.87108	.26512	1.013	.20515	.09984
Stddev	.113	.00488	.00109	.00017	.002	.00003	.00012
%RSD	.46772	.49795	.12487	.06378	.1871	.01382	.11815
#1	24.069	.97643	.87185	.26500	1.014	.20513	.09976
#2	24.229	.98333	.87031	.26524	1.012	.20517	.09992

Sample Name: IC-6817081 Acquired: 12/15/2021 18:59:58 Type: Cal
Method: ICAP1 New Stds (v402) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.38253	.18094	20.941	.47310	.12240	.36079	.02991
Stddev	.00160	.00071	.099	.00143	.00001	.00167	.00011
%RSD	.41885	.39158	.47228	.30143	.01083	.46195	.37366
#1	.38139	.18144	20.871	.47410	.12241	.36197	.02999
#2	.38366	.18043	21.011	.47209	.12239	.35961	.02983

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3528.8	2512.2	68524.	3535.6
Stddev	4.1	4.4	202.	24.6
%RSD	.11702	.17536	.29491	.69621
#1	3525.9	2509.0	68381.	3553.0
#2	3531.7	2515.3	68667.	3518.2

Sample Name: IC-6797476 Acquired: 12/15/2021 19:03:39 Type: Cal
Method: ICAP1 New Stds (v402) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.67554**	**2.9414**	**.22210**	**1.3566**	**28.490**	**27.187**	**18.573**
Stddev	.00069	.0034	.00012	.0000	.065	.003	.060
%RSD	.10267	.11441	.05385	.00232	.22733	.01031	.32041
#1	.67603	2.9390	.22218	1.3566	28.444	27.189	18.531
#2	.67505	2.9437	.22201	1.3566	28.535	27.185	18.615

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**26.589**	**7.0208**	**.1188**	**2.7584**	**.46110**	**.64681**	**10.477**
Stddev	.101	.0039	.0015	.0021	.00013	.00190	.022
%RSD	.38169	.05538	1.269	.07462	.02739	.29329	.21463
#1	26.517	7.0236	.1198	2.7569	.46101	.64815	10.461
#2	26.661	7.0181	.1177	2.7598	.46119	.64546	10.493

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.63497**	**14.964**	**6.6132**	**2.5386**	**1.2240**	**2.6921**	**2.0443**
Stddev	.00058	.042	.0228	.0019	.0020	.0023	.0068
%RSD	.09073	.28395	.34507	.07377	.16042	.08498	.33240
#1	.63457	14.934	6.5971	2.5399	1.2226	2.6938	2.0395
#2	.63538	14.994	6.6294	2.5373	1.2254	2.6905	2.0491

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**48.850**	**2.0136**	**1.7800**	**.54116**	**2.068**	**.41520**	**.20434**
Stddev	.081	.0086	.0009	.00124	.003	.00200	.00031
%RSD	.16618	.42873	.05222	.22910	.1305	.48053	.14959
#1	48.793	2.0075	1.7806	.54029	2.070	.41661	.20456
#2	48.908	2.0197	1.7793	.54204	2.066	.41379	.20413

Sample Name: IC-6797476 Acquired: 12/15/2021 19:03:39 Type: Cal
Method: ICAP1 New Stds (v402) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.76550	.37352	42.395	.95299	.24788	.72555	.05821
Stddev	.00245	.00007	.068	.00184	.00024	.00008	.00006
%RSD	.32060	.01750	.16022	.19274	.09856	.01141	.10680
#1	.76376	.37347	42.347	.95429	.24805	.72561	.05826
#2	.76723	.37356	42.443	.95170	.24770	.72549	.05817

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3313.2	2467.2	66692.	3510.0
Stddev	.0	2.1	160.	6.7
%RSD	.00043	.08667	.24047	.19102
#1	3313.2	2465.7	66578.	3514.8
#2	3313.2	2468.8	66805.	3505.3

Sample Name: ICV-6817392 Acquired: 12/15/2021 19:07:19 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.71808	35.967	.72819	.73770	.72199	.73080	36.756
Stddev	.00026	.286	.00005	.00156	.00625	.00436	.189
%RSD	.03575	.79615	.00643	.21122	.86560	.59592	.51294
#1	.71826	35.765	.72816	.73660	.71757	.72772	36.623
#2	.71789	36.170	.72822	.73880	.72641	.73388	36.890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.72937	-.0440	W .70996	.73379	W .69221	37.230	35.939
Stddev	.00005	.0188	.00027	.00044	.00147	.164	.050
%RSD	.00618	42.78	.03849	.05985	.21229	.44020	.13848
#1	.72940	-.0307	.71015	.73410	.69118	37.114	35.903
#2	.72933	-.0573	.70977	.73348	.69325	37.346	35.974
Check ?	Chk Pass	None	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value			.75000		.75000		
Range			-5.0000%		-5.0000%		

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W .70895	36.278	.73599	.76579	35.768	.72070	.72652
Stddev	.00289	.004	.00032	.00167	.269	.00010	.00309
%RSD	.40784	.01231	.04414	.21795	.75083	.01391	.42560
#1	.70691	36.281	.73622	.76697	35.578	.72063	.72870
#2	.71100	36.275	.73576	.76461	35.957	.72077	.72433
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.75000						
Range	-5.0000%						

Sample Name: ICV-6817392 Acquired: 12/15/2021 19:07:19 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.63	.78027	.72689	7.5119	.71645	.71813	.72885
Stddev	.06	.00099	.00108	.0712	.00167	.00438	.00044
%RSD	.3192	.12699	.14818	.94716	.23247	.60982	.05985
#1	18.59	.77957	.72613	7.4616	.71527	.71503	.72916
#2	18.67	.78097	.72765	7.5622	.71762	.72122	.72854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.73111	.72796	.72215
Stddev	.00282	.00010	.00182
%RSD	.38605	.01390	.25220
#1	.73311	.72788	.72087
#2	.72912	.72803	.72344
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3603.7	2519.5	69339.	3551.0
Stddev	2.6	.6	111.	14.8
%RSD	.07301	.02278	.15994	.41589
#1	3601.9	2519.9	69261.	3561.5
#2	3605.6	2519.1	69418.	3540.6

Sample Name: ICB-6810114 Acquired: 12/15/2021 19:11:01 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00570**	**.00142**	**-.00086**	**.00001**	**.00005**	**-.00533**
Stddev	.00044	.00309	.00122	.00019	.00002	.00001	.00216
%RSD	145.57	54.134	86.246	22.405	219.64	24.400	40.563
#1	-.00062	.00789	.00055	-.00072	-.00001	.00004	-.00380
#2	.00001	.00352	.00228	-.00099	.00002	.00006	-.00686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.0321**	**-.00005**	**-.00007**	**-.00023**	**.00312**	**-.03282**
Stddev	.00009	.0029	.00004	.00024	.00005	.00281	.00876
%RSD	514.51	8.983	73.345	336.04	23.358	89.985	26.682
#1	.00004	-.0341	-.00002	.00010	-.00027	.00113	-.03901
#2	-.00008	-.0300	-.00007	-.00025	-.00019	.00510	-.02663
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00138**	**-.00164**	**.00001**	F **-.01189**	**-.01076**	**-.00005**	**.00044**
Stddev	.00018	.00023	.00008	.00097	.00161	.00010	.00058
%RSD	13.017	13.910	1396.9	8.1479	14.989	216.37	133.05
#1	-.00126	-.00180	.00006	-.01120	-.01190	-.00012	.00003
#2	-.00151	-.00147	-.00005	-.01257	-.00962	.00002	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.01000			
Low Limit				-.01000			

Sample Name: ICB-6810114 Acquired: 12/15/2021 19:11:01 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.00072	.00320	-.00244	.00047	-.00004	-.00043
Stddev	.0009	.00042	.00238	.00149	.00058	.00009	.00007
%RSD	104.9	58.478	74.480	61.059	124.13	207.82	16.431
#1	.0015	.00102	.00151	-.00350	.00088	.00002	-.00038
#2	.0002	.00042	.00488	-.00139	.00006	-.00010	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.00101	.00018	-.00052
Stddev	.00131	.00006	.00025
%RSD	129.74	34.184	48.039
#1	.00008	.00022	-.00035
#2	.00194	.00014	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4133.5	2595.1	73339.	3555.2
Stddev	7.1	9.6	210.	15.1
%RSD	.17253	.36875	.28614	.42491
#1	4128.5	2588.4	73191.	3565.8
#2	4138.6	2601.9	73488.	3544.5

Sample Name: ICVL-6811103 Acquired: 12/15/2021 19:14:55 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00539**	**.18993**	**.01504**	**.01849**	**.00204**	**.00213**	**.50458**
Stddev	.00043	.00276	.00068	.00027	.00002	.00003	.00008
%RSD	7.9470	1.4514	4.5536	1.4857	1.0744	1.2801	.01665
#1	.00509	.18798	.01456	.01830	.00202	.00215	.50452
#2	.00569	.19188	.01553	.01869	.00205	.00212	.50464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**-.0345**	**.00377**	**.00388**	**.00967**	**.04599**	**.43236**
Stddev	.00003	.0201	.00010	.00003	.00023	.00190	.02516
%RSD	1.2835	58.39	2.5976	.77455	2.4018	4.1329	5.8199
#1	.00207	-.0488	.00384	.00390	.00984	.04465	.45015
#2	.00211	-.0203	.00371	.00386	.00951	.04734	.41457
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02733**	**.19413**	**.00304**	F **-.00849**	**.94994**	**.00953**	**.00979**
Stddev	.00037	.00129	.00002	.00006	.00453	.00016	.00003
%RSD	1.3531	.66396	.70033	.65910	.47676	1.7234	.27549
#1	.02707	.19504	.00306	-.00853	.94674	.00964	.00977
#2	.02759	.19322	.00303	-.00845	.95315	.00941	.00981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				.01000			
Range				-50.000%			

Sample Name: ICVL-6811103 Acquired: 12/15/2021 19:14:55 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1829	.02029	.02269	.48576	.00959	.00490	.00437
Stddev	.0023	.00064	.00119	.00159	.00064	.00000	.00024
%RSD	1.260	3.1683	5.2502	.32745	6.6482	.06285	5.5763
#1	.1845	.02074	.02185	.48688	.00914	.00490	.00454
#2	.1813	.01983	.02353	.48463	.01004	.00490	.00420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.02065	.00511	.00984
Stddev	.00074	.00011	.00009
%RSD	3.5909	2.2450	.95790
#1	.02013	.00519	.00991
#2	.02118	.00503	.00978
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4093.2	2626.0	74139.	3641.0
Stddev	6.7	2.0	93.	14.7
%RSD	.16403	.07451	.12522	.40426
#1	4097.9	2624.6	74204.	3630.6
#2	4088.4	2627.4	74073.	3651.4

Sample Name: ICSA-6812501 Acquired: 12/15/2021 19:18:50 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00130**	**505.65**	**-.01318**	**-.00134**	**.01386**	**.00004**	**475.46**
Stddev	.00003	.32	.00008	.00005	.00005	.00012	1.95
%RSD	1.9462	.06284	.63636	3.6045	.35864	320.94	.41068
#1	-.00132	505.88	-.01312	-.00137	.01382	.00012	474.08
#2	-.00128	505.43	-.01323	-.00130	.01389	-.00005	476.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.0358**	**-.00027**	**.00205**	**.00035**	**193.51**	**.05805**
Stddev	.00005	.0085	.00002	.00062	.00012	.05	.00573
%RSD	8.9878	23.68	9.0220	30.480	34.143	.02803	9.8629
#1	.00054	.0418	-.00029	.00249	.00043	193.47	.05400
#2	.00061	.0298	-.00025	.00161	.00026	193.55	.06210
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00132**	**515.66**	**-.00102**	F **-.02283**	**.04523**	**.00245**	**.00250**
Stddev	.00019	3.85	.00004	.00022	.00366	.00008	.00025
%RSD	14.765	.74664	3.7764	.98113	8.0810	3.4273	10.079
#1	.00145	518.38	-.00099	-.02299	.04782	.00251	.00268
#2	.00118	512.94	-.00104	-.02267	.04265	.00239	.00232
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.02000			
Low Limit				-.02000			

Sample Name: ICSA-6812501 Acquired: 12/15/2021 19:18:50 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W -.2380	.00026	.00473	.01863	-.00347	.01333	.00151
Stddev	.0028	.00202	.00917	.02106	.00207	.00011	.00012
%RSD	1.195	778.43	193.70	113.07	59.705	.79146	8.0561
#1	-.2400	.00168	-.00175	.03352	-.00493	.01326	.00160
#2	-.2360	-.00117	.01122	.00374	-.00200	.01341	.00143
Check ?	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit	.2000						
Low Limit	-.2000						

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.00076	-.00169	.00105
Stddev	.00208	.00006	.00078
%RSD	274.01	3.3094	74.221
#1	-.00222	-.00173	.00050
#2	.00071	-.00165	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3010.3	2299.7	62299.	3470.4
Stddev	5.3	5.7	161.	18.2
%RSD	.17576	.24697	.25836	.52388
#1	3006.5	2295.7	62413.	3483.2
#2	3014.0	2303.7	62185.	3457.5

Sample Name: ICSAB-6743474 Acquired: 12/15/2021 19:22:49 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53738**	**494.59**	**.49035**	**4.8168**	**.52417**	**.24937**	**466.32**	**.51371**
Stddev	.00026	3.79	.00091	.0147	.00164	.00224	5.82	.00156
%RSD	.04928	.76695	.18535	.30467	.31289	.89812	1.2480	.30463
#1	.53757	497.27	.48970	4.8272	.52533	.25096	470.43	.51482
#2	.53720	491.91	.49099	4.8065	.52301	.24779	462.20	.51260
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0059**	**.48909**	**.48936**	**.51132**	**188.13**	**5.2333**	**.00056**	**496.65**
Stddev	.0063	.00052	.00086	.00218	.94	.0813	.00007	2.20
%RSD	106.1	.10595	.17666	.42607	.50211	1.5525	11.971	.44281
#1	.0015	.48872	.48874	.51286	188.80	5.2908	.00061	498.21
#2	.0103	.48946	.48997	.50978	187.46	5.1759	.00051	495.10
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48676**	**.48036**	**5.1999**	**.49519**	**.50431**	**-.2568**	**.50565**	**.49184**
Stddev	.00049	.00045	.0263	.00024	.00103	.0135	.00252	.00365
%RSD	.10070	.09373	.50682	.04859	.20384	5.246	.49875	.74151
#1	.48641	.48068	5.2186	.49502	.50358	-.2664	.50387	.49442
#2	.48710	.48004	5.1813	.49536	.50503	-.2473	.50744	.48926
Check ?	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICSAB-6743474 Acquired: 12/15/2021 19:22:49 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.8488**	**.48885**	**.50604**	**.49946**	**.49097**	**.49100**	**.46253**
Stddev	.0531	.00077	.00212	.00042	.00323	.00060	.00354
%RSD	1.0942	.15658	.41911	.08355	.65840	.12179	.76544
#1	4.8863	.48831	.50754	.49916	.49325	.49058	.46003
#2	4.8112	.48939	.50454	.49975	.48868	.49142	.46503
Check ?	Chk Pass	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3009.6**	**2310.8**	**62135.**	**3431.0**
Stddev	.5	8.9	73.	29.6
%RSD	.01511	.38699	.11748	.86206
#1	3009.2	2304.5	62084.	3410.1
#2	3009.9	2317.1	62187.	3451.9

Sample Name: ICEX1 Acquired: 12/15/2021 19:26:44 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.10748**	**4.8587**	**.00105**	**-.00011**	**.00120**
Stddev	.00009	.01617	.0014	.00020	.00000	.00003
%RSD	161.86	15.041	.02953	18.532	.18505	2.8731
#1	-.00012	-.11891	4.8577	.00119	-.00011	.00117
#2	.00001	-.09605	4.8597	.00091	-.00011	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01103**	**-.00007**	**-.0336**	**.00021**	**.00071**	**25.306**
Stddev	.00309	.00010	.0019	.00010	.00023	.043
%RSD	28.029	156.88	5.706	48.683	31.815	.16801
#1	.01322	-.00014	-.0350	.00028	.00055	25.336
#2	.00885	.00001	-.0322	.00014	.00087	25.275
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX1 Acquired: 12/15/2021 19:26:44 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01003	-.09161	-.00158	.00804	-.00009	F -.02092
Stddev	.00693	.02303	.00091	.00352	.00000	.00030
%RSD	69.033	25.136	57.497	43.756	2.1537	1.4370
#1	.00514	-.10789	-.00094	.01053	-.00008	-.02070
#2	.01493	-.07532	-.00223	.00555	-.00009	-.02113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.01000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01732	-.00001	-.00378	-.0036	.00298	.00176
Stddev	.00201	.00006	.00082	.0004	.00122	.00006
%RSD	11.592	537.12	21.568	12.09	41.038	3.4764
#1	-.01590	.00003	-.00320	-.0039	.00385	.00172
#2	-.01874	-.00005	-.00436	-.0033	.00212	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX1 Acquired: 12/15/2021 19:26:44 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01107	.00041	-.00009	-.00041	.00946	4.9989
Stddev	.00679	.00026	.00001	.00006	.00032	.0054
%RSD	61.323	63.977	16.881	14.621	3.3395	.10790
#1	.01587	.00022	-.00008	-.00037	.00968	4.9951
#2	.00627	.00059	-.00010	-.00045	.00923	5.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	-.00034
Stddev	.00066
%RSD	196.87
#1	.00013
#2	-.00080
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICEX1 Acquired: 12/15/2021 19:26:44 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4089.4	2643.6	73377.	3599.0
Stddev	3.2	4.9	226.	.7
%RSD	.07773	.18714	.30733	.01974
#1	4087.2	2640.1	73217.	3598.5
#2	4091.7	2647.1	73536.	3599.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.237%	99.029%	100.00%	100.58%
Range				

Sample Name: ICEX2 Acquired: 12/15/2021 19:30:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00317	.00321	.00653	.00107	-.00004	.00041
Stddev	.00004	.01204	.00058	.00040	.00001	.00006
%RSD	1.3314	374.90	8.9060	36.796	17.374	14.079
#1	.00314	.01173	.00612	.00079	-.00004	.00037
#2	.00320	-.00530	.00694	.00135	-.00003	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00101	.00029	-.0449	-.00180	-.00043	-.00442
Stddev	.00068	.00003	.0064	.00024	.00022	.00021
%RSD	67.201	10.812	14.20	13.108	51.429	4.7460
#1	.00149	.00032	-.0404	-.00163	-.00058	-.00427
#2	.00053	.00027	-.0495	-.00196	-.00027	-.00457
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX2 Acquired: 12/15/2021 19:30:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00339**	**-.09362**	**9.5777**	**-.04315**	**.00026**	F **-.02033**
Stddev	.00006	.01441	.0184	.00321	.00001	.00015
%RSD	1.8218	15.389	.19157	7.4429	2.8998	.71661
#1	-.00343	-.10381	9.5906	-.04542	.00026	-.02022
#2	-.00334	-.08343	9.5647	-.04087	.00025	-.02043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.01000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01704**	**.00598**	**-.00186**	**-.0405**	**.00048**	**.00186**
Stddev	.01094	.00034	.00045	.0029	.00012	.00065
%RSD	64.189	5.6071	24.319	7.113	26.140	34.674
#1	-.00931	.00622	-.00154	-.0425	.00039	.00232
#2	-.02478	.00574	-.00218	-.0384	.00057	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX2 Acquired: 12/15/2021 19:30:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.253**	**-.00134**	**-.00002**	**20.323**	**20.601**	**-.00052**
Stddev	.304	.00061	.00002	.029	.017	.00006
%RSD	.60507	45.059	66.827	.14223	.08232	11.804
#1	50.038	-.00177	-.00004	20.303	20.613	-.00057
#2	50.468	-.00092	-.00001	20.343	20.589	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00111**
Stddev	.00038
%RSD	34.475
#1	-.00084
#2	-.00138
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICEX2 Acquired: 12/15/2021 19:30:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3830.2	2584.1	70764.	3578.9
Stddev	2.2	.3	88.	18.8
%RSD	.05866	.01126	.12416	.52401
#1	3831.8	2584.3	70826.	3565.6
#2	3828.6	2583.9	70702.	3592.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.948%	96.799%	96.441%	100.02%
Range				

Sample Name: ICEX3 Acquired: 12/15/2021 19:34:44 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**-.00159**	**.00326**	**-.00008**	**-.00013**	**.00001**
Stddev	.00017	.00186	.00001	.00053	.00001	.00002
%RSD	20.999	116.96	.44059	635.33	6.4294	368.19
#1	-.00094	-.00290	.00325	.00029	-.00013	-.00001
#2	-.00070	-.00027	.00327	-.00045	-.00012	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00959**	**.00017**	**-.2096**	**.00014**	**-.00361**	**.00050**
Stddev	.00149	.00012	.0153	.00004	.00016	.00024
%RSD	15.558	70.273	7.309	30.888	4.4372	48.508
#1	.00854	.00008	-.2205	.00017	-.00350	.00033
#2	.01065	.00025	-.1988	.00011	-.00372	.00068
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX3 Acquired: 12/15/2021 19:34:44 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576-2	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}2	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00171	-.12009	.00197	-.01963	50.603	F -.02519
Stddev	.00339	.00055	.00020	.00202	.075	.00015
%RSD	198.23	.45872	10.303	10.268	.14906	.59275
#1	-.00069	-.11970	.00212	-.01820	50.656	-.02509
#2	.00410	-.12048	.00183	-.02105	50.549	-.02530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.01000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01093	.00006	.00517	95.20	-.00383	-.00044
Stddev	.00185	.00004	.00082	.13	.00027	.00016
%RSD	16.954	73.843	15.815	.1402	6.9664	36.113
#1	-.01224	.00009	.00575	95.10	-.00402	-.00033
#2	-.00962	.00003	.00459	95.29	-.00364	-.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX3 Acquired: 12/15/2021 19:34:44 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04884	.00009	-.00003	-.00064	-.00001	-.00005
Stddev	.00029	.00049	.00002	.00036	.00041	.00010
%RSD	.58971	560.90	82.817	56.271	2836.6	216.37
#1	.04904	-.00026	-.00005	-.00090	-.00030	.00002
#2	.04864	.00044	-.00001	-.00039	.00027	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00019
Stddev	.00001
%RSD	5.2745
#1	.00020
#2	.00018
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICEX3 Acquired: 12/15/2021 19:34:44 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4057.2	2628.9	72782.	3586.1
Stddev	9.3	6.6	33.	4.8
%RSD	.22839	.25075	.04466	.13349
#1	4050.6	2624.2	72805.	3589.5
#2	4063.7	2633.5	72759.	3582.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.456%	98.477%	99.192%	100.22%
Range				

Sample Name: ICEX4 Acquired: 12/15/2021 19:38:43 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.01549**	**-.01030**	**-.00175**	**-.00004**	**.00003**
Stddev	.00016	.01962	.00079	.00021	.00000	.00002
%RSD	49.762	126.67	7.6978	11.747	3.5183	92.234
#1	-.00044	-.02936	-.00974	-.00190	-.00004	.00001
#2	-.00021	-.00162	-.01086	-.00161	-.00004	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00284**	**-.00059**	**-.0146**	**19.242**	**10.340**	**.00512**
Stddev	.00022	.00002	.0042	.015	.084	.00014
%RSD	7.7565	3.5832	28.62	.07760	.81429	2.7283
#1	.00269	-.00061	-.0175	19.253	10.281	.00502
#2	.00300	-.00058	-.0116	19.232	10.400	.00522
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX4 Acquired: 12/15/2021 19:38:43 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00555**	**-.12355**	**-.00084**	**-.00454**	**.00108**	F **-.02289**
Stddev	.00270	.02354	.00098	.00317	.00003	.00007
%RSD	48.722	19.052	116.58	69.869	2.7870	.30471
#1	-.00364	-.10690	-.00015	-.00678	.00106	-.02294
#2	-.00746	-.14019	-.00153	-.00230	.00111	-.02284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.01000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01630**	**9.8940**	**.00042**	**-.0008**	**-.01962**	**-.00480**
Stddev	.00108	.0013	.00016	.0007	.00060	.00279
%RSD	6.6184	.01343	37.543	88.49	3.0482	58.159
#1	-.01707	9.8930	.00031	-.0003	-.02005	-.00677
#2	-.01554	9.8949	.00054	-.0013	-.01920	-.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX4 Acquired: 12/15/2021 19:38:43 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.06773**	**-.00010**	**.00001**	**.00293**	**.00013**	**.00035**
Stddev	.01585	.00016	.00006	.00052	.00014	.00021
%RSD	23.396	169.72	469.82	17.634	103.67	58.413
#1	-.05652	.00002	-.00003	.00256	.00023	.00050
#2	-.07893	-.00021	.00005	.00329	.00004	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00262**
Stddev	.00029
%RSD	10.907
#1	-.00283
#2	-.00242
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICEX4 Acquired: 12/15/2021 19:38:43 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4049.2	2634.3	73158.	3613.6
Stddev	5.9	1.0	385.	1.0
%RSD	.14539	.03921	.52626	.02864
#1	4053.4	2633.6	73431.	3614.3
#2	4045.0	2635.1	72886.	3612.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.262%	98.682%	99.705%	100.99%
Range				

Sample Name: ICEX5 Acquired: 12/15/2021 19:42:36 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00001	.09361	-.00159	.00257	-.00018	-.00015
Stddev	.00003	.02172	.00168	.00083	.00001	.00003
%RSD	508.24	23.207	105.20	32.335	4.3230	17.365
#1	.00003	.10898	-.00041	.00316	-.00017	-.00013
#2	-.00002	.07825	-.00278	.00198	-.00018	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00043	.00016	-.0128	-.00048	-.00063	-.00094
Stddev	.00159	.00003	.0093	.00003	.00001	.00007
%RSD	372.14	18.721	72.55	6.2988	1.8167	7.7079
#1	-.00070	.00013	-.0062	-.00050	-.00064	-.00099
#2	.00155	.00018	-.0194	-.00046	-.00062	-.00089
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX5 Acquired: 12/15/2021 19:42:36 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00556**	**-.10753**	**-.00143**	**-.06590**	**.00038**	**5.2035**
Stddev	.00027	.00493	.00058	.00001	.00003	.0323
%RSD	4.7822	4.5800	40.421	.01228	7.4541	.62077
#1	-.00574	-.10405	-.00102	-.06591	.00036	5.1806
#2	-.00537	-.11102	-.00184	-.06590	.00040	5.2263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00208**	**-.00013**	**-.00103**	**-.0320**	**.00215**	**-.00119**
Stddev	.00310	.00012	.00106	.0035	.00058	.00070
%RSD	149.30	88.735	103.55	11.02	26.806	58.472
#1	-.00427	-.00005	-.00028	-.0345	.00175	-.00070
#2	.00012	-.00022	-.00178	-.0295	.00256	-.00169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX5 Acquired: 12/15/2021 19:42:36 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14808	-.00006	-.00007	.00431	.00024	.00056
Stddev	.02002	.00008	.00001	.00014	.00122	.00062
%RSD	13.519	126.32	11.807	3.2264	512.05	110.14
#1	.13392	-.00001	-.00007	.00441	-.00063	.00012
#2	.16223	-.00012	-.00006	.00422	.00110	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	-.00133
Stddev	.00031
%RSD	23.163
#1	-.00111
#2	-.00155
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICEX5 Acquired: 12/15/2021 19:42:36 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4093.6	2670.7	73793.	3618.7
Stddev	.3	1.8	4.	10.1
%RSD	.00847	.06775	.00519	.27810
#1	4093.8	2669.4	73790.	3611.6
#2	4093.3	2672.0	73796.	3625.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.339%	100.04%	100.57%	101.13%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 19:46:30 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99602	49.656	.99077	1.0046	.99320	1.0153	50.088	.97019
Stddev	.00075	.126	.00020	.0015	.00127	.0001	.123	.00018
%RSD	.07532	.25394	.01990	.15028	.12820	.01500	.24530	.01895
#1	.99549	49.567	.99063	1.0057	.99230	1.0154	50.001	.97032
#2	.99655	49.745	.99091	1.0035	.99410	1.0152	50.174	.97006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.031	.98171	1.0104	.99043	50.444	49.859	.97839	49.655
Stddev	.018	.00097	.0033	.00092	.069	.102	.00188	.036
%RSD	1.766	.09876	.32737	.09248	.13740	.20462	.19168	.07332
#1	1.044	.98103	1.0080	.98978	50.493	49.787	.97707	49.629
#2	1.018	.98240	1.0127	.99108	50.395	49.931	.97972	49.680
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0137	1.0582	50.297	1.0063	1.0136	23.89	.97585	.97394
Stddev	.0008	.0059	.090	.0001	.0010	.02	.00730	.00349
%RSD	.07467	.55548	.17869	.01044	.09587	.0909	.74798	.35865
#1	1.0132	1.0624	50.233	1.0064	1.0143	23.88	.98101	.97641
#2	1.0142	1.0541	50.360	1.0062	1.0129	23.91	.97068	.97147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/15/2021 19:46:30 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.9219	.98005	1.0048	1.0085	1.0151	1.0117	1.0247
Stddev	.0235	.00144	.0010	.0010	.0040	.0020	.0033
%RSD	.23694	.14649	.09987	.09518	.39173	.20050	.32629
#1	9.9053	.97903	1.0041	1.0078	1.0179	1.0103	1.0224
#2	9.9385	.98106	1.0055	1.0092	1.0123	1.0131	1.0271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3516.8	2559.9	68333.	3520.2
Stddev	2.7	.0	141.	25.6
%RSD	.07605	.00091	.20593	.72701
#1	3518.7	2559.9	68233.	3538.3
#2	3515.0	2559.9	68432.	3502.1

Sample Name: CCB-6810114 Acquired: 12/15/2021 19:50:10 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00239**	**.00119**	**-.00139**	**-.00003**	**.00012**	**-.00494**	**-.00001**
Stddev	.00004	.01922	.00106	.00008	.00001	.00001	.00150	.00012
%RSD	12.938	805.42	89.415	6.0755	49.836	4.8628	30.382	858.44
#1	-.00035	.01598	.00044	-.00145	-.00004	.00012	-.00388	-.00010
#2	-.00029	-.01120	.00194	-.00133	-.00002	.00013	-.00600	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0230**	**.00019**	**-.00008**	**-.00007**	**.00330**	**-.09304**	**-.00091**	**.00121**
Stddev	.0129	.00016	.00021	.00005	.00198	.00438	.00072	.00099
%RSD	55.99	84.952	254.38	70.108	60.052	4.7111	79.476	81.700
#1	-.0321	.00031	-.00023	-.00004	.00190	-.08994	-.00142	.00051
#2	-.0139	.00008	.00007	-.00011	.00471	-.09614	-.00040	.00190
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00239**	**-.02276**	**-.00012**	**.00018**	**.0021**	**.00088**	**.00095**
Stddev	.00006	.00309	.00486	.00032	.00134	.0012	.00053	.00048
%RSD	131.17	129.13	21.347	271.35	735.56	57.42	59.799	50.171
#1	.00000	-.00021	-.01932	-.00034	.00113	.0029	.00125	.00061
#2	.00008	-.00458	-.02620	.00011	-.00076	.0012	.00051	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6810114 Acquired: 12/15/2021 19:50:10 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00055	.00006	-.00006	-.00011	.00017	.00010	-.00051
Stddev	.00912	.00007	.00003	.00007	.00049	.00024	.00076
%RSD	1649.6	102.94	43.844	66.861	284.03	236.28	148.87
#1	.00589	.00011	-.00008	-.00016	.00052	-.00007	-.00104
#2	-.00700	.00002	-.00004	-.00006	-.00017	.00027	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4120.6	2632.6	72709.	3540.4
Stddev	4.7	2.7	33.	3.9
%RSD	.11285	.10378	.04523	.10917
#1	4117.3	2634.6	72732.	3537.6
#2	4123.9	2630.7	72686.	3543.1

Sample Name: CCVL-6811103 Acquired: 12/15/2021 20:04:38 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00549**	**.17204**	**.01497**	**.01772**	**.00201**	**.00201**	**.49861**
Stddev	.00040	.00523	.00106	.00003	.00000	.00002	.00421
%RSD	7.2784	3.0397	7.0710	.16878	.11453	.76171	.84368
#1	.00577	.16834	.01572	.01770	.00201	.00202	.50159
#2	.00521	.17574	.01422	.01774	.00201	.00200	.49564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**-.0461**	**.00384**	**.00380**	**.00966**	**.04949**	**.38566**
Stddev	.00003	.0030	.00009	.00038	.00012	.00065	.00410
%RSD	1.5274	6.420	2.2164	10.088	1.2309	1.3226	1.0624
#1	.00209	-.0481	.00378	.00353	.00958	.04903	.38856
#2	.00213	-.0440	.00390	.00407	.00975	.04996	.38276
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02747**	**.19337**	**.00307**	F **-.01106**	**.94156**	**.00942**	**.00980**
Stddev	.00012	.00161	.00003	.00039	.00046	.00019	.00009
%RSD	.42652	.83355	.96894	3.5181	.04858	2.0530	.89009
#1	.02739	.19451	.00305	-.01134	.94124	.00929	.00974
#2	.02756	.19223	.00310	-.01079	.94189	.00956	.00986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6811103 Acquired: 12/15/2021 20:04:38 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1879	.02077	.02070	.46507	.00933	.00492	.00491
Stddev	.0009	.00154	.00120	.00666	.00010	.00002	.00012
%RSD	.4591	7.3910	5.8093	1.4313	1.0636	.44333	2.4170
#1	.1885	.01969	.02155	.46978	.00940	.00490	.00482
#2	.1873	.02186	.01985	.46037	.00926	.00494	.00499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.01864	.00507	.00979
Stddev	.00050	.00013	.00013
%RSD	2.6737	2.6142	1.3588
#1	.01899	.00497	.00970
#2	.01829	.00516	.00989
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4080.4	2591.0	73469.	3583.6
Stddev	1.4	2.7	192.	28.3
%RSD	.03423	.10513	.26125	.79031
#1	4081.4	2592.9	73334.	3563.5
#2	4079.4	2589.1	73605.	3603.6

Sample Name: 480-193071-A-1-A Acquired: 12/15/2021 20:08:33 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**-.02364**	**-.00131**	**.00945**	**.00017**	**.00004**
Stddev	.00022	.00496	.00132	.00002	.00002	.00002
%RSD	71.457	20.973	100.47	.21548	12.171	63.805
#1	-.00015	-.02714	-.00224	.00943	.00016	.00005
#2	-.00046	-.02013	-.00038	.00946	.00019	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47853**	**-.00001**	**-.0351**	**-.00001**	**-.00007**	**.00003**
Stddev	.00754	.00008	.0204	.00014	.00012	.00026
%RSD	1.5749	759.98	58.20	1932.9	171.91	776.25
#1	.47320	-.00006	-.0495	.00009	-.00015	-.00015
#2	.48386	.00004	-.0206	-.00011	.00001	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193071-A-1-A Acquired: 12/15/2021 20:08:33 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00353**	**-.07617**	**-.00154**	**.18823**	**.00026**	F **-.02113**
Stddev	.00073	.00564	.00137	.00081	.00007	.00006
%RSD	20.696	7.4008	89.117	.43076	28.345	.26713
#1	-.00301	-.07218	-.00057	.18765	.00021	-.02117
#2	-.00404	-.08015	-.00250	.18880	.00032	-.02109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6219**	**.00000**	**.00095**	**1.158**	**.00028**	**-.00087**
Stddev	.0084	.00009	.00160	.003	.00179	.00234
%RSD	.51639	2851.9	168.08	.2248	634.66	268.84
#1	1.6160	-.00006	-.00018	1.156	-.00098	.00078
#2	1.6279	.00007	.00208	1.160	.00155	-.00252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193071-A-1-A Acquired: 12/15/2021 20:08:33 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07358	.00022	.01320	-.00052	-.00052	.00009
Stddev	.01091	.00005	.00006	.00024	.00043	.00010
%RSD	14.834	23.813	.49183	46.408	82.427	114.86
#1	.08129	.00019	.01316	-.00035	-.00083	.00016
#2	.06586	.00026	.01325	-.00070	-.00022	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	-.00019
Stddev	.00000
%RSD	.18512
#1	-.00019
#2	-.00019
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193071-A-1-A Acquired: 12/15/2021 20:08:33 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4067.8**	**2570.6**	**73671.**	**3624.6**
Stddev	2.0	3.3	451.	7.4
%RSD	.04928	.12721	.61157	.20355
#1	4066.4	2573.0	73989.	3629.9
#2	4069.2	2568.3	73352.	3619.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.713%	96.296%	100.40%	101.30%
Range				

Sample Name: 480-193071-A-2-A Acquired: 12/15/2021 20:12:28 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00574**	**.00035**	**.46724**	**.01542**	**.00002**
Stddev	.00019	.03171	.00030	.00009	.00001	.00007
%RSD	45.330	552.75	86.390	.01834	.09248	311.12
#1	-.00055	.02816	.00056	.46731	.01541	-.00003
#2	-.00029	-.01669	.00014	.46718	.01543	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.852**	**.00009**	**-.0358**	**.00010**	**.00006**	**.00254**
Stddev	.052	.00009	.0263	.00005	.00018	.00014
%RSD	.10179	97.781	73.42	45.181	313.23	5.4593
#1	50.889	.00015	-.0544	.00007	-.00007	.00245
#2	50.815	.00003	-.0172	.00014	.00018	.00264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193071-A-2-A Acquired: 12/15/2021 20:12:28 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00327**	**1.0191**	**.00877**	**27.510**	**.00224**	**.04779**
Stddev	.00358	.0380	.00058	.089	.00001	.00054
%RSD	109.70	3.7275	6.5926	.32528	.33423	1.1252
#1	-.00580	.99226	.00836	27.447	.00225	.04741
#2	-.00073	1.0460	.00918	27.574	.00224	.04817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**78.686**	**.00061**	**-.00004**	**86.43**	**-.00124**	**-.00278**
Stddev	.064	.00018	.00065	.17	.00114	.00263
%RSD	.08144	28.965	1542.3	.2016	92.344	94.630
#1	78.732	.00049	-.00050	86.30	-.00205	-.00092
#2	78.641	.00074	.00042	86.55	-.00043	-.00464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193071-A-2-A Acquired: 12/15/2021 20:12:28 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.4337**	**-.00061**	**1.2931**	**-.00013**	**.00023**	**.00056**
Stddev	.0152	.00051	.0011	.00024	.00104	.00010
%RSD	.34161	83.686	.08705	182.35	445.43	18.439
#1	4.4230	-.00096	1.2923	-.00030	.00097	.00063
#2	4.4444	-.00025	1.2939	.00004	-.00050	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00644**
Stddev	.00019
%RSD	2.9595
#1	.00657
#2	.00630
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193071-A-2-A Acquired: 12/15/2021 20:12:28 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3610.3	2425.7	68601.	3553.9
Stddev	2.3	1.5	98.	2.7
%RSD	.06301	.06033	.14351	.07657
#1	3608.7	2426.8	68670.	3552.0
#2	3611.9	2424.7	68531.	3555.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.610%	90.868%	93.494%	99.323%
Range				

Sample Name: 480-193071-A-3-A Acquired: 12/15/2021 20:16:19 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.02661**	**-.00222**	**.66014**	**.01223**	**-.00001**
Stddev	.00033	.00739	.00126	.00065	.00002	.00002
%RSD	61.783	27.792	56.639	.09804	.14037	160.71
#1	-.00078	.02138	-.00133	.66060	.01221	.00000
#2	-.00030	.03183	-.00311	.65969	.01224	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**209.58**	**.00041**	**-.0008**	**.00011**	**.00013**	**.00248**
Stddev	.10	.00007	.0336	.00007	.00024	.00022
%RSD	.04587	15.993	4248.	67.791	184.81	8.9709
#1	209.65	.00046	-.0245	.00006	.00029	.00263
#2	209.52	.00037	.0230	.00016	-.00004	.00232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193071-A-3-A Acquired: 12/15/2021 20:16:19 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00205**	**1.8059**	**.01074**	**72.699**	**.01132**	**.17507**
Stddev	.00630	.0224	.00143	.121	.00005	.00023
%RSD	307.07	1.2410	13.268	.16671	.45078	.13364
#1	-.00651	1.7900	.00973	72.784	.01128	.17523
#2	.00240	1.8217	.01175	72.613	.01136	.17490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**174.26**	**.00115**	**-.00012**	F **392.4**	**-.00135**	**-.00799**
Stddev	.76	.00004	.00050	.1	.00048	.00108
%RSD	.43399	3.8868	425.51	.0133	35.201	13.489
#1	174.80	.00118	.00024	392.4	-.00102	-.00875
#2	173.73	.00112	-.00047	392.3	-.00169	-.00723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193071-A-3-A Acquired: 12/15/2021 20:16:19 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.5952	.00028	5.1221	.00039	-.00026	.00006
Stddev	.0063	.00071	.0345	.00036	.00053	.00004
%RSD	.17380	253.90	.67335	92.395	203.30	78.275
#1	3.5996	.00078	5.1465	.00014	-.00063	.00009
#2	3.5908	-.00022	5.0977	.00065	.00011	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00164
Stddev	.00024
%RSD	14.358
#1	.00181
#2	.00148
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193071-A-3-A Acquired: 12/15/2021 20:16:19 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3339.5	2309.1	65030.	3460.7
Stddev	6.3	1.9	18.	.2
%RSD	.18977	.08405	.02769	.00687
#1	3344.0	2310.5	65043.	3460.9
#2	3335.0	2307.7	65017.	3460.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.039%	86.498%	88.627%	96.718%
Range				

Sample Name: 480-193071-A-4-A Acquired: 12/15/2021 20:20:20 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	.00600	.00170	.53899	.01297	.00002
Stddev	.00020	.02414	.00040	.00188	.00006	.00006
%RSD	116.68	402.26	23.737	.34961	.43205	226.24
#1	.00032	.02307	.00141	.53766	.01293	.00006
#2	.00003	-.01107	.00198	.54032	.01301	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.381	.00018	-.0051	.00019	.00012	.00756
Stddev	.055	.00009	.0201	.00003	.00011	.00001
%RSD	.20984	53.241	392.8	14.738	96.392	.11721
#1	26.342	.00024	.0091	.00017	.00019	.00755
#2	26.421	.00011	-.0193	.00021	.00004	.00756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193071-A-4-A Acquired: 12/15/2021 20:20:20 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00047	.80916	.00520	10.911	.00129	.06634
Stddev	.00161	.00779	.00063	.032	.00004	.00029
%RSD	345.30	.96222	12.109	.29352	2.7236	.43112
#1	.00161	.81467	.00475	10.889	.00132	.06614
#2	-.00067	.80366	.00564	10.934	.00127	.06654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	92.773	.00102	-.00058	73.70	.00117	-.00604
Stddev	.259	.00006	.00094	.12	.00151	.00014
%RSD	.27887	6.3349	161.01	.1608	128.40	2.2581
#1	92.590	.00106	-.00124	73.62	.00011	-.00594
#2	92.956	.00097	.00008	73.79	.00224	-.00614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193071-A-4-A Acquired: 12/15/2021 20:20:20 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.0007**	**-.00006**	**.83643**	**-.00050**	**.00047**	**.00080**
Stddev	.0122	.00031	.00319	.00020	.00048	.00006
%RSD	.30593	566.31	.38151	40.907	101.47	6.8848
#1	4.0093	-.00028	.83417	-.00064	.00081	.00084
#2	3.9920	.00017	.83869	-.00035	.00013	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00759**
Stddev	.00024
%RSD	3.1183
#1	.00742
#2	.00775
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193071-A-4-A Acquired: 12/15/2021 20:20:20 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3655.6	2441.9	68969.	3539.8
Stddev	3.8	8.5	109.	3.5
%RSD	.10440	.34950	.15804	.09938
#1	3658.3	2447.9	69046.	3542.3
#2	3652.9	2435.8	68891.	3537.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.711%	91.472%	93.995%	98.928%
Range				

Sample Name: 480-193071-A-5-A Acquired: 12/15/2021 20:24:11 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.01129**	**-.00011**	**.45518**	**.02307**	**.00007**
Stddev	.00026	.02092	.00010	.00176	.00001	.00003
%RSD	416.46	185.36	92.893	.38682	.03570	48.261
#1	.00012	-.00351	-.00018	.45393	.02307	.00005
#2	-.00025	.02608	-.00004	.45642	.02306	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**77.663**	**.00017**	**.0017**	**.00008**	**-.00012**	**.00144**
Stddev	.513	.00015	.0123	.00010	.00016	.00028
%RSD	.66045	89.679	711.1	129.78	129.93	19.241
#1	77.300	.00028	.0104	.00015	-.00023	.00164
#2	78.026	.00006	-.0070	.00001	-.00001	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193071-A-5-A Acquired: 12/15/2021 20:24:11 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00619	1.1192	.01088	32.871	.02182	.04848
Stddev	.00047	.0072	.00019	.070	.00009	.00031
%RSD	7.6527	.64721	1.7401	.21366	.42302	.64906
#1	.00585	1.1243	.01101	32.821	.02189	.04826
#2	.00652	1.1141	.01075	32.920	.02176	.04870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	68.416	.00073	.00057	72.41	-.00066	-.00564
Stddev	.350	.00001	.00107	.40	.00007	.00265
%RSD	.51219	1.4019	186.14	.5484	10.501	46.926
#1	68.168	.00073	-.00018	72.13	-.00061	-.00752
#2	68.664	.00074	.00133	72.69	-.00071	-.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193071-A-5-A Acquired: 12/15/2021 20:24:11 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.6354	-.00046	1.3866	-.00024	-.00004	.00018
Stddev	.0376	.00069	.0056	.00004	.00062	.00004
%RSD	.66682	150.58	.40484	16.099	1455.0	20.992
#1	5.6088	-.00094	1.3827	-.00027	-.00048	.00021
#2	5.6620	.00003	1.3906	-.00022	.00040	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00065
Stddev	.00057
%RSD	88.056
#1	.00106
#2	.00025
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193071-A-5-A Acquired: 12/15/2021 20:24:11 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3595.7	2397.3	67934.	3537.5
Stddev	.2	4.6	18.	13.7
%RSD	.00663	.19131	.02602	.38827
#1	3595.8	2400.5	67946.	3547.2
#2	3595.5	2394.0	67921.	3527.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.256%	89.801%	92.584%	98.864%
Range				

Sample Name: 480-192989-A-23-A Acquired: 12/15/2021 20:28:01 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.01766**	**-.00133**	**.61572**	**.01790**	**.00006**
Stddev	.00010	.00034	.00112	.00194	.00007	.00007
%RSD	14.843	1.8994	84.372	.31532	.40624	132.35
#1	-.00072	.01742	-.00213	.61709	.01785	.00000
#2	-.00058	.01789	-.00054	.61434	.01796	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**103.18**	**.00023**	**-.0284**	**-.00005**	**.00005**	**.00090**
Stddev	.17	.00000	.0036	.00006	.00007	.00013
%RSD	.16251	.15372	12.49	125.49	160.16	14.235
#1	103.06	.00023	-.0310	-.00001	.00010	.00099
#2	103.30	.00023	-.0259	-.00009	-.00001	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-192989-A-23-A Acquired: 12/15/2021 20:28:01 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00355	1.9670	.02574	61.927	.00054	.05474
Stddev	.00203	.0173	.00034	.008	.00002	.00001
%RSD	57.220	.87815	1.3360	.01306	3.8669	.01886
#1	-.00211	1.9793	.02550	61.933	.00055	.05474
#2	-.00498	1.9548	.02599	61.921	.00052	.05475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	76.327	.00017	-.00063	F 176.8	-.00011	-.00556
Stddev	.173	.00005	.00085	.0	.00014	.00423
%RSD	.22659	31.089	135.67	.0023	121.50	76.025
#1	76.204	.00021	-.00003	176.8	-.00002	-.00855
#2	76.449	.00013	-.00123	176.8	-.00021	-.00257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-192989-A-23-A Acquired: 12/15/2021 20:28:01 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.8416**	**-.00025**	**3.1410**	**-.00025**	**.00036**	**-.00000**
Stddev	.0176	.00012	.0073	.00036	.00097	.00009
%RSD	.45751	46.015	.23217	143.30	269.86	6050.2
#1	3.8292	-.00017	3.1359	-.00051	.00104	-.00007
#2	3.8541	-.00034	3.1462	.00000	-.00033	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00042**
Stddev	.00014
%RSD	33.237
#1	.00032
#2	.00052
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-192989-A-23-A Acquired: 12/15/2021 20:28:01 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3526.7	2372.2	67482.	3525.2
Stddev	2.1	1.7	136.	17.8
%RSD	.05868	.07121	.20125	.50578
#1	3525.2	2371.0	67578.	3512.6
#2	3528.2	2373.4	67386.	3537.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.582%	88.862%	91.969%	98.521%
Range				

Sample Name: MB 480-608816/1-A Acquired: 12/15/2021 20:31:52 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.00294**	**-.00033**	**-.00171**	**-.00011**	**.00007**
Stddev	.00011	.02461	.00054	.00005	.00002	.00004
%RSD	45.767	836.72	165.18	2.8045	17.372	57.015
#1	-.00017	.01446	-.00071	-.00174	-.00013	.00004
#2	-.00032	-.02034	.00006	-.00168	-.00010	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02581**	**.00004**	**-.0391**	**.00000**	**-.00025**	**.00011**
Stddev	.00130	.00004	.0028	.00001	.00002	.00004
%RSD	5.0402	98.946	7.253	289.27	6.3768	40.070
#1	.02673	.00001	-.0411	.00001	-.00026	.00013
#2	.02489	.00007	-.0371	-.00000	-.00024	.00008
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-608816/1-A Acquired: 12/15/2021 20:31:52 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00668**	**-.10458**	**-.00097**	**.00363**	**.00014**	F **-.02247**
Stddev	.00093	.00750	.00042	.00029	.00003	.00011
%RSD	13.929	7.1732	42.961	8.0364	22.727	.48366
#1	-.00602	-.09928	-.00126	.00384	.00011	-.02239
#2	-.00733	-.10988	-.00067	.00343	.00016	-.02255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.00500
Low Limit						-.00500

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00241**	**-.00005**	**-.00098**	**.0400**	**.00008**	**-.00207**
Stddev	.00123	.00000	.00055	.0019	.00041	.00144
%RSD	50.730	8.8471	56.274	4.859	499.80	69.927
#1	-.00328	-.00005	-.00137	.0414	.00037	-.00309
#2	-.00155	-.00005	-.00059	.0386	-.00021	-.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-608816/1-A Acquired: 12/15/2021 20:31:52 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00770**	**-.00006**	**.00009**	**-.00064**	**.00050**	**.00013**
Stddev	.00942	.00044	.00001	.00010	.00032	.00013
%RSD	122.30	749.39	7.4905	16.179	63.408	102.21
#1	-.01436	-.00037	.00009	-.00072	.00073	.00004
#2	-.00104	.00025	.00010	-.00057	.00028	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00098**
Stddev	.00048
%RSD	48.709
#1	.00132
#2	.00064
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: MB 480-608816/1-A Acquired: 12/15/2021 20:31:52 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4084.4	2551.3	74074.	3619.6
Stddev	5.5	6.9	87.	1.2
%RSD	.13416	.26948	.11781	.03343
#1	4080.5	2546.4	74136.	3620.4
#2	4088.3	2556.1	74012.	3618.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.116%	95.571%	100.95%	101.16%
Range				

Sample Name: LCS 480-608816/2-A Acquired: 12/15/2021 20:35:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04862	9.9403	.20853	.20722	.21322	.20659
Stddev	.00037	.0377	.00027	.00053	.00070	.00135
%RSD	.76210	.37941	.12950	.25546	.32786	.65365
#1	.04836	9.9137	.20834	.20684	.21273	.20564
#2	.04888	9.9670	.20872	.20759	.21372	.20755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.011	.20462	-.0208	.19322	.19870	.19336
Stddev	.089	.00019	.0085	.00005	.00191	.00029
%RSD	.88860	.09071	40.89	.02739	.95960	.15019
#1	9.9482	.20448	-.0148	.19325	.19736	.19356
#2	10.074	.20475	-.0269	.19318	.20005	.19315
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCS 480-608816/2-A Acquired: 12/15/2021 20:35:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.026**	**9.6077**	**.19042**	**10.155**	**.20209**	**.19158**
Stddev	.061	.0760	.00125	.049	.00081	.00084
%RSD	.60494	.79122	.65488	.48098	.39867	.43687
#1	9.9829	9.5539	.18954	10.120	.20152	.19098
#2	10.069	9.6615	.19130	10.189	.20266	.19217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6112**	**.19060**	**.19437**	**10.08**	**.21667**	**.19504**
Stddev	.0503	.00068	.00007	.00	.00063	.00208
%RSD	.52377	.35713	.03759	.0193	.28970	1.0686
#1	9.5756	.19012	.19442	10.08	.21711	.19357
#2	9.6468	.19108	.19432	10.07	.21622	.19652
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCS 480-608816/2-A Acquired: 12/15/2021 20:35:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.4865**	**.18968**	**.19693**	**.19832**	**.19781**	**.19705**
Stddev	.0947	.00070	.00092	.00113	.00109	.00064
%RSD	.99859	.36853	.46582	.56738	.54961	.32498
#1	9.4195	.18918	.19628	.19752	.19858	.19659
#2	9.5535	.19017	.19758	.19911	.19704	.19750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20604**
Stddev	.00054
%RSD	.26114
#1	.20565
#2	.20642
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: LCS 480-608816/2-A Acquired: 12/15/2021 20:35:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3848.8	2506.0	71476.	3586.1
Stddev	3.4	2.1	283.	40.2
%RSD	.08873	.08561	.39653	1.1206
#1	3846.4	2504.4	71676.	3614.5
#2	3851.2	2507.5	71275.	3557.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.398%	93.873%	97.412%	100.22%
Range				

Sample Name: 480-192920-A-14-C Acquired: 12/15/2021 20:39:29 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.06620**	**.00122**	**.06418**	**.36810**	**.00019**
Stddev	.00011	.00815	.00132	.00034	.00029	.00000
%RSD	90.154	12.315	108.56	.53293	.07992	.68284
#1	-.00021	.06044	.00028	.06443	.36831	.00019
#2	-.00005	.07197	.00216	.06394	.36790	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**76.073**	**.00044**	**.0354**	**.09085**	**-.00082**	**.00034**
Stddev	.190	.00007	.0105	.00005	.00036	.00003
%RSD	.24916	14.777	29.53	.04994	44.158	9.0422
#1	75.939	.00049	.0280	.09082	-.00056	.00036
#2	76.207	.00040	.0428	.09088	-.00108	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-192920-A-14-C Acquired: 12/15/2021 20:39:29 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.7194	15.387	.00176	21.355	6.6106	F -.02259
Stddev	.0252	.015	.00048	.047	.0321	.00028
%RSD	.37570	.10044	27.225	.21930	.48550	1.2594
#1	6.7016	15.376	.00142	21.388	6.5879	-.02279
#2	6.7373	15.398	.00209	21.322	6.6333	-.02239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	82.722	.02247	.00218	28.52	-.00189	-.00515
Stddev	.352	.00009	.00056	.09	.00060	.00345
%RSD	.42511	.40823	25.793	.3185	31.779	66.956
#1	82.970	.02253	.00178	28.58	-.00231	-.00271
#2	82.473	.02240	.00258	28.45	-.00146	-.00759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-192920-A-14-C Acquired: 12/15/2021 20:39:29 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.517**	**-.00036**	**.32901**	**-.00116**	**.00034**	**-.00019**
Stddev	.025	.00036	.00059	.00001	.00001	.00015
%RSD	.23300	99.038	.18073	.81351	1.7775	79.406
#1	10.499	-.00011	.32943	-.00116	.00033	-.00030
#2	10.534	-.00062	.32859	-.00115	.00034	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02988**
Stddev	.00066
%RSD	2.1966
#1	.02941
#2	.03034
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-192920-A-14-C Acquired: 12/15/2021 20:39:29 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3550.7	2482.0	70639.	3678.3
Stddev	.2	2.6	49.	7.8
%RSD	.00571	.10636	.06899	.21286
#1	3550.6	2480.2	70673.	3683.8
#2	3550.9	2483.9	70604.	3672.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.166%	92.976%	96.271%	102.80%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 20:43:31 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0073	49.768	1.0046	1.0567	.99894	.99812	50.521	1.0261
Stddev	.0008	.113	.0024	.0025	.00582	.00029	.062	.0014
%RSD	.08167	.22668	.24049	.23980	.58233	.02870	.12212	.13269
#1	1.0067	49.847	1.0063	1.0549	1.0030	.99792	50.477	1.0252
#2	1.0079	49.688	1.0029	1.0585	.99482	.99833	50.564	1.0271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.007	1.0025	1.0084	.98734	49.821	49.247	.98827	50.067
Stddev	.021	.0012	.0033	.00090	.174	.106	.00442	.287
%RSD	2.060	.11555	.32915	.09137	.34961	.21583	.44731	.57414
#1	.9921	1.0017	1.0060	.98671	49.698	49.322	.99140	49.864
#2	1.021	1.0033	1.0107	.98798	49.944	49.172	.98514	50.270
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0022	1.0153	48.934	.98535	.98326	25.96	1.0246	1.0082
Stddev	.0046	.0036	.209	.00056	.00287	.02	.0018	.0032
%RSD	.45886	.35072	.42813	.05652	.29195	.0592	.17193	.31487
#1	.99899	1.0127	49.083	.98574	.98123	25.95	1.0234	1.0060
#2	1.0055	1.0178	48.786	.98495	.98529	25.97	1.0259	1.0105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/15/2021 20:43:31 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.093	1.0032	.98354	.99522	.99054	.99870	1.0484
Stddev	.010	.0006	.00408	.00327	.00064	.00343	.0083
%RSD	.09792	.05542	.41506	.32822	.06424	.34346	.78690
#1	10.086	1.0036	.98642	.99291	.99099	.99628	1.0426
#2	10.100	1.0028	.98065	.99753	.99009	1.0011	1.0543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3519.8	2461.7	68452.	3521.2
Stddev	.6	1.6	182.	1.8
%RSD	.01685	.06628	.26543	.05237
#1	3519.4	2462.8	68580.	3519.9
#2	3520.2	2460.5	68323.	3522.5

Sample Name: CCB-6810114 Acquired: 12/15/2021 20:47:12 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**-.02023**	**.00108**	**-.00175**	**-.00003**	**.00002**	**-.00245**
Stddev	.00007	.00645	.00028	.00035	.00000	.00000	.00064
%RSD	10.640	31.912	25.722	19.805	17.231	19.942	25.910
#1	-.00063	-.02479	.00128	-.00199	-.00003	.00003	-.00200
#2	-.00073	-.01566	.00088	-.00150	-.00002	.00002	-.00290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.0372**	**.00007**	**-.00022**	**-.00002**	**.00178**	**-.08597**
Stddev	.00002	.0125	.00009	.00010	.00031	.00116	.02274
%RSD	96.419	33.48	121.55	46.298	2001.9	65.463	26.449
#1	.00003	-.0284	.00001	-.00029	.00021	.00096	-.06989
#2	.00001	-.0461	.00014	-.00015	-.00024	.00260	-.10204
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00148**	**.00010**	**-.00001**	F **-.01544**	**-.01472**	**-.00006**	**-.00032**
Stddev	.00010	.00024	.00001	.00118	.00144	.00005	.00099
%RSD	6.4113	244.52	131.96	7.6583	9.7779	84.624	305.32
#1	-.00155	-.00007	-.00002	-.01460	-.01370	-.00003	-.00102
#2	-.00142	.00026	-.00000	-.01627	-.01574	-.00010	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.01000			
Low Limit				-.01000			

Sample Name: CCB-6810114 Acquired: 12/15/2021 20:47:12 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098	.00114	.00318	.01413	.00040	.00000	-.00025
Stddev	.0013	.00146	.00126	.00532	.00032	.00001	.00005
%RSD	13.27	127.99	39.494	37.666	80.156	816.74	19.276
#1	.0107	.00011	.00229	.01037	.00062	-.00001	-.00029
#2	.0088	.00218	.00407	.01790	.00017	.00001	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.00104	.00018	-.00040
Stddev	.00007	.00013	.00052
%RSD	6.2850	71.562	128.70
#1	-.00100	.00028	-.00077
#2	-.00109	.00009	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4129.6	2559.0	73372.	3534.2
Stddev	11.6	3.6	38.	5.9
%RSD	.28030	.13929	.05225	.16611
#1	4137.8	2561.5	73344.	3538.3
#2	4121.4	2556.4	73399.	3530.0

Sample Name: CCVL-6811103 Acquired: 12/15/2021 20:51:08 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00558**	**.17395**	**.01257**	**.01809**	**.00204**	**.00207**	**.50302**
Stddev	.00031	.01614	.00019	.00002	.00000	.00002	.00170
%RSD	5.4746	9.2778	1.4811	.08768	.08567	1.1901	.33851
#1	.00579	.16254	.01244	.01808	.00204	.00205	.50181
#2	.00536	.18536	.01270	.01810	.00204	.00208	.50422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**-.0209**	**.00384**	**.00374**	**.00988**	**.04536**	**.37095**
Stddev	.00007	.0172	.00003	.00002	.00026	.00491	.01124
%RSD	3.3722	82.29	.81453	.65642	2.6580	10.826	3.0304
#1	.00214	-.0088	.00387	.00376	.01007	.04883	.37889
#2	.00204	-.0331	.00382	.00372	.00969	.04188	.36300
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02713**	**.19515**	**.00304**	F **-.01107**	**.95333**	**.00947**	**.00843**
Stddev	.00167	.00200	.00003	.00008	.00078	.00010	.00053
%RSD	6.1492	1.0248	.93154	.74542	.08158	1.0456	6.3024
#1	.02831	.19657	.00306	-.01101	.95278	.00940	.00880
#2	.02595	.19374	.00302	-.01113	.95388	.00954	.00805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6811103 Acquired: 12/15/2021 20:51:08 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2005	.02166	.02159	.46069	.00947	.00492	.00429
Stddev	.0083	.00015	.00260	.00814	.00033	.00013	.00002
%RSD	4.125	.71464	12.042	1.7668	3.4885	2.6544	.55514
#1	.1946	.02177	.01976	.46645	.00924	.00501	.00431
#2	.2063	.02155	.02343	.45494	.00970	.00482	.00428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.01902	.00511	.01008
Stddev	.00043	.00013	.00046
%RSD	2.2757	2.5821	4.5608
#1	.01932	.00502	.00975
#2	.01871	.00520	.01040
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4099.4	2572.6	73390.	3555.0
Stddev	.5	6.2	115.	4.7
%RSD	.01144	.24236	.15715	.13345
#1	4099.8	2577.0	73472.	3551.7
#2	4099.1	2568.1	73309.	3558.4

Sample Name: 480-192920-A-18-C Acquired: 12/15/2021 20:55:02 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00138**	**.02205**	**.01444**	**.00371**	**.20856**	**.00010**
Stddev	.00033	.03527	.00089	.00017	.00068	.00005
%RSD	24.152	159.97	6.1527	4.6819	.32383	45.838
#1	-.00114	.04699	.01506	.00359	.20808	.00014
#2	-.00162	-.00289	.01381	.00384	.20904	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.5136**	**.00011**	**.0113**	**.01277**	**.00107**	**-.00138**
Stddev	.0224	.00004	.0123	.00002	.00012	.00030
%RSD	.26325	34.144	109.3	.13701	11.270	21.553
#1	8.4978	.00014	.0026	.01278	.00115	-.00159
#2	8.5295	.00008	.0200	.01276	.00098	-.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-192920-A-18-C Acquired: 12/15/2021 20:55:02 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**135.64**	**4.6655**	**-.00185**	**5.3540**	**.85591**	F **-.02334**
Stddev	.10	.0057	.00037	.0115	.00172	.00017
%RSD	.07140	.12244	20.284	.21454	.20139	.74307
#1	135.57	4.6695	-.00158	5.3459	.85469	-.02346
#2	135.71	4.6614	-.00211	5.3621	.85713	-.02322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.8717**	**.00474**	**.00976**	**.2253**	**.00146**	**-.00361**
Stddev	.0050	.00004	.00064	.0020	.00095	.00034
%RSD	.07263	.80252	6.5955	.8873	64.915	9.3181
#1	6.8682	.00477	.01022	.2239	.00213	-.00337
#2	6.8752	.00471	.00931	.2267	.00079	-.00384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-192920-A-18-C Acquired: 12/15/2021 20:55:02 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.969**	**.00070**	**.10182**	**.00030**	**-.00072**	**.00130**
Stddev	.008	.00069	.00057	.00053	.00061	.00029
%RSD	.07233	98.384	.56329	178.27	84.030	22.488
#1	10.975	.00021	.10141	-.00008	-.00029	.00110
#2	10.964	.00118	.10222	.00067	-.00115	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00235**
Stddev	.00010
%RSD	4.4576
#1	.00243
#2	.00228
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-192920-A-18-C Acquired: 12/15/2021 20:55:02 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3831.7	2486.4	71347.	3601.1
Stddev	1.2	6.8	70.	23.1
%RSD	.03036	.27417	.09742	.64269
#1	3830.9	2491.2	71397.	3617.4
#2	3832.5	2481.5	71298.	3584.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.984%	93.139%	97.237%	100.64%
Range				

Sample Name: 480-192920-B-19-C Acquired: 12/15/2021 20:58:52 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.01692**	**.00056**	**.09391**	**.07554**	**.00017**
Stddev	.00015	.00591	.00019	.00007	.00010	.00004
%RSD	28.903	34.893	33.830	.07877	.13488	23.996
#1	-.00061	.01275	.00069	.09397	.07562	.00014
#2	-.00041	.02110	.00043	.09386	.07547	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**59.250**	**.00022**	**-.0117**	**.05578**	**-.00052**	**.00006**
Stddev	.035	.00002	.0002	.00014	.00007	.00002
%RSD	.05910	9.9481	1.976	.25796	12.585	26.582
#1	59.226	.00024	-.0119	.05588	-.00057	.00005
#2	59.275	.00021	-.0116	.05568	-.00047	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-192920-B-19-C Acquired: 12/15/2021 20:58:52 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.635	6.9761	.00649	14.418	2.9687	F -.02333
Stddev	.083	.0212	.00072	.019	.0172	.00010
%RSD	.28022	.30375	11.099	.13138	.58008	.44880
#1	29.576	6.9911	.00598	14.431	2.9808	-.02325
#2	29.694	6.9611	.00700	14.405	2.9565	-.02340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	33.230	.00643	.00236	48.65	-.00204	-.00363
Stddev	.004	.00019	.00087	.05	.00067	.00440
%RSD	.01142	2.9157	36.766	.0962	32.804	121.13
#1	33.233	.00630	.00175	48.62	-.00156	-.00674
#2	33.228	.00656	.00298	48.68	-.00251	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-192920-B-19-C Acquired: 12/15/2021 20:58:52 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.2344	.00034	.22158	-.00095	-.00036	.00006
Stddev	.0175	.00017	.00014	.00013	.00041	.00016
%RSD	.24196	48.695	.06309	14.110	113.48	283.43
#1	7.2221	.00046	.22149	-.00105	-.00065	.00017
#2	7.2468	.00023	.22168	-.00086	-.00007	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01130
Stddev	.00010
%RSD	.89386
#1	.01137
#2	.01122
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-192920-B-19-C Acquired: 12/15/2021 20:58:52 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3671.5	2429.5	69728.	3594.1
Stddev	3.9	5.1	9.	.8
%RSD	.10613	.21035	.01304	.02112
#1	3674.3	2433.2	69721.	3594.6
#2	3668.8	2425.9	69734.	3593.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.097%	91.010%	95.029%	100.45%
Range				

Sample Name: 480-193322-F-1-B Acquired: 12/15/2021 21:02:48 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**5.1567**	**.00272**	**.22358**	**.23975**	**.00026**
Stddev	.00000	.0440	.00104	.00092	.00087	.00012
%RSD	1.2034	.85272	38.129	.41286	.36090	44.692
#1	-.00035	5.1256	.00345	.22292	.24037	.00034
#2	-.00034	5.1878	.00199	.22423	.23914	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**246.57**	**.00052**	**-.0028**	**.00278**	**.00614**	**.00995**
Stddev	1.39	.00005	.0083	.00022	.00038	.00013
%RSD	.56185	10.225	298.3	7.9993	6.1148	1.3234
#1	247.55	.00055	.0031	.00262	.00640	.01004
#2	245.60	.00048	-.0087	.00294	.00587	.00986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193322-F-1-B Acquired: 12/15/2021 21:02:48 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.505	9.7251	.04884	47.712	.70912	F -.02021
Stddev	.126	.0389	.00053	.012	.00038	.00003
%RSD	.72040	.40008	1.0924	.02412	.05364	.16425
#1	17.594	9.7526	.04846	47.704	.70886	-.02019
#2	17.416	9.6976	.04922	47.720	.70939	-.02024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.727	.00927	.01654	12.96	-.00204	-.00737
Stddev	.102	.00002	.00005	.04	.00058	.00031
%RSD	.36643	.21316	.28947	.3014	28.564	4.1955
#1	27.799	.00929	.01657	12.93	-.00245	-.00715
#2	27.655	.00926	.01651	12.98	-.00163	-.00759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193322-F-1-B Acquired: 12/15/2021 21:02:48 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.996	-.00014	1.6536	.15664	-.00070	.00911
Stddev	.119	.00095	.0051	.00564	.00107	.00018
%RSD	.51568	682.65	.31061	3.6030	151.68	1.9775
#1	23.080	-.00081	1.6572	.16063	-.00146	.00924
#2	22.912	.00053	1.6500	.15265	.00005	.00899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.08116
Stddev	.00071
%RSD	.87516
#1	.08167
#2	.08066
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193322-F-1-B Acquired: 12/15/2021 21:02:48 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3423.5	2357.3	67593.	3536.8
Stddev	3.8	2.6	382.	17.0
%RSD	.11137	.10982	.56567	.47947
#1	3420.8	2355.4	67323.	3524.8
#2	3426.2	2359.1	67864.	3548.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.077%	88.302%	92.121%	98.843%
Range				

Sample Name: 480-193322-F-2-A Acquired: 12/15/2021 21:06:38 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.05816**	**-.00270**	**.25742**	**.07493**	**.00003**
Stddev	.00022	.00334	.00130	.00013	.00008	.00002
%RSD	41.824	5.7374	48.340	.05217	.10407	52.198
#1	-.00037	.06052	-.00178	.25733	.07488	.00002
#2	-.00068	.05580	-.00362	.25752	.07499	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**165.54**	**.00034**	**-.0203**	**.00070**	**-.00025**	**.00115**
Stddev	.92	.00005	.0029	.00002	.00032	.00008
%RSD	.55531	14.876	14.43	3.4193	127.31	7.3796
#1	164.89	.00037	-.0224	.00068	-.00002	.00109
#2	166.19	.00030	-.0182	.00072	-.00047	.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193322-F-2-A Acquired: 12/15/2021 21:06:38 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10955**	**8.4939**	**.15614**	**314.42**	**.13428**	F **-.01789**
Stddev	.00186	.0402	.00042	3.56	.00068	.00015
%RSD	1.6946	.47346	.26865	1.1336	.50633	.84195
#1	.10823	8.4655	.15584	311.90	.13380	-.01800
#2	.11086	8.5224	.15644	316.94	.13476	-.01779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**250.27**	**.00113**	**.00123**	F **110.5**	**.00214**	**-.00896**
Stddev	.65	.00032	.00174	.0	.00151	.00149
%RSD	.26086	28.289	141.41	.0108	70.622	16.584
#1	249.80	.00135	.00000	110.5	.00321	-.00791
#2	250.73	.00090	.00246	110.5	.00107	-.01001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193322-F-2-A Acquired: 12/15/2021 21:06:38 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.4934	.00001	F 10.634	.00204	.00092	.00216
Stddev	.0547	.00017	.005	.00024	.00171	.00014
%RSD	.72955	2110.5	.04438	11.755	186.63	6.6264
#1	7.4547	.00013	10.637	.00221	.00213	.00206
#2	7.5320	-.00011	10.630	.00187	-.00029	.00226
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000			
Low Limit			-.00500			

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01103
Stddev	.00021
%RSD	1.9334
#1	.01088
#2	.01118
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193322-F-2-A Acquired: 12/15/2021 21:06:38 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3173.0	2211.3	62877.	3395.7
Stddev	.6	2.2	140.	15.3
%RSD	.01750	.10003	.22202	.45057
#1	3172.6	2209.7	62976.	3406.5
#2	3173.4	2212.9	62779.	3384.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.999%	82.835%	85.693%	94.901%
Range				

Sample Name: 480-193322-F-3-D Acquired: 12/15/2021 21:10:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.18699**	**-.00117**	**.32398**	**.02519**	**.00001**
Stddev	.00030	.02162	.00080	.00120	.00003	.00009
%RSD	44.378	11.564	68.461	.37136	.11635	1628.2
#1	-.00046	.17170	-.00060	.32313	.02517	-.00006
#2	-.00088	.20228	-.00174	.32483	.02521	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**225.72**	**.00036**	**-.0075**	**.00060**	**.00024**	**.00190**
Stddev	.31	.00026	.0132	.00008	.00009	.00016
%RSD	.13910	71.999	174.7	13.449	36.025	8.2047
#1	225.50	.00055	.0018	.00066	.00030	.00179
#2	225.95	.00018	-.0169	.00054	.00018	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193322-F-3-D Acquired: 12/15/2021 21:10:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.18895	14.627	.15613	F 470.89	.13467	F -.01805
Stddev	.00553	.030	.00073	2.36	.00008	.00013
%RSD	2.9288	.20433	.46539	.50060	.06038	.72632
#1	.18503	14.606	.15665	469.22	.13461	-.01796
#2	.19286	14.649	.15562	472.56	.13473	-.01814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				450.00		4.5000
Low Limit				-.20000		-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	164.47	.00213	.00066	F 669.6	-.00214	-.01157
Stddev	.30	.00007	.00187	1.8	.00176	.00312
%RSD	.18163	3.3801	282.92	.2635	82.085	27.003
#1	164.68	.00208	.00199	668.3	-.00090	-.01378
#2	164.26	.00219	-.00066	670.8	-.00339	-.00936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193322-F-3-D Acquired: 12/15/2021 21:10:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6943**	**-.00054**	**8.3370**	**.00453**	**.00081**	**.00175**
Stddev	.0137	.00079	.0382	.00027	.00074	.00027
%RSD	.14159	146.12	.45825	5.9759	90.712	15.408
#1	9.6846	-.00109	8.3099	.00434	.00029	.00156
#2	9.7040	.00002	8.3640	.00472	.00133	.00194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02046**
Stddev	.00078
%RSD	3.7935
#1	.01991
#2	.02101
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193322-F-3-D Acquired: 12/15/2021 21:10:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3162.7	2193.9	62903.	3434.7
Stddev	2.3	1.5	175.	6.5
%RSD	.07264	.06816	.27877	.18901
#1	3164.4	2195.0	63027.	3439.3
#2	3161.1	2192.9	62779.	3430.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.750%	82.185%	85.729%	95.991%
Range				

Sample Name: 480-193322-F-4-B Acquired: 12/15/2021 21:14:54 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**2.1429**	**.00342**	**.35301**	**.04073**	**.00017**
Stddev	.00002	.0145	.00060	.00051	.00002	.00002
%RSD	19.055	.67664	17.495	.14510	.04391	14.726
#1	-.00008	2.1531	.00300	.35337	.04072	.00015
#2	-.00010	2.1326	.00385	.35265	.04074	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**249.11**	**.00045**	**-.0268**	**.00213**	**.00301**	**.00271**
Stddev	.68	.00007	.0117	.00000	.00009	.00018
%RSD	.27106	15.275	43.78	.18508	2.8936	6.6517
#1	249.59	.00050	-.0185	.00213	.00295	.00284
#2	248.63	.00040	-.0351	.00214	.00307	.00258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193322-F-4-B Acquired: 12/15/2021 21:14:54 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.7795**	**14.505**	**.14244**	**441.75**	**.27276**	F **-.01709**
Stddev	.0073	.023	.00118	.79	.00034	.00032
%RSD	.41268	.15555	.82580	.17853	.12554	1.8431
#1	1.7847	14.520	.14328	441.19	.27252	-.01732
#2	1.7743	14.489	.14161	442.31	.27301	-.01687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**160.55**	**.00403**	**.00269**	F **655.2**	**-.00210**	**-.01110**
Stddev	.46	.00000	.00100	.1	.00070	.00141
%RSD	.28354	.07367	36.999	.0192	33.497	12.691
#1	160.23	.00403	.00199	655.3	-.00259	-.01011
#2	160.87	.00403	.00340	655.1	-.00160	-.01210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193322-F-4-B Acquired: 12/15/2021 21:14:54 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.699	-.00090	F 10.529	.07422	-.00031	.00399
Stddev	.018	.00101	.009	.00115	.00038	.00023
%RSD	.13242	111.83	.09008	1.5432	122.98	5.8182
#1	13.712	-.00162	10.536	.07341	-.00058	.00383
#2	13.686	-.00019	10.522	.07503	-.00004	.00415
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000			
Low Limit			-.00500			

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00621
Stddev	.00087
%RSD	14.056
#1	.00559
#2	.00682
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193322-F-4-B Acquired: 12/15/2021 21:14:54 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3177.0	2200.7	63220.	3440.2
Stddev	1.4	.8	138.	1.7
%RSD	.04445	.03825	.21863	.04808
#1	3178.0	2200.1	63318.	3441.4
#2	3176.0	2201.3	63122.	3439.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.095%	82.439%	86.160%	96.146%
Range				

Sample Name: 480-193322-F-5-B Acquired: 12/15/2021 21:19:01 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.20184**	**.00188**	**.21217**	**.02607**	**.00005**
Stddev	.00056	.00391	.00017	.00030	.00005	.00000
%RSD	123.83	1.9361	8.8046	.14021	.17598	.66267
#1	-.00006	.20461	.00176	.21238	.02610	.00005
#2	-.00085	.19908	.00199	.21196	.02603	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**151.58**	**.00030**	**-.0255**	**.00151**	**.00055**	**.00147**
Stddev	.63	.00005	.0273	.00019	.00033	.00003
%RSD	.41828	15.444	107.3	12.367	60.746	2.0965
#1	152.03	.00033	-.0061	.00165	.00078	.00145
#2	151.13	.00026	-.0448	.00138	.00031	.00149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193322-F-5-B Acquired: 12/15/2021 21:19:01 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.18709	11.896	.08031	309.88	.28657	F -.01361
Stddev	.00407	.018	.00007	.48	.00004	.00030
%RSD	2.1734	.14845	.09261	.15458	.01320	2.2205
#1	.18422	11.909	.08026	309.54	.28654	-.01383
#2	.18997	11.884	.08037	310.22	.28659	-.01340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	85.172	.00192	.00181	F 433.3	-.00221	-.00979
Stddev	.162	.00014	.00101	1.4	.00027	.00080
%RSD	.19071	7.5011	55.823	.3301	12.270	8.1482
#1	85.287	.00202	.00110	432.3	-.00240	-.00922
#2	85.057	.00181	.00252	434.3	-.00202	-.01035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193322-F-5-B Acquired: 12/15/2021 21:19:01 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.1348**	**-.00005**	**5.2677**	**.00344**	**.00109**	**.00260**
Stddev	.0510	.00003	.0505	.00040	.00278	.00033
%RSD	.62713	52.218	.95787	11.688	254.96	12.583
#1	8.1709	-.00003	5.3034	.00372	-.00088	.00237
#2	8.0987	-.00007	5.2320	.00316	.00306	.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00242**
Stddev	.00049
%RSD	20.257
#1	.00208
#2	.00277
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193322-F-5-B Acquired: 12/15/2021 21:19:01 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3308.7	2255.2	65046.	3468.8
Stddev	1.3	2.5	1.	25.9
%RSD	.03837	.11299	.00179	.74741
#1	3309.6	2257.0	65047.	3450.5
#2	3307.8	2253.4	65045.	3487.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.293%	84.479%	88.649%	96.945%
Range				

Sample Name: 480-193405-C-1-A Acquired: 12/15/2021 21:23:03 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.76880**	**.00119**	**.01489**	**.01045**	**.00003**
Stddev	.00020	.01837	.00249	.00001	.00000	.00010
%RSD	94.368	2.3899	209.15	.05131	.01382	321.26
#1	-.00036	.78179	.00295	.01489	.01045	.00010
#2	-.00007	.75581	-.00057	.01490	.01045	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.4913**	**.00013**	**-.0169**	**.00091**	**-.00016**	**.00255**
Stddev	.0133	.00008	.0005	.00002	.00004	.00021
%RSD	.29508	62.357	3.115	1.8203	27.956	8.1883
#1	4.5007	.00007	-.0165	.00092	-.00012	.00269
#2	4.4820	.00019	-.0172	.00090	-.00019	.00240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193405-C-1-A Acquired: 12/15/2021 21:23:03 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.85442**	**.46150**	**-.00114**	**.76444**	**.09660**	F **-.02351**
Stddev	.00103	.00615	.00039	.00644	.00029	.00009
%RSD	.12111	1.3316	34.309	.84224	.29701	.38047
#1	.85515	.46585	-.00141	.76899	.09640	-.02345
#2	.85369	.45716	-.00086	.75989	.09680	-.02357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0819**	**.00168**	**.00105**	**1.714**	**.00016**	**-.00023**
Stddev	.0051	.00017	.00092	.006	.00132	.00034
%RSD	.24573	9.9394	87.435	.3633	825.81	147.03
#1	2.0855	.00180	.00171	1.718	-.00077	-.00047
#2	2.0782	.00156	.00040	1.709	.00109	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193405-C-1-A Acquired: 12/15/2021 21:23:03 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.4850**	**.00027**	**.03830**	**.01382**	**-.00025**	**.00108**
Stddev	.0022	.00015	.00014	.00008	.00060	.00041
%RSD	.02657	56.329	.36687	.56776	235.94	38.335
#1	8.4866	.00016	.03840	.01376	-.00068	.00137
#2	8.4834	.00038	.03820	.01388	.00017	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00443**
Stddev	.00060
%RSD	13.608
#1	.00486
#2	.00401
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193405-C-1-A Acquired: 12/15/2021 21:23:03 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4044.9	2521.3	73034.	3599.2
Stddev	5.0	1.6	104.	.8
%RSD	.12248	.06322	.14191	.02219
#1	4048.4	2522.5	73107.	3598.6
#2	4041.3	2520.2	72961.	3599.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.156%	94.449%	99.536%	100.59%
Range				

Sample Name: 480-193405-C-1-ASD@5 Acquired: 12/15/2021 21:26:55 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.25585**	**-.00216**	**.00077**	**.00199**	**.00003**
Stddev	.00020	.01100	.00005	.00037	.00001	.00003
%RSD	59.164	4.2984	2.1478	47.724	.70360	104.73
#1	-.00047	.26362	-.00213	.00051	.00198	.00005
#2	-.00019	.24807	-.00220	.00103	.00200	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.90432**	**.00013**	**-.0130**	**.00015**	**-.00008**	**.00055**
Stddev	.00197	.00003	.0086	.00013	.00002	.00030
%RSD	.21838	21.779	66.00	91.102	23.862	54.114
#1	.90292	.00014	-.0070	.00005	-.00007	.00076
#2	.90571	.00011	-.0191	.00024	-.00009	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193405-C-1-ASD@5 Acquired: 12/15/2021 21:26:55 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19382	.02244	-.00133	.16590	.01954	F -.02341
Stddev	.00275	.02631	.00091	.00011	.00016	.00005
%RSD	1.4176	117.23	68.402	.06462	.81381	.21482
#1	.19577	.04105	-.00069	.16597	.01965	-.02345
#2	.19188	.00384	-.00198	.16582	.01943	-.02338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40321	.00022	-.00042	.3799	.00125	-.00132
Stddev	.00103	.00011	.00101	.0030	.00036	.00056
%RSD	.25553	48.823	242.36	.7905	28.793	42.729
#1	.40249	.00030	-.00114	.3820	.00099	-.00092
#2	.40394	.00015	.00030	.3777	.00150	-.00172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193405-C-1-ASD@5 Acquired: 12/15/2021 21:26:55 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.2148**	**-.00016**	**.00764**	**.00281**	**-.00159**	**.00039**
Stddev	.0107	.00034	.00012	.00031	.00028	.00004
%RSD	.48366	218.09	1.5947	11.131	17.367	10.519
#1	2.2224	.00009	.00772	.00258	-.00139	.00036
#2	2.2073	-.00040	.00755	.00303	-.00178	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00037**
Stddev	.00029
%RSD	79.258
#1	.00016
#2	.00057
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193405-C-1-ASD@5 Acquired: 12/15/2021 21:26:55 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4109.0	2545.5	73463.	3546.2
Stddev	11.2	8.4	130.	1.5
%RSD	.27329	.33182	.17718	.04224
#1	4101.1	2539.5	73371.	3545.1
#2	4116.9	2551.5	73555.	3547.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.713%	95.353%	100.12%	99.107%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 21:30:51 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0075	49.963	1.0109	1.0692	1.0054	.99642	50.676	1.0384
Stddev	.0032	.082	.0012	.0006	.0007	.00150	.013	.0002
%RSD	.31407	.16467	.12130	.06066	.07029	.15045	.02647	.01704
#1	1.0052	50.021	1.0118	1.0696	1.0059	.99536	50.685	1.0383
#2	1.0097	49.905	1.0101	1.0687	1.0049	.99748	50.666	1.0385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.019	1.0022	1.0155	.98488	50.045	49.388	.99026	50.120
Stddev	.006	.0005	.0032	.00371	.174	.115	.00102	.111
%RSD	.5965	.04647	.31454	.37713	.34692	.23271	.10324	.22174
#1	1.023	1.0019	1.0132	.98225	49.923	49.469	.99099	50.042
#2	1.014	1.0026	1.0178	.98751	50.168	49.307	.98954	50.199
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99765	1.0186	48.972	.98313	.97450	26.48	1.0351	1.0192
Stddev	.00322	.0026	.074	.00062	.00011	.02	.0004	.0011
%RSD	.32242	.25337	.15210	.06297	.01154	.0804	.04393	.11074
#1	.99537	1.0168	49.025	.98269	.97458	26.47	1.0354	1.0200
#2	.99992	1.0204	48.920	.98357	.97442	26.50	1.0348	1.0184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/15/2021 21:30:51 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.137	1.0068	.98544	.99474	.98367	.99914	1.0525
Stddev	.006	.0032	.00061	.00470	.00106	.00392	.0012
%RSD	.06359	.31606	.06221	.47296	.10810	.39262	.11281
#1	10.133	1.0045	.98588	.99142	.98442	.99637	1.0516
#2	10.142	1.0090	.98501	.99807	.98292	1.0019	1.0533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3536.9	2448.4	68762.	3510.8
Stddev	4.6	5.5	38.	21.6
%RSD	.12988	.22266	.05511	.61529
#1	3533.7	2444.6	68735.	3495.5
#2	3540.2	2452.3	68789.	3526.0

Sample Name: CCB-6810114 Acquired: 12/15/2021 21:34:33 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.01540**	**.00164**	**-.00187**	**-.00006**	**.00003**	**-.00624**
Stddev	.00048	.00297	.00170	.00051	.00002	.00006	.00255
%RSD	147.83	19.266	104.00	27.443	31.301	208.75	40.804
#1	-.00066	.01749	.00043	-.00223	-.00007	-.00001	-.00444
#2	.00001	.01330	.00284	-.00150	-.00005	.00007	-.00804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.0124**	**.00008**	**-.00019**	**.00032**	**.00687**	**-.08092**
Stddev	.00001	.0128	.00008	.00003	.00002	.00134	.02321
%RSD	18.045	103.4	104.04	15.980	6.8013	19.467	28.683
#1	-.00007	-.0033	.00013	-.00022	.00034	.00592	-.06451
#2	-.00005	-.0214	.00002	-.00017	.00031	.00781	-.09734
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00161**	**.00280**	**.00003**	F **-.01535**	**-.01354**	**.00021**	**.00027**
Stddev	.00003	.00030	.00004	.00109	.00124	.00008	.00026
%RSD	1.5944	10.669	144.66	7.1322	9.1336	38.930	94.828
#1	-.00159	.00301	-.00000	-.01458	-.01267	.00015	.00009
#2	-.00163	.00258	.00006	-.01613	-.01441	.00027	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.01000			
Low Limit				-.01000			

Sample Name: CCB-6810114 Acquired: 12/15/2021 21:34:33 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0331	.00004	.00209	.00580	.00036	.00001	-.00020
Stddev	.0004	.00116	.00049	.00164	.00035	.00010	.00006
%RSD	1.126	2692.8	23.505	28.238	96.645	800.46	29.225
#1	.0328	-.00077	.00174	.00464	.00011	-.00006	-.00024
#2	.0333	.00086	.00244	.00696	.00061	.00008	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.00010	.00023	-.00038
Stddev	.00134	.00018	.00055
%RSD	1345.8	77.832	144.04
#1	.00105	.00011	.00001
#2	-.00085	.00036	-.00078
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4127.9	2533.3	73262.	3541.5
Stddev	5.3	4.6	36.	.9
%RSD	.12878	.18325	.04871	.02627
#1	4124.1	2530.0	73236.	3542.1
#2	4131.7	2536.6	73287.	3540.8

Sample Name: CCVL-6811103 Acquired: 12/15/2021 21:38:28 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00535**	**.18120**	**.01500**	**.01803**	**.00204**	**.00197**	**.50472**
Stddev	.00008	.00797	.00074	.00007	.00000	.00000	.00343
%RSD	1.4282	4.3973	4.9150	.41435	.13846	.13729	.67926
#1	.00530	.17557	.01447	.01808	.00204	.00197	.50229
#2	.00541	.18684	.01552	.01798	.00204	.00197	.50714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**-.0236**	**.00375**	**.00378**	**.00993**	**.04299**	**.39432**
Stddev	.00002	.0069	.00004	.00036	.00037	.00652	.00826
%RSD	1.1688	29.07	1.1574	9.3901	3.7513	15.169	2.0939
#1	.00216	-.0284	.00378	.00403	.00967	.03838	.40016
#2	.00212	-.0187	.00372	.00353	.01019	.04760	.38848
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02615**	**.19772**	**.00307**	F **-.01115**	**.94284**	**.00924**	**.01017**
Stddev	.00022	.00016	.00005	.00002	.00397	.00014	.00007
%RSD	.82976	.08202	1.4786	.19196	.42056	1.5276	.66661
#1	.02630	.19760	.00310	-.01116	.94004	.00914	.01012
#2	.02600	.19783	.00304	-.01113	.94564	.00933	.01022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6811103 Acquired: 12/15/2021 21:38:28 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2266	.02233	.02298	.49327	.00965	.00497	.00422
Stddev	.0038	.00062	.00159	.00952	.00018	.00003	.00002
%RSD	1.671	2.7830	6.9251	1.9303	1.8589	.53806	.35578
#1	.2239	.02277	.02411	.50000	.00952	.00495	.00423
#2	.2293	.02189	.02186	.48654	.00978	.00499	.00421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.01796	.00514	.00967
Stddev	.00080	.00028	.00017
%RSD	4.4772	5.4621	1.7894
#1	.01852	.00534	.00955
#2	.01739	.00494	.00979
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4106.6	2545.3	73592.	3538.5
Stddev	1.2	3.2	149.	2.9
%RSD	.02981	.12543	.20287	.08166
#1	4107.5	2543.0	73697.	3540.5
#2	4105.7	2547.6	73486.	3536.4

Sample Name: 480-193405-C-1-APDS Acquired: 12/15/2021 21:42:23 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05037	10.767	.21300	.22911	.22635	.21289
Stddev	.00017	.082	.00053	.00006	.00008	.00056
%RSD	.33645	.76020	.24783	.02449	.03741	.26155
#1	.05025	10.709	.21262	.22907	.22641	.21249
#2	.05049	10.824	.21337	.22915	.22629	.21328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.666	.21332	-.0208	.20036	.20543	.20308
Stddev	.051	.00035	.0076	.00002	.00032	.00001
%RSD	.34496	.16208	36.42	.01187	.15356	.00509
#1	14.630	.21308	-.0262	.20035	.20565	.20309
#2	14.702	.21357	-.0154	.20038	.20521	.20307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193405-C-1-APDS Acquired: 12/15/2021 21:42:23 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.164**	**10.304**	**.19369**	**11.244**	**.30047**	**.19921**
Stddev	.035	.021	.00166	.008	.00105	.00137
%RSD	.31767	.20375	.85926	.07232	.34811	.68879
#1	11.139	10.290	.19251	11.238	.29974	.19824
#2	11.190	10.319	.19486	11.250	.30121	.20018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.724**	**.19704**	**.19948**	**12.20**	**.21527**	**.20136**
Stddev	.032	.00024	.00193	.02	.00001	.00041
%RSD	.27642	.12076	.96941	.1628	.00460	.20177
#1	11.701	.19721	.20085	12.19	.21528	.20108
#2	11.746	.19688	.19812	12.22	.21527	.20165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193405-C-1-APDS Acquired: 12/15/2021 21:42:23 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.955**	**.19232**	**.23665**	**.21930**	**.20351**	**.20453**
Stddev	.058	.00088	.00064	.00016	.00084	.00070
%RSD	.32540	.45758	.27120	.07486	.41125	.34113
#1	17.914	.19170	.23619	.21918	.20410	.20403
#2	17.997	.19295	.23710	.21941	.20292	.20502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21738**
Stddev	.00081
%RSD	.37453
#1	.21680
#2	.21795
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193405-C-1-APDS Acquired: 12/15/2021 21:42:23 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3833.0	2483.4	71332.	3579.4
Stddev	4.4	6.2	4.	18.9
%RSD	.11425	.24860	.00499	.52914
#1	3836.1	2487.8	71329.	3592.8
#2	3829.9	2479.0	71334.	3566.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.016%	93.027%	97.215%	100.03%
Range				

Sample Name: 480-193405-C-1-B MS Acquired: 12/15/2021 21:46:05 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04861	11.901	.20568	.22503	.22256	.20434
Stddev	.00009	.067	.00172	.00024	.00026	.00014
%RSD	.18573	.56148	.83545	.10768	.11845	.06634
#1	.04855	11.948	.20447	.22486	.22238	.20444
#2	.04868	11.854	.20690	.22520	.22275	.20425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.423	.20558	-.0309	.19368	.19671	.19720
Stddev	.017	.00022	.0226	.00007	.00075	.00032
%RSD	.11854	.10691	73.11	.03469	.38019	.15978
#1	14.411	.20542	-.0469	.19373	.19724	.19697
#2	14.435	.20573	-.0149	.19363	.19618	.19742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193405-C-1-B MS Acquired: 12/15/2021 21:46:05 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.480**	**10.087**	**.19062**	**11.039**	**.30535**	**.19205**
Stddev	.013	.024	.00013	.071	.00147	.00021
%RSD	.10925	.23922	.06925	.64508	.48238	.10800
#1	11.489	10.104	.19053	11.089	.30639	.19191
#2	11.471	10.070	.19071	10.989	.30431	.19220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.532**	**.19086**	**.19201**	**11.82**	**.21988**	**.19752**
Stddev	.038	.00027	.00008	.01	.00027	.00182
%RSD	.32561	.14045	.04235	.0663	.12247	.92359
#1	11.559	.19067	.19207	11.81	.22007	.19881
#2	11.506	.19105	.19195	11.82	.21969	.19623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193405-C-1-B MS Acquired: 12/15/2021 21:46:05 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.809**	**.18972**	**.23285**	**.22960**	**.19591**	**.19640**
Stddev	.087	.00093	.00078	.00103	.00051	.00057
%RSD	.40053	.49113	.33405	.44829	.26035	.29223
#1	21.871	.19038	.23340	.23032	.19555	.19680
#2	21.748	.18906	.23230	.22887	.19627	.19599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20947**
Stddev	.00148
%RSD	.70865
#1	.21052
#2	.20842
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193405-C-1-B MS Acquired: 12/15/2021 21:46:05 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3827.0	2480.2	71759.	3609.2
Stddev	1.9	6.3	129.	11.6
%RSD	.04989	.25219	.18029	.32124
#1	3828.4	2484.6	71667.	3601.0
#2	3825.7	2475.8	71850.	3617.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.871%	92.908%	97.798%	100.87%
Range				

Sample Name: 480-193405-C-1-C MSD Acquired: 12/15/2021 21:49:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04794	10.772	.20340	.22179	.21896	.20249
Stddev	.00013	.119	.00146	.00050	.00004	.00082
%RSD	.26952	1.1084	.71801	.22651	.01764	.40288
#1	.04785	10.857	.20237	.22143	.21899	.20307
#2	.04804	10.688	.20444	.22214	.21894	.20192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.210	.20272	-.0381	.19156	.19556	.19333
Stddev	.097	.00048	.0137	.00052	.00126	.00064
%RSD	.68448	.23488	36.12	.27217	.64220	.33351
#1	14.279	.20238	-.0283	.19120	.19644	.19287
#2	14.141	.20305	-.0478	.19193	.19467	.19378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193405-C-1-C MSD Acquired: 12/15/2021 21:49:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.705**	**9.9783**	**.18774**	**10.836**	**.29123**	**.18996**
Stddev	.029	.0021	.00097	.020	.00037	.00054
%RSD	.27473	.02118	.51747	.18587	.12717	.28392
#1	10.726	9.9798	.18705	10.850	.29149	.18957
#2	10.684	9.9768	.18842	10.822	.29097	.19034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.449**	**.18823**	**.19094**	**11.66**	**.21422**	**.19292**
Stddev	.063	.00003	.00003	.02	.00127	.00116
%RSD	.54962	.01787	.01734	.1350	.59412	.59889
#1	11.493	.18825	.19096	11.64	.21512	.19374
#2	11.404	.18820	.19092	11.67	.21332	.19211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193405-C-1-C MSD Acquired: 12/15/2021 21:49:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.963**	**.18723**	**.23012**	**.21172**	**.19452**	**.19380**
Stddev	.014	.00058	.00105	.00082	.00091	.00064
%RSD	.07430	.31001	.45571	.38593	.46654	.33093
#1	18.973	.18682	.23086	.21230	.19388	.19426
#2	18.953	.18764	.22938	.21115	.19517	.19335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20833**
Stddev	.00062
%RSD	.29846
#1	.20877
#2	.20789
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193405-C-1-C MSD Acquired: 12/15/2021 21:49:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3832.2	2488.7	71521.	3590.2
Stddev	1.9	.1	77.	6.2
%RSD	.04938	.00222	.10729	.17373
#1	3833.6	2488.6	71575.	3585.8
#2	3830.9	2488.7	71466.	3594.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.996%	93.225%	97.473%	100.34%
Range				

Sample Name: 480-193369-D-1-A Acquired: 12/15/2021 21:53:28 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**1.0903**	**-.00002**	**.02292**	**.08029**	**.00007**
Stddev	.00061	.0283	.00125	.00002	.00027	.00000
%RSD	105.86	2.5973	5729.0	.09642	.33615	3.1678
#1	-.00100	1.1103	-.00091	.02290	.08010	.00007
#2	-.00014	1.0703	.00087	.02293	.08048	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.620**	**.00019**	**-.0156**	**.00029**	**.00096**	**.00092**
Stddev	.038	.00005	.0234	.00011	.00029	.00019
%RSD	.07688	26.719	149.5	37.794	30.156	20.223
#1	49.647	.00015	-.0322	.00021	.00117	.00079
#2	49.593	.00022	.0009	.00036	.00076	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193369-D-1-A Acquired: 12/15/2021 21:53:28 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0165**	**1.1834**	**.00554**	**11.065**	**.12964**	F **-.02093**
Stddev	.0001	.0307	.00088	.037	.00016	.00009
%RSD	.00834	2.5961	15.892	.33512	.11980	.41898
#1	1.0165	1.2051	.00616	11.091	.12953	-.02087
#2	1.0164	1.1616	.00492	11.038	.12975	-.02099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.295**	**.00068**	**.00060**	**5.382**	**-.00093**	**-.00183**
Stddev	.054	.00008	.00072	.011	.00020	.00077
%RSD	.43616	11.236	120.14	.2076	21.626	41.834
#1	12.333	.00074	.00009	5.389	-.00078	-.00238
#2	12.257	.00063	.00110	5.374	-.00107	-.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193369-D-1-A Acquired: 12/15/2021 21:53:28 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.8638**	**-.00011**	**.13065**	**.02078**	**-.00021**	**.00185**
Stddev	.0488	.00039	.00118	.00087	.00088	.00021
%RSD	.83309	362.82	.90632	4.1874	411.71	11.536
#1	5.8293	.00017	.13148	.02016	-.00084	.00200
#2	5.8983	-.00039	.12981	.02139	.00041	.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00125**
Stddev	.00042
%RSD	33.467
#1	.00095
#2	.00154
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193369-D-1-A Acquired: 12/15/2021 21:53:28 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3806.1	2456.4	70655.	3545.2
Stddev	.3	1.9	176.	10.5
%RSD	.00748	.07842	.24960	.29667
#1	3806.3	2457.8	70780.	3537.7
#2	3805.9	2455.0	70531.	3552.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.364%	92.016%	96.294%	99.078%
Range				

Sample Name: 480-193369-D-2-A Acquired: 12/15/2021 21:57:20 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**1.1024**	**.01155**	**.20406**	**.43755**	**.00005**
Stddev	.00075	.0209	.00085	.00017	.00487	.00001
%RSD	211.66	1.8951	7.3473	.08475	1.1129	17.394
#1	.00018	1.0876	.01095	.20418	.44099	.00004
#2	-.00089	1.1172	.01215	.20394	.43411	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**84.108**	**.00023**	F **-.0587**	**.00345**	**.00063**	**.00119**
Stddev	.110	.00009	.0255	.00010	.00048	.00006
%RSD	.13125	39.322	43.49	2.8292	75.577	5.2127
#1	84.030	.00017	-.0407	.00352	.00029	.00123
#2	84.187	.00029	-.0768	.00338	.00097	.00114
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			1.500			
Low Limit			-.0500			

Sample Name: 480-193369-D-2-A Acquired: 12/15/2021 21:57:20 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.5401	9.0426	.00364	17.562	11.353	F -.02335
Stddev	.0308	.0128	.00029	.097	.022	.00005
%RSD	.32279	.14112	7.8986	.55152	.19144	.19602
#1	9.5183	9.0336	.00344	17.631	11.369	-.02332
#2	9.5619	9.0516	.00385	17.494	11.338	-.02338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.493	.00420	.00221	1.526	-.00097	-.00317
Stddev	.032	.00037	.00066	.001	.00013	.00200
%RSD	.23396	8.6869	30.068	.0616	13.067	63.209
#1	13.471	.00446	.00267	1.526	-.00088	-.00459
#2	13.515	.00394	.00174	1.527	-.00106	-.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193369-D-2-A Acquired: 12/15/2021 21:57:20 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.3466	-.00010	.25550	.01499	.00148	.00152
Stddev	.0046	.00068	.00053	.00054	.00057	.00024
%RSD	.07243	648.73	.20864	3.5994	38.318	15.963
#1	6.3434	.00037	.25513	.01537	.00108	.00169
#2	6.3499	-.00058	.25588	.01461	.00188	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00562
Stddev	.00034
%RSD	6.0379
#1	.00538
#2	.00586
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193369-D-2-A Acquired: 12/15/2021 21:57:20 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3679.7	2424.8	69773.	3568.3
Stddev	4.9	.7	358.	21.4
%RSD	.13428	.03038	.51370	.59880
#1	3683.2	2424.3	69519.	3583.4
#2	3676.2	2425.3	70026.	3553.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.296%	90.832%	95.090%	99.725%
Range				

Sample Name: 480-193369-D-3-A Acquired: 12/15/2021 22:01:23 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.32494**	**-.00008**	**.20088**	**1.0484**	**.00006**
Stddev	.00003	.01284	.00027	.00100	.0000	.00001
%RSD	4.9631	3.9509	332.49	.49933	.00024	21.306
#1	-.00054	.33402	-.00027	.20159	1.0484	.00005
#2	-.00058	.31586	.00011	.20018	1.0484	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**174.97**	**.00033**	**-.0259**	**.00291**	**.00014**	**.00107**
Stddev	.49	.00017	.0118	.00010	.00017	.00013
%RSD	.27914	53.365	45.38	3.2890	115.35	11.825
#1	174.62	.00020	-.0342	.00284	.00003	.00115
#2	175.31	.00045	-.0176	.00297	.00026	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193369-D-3-A Acquired: 12/15/2021 22:01:23 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.34302	2.0412	.01781	36.718	4.5191	F -.02303
Stddev	.00492	.0179	.00026	.030	.0179	.00039
%RSD	1.4331	.87589	1.4722	.08206	.39519	1.6907
#1	.34650	2.0539	.01800	36.740	4.5317	-.02330
#2	.33955	2.0286	.01763	36.697	4.5065	-.02275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.506	.00515	.00084	1.997	-.00289	-.00412
Stddev	.015	.00000	.00003	.000	.00166	.00325
%RSD	.03748	.01875	4.0677	.0197	57.621	78.996
#1	40.517	.00515	.00086	1.997	-.00406	-.00182
#2	40.496	.00515	.00081	1.998	-.00171	-.00642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193369-D-3-A Acquired: 12/15/2021 22:01:23 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.8489	.00007	.36231	.00537	.00085	.00065
Stddev	.0259	.00038	.00022	.00070	.00116	.00001
%RSD	.33026	546.17	.06126	12.962	135.43	.83154
#1	7.8305	.00034	.36216	.00586	.00004	.00065
#2	7.8672	-.00020	.36247	.00488	.00167	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03351
Stddev	.00040
%RSD	1.1919
#1	.03323
#2	.03379
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193369-D-3-A Acquired: 12/15/2021 22:01:23 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3516.0	2349.3	67548.	3492.0
Stddev	6.8	.4	26.	13.3
%RSD	.19383	.01673	.03902	.38037
#1	3511.2	2349.0	67530.	3501.4
#2	3520.8	2349.6	67567.	3482.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.322%	88.003%	92.059%	97.593%
Range				

Sample Name: 480-193369-D-4-A Acquired: 12/15/2021 22:05:25 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.19772**	**.00472**	**.01023**	**.73896**	**.00001**
Stddev	.00010	.00957	.00016	.00002	.00192	.00009
%RSD	20.957	4.8395	3.4242	.19469	.25921	908.84
#1	-.00052	.20448	.00461	.01021	.74031	.00008
#2	-.00039	.19095	.00484	.01024	.73760	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.786**	**.00054**	**-.0310**	**.00054**	**-.00047**	**.00086**
Stddev	.189	.00005	.0134	.00008	.00037	.00018
%RSD	.70377	9.3464	43.31	15.588	78.014	20.949
#1	26.653	.00050	-.0405	.00060	-.00073	.00098
#2	26.919	.00057	-.0215	.00048	-.00021	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193369-D-4-A Acquired: 12/15/2021 22:05:25 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.63131	.38636	.00516	5.9897	5.5610	F -.02278
Stddev	.00308	.01600	.00057	.0423	.0444	.00004
%RSD	.48786	4.1417	11.062	.70566	.79785	.18721
#1	.62913	.39767	.00557	6.0196	5.5923	-.02275
#2	.63348	.37504	.00476	5.9598	5.5296	-.02281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.0378	.00029	.00166	2.547	-.00085	-.00344
Stddev	.0034	.00020	.00064	.009	.00141	.00127
%RSD	.05659	71.236	38.704	.3664	166.58	36.979
#1	6.0402	.00043	.00212	2.554	-.00185	-.00434
#2	6.0354	.00014	.00121	2.541	.00015	-.00254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193369-D-4-A Acquired: 12/15/2021 22:05:25 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.1444**	**-.00002**	**.06406**	**.00123**	**-.00026**	**.00060**
Stddev	.0086	.00061	.00037	.00041	.00055	.00012
%RSD	.16691	3624.3	.57959	33.289	207.43	20.538
#1	5.1505	-.00045	.06380	.00094	-.00065	.00069
#2	5.1384	.00042	.06433	.00152	.00012	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.04598**
Stddev	.00055
%RSD	1.2011
#1	.04637
#2	.04559
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193369-D-4-A Acquired: 12/15/2021 22:05:25 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3908.3	2488.4	71449.	3543.3
Stddev	10.4	3.6	52.	5.5
%RSD	.26658	.14576	.07318	.15600
#1	3915.6	2491.0	71412.	3547.2
#2	3900.9	2485.9	71486.	3539.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.842%	93.217%	97.375%	99.025%
Range				

Sample Name: 480-193369-D-5-A Acquired: 12/15/2021 22:09:29 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.04226**	**.00153**	**.01051**	**.31625**	**.00004**
Stddev	.00001	.00733	.00152	.00004	.00188	.00001
%RSD	1.6185	17.336	99.665	.38687	.59604	26.689
#1	-.00056	.04744	.00260	.01054	.31758	.00005
#2	-.00058	.03708	.00045	.01048	.31492	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.961**	**.00026**	**-.0337**	**-.00004**	**-.00028**	**.00014**
Stddev	.064	.00003	.0051	.00012	.00026	.00025
%RSD	.23692	11.235	15.11	302.89	90.843	178.00
#1	27.007	.00028	-.0301	.00004	-.00010	-.00004
#2	26.916	.00024	-.0373	-.00012	-.00046	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193369-D-5-A Acquired: 12/15/2021 22:09:29 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18609**	**.36905**	**.00477**	**6.0948**	**1.2140**	F **-.02313**
Stddev	.00531	.01127	.00104	.0121	.0013	.00003
%RSD	2.8513	3.0528	21.805	.19938	.10315	.13548
#1	.18984	.37702	.00403	6.0862	1.2132	-.02311
#2	.18234	.36108	.00550	6.1034	1.2149	-.02315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.2145**	**-.00008**	**.00026**	**2.541**	**.00023**	**-.00374**
Stddev	.0002	.00006	.00044	.001	.00056	.00189
%RSD	.00266	76.398	167.15	.0480	246.67	50.439
#1	6.2144	-.00004	-.00005	2.542	-.00017	-.00508
#2	6.2146	-.00013	.00057	2.540	.00062	-.00241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193369-D-5-A Acquired: 12/15/2021 22:09:29 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.0034**	**-.00067**	**.06399**	**-.00050**	**-.00025**	**.00031**
Stddev	.0009	.00003	.00006	.00028	.00085	.00016
%RSD	.01862	4.9210	.08992	56.419	342.15	51.728
#1	5.0041	-.00069	.06395	-.00030	.00035	.00043
#2	5.0027	-.00064	.06403	-.00069	-.00085	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01938**
Stddev	.00005
%RSD	.23555
#1	.01941
#2	.01935
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193369-D-5-A Acquired: 12/15/2021 22:09:29 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3915.7	2486.9	71618.	3575.2
Stddev	1.8	5.7	290.	12.0
%RSD	.04610	.22893	.40442	.33518
#1	3914.4	2482.9	71413.	3566.7
#2	3916.9	2490.9	71823.	3583.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.021%	93.159%	97.606%	99.918%
Range				

Sample Name: 480-193336-F-1-B Acquired: 12/15/2021 22:13:26 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.12812**	**.03657**	**.33273**	**.34245**	**.00002**
Stddev	.00027	.01052	.00100	.00095	.00177	.00003
%RSD	44.590	8.2076	2.7305	.28421	.51771	138.81
#1	-.00041	.13556	.03728	.33206	.34371	.00000
#2	-.00079	.12069	.03587	.33339	.34120	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**162.59**	**.00022**	**-.0157**	**.00171**	**.00034**	**.00088**
Stddev	.62	.00002	.0191	.00008	.00024	.00029
%RSD	.38145	8.9583	121.6	4.5496	69.190	33.404
#1	163.03	.00024	-.0293	.00165	.00051	.00067
#2	162.15	.00021	-.0022	.00176	.00017	.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193336-F-1-B Acquired: 12/15/2021 22:13:26 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.889**	**9.0500**	**.01019**	**43.910**	**2.6535**	F **-.02384**
Stddev	.051	.0045	.00150	.086	.0051	.00006
%RSD	.30442	.05000	14.755	.19610	.19073	.26690
#1	16.925	9.0532	.01126	43.849	2.6500	-.02389
#2	16.853	9.0468	.00913	43.970	2.6571	-.02380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**178.39**	**.00739**	**.00256**	**30.21**	**-.00160**	**-.01283**
Stddev	.25	.00016	.00109	.01	.00126	.00190
%RSD	.14203	2.1433	42.444	.0386	78.377	14.816
#1	178.21	.00728	.00179	30.20	-.00249	-.01148
#2	178.57	.00750	.00333	30.22	-.00071	-.01417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193336-F-1-B Acquired: 12/15/2021 22:13:26 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.289**	**-.00034**	**.48055**	**.00125**	**-.00004**	**.00025**
Stddev	.108	.00025	.00215	.00050	.00007	.00017
%RSD	1.0507	73.822	.44781	39.508	171.32	67.737
#1	10.365	-.00016	.48207	.00160	-.00009	.00013
#2	10.212	-.00052	.47903	.00090	.00001	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.06771**
Stddev	.00142
%RSD	2.0912
#1	.06671
#2	.06871
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193336-F-1-B Acquired: 12/15/2021 22:13:26 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3374.4	2295.1	65786.	3477.4
Stddev	1.3	2.0	154.	11.7
%RSD	.03896	.08890	.23365	.33633
#1	3375.3	2296.5	65894.	3469.1
#2	3373.4	2293.6	65677.	3485.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.885%	85.973%	89.657%	97.185%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 22:17:28 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0079	50.682	1.0066	1.0666	1.0202	.99765	50.787	1.0366
Stddev	.0017	.479	.0016	.0018	.0072	.00721	.366	.0024
%RSD	.17198	.94425	.15743	.16856	.70072	.72248	.72083	.22782
#1	1.0067	51.020	1.0055	1.0679	1.0253	1.0027	51.045	1.0383
#2	1.0092	50.343	1.0077	1.0653	1.0152	.99255	50.528	1.0349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.003	1.0021	1.0199	.98943	49.559	49.447	.99001	50.193
Stddev	.006	.0011	.0004	.00177	.227	.205	.00482	.187
%RSD	.6393	.10845	.04348	.17937	.45763	.41377	.48647	.37250
#1	1.007	1.0029	1.0196	.98818	49.719	49.591	.99342	50.060
#2	.9983	1.0014	1.0202	.99069	49.398	49.302	.98661	50.325
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99919	1.0180	49.635	.98214	.97577	26.38	1.0352	1.0147
Stddev	.00261	.0009	.431	.00012	.00127	.01	.0010	.0007
%RSD	.26103	.08503	.86874	.01234	.13024	.0323	.09450	.06601
#1	.99734	1.0174	49.940	.98222	.97666	26.38	1.0359	1.0152
#2	1.0010	1.0186	49.330	.98205	.97487	26.37	1.0345	1.0142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/15/2021 22:17:28 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.164	1.0068	.99550	.99668	.98537	1.0043	1.0595
Stddev	.053	.0002	.00654	.00347	.00246	.0016	.0051
%RSD	.51983	.01962	.65661	.34795	.25005	.15779	.47783
#1	10.201	1.0067	1.0001	.99423	.98712	1.0031	1.0559
#2	10.126	1.0069	.99088	.99913	.98363	1.0054	1.0630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3533.2	2446.4	68243.	3474.3
Stddev	6.1	5.9	218.	17.8
%RSD	.17189	.23932	.32012	.51112
#1	3528.9	2442.2	68398.	3461.7
#2	3537.5	2450.5	68089.	3486.8

Sample Name: CCB-6810114 Acquired: 12/15/2021 22:21:09 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.01485**	**.00016**	**-.00203**	**-.00006**	**.00007**	**-.00376**
Stddev	.00007	.00173	.00012	.00020	.00000	.00001	.00080
%RSD	47.612	11.631	76.742	9.6526	1.3774	12.575	21.240
#1	-.00020	.01607	.00007	-.00217	-.00006	.00007	-.00319
#2	-.00010	.01363	.00025	-.00189	-.00006	.00008	-.00432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.0331**	**-.00007**	**-.00017**	**-.00002**	**.00069**	**-.07476**
Stddev	.00001	.0014	.00007	.00000	.00008	.00023	.01274
%RSD	30.183	4.264	104.70	2.9105	496.00	33.633	17.035
#1	.00003	-.0321	-.00002	-.00016	.00004	.00086	-.08377
#2	.00002	-.0341	-.00012	-.00017	-.00008	.00053	-.06576
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**.00103**	**.00003**	F **-.01560**	**-.01395**	**.00001**	**-.00029**
Stddev	.00035	.00184	.00002	.00102	.00444	.00001	.00044
%RSD	38.530	178.99	58.037	6.5359	31.863	85.278	154.41
#1	-.00066	-.00027	.00004	-.01488	-.01709	.00002	.00003
#2	-.00116	.00233	.00002	-.01632	-.01081	.00001	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.01000			
Low Limit				-.01000			

Sample Name: CCB-6810114 Acquired: 12/15/2021 22:21:09 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116	.00153	.00472	-.01375	.00021	-.00002	-.00039
Stddev	.0023	.00003	.00112	.01090	.00077	.00004	.00009
%RSD	19.50	2.1484	23.815	79.272	361.93	226.78	21.845
#1	.0132	.00150	.00551	-.00604	-.00033	-.00005	-.00033
#2	.0100	.00155	.00392	-.02146	.00075	.00001	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.00034	.00009	-.00071
Stddev	.00053	.00011	.00028
%RSD	153.99	123.44	38.868
#1	-.00003	.00017	-.00051
#2	.00072	.00001	-.00090
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4134.3	2544.7	73165.	3536.9
Stddev	7.7	5.1	206.	13.2
%RSD	.18694	.19892	.28165	.37445
#1	4128.8	2541.2	73019.	3527.5
#2	4139.8	2548.3	73310.	3546.3

Sample Name: CCVL-6811103 Acquired: 12/15/2021 22:25:05 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00579**	**.18987**	**.01460**	**.01778**	**.00203**	**.00194**	**.50547**
Stddev	.00029	.00574	.00010	.00019	.00000	.00006	.00299
%RSD	4.9493	3.0246	.70020	1.0949	.17034	3.0233	.59155
#1	.00599	.18581	.01453	.01792	.00203	.00190	.50336
#2	.00559	.19393	.01468	.01764	.00203	.00199	.50758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**.0004**	**.00383**	**.00384**	**.00956**	**.04871**	**.38226**
Stddev	.00010	.0209	.00009	.00021	.00012	.00544	.00202
%RSD	4.8564	4653.	2.2342	5.3722	1.2228	11.161	.52855
#1	.00207	-.0143	.00377	.00369	.00948	.04487	.38083
#2	.00193	.0152	.00389	.00399	.00965	.05255	.38369
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02666**	**.19329**	**.00301**	F **-.01102**	**.94557**	**.00950**	**.00984**
Stddev	.00062	.00150	.00002	.00006	.00943	.00001	.00036
%RSD	2.3092	.77713	.58807	.58817	.99751	.10404	3.7034
#1	.02622	.19436	.00300	-.01097	.93890	.00949	.00958
#2	.02709	.19223	.00302	-.01106	.95224	.00951	.01009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6811103 Acquired: 12/15/2021 22:25:05 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2040	.02227	.01941	.48122	.00937	.00491	.00411
Stddev	.0013	.00084	.00024	.00663	.00050	.00005	.00018
%RSD	.6468	3.7848	1.2583	1.3782	5.3060	1.1028	4.4296
#1	.2030	.02168	.01924	.48591	.00972	.00495	.00424
#2	.2049	.02287	.01959	.47653	.00902	.00487	.00398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.01928	.00501	.01031
Stddev	.00127	.00012	.00047
%RSD	6.5972	2.4567	4.5340
#1	.01838	.00510	.00998
#2	.02018	.00492	.01064
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4096.6	2545.0	73469.	3550.5
Stddev	3.5	3.9	12.	4.2
%RSD	.08543	.15417	.01624	.11805
#1	4094.1	2542.2	73477.	3547.5
#2	4099.1	2547.7	73461.	3553.4

Sample Name: 480-193336-F-2-B Acquired: 12/15/2021 22:28:59 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.41946**	**.03970**	**9.8466**	**.35004**	**.00004**
Stddev	.00019	.01403	.00182	.0100	.00324	.00003
%RSD	24.402	3.3453	4.5752	.10146	.92423	71.008
#1	-.00065	.42938	.04099	9.8395	.34775	.00002
#2	-.00091	.40953	.03842	9.8537	.35233	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**254.86**	**.00025**	F **-.0514**	**.01425**	**.05485**	**.00983**
Stddev	.47	.00015	.0108	.00001	.00008	.00024
%RSD	.18481	58.920	21.02	.04957	.13733	2.4741
#1	254.52	.00015	-.0590	.01426	.05480	.01000
#2	255.19	.00035	-.0438	.01425	.05491	.00965
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			1.500			
Low Limit			-.0500			

Sample Name: 480-193336-F-2-B Acquired: 12/15/2021 22:28:59 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.9769**	**215.27**	**.08487**	**99.916**	**1.6458**	F **-.02054**
Stddev	.0027	.07	.00054	.025	.0003	.00059
%RSD	.09225	.03380	.63567	.02548	.01700	2.8950
#1	2.9749	215.32	.08449	99.934	1.6460	-.02096
#2	2.9788	215.22	.08525	99.898	1.6456	-.02012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**710.06**	**.08117**	**.00223**	**75.46**	**-.00081**	**-.01430**
Stddev	.62	.00028	.00084	.05	.00250	.00401
%RSD	.08671	.34619	37.510	.0627	309.17	28.042
#1	709.63	.08097	.00164	75.42	-.00257	-.01146
#2	710.50	.08137	.00282	75.49	.00096	-.01713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193336-F-2-B Acquired: 12/15/2021 22:28:59 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.250**	**.00238**	**1.3598**	**.01790**	**.00099**	**.00992**
Stddev	.095	.00014	.0008	.00000	.00152	.00010
%RSD	.66403	6.0301	.06192	.02739	154.26	.99996
#1	14.184	.00248	1.3592	.01791	-.00009	.00985
#2	14.317	.00228	1.3604	.01790	.00207	.00999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.05053**
Stddev	.00045
%RSD	.88064
#1	.05022
#2	.05085
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193336-F-2-B Acquired: 12/15/2021 22:28:59 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3010.3**	**2155.9**	**61175.**	**3414.0**
Stddev	.2	1.0	156.	5.4
%RSD	.00826	.04458	.25563	.15790
#1	3010.2	2156.6	61285.	3417.8
#2	3010.5	2155.2	61064.	3410.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.052%	80.760%	83.373%	95.411%
Range				

Sample Name: 480-193336-F-3-B Acquired: 12/15/2021 22:32:59 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.11944**	**.01654**	**5.4371**	**.69705**	**.00002**
Stddev	.00052	.01562	.00284	.0003	.00351	.00008
%RSD	99.051	13.081	17.182	.00485	.50296	367.46
#1	-.00016	.10839	.01453	5.4373	.69953	-.00004
#2	-.00089	.13049	.01855	5.4369	.69457	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**224.62**	**.00021**	**-.0187**	**.00875**	**.01669**	**.00407**
Stddev	.59	.00000	.0132	.00004	.00036	.00026
%RSD	.26327	.66476	70.67	.40870	2.1774	6.4885
#1	225.03	.00021	-.0093	.00877	.01644	.00426
#2	224.20	.00021	-.0280	.00872	.01695	.00388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193336-F-3-B Acquired: 12/15/2021 22:32:59 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.9902	127.18	.03193	67.744	2.4287	F -.02145
Stddev	.0223	.44	.00056	.087	.0005	.00007
%RSD	.27910	.34373	1.7472	.12864	.01940	.30458
#1	8.0060	127.49	.03154	67.683	2.4290	-.02149
#2	7.9745	126.87	.03233	67.806	2.4283	-.02140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	466.92	.05167	.00372	23.60	-.00170	-.01361
Stddev	2.62	.00025	.00086	.03	.00199	.00297
%RSD	.56051	.47730	23.077	.1344	117.34	21.850
#1	468.77	.05184	.00433	23.62	-.00029	-.01571
#2	465.07	.05149	.00312	23.58	-.00310	-.01151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193336-F-3-B Acquired: 12/15/2021 22:32:59 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.734**	**.00094**	**1.1676**	**.00623**	**.00060**	**.00539**
Stddev	.082	.00089	.0072	.00016	.00066	.00026
%RSD	.69683	94.155	.61927	2.5178	110.47	4.9073
#1	11.676	.00032	1.1727	.00635	.00106	.00558
#2	11.792	.00157	1.1624	.00612	.00013	.00520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.11799**
Stddev	.00048
%RSD	.40264
#1	.11765
#2	.11833
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193336-F-3-B Acquired: 12/15/2021 22:32:59 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3131.5	2211.5	63046.	3458.1
Stddev	2.8	2.8	40.	14.0
%RSD	.08795	.12819	.06279	.40393
#1	3129.5	2209.5	63074.	3448.2
#2	3133.4	2213.5	63018.	3468.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.991%	82.841%	85.924%	96.645%
Range				

Sample Name: 480-193336-F-5-A Acquired: 12/15/2021 22:36:58 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.02746**	**.71020**	**3.9093**	**.11522**	**8.9911**	**.00203**
Stddev	.00018	.01339	.0011	.00073	.0525	.00004
%RSD	.66522	1.8849	.02827	.63114	.58344	1.9283
#1	-.02759	.70074	3.9086	.11573	9.0282	.00206
#2	-.02734	.71967	3.9101	.11470	8.9540	.00200
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000					
Low Limit	-.00600					

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**173.74**	**-.00074**	**1.044**	**.01461**	**.03159**	**.07723**
Stddev	.79	.00011	.009	.00071	.00065	.00009
%RSD	.45280	14.510	.8965	4.8313	2.0421	.11460
#1	174.30	-.00081	1.037	.01411	.03205	.07729
#2	173.18	-.00066	1.051	.01511	.03114	.07717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193336-F-5-A Acquired: 12/15/2021 22:36:58 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 3248.3	1.7727	-.00346	6.5600	11.137	F -.03926
Stddev	2.0	.0075	.00021	.0090	.015	.00065
%RSD	.06057	.42218	6.1048	.13661	.13531	1.6558
#1	3249.7	1.7780	-.00331	6.5664	11.127	-.03972
#2	3246.9	1.7674	-.00361	6.5537	11.148	-.03880
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	540.00					4.5000
Low Limit	-.05000					-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.8725	.09839	.31544	8.297	.03045	-.00557
Stddev	.0516	.00011	.00006	.005	.00165	.00502
%RSD	.75064	.11544	.02002	.0605	5.4089	90.145
#1	6.9090	.09831	.31548	8.301	.03161	-.00202
#2	6.8360	.09847	.31540	8.293	.02928	-.00912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193336-F-5-A Acquired: 12/15/2021 22:36:58 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**44.131**	**.02380**	**.57313**	**.01261**	F **-.03592**	**.05310**
Stddev	.240	.00076	.00266	.00015	.00170	.00006
%RSD	.54380	3.2082	.46383	1.2181	4.7300	.11922
#1	44.301	.02326	.57501	.01272	-.03472	.05314
#2	43.961	.02434	.57125	.01250	-.03712	.05305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					18.000	
Low Limit					-.02000	

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.11386**
Stddev	.00118
%RSD	1.0385
#1	.11470
#2	.11303
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193336-F-5-A Acquired: 12/15/2021 22:36:58 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2759.4	2246.5	69287.	3570.2
Stddev	12.4	10.5	313.	6.7
%RSD	.44754	.46959	.45209	.18698
#1	2768.2	2253.9	69066.	3565.5
#2	2750.7	2239.0	69509.	3574.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	66.963%	84.152%	94.429%	99.778%
Range				

Sample Name: rinse Acquired: 12/15/2021 22:40:58 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00686**	**.00671**	**.00298**	**.00003**	**.00002**
Stddev	.00024	.01521	.00288	.00042	.00001	.00012
%RSD	155.45	221.67	42.945	13.960	20.014	633.56
#1	.00002	.00389	.00467	.00327	.00004	.00010
#2	-.00033	-.01762	.00874	.00269	.00003	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00240**	**.00011**	**-.0181**	**.00012**	**-.00013**	**-.00020**
Stddev	.00109	.00003	.0018	.00003	.00025	.00018
%RSD	45.461	23.960	9.927	22.296	197.52	88.478
#1	-.00163	.00009	-.0193	.00010	-.00031	-.00033
#2	-.00318	.00013	-.0168	.00014	.00005	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: rinse Acquired: 12/15/2021 22:40:58 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07614	-.06131	-.00084	.00107	.00019	F -.02336
Stddev	.00619	.00185	.00096	.00040	.00003	.00007
%RSD	8.1357	3.0148	114.83	37.584	14.797	.28826
#1	.07176	-.06000	-.00016	.00079	.00021	-.02331
#2	.08052	-.06262	-.00152	.00136	.00017	-.02341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	-.00008	.00005	.0161	.00017	-.00205
Stddev	.00419	.00006	.00058	.0011	.00117	.00183
%RSD	1258.4	76.892	1110.8	6.679	701.70	89.323
#1	.00330	-.00013	.00046	.0169	-.00066	-.00334
#2	-.00263	-.00004	-.00036	.0154	.00100	-.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: rinse Acquired: 12/15/2021 22:40:58 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09489	.00025	.00003	-.00081	-.00073	.00036
Stddev	.00782	.00007	.00004	.00001	.00038	.00036
%RSD	8.2432	28.705	125.43	.82972	52.411	100.59
#1	.08936	.00030	.00006	-.00082	-.00100	.00010
#2	.10042	.00020	.00000	-.00081	-.00046	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	-.00085
Stddev	.00004
%RSD	4.8131
#1	-.00088
#2	-.00082
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: rinse Acquired: 12/15/2021 22:40:58 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4122.5	2546.0	73554.	3546.1
Stddev	5.7	4.8	103.	.7
%RSD	.13713	.18732	.14024	.01872
#1	4118.6	2542.7	73481.	3546.6
#2	4126.5	2549.4	73627.	3545.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.04%	95.374%	100.24%	99.105%
Range				

Sample Name: rinse Acquired: 12/15/2021 22:44:53 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**-.01246**	**.00062**	**.00105**	**-.00013**	**.00005**
Stddev	.00016	.03634	.00146	.00011	.00001	.00009
%RSD	33.343	291.59	236.84	10.180	8.4074	204.32
#1	-.00037	.01323	-.00042	.00113	-.00012	-.00002
#2	-.00060	-.03816	.00165	.00098	-.00013	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00416**	**-.00001**	**-.0107**	**.00003**	**-.00008**	**-.00011**
Stddev	.00194	.00004	.0050	.00010	.00032	.00022
%RSD	46.614	345.64	47.15	396.42	414.41	193.65
#1	-.00279	-.00004	-.0143	-.00005	.00015	-.00027
#2	-.00553	.00002	-.0071	.00010	-.00030	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: rinse Acquired: 12/15/2021 22:44:53 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00620	-.05867	-.00081	.00257	.00004	F -.02364
Stddev	.00355	.00576	.00078	.00016	.00007	.00019
%RSD	57.212	9.8145	97.077	6.1259	187.87	.79981
#1	.00871	-.05460	-.00136	.00246	.00008	-.02378
#2	.00369	-.06274	-.00025	.00268	-.00001	-.02351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00324	-.00019	-.00033	.0144	-.00032	-.00261
Stddev	.00161	.00015	.00075	.0001	.00156	.00067
%RSD	49.753	77.146	229.66	.7684	486.70	25.794
#1	-.00210	-.00029	.00020	.0143	.00078	-.00213
#2	-.00438	-.00009	-.00086	.0145	-.00142	-.00308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: rinse Acquired: 12/15/2021 22:44:53 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02672	.00041	-.00006	-.00076	-.00053	.00021
Stddev	.00156	.00042	.00001	.00012	.00002	.00009
%RSD	5.8405	102.21	16.561	15.169	3.6685	42.811
#1	.02562	.00011	-.00005	-.00084	-.00052	.00028
#2	.02782	.00071	-.00007	-.00068	-.00055	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	-.00028
Stddev	.00032
%RSD	114.92
#1	-.00050
#2	-.00005
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: rinse Acquired: 12/15/2021 22:44:53 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4123.6	2533.0	73206.	3526.6
Stddev	.8	8.0	352.	2.1
%RSD	.01904	.31699	.48112	.06011
#1	4123.0	2527.3	72957.	3525.1
#2	4124.1	2538.7	73455.	3528.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.07%	94.886%	99.769%	98.560%
Range				

Sample Name: 480-193336-F-6-A Acquired: 12/15/2021 22:48:47 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.06067**	**.01409**	**6.2714**	**.79590**	**-.00004**
Stddev	.00033	.00136	.00122	.0026	.00408	.00002
%RSD	67.116	2.2348	8.6768	.04074	.51220	53.342
#1	-.00072	.06162	.01495	6.2696	.79301	-.00003
#2	-.00025	.05971	.01322	6.2732	.79878	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**251.43**	**.00032**	**-.0317**	**.01095**	**.01893**	**.00148**
Stddev	.17	.00006	.0301	.00005	.00017	.00017
%RSD	.06790	18.963	94.91	.49367	.90600	11.461
#1	251.55	.00036	-.0529	.01091	.01881	.00136
#2	251.31	.00027	-.0104	.01099	.01905	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193336-F-6-A Acquired: 12/15/2021 22:48:47 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.2154**	**146.33**	**.03495**	**82.202**	**1.8563**	F **-.02090**
Stddev	.0160	.37	.00158	.297	.0074	.00007
%RSD	.17358	.25255	4.5249	.36079	.39637	.34991
#1	9.2267	146.06	.03383	81.992	1.8511	-.02095
#2	9.2041	146.59	.03606	82.412	1.8615	-.02085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**564.77**	**.06206**	**.00204**	**11.21**	**.00024**	**-.01444**
Stddev	3.35	.00038	.00042	.01	.00299	.00030
%RSD	.59287	.61351	20.798	.1205	1232.3	2.0572
#1	562.40	.06233	.00174	11.22	-.00187	-.01465
#2	567.14	.06179	.00234	11.20	.00236	-.01423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193336-F-6-A Acquired: 12/15/2021 22:48:47 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.891**	**.00112**	**1.3417**	**.00710**	**.00171**	**.00643**
Stddev	.038	.00045	.0074	.00012	.00044	.00035
%RSD	.31736	40.278	.55101	1.6235	25.841	5.4438
#1	11.865	.00080	1.3365	.00718	.00202	.00618
#2	11.918	.00143	1.3469	.00702	.00139	.00668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00694**
Stddev	.00064
%RSD	9.2877
#1	.00739
#2	.00648
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193336-F-6-A Acquired: 12/15/2021 22:48:47 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3081.7	2183.2	62152.	3404.1
Stddev	.5	2.1	222.	3.9
%RSD	.01569	.09449	.35710	.11571
#1	3081.3	2181.7	62309.	3406.9
#2	3082.0	2184.6	61995.	3401.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.783%	81.781%	84.704%	95.137%
Range				

Sample Name: 480-193336-F-7-A Acquired: 12/15/2021 22:52:47 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.03555**	**.00035**	**.54413**	**.23470**	**.00001**
Stddev	.00022	.00623	.00210	.00151	.00050	.00009
%RSD	201.48	17.532	594.44	.27774	.21209	702.36
#1	-.00027	.03114	-.00113	.54519	.23435	.00008
#2	.00005	.03995	.00183	.54306	.23506	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**120.34**	**.00019**	**-.0210**	**.00056**	**.00037**	**.00380**
Stddev	.09	.00005	.0352	.00003	.00015	.00009
%RSD	.07257	27.414	167.3	5.1292	40.283	2.2408
#1	120.40	.00015	-.0459	.00058	.00048	.00374
#2	120.28	.00022	.0039	.00054	.00027	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193336-F-7-A Acquired: 12/15/2021 22:52:47 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.78161	35.363	.01027	21.961	.17799	F -.02201
Stddev	.00440	.068	.00073	.049	.00028	.00038
%RSD	.56358	.19336	7.1499	.22409	.15573	1.7095
#1	.78472	35.411	.01079	21.926	.17779	-.02174
#2	.77849	35.314	.00975	21.996	.17818	-.02227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	158.48	.00459	.00393	16.14	-.00128	-.00799
Stddev	.14	.00015	.00069	.03	.00077	.00326
%RSD	.08593	3.3665	17.574	.1576	60.158	40.802
#1	158.39	.00470	.00442	16.15	-.00074	-.01029
#2	158.58	.00449	.00344	16.12	-.00183	-.00568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193336-F-7-A Acquired: 12/15/2021 22:52:47 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.5763**	**-.00009**	**2.6899**	**.00005**	**-.00013**	**-.00018**
Stddev	.0296	.00065	.0000	.00013	.00018	.00003
%RSD	.64637	738.04	.00096	261.94	130.93	19.270
#1	4.5972	.00037	2.6898	-.00004	-.00001	-.00015
#2	4.5553	-.00055	2.6899	.00014	-.00026	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00675**
Stddev	.00009
%RSD	1.3354
#1	.00681
#2	.00669
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193336-F-7-A Acquired: 12/15/2021 22:52:47 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3445.3	2319.6	66362.	3455.8
Stddev	.3	1.2	252.	7.7
%RSD	.00895	.04990	.38033	.22411
#1	3445.1	2320.5	66541.	3450.3
#2	3445.5	2318.8	66184.	3461.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.607%	86.894%	90.443%	96.580%
Range				

Sample Name: MB 480-608869/1-A Acquired: 12/15/2021 22:56:43 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00866**	**.00021**	**.00279**	**-.00009**	**.00006**
Stddev	.00044	.01021	.00033	.00033	.00001	.00001
%RSD	445.87	117.88	157.18	11.706	11.208	9.6476
#1	.00021	-.00144	-.00002	.00256	-.00009	.00007
#2	-.00041	-.01588	.00045	.00302	-.00008	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04754**	**.00008**	**-.0212**	**.00012**	**-.00035**	**-.00004**
Stddev	.00320	.00001	.0353	.00005	.00004	.00000
%RSD	6.7356	7.8233	166.5	41.967	10.984	7.0466
#1	.04980	.00007	.0038	.00015	-.00033	-.00004
#2	.04527	.00008	-.0462	.00008	-.00038	-.00004
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-608869/1-A Acquired: 12/15/2021 22:56:43 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.03461**	**-.00003**	**.00272**	**.00014**	F **-.02361**
Stddev	.00040	.00751	.00048	.00034	.00002	.00006
%RSD	130.53	21.698	1778.5	12.666	16.091	.25565
#1	-.00002	.03992	.00032	.00296	.00016	-.02357
#2	-.00058	.02930	-.00037	.00247	.00013	-.02366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.00500
Low Limit						-.00500

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06186**	**.00003**	**-.00055**	**.0173**	**-.00118**	**.00012**
Stddev	.00160	.00022	.00033	.0022	.00059	.00044
%RSD	2.5870	825.67	60.026	12.95	49.688	352.75
#1	.06073	-.00013	-.00032	.0189	-.00160	.00044
#2	.06299	.00018	-.00078	.0157	-.00077	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-608869/1-A Acquired: 12/15/2021 22:56:43 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01445	.00044	.00013	-.00092	-.00035	.00028
Stddev	.00529	.00063	.00003	.00014	.00012	.00006
%RSD	36.635	142.71	24.200	15.094	34.761	21.072
#1	.01819	.00088	.00015	-.00082	-.00027	.00024
#2	.01071	-.00000	.00011	-.00102	-.00044	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	-.00001
Stddev	.00019
%RSD	1534.4
#1	-.00015
#2	.00012
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: MB 480-608869/1-A Acquired: 12/15/2021 22:56:43 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4116.4	2530.8	73592.	3554.6
Stddev	2.9	4.9	278.	5.9
%RSD	.07124	.19536	.37797	.16506
#1	4114.4	2527.3	73789.	3550.5
#2	4118.5	2534.3	73395.	3558.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.894%	94.802%	100.30%	99.343%
Range				

Sample Name: LCS 480-608869/2-A Acquired: 12/15/2021 23:00:38 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04967	9.9360	.20882	.21435	.21485	.20720
Stddev	.00001	.0196	.00081	.00024	.00080	.00056
%RSD	.02292	.19707	.38624	.11171	.37073	.27124
#1	.04967	9.9499	.20939	.21451	.21428	.20681
#2	.04968	9.9222	.20825	.21418	.21541	.20760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.122	.20930	-.0154	.19522	.19993	.19482
Stddev	.025	.00026	.0009	.00007	.00063	.00105
%RSD	.24949	.12422	5.665	.03723	.31415	.53724
#1	10.104	.20948	-.0148	.19517	.19949	.19408
#2	10.140	.20911	-.0160	.19527	.20037	.19556
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCS 480-608869/2-A Acquired: 12/15/2021 23:00:38 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.060**	**9.7737**	**.19528**	**10.270**	**.20377**	**.19316**
Stddev	.030	.0047	.00036	.080	.00139	.00097
%RSD	.29767	.04810	.18491	.78286	.68276	.50319
#1	10.039	9.7770	.19553	10.213	.20279	.19385
#2	10.081	9.7703	.19502	10.326	.20476	.19248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6488**	**.19033**	**.19180**	**10.35**	**.22242**	**.19978**
Stddev	.0176	.00026	.00173	.05	.00145	.00092
%RSD	.18254	.13420	.90189	.4605	.65240	.46255
#1	9.6364	.19051	.19302	10.39	.22345	.19913
#2	9.6613	.19015	.19057	10.32	.22140	.20044
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCS 480-608869/2-A Acquired: 12/15/2021 23:00:38 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.5991	.19072	.19807	.19958	.19883	.19736
Stddev	.0039	.00008	.00031	.00126	.00024	.00069
%RSD	.04069	.04169	.15660	.62999	.12269	.34728
#1	9.5964	.19066	.19829	.19869	.19900	.19688
#2	9.6019	.19077	.19785	.20047	.19866	.19785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20841
Stddev	.00417
%RSD	1.9985
#1	.20546
#2	.21135
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: LCS 480-608869/2-A Acquired: 12/15/2021 23:00:38 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3856.8	2477.0	71672.	3563.4
Stddev	1.9	3.0	325.	3.5
%RSD	.05028	.11913	.45299	.09955
#1	3855.4	2474.9	71902.	3560.9
#2	3858.2	2479.1	71443.	3565.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.593%	92.787%	97.680%	99.588%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 23:04:22 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0125**	**49.788**	**1.0103**	**1.0803**	**1.0043**	**.98933**	**50.483**	**1.0482**
Stddev	.0001	.146	.0045	.0009	.0041	.00038	.010	.0003
%RSD	.01286	.29291	.44771	.08347	.40625	.03798	.01961	.03284
#1	1.0124	49.891	1.0135	1.0796	1.0072	.98960	50.490	1.0479
#2	1.0126	49.685	1.0071	1.0809	1.0014	.98907	50.476	1.0484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9935**	**1.0047**	**1.0136**	**.99043**	**49.255**	**49.263**	**.98811**	**50.291**
Stddev	.0257	.0005	.0051	.00264	.201	.243	.00337	.306
%RSD	2.587	.05363	.50266	.26620	.40791	.49307	.34097	.60820
#1	1.012	1.0051	1.0100	.99229	49.113	49.435	.99049	50.075
#2	.9753	1.0043	1.0172	.98856	49.397	49.092	.98572	50.508
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0007**	**1.0246**	**48.789**	**.97874**	**.96947**	**26.76**	**1.0426**	**1.0212**
Stddev	.0023	.0037	.242	.00017	.00112	.02	.0050	.0053
%RSD	.22621	.36503	.49610	.01712	.11561	.0816	.47793	.51881
#1	.99910	1.0220	48.960	.97886	.97027	26.78	1.0391	1.0249
#2	1.0023	1.0273	48.618	.97863	.96868	26.74	1.0461	1.0175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/15/2021 23:04:22 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.128	1.0097	.98131	.99635	.97816	1.0017	1.0592
Stddev	.055	.0007	.00531	.00165	.00246	.0038	.0098
%RSD	.54752	.07290	.54071	.16572	.25196	.38323	.92506
#1	10.089	1.0092	.98506	.99519	.97990	.99894	1.0523
#2	10.167	1.0102	.97755	.99752	.97641	1.0044	1.0661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3523.5	2422.8	68238.	3509.5
Stddev	5.0	5.8	27.	8.8
%RSD	.14168	.23973	.04007	.25216
#1	3527.0	2426.9	68258.	3503.2
#2	3519.9	2418.7	68219.	3515.8

Sample Name: CCB-6810114 Acquired: 12/15/2021 23:08:03 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00844**	**.00034**	**.00019**	**-.00004**	**.00002**	**-.00243**
Stddev	.00016	.01156	.00171	.00047	.00001	.00008	.00096
%RSD	198.33	136.96	506.88	243.66	27.114	333.44	39.714
#1	-.00020	.01661	-.00087	.00052	-.00005	.00008	-.00311
#2	.00003	.00027	.00155	-.00014	-.00003	-.00003	-.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.0223**	**-.00002**	**-.00021**	**.00004**	**.00143**	**-.00404**
Stddev	.00007	.0238	.00008	.00031	.00028	.00463	.00182
%RSD	267.93	106.6	448.45	146.90	674.04	323.39	44.971
#1	.00007	-.0055	.00004	.00001	-.00016	-.00184	-.00532
#2	-.00002	-.0392	-.00007	-.00043	.00024	.00471	-.00275
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00149**	**.00116**	**-.00002**	F **-.01537**	**.00532**	**-.00005**	**-.00099**
Stddev	.00020	.00071	.00001	.00103	.00293	.00026	.00003
%RSD	13.484	61.132	51.570	6.6834	55.142	494.48	3.4328
#1	-.00163	.00166	-.00002	-.01464	.00324	.00013	-.00102
#2	-.00135	.00066	-.00001	-.01610	.00739	-.00024	-.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.01000			
Low Limit				-.01000			

Sample Name: CCB-6810114 Acquired: 12/15/2021 23:08:03 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074	.00049	.00349	.01360	.00034	.00004	-.00034
Stddev	.0007	.00062	.00101	.01402	.00009	.00003	.00058
%RSD	9.203	126.92	28.991	103.12	26.551	87.152	171.61
#1	.0070	.00093	.00277	.00368	.00028	.00001	.00007
#2	.0079	.00005	.00420	.02351	.00040	.00006	-.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.00029	.00025	-.00057
Stddev	.00111	.00015	.00072
%RSD	381.34	60.210	126.29
#1	.00049	.00036	-.00107
#2	-.00107	.00015	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4124.2	2525.7	73358.	3518.7
Stddev	.9	.9	137.	10.5
%RSD	.02264	.03568	.18722	.29910
#1	4123.5	2525.1	73260.	3526.2
#2	4124.9	2526.4	73455.	3511.3

Sample Name: CCVL-6811103 Acquired: 12/15/2021 23:11:59 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00554**	**.18796**	**.01350**	**.01993**	**.00205**	**.00204**	**.50370**
Stddev	.00020	.01276	.00042	.00006	.00002	.00009	.00235
%RSD	3.6980	6.7881	3.1149	.30223	.73232	4.6359	.46666
#1	.00540	.17894	.01380	.01997	.00204	.00210	.50536
#2	.00569	.19698	.01320	.01989	.00206	.00197	.50204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**-.0253**	**.00372**	**.00362**	**.00970**	**.04804**	**.45695**
Stddev	.00003	.0152	.00000	.00023	.00009	.00321	.03079
%RSD	1.2316	59.87	.06477	6.2811	.87746	6.6834	6.7372
#1	.00211	-.0360	.00372	.00378	.00976	.04577	.43518
#2	.00215	-.0146	.00371	.00346	.00964	.05031	.47872
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02740**	**.19780**	**.00304**	F **-.01096**	**.95128**	**.00925**	**.00927**
Stddev	.00001	.00409	.00003	.00012	.00697	.00009	.00106
%RSD	.03592	2.0658	.87951	1.0567	.73312	.98948	11.421
#1	.02740	.20069	.00303	-.01088	.94635	.00931	.00853
#2	.02741	.19491	.00306	-.01104	.95621	.00918	.01002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6811103 Acquired: 12/15/2021 23:11:59 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2005	.02197	.02376	.47767	.00938	.00494	.00423
Stddev	.0039	.00170	.00125	.00704	.00007	.00006	.00002
%RSD	1.927	7.7183	5.2736	1.4737	.72875	1.2663	.45125
#1	.1977	.02077	.02464	.47269	.00943	.00498	.00421
#2	.2032	.02317	.02287	.48265	.00934	.00489	.00424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.01943	.00525	.00942
Stddev	.00029	.00015	.00024
%RSD	1.4927	2.9519	2.5188
#1	.01964	.00536	.00959
#2	.01922	.00514	.00925
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4110.2	2544.5	73519.	3579.0
Stddev	3.4	4.3	95.	6.3
%RSD	.08308	.16981	.12861	.17602
#1	4107.8	2541.4	73585.	3583.5
#2	4112.6	2547.6	73452.	3574.6

Sample Name: 180-130889-E-1-A Acquired: 12/15/2021 23:15:53 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.06577**	**.00431**	**.05608**	**.06604**	**.00008**
Stddev	.00019	.00176	.00158	.00042	.00010	.00004
%RSD	49.843	2.6721	36.546	.75032	.14884	47.973
#1	-.00024	.06701	.00543	.05578	.06611	.00005
#2	-.00051	.06453	.00320	.05637	.06597	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**57.907**	**.00032**	**-.0162**	**.00332**	**.00002**	**.00242**
Stddev	.048	.00001	.0191	.00003	.00011	.00012
%RSD	.08343	2.5927	117.8	1.0148	569.44	5.1026
#1	57.873	.00032	-.0027	.00330	-.00006	.00251
#2	57.941	.00031	-.0297	.00335	.00009	.00233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 180-130889-E-1-A Acquired: 12/15/2021 23:15:53 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.3878**	**4.5977**	**.02004**	**27.208**	**2.2600**	F **-.02267**
Stddev	.0504	.0004	.00112	.004	.0022	.00017
%RSD	.60104	.00941	5.6093	.01458	.09659	.75449
#1	8.3522	4.5974	.01925	27.211	2.2615	-.02279
#2	8.4235	4.5980	.02084	27.205	2.2584	-.02255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**138.34**	**.00317**	**.00133**	**53.94**	**.00033**	**-.00448**
Stddev	.04	.00001	.00042	.07	.00113	.00160
%RSD	.03182	.22061	31.671	.1312	338.40	35.802
#1	138.37	.00317	.00104	53.99	.00114	-.00561
#2	138.31	.00318	.00163	53.89	-.00047	-.00334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 180-130889-E-1-A Acquired: 12/15/2021 23:15:53 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.2177**	**-.00016**	**.65519**	**.00193**	**-.00016**	**.00056**
Stddev	.0275	.00026	.00023	.00015	.00042	.00027
%RSD	.65245	165.31	.03581	7.7422	264.55	47.536
#1	4.1982	.00003	.65536	.00203	.00014	.00037
#2	4.2371	-.00034	.65502	.00182	-.00046	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00944**
Stddev	.00025
%RSD	2.6319
#1	.00927
#2	.00962
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 180-130889-E-1-A Acquired: 12/15/2021 23:15:53 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3534.6	2361.7	67237.	3502.7
Stddev	1.9	.2	74.	.3
%RSD	.05479	.00737	.11006	.00877
#1	3536.0	2361.6	67289.	3502.5
#2	3533.3	2361.8	67184.	3502.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.775%	88.468%	91.634%	97.891%
Range				

Sample Name: 180-130889-E-1-ASD@5 Acquired: 12/15/2021 23:19:48 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**.02827**	**-.00058**	**.00958**	**.01314**	**.00000**
Stddev	.00029	.00031	.00201	.00001	.00000	.00004
%RSD	31.642	1.1106	348.76	.10523	.01568	997.04
#1	-.00072	.02804	.00085	.00957	.01314	.00003
#2	-.00114	.02849	-.00200	.00959	.01314	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.636**	**.00001**	**-.0344**	**.00077**	**-.00044**	**.00070**
Stddev	.016	.00001	.0054	.00009	.00006	.00018
%RSD	.13775	101.97	15.69	11.098	14.184	26.149
#1	11.647	.00000	-.0383	.00071	-.00049	.00057
#2	11.624	.00002	-.0306	.00083	-.00040	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 180-130889-E-1-ASD@5 Acquired: 12/15/2021 23:19:48 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.6686	.84098	.00291	5.3968	.45173	F -.02339
Stddev	.0116	.01700	.00017	.0103	.00070	.00005
%RSD	.69752	2.0214	5.9990	.19104	.15552	.20276
#1	1.6768	.85300	.00279	5.4041	.45223	-.02336
#2	1.6604	.82896	.00304	5.3895	.45123	-.02343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.301	.00064	-.00012	10.21	.00117	-.00224
Stddev	.136	.00007	.00057	.02	.00222	.00224
%RSD	.51816	10.335	489.61	.1557	190.40	99.983
#1	26.397	.00069	.00029	10.22	.00274	-.00066
#2	26.205	.00059	-.00052	10.20	-.00040	-.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 180-130889-E-1-ASD@5 Acquired: 12/15/2021 23:19:48 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.84047**	**-.00019**	**.12951**	**-.00039**	**-.00049**	**.00034**
Stddev	.00647	.00025	.00085	.00000	.00111	.00025
%RSD	.77037	131.65	.65580	.96113	227.37	73.739
#1	.83589	-.00001	.13011	-.00039	.00030	.00051
#2	.84505	-.00036	.12891	-.00039	-.00127	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00086**
Stddev	.00011
%RSD	13.018
#1	.00094
#2	.00078
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 180-130889-E-1-ASD@5 Acquired: 12/15/2021 23:19:48 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3866.1	2472.3	71136.	3533.4
Stddev	3.6	1.1	214.	3.2
%RSD	.09398	.04495	.30140	.09003
#1	3868.7	2473.1	70984.	3535.6
#2	3863.5	2471.5	71287.	3531.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.819%	92.613%	96.948%	98.748%
Range				

Sample Name: 180-130889-E-1-APDS Acquired: 12/15/2021 23:23:40 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05139	10.168	.22464	.27632	.27539	.21252
Stddev	.00010	.055	.00027	.00009	.00006	.00060
%RSD	.18587	.54340	.12097	.03124	.02066	.28362
#1	.05132	10.207	.22484	.27638	.27535	.21294
#2	.05146	10.129	.22445	.27626	.27543	.21209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	66.254	.22099	-.0247	.20987	.20441	.20556
Stddev	.093	.00008	.0151	.00019	.00014	.00031
%RSD	.14086	.03405	61.28	.08879	.06792	.14979
#1	66.320	.22093	-.0140	.21000	.20451	.20534
#2	66.188	.22104	-.0354	.20973	.20431	.20578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 180-130889-E-1-APDS Acquired: 12/15/2021 23:23:40 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.264**	**14.653**	**.21983**	**36.921**	**2.3911**	**.20112**
Stddev	.019	.079	.00053	.039	.0014	.00011
%RSD	.10533	.54132	.24095	.10628	.06022	.05626
#1	18.250	14.709	.22020	36.949	2.3921	.20104
#2	18.277	14.597	.21945	36.893	2.3901	.20120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**144.19**	**.20409**	**.20465**	**63.61**	**.23371**	**.20546**
Stddev	.63	.00004	.00142	.04	.00061	.00384
%RSD	.43906	.01721	.69183	.0650	.26256	1.8677
#1	144.63	.20411	.20365	63.58	.23327	.20274
#2	143.74	.20406	.20565	63.64	.23414	.20817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 180-130889-E-1-APDS Acquired: 12/15/2021 23:23:40 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.776	.20818	.83473	.21002	.20364	.20664
Stddev	.003	.00119	.00318	.00047	.00007	.00099
%RSD	.02174	.57184	.38152	.22209	.03258	.47821
#1	13.774	.20902	.83698	.20969	.20369	.20594
#2	13.779	.20734	.83248	.21035	.20359	.20734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.22492
Stddev	.00020
%RSD	.09047
#1	.22506
#2	.22477
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 180-130889-E-1-APDS Acquired: 12/15/2021 23:23:40 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3468.1	2340.1	67350.	3504.9
Stddev	1.6	3.2	56.	3.9
%RSD	.04724	.13506	.08360	.11239
#1	3469.3	2342.3	67390.	3502.1
#2	3467.0	2337.8	67310.	3507.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.161%	87.659%	91.789%	97.952%
Range				

Sample Name: 180-130889-E-1-B MS Acquired: 12/15/2021 23:27:27 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05018**	**10.053**	**.22053**	**.27306**	**.27045**	**.20677**
Stddev	.00002	.014	.00006	.00005	.00061	.00015
%RSD	.03781	.14004	.02915	.01661	.22377	.07168
#1	.05019	10.043	.22057	.27310	.27088	.20688
#2	.05017	10.063	.22048	.27303	.27002	.20667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**67.796**	**.21425**	F **-.0581**	**.20328**	**.20007**	**.19911**
Stddev	.086	.00053	.0078	.00033	.00006	.00002
%RSD	.12664	.24506	13.49	.16122	.02768	.01177
#1	67.736	.21388	-.0526	.20305	.20011	.19910
#2	67.857	.21462	-.0637	.20351	.20003	.19913
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			1.500			
Low Limit			-.0500			

Sample Name: 180-130889-E-1-B MS Acquired: 12/15/2021 23:27:27 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.205**	**14.625**	**.21686**	**37.340**	**2.4421**	**.19551**
Stddev	.006	.017	.00018	.013	.0023	.00082
%RSD	.03422	.11469	.08077	.03468	.09412	.41817
#1	18.201	14.637	.21698	37.330	2.4438	.19494
#2	18.209	14.613	.21674	37.349	2.4405	.19609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**148.50**	**.19801**	**.19717**	**64.93**	**.22512**	**.20303**
Stddev	.03	.00034	.00160	.04	.00198	.00101
%RSD	.01788	.16995	.81195	.0658	.87747	.49782
#1	148.52	.19825	.19604	64.90	.22373	.20375
#2	148.48	.19777	.19831	64.96	.22652	.20232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 180-130889-E-1-B MS Acquired: 12/15/2021 23:27:27 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.924**	**.19896**	**.85085**	**.20222**	**.19648**	**.19913**
Stddev	.003	.00032	.00071	.00052	.00199	.00034
%RSD	.02430	.16269	.08397	.25830	1.0144	.16995
#1	13.922	.19874	.85136	.20259	.19789	.19889
#2	13.927	.19919	.85035	.20185	.19507	.19937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21750**
Stddev	.00042
%RSD	.19283
#1	.21780
#2	.21720
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 180-130889-E-1-B MS Acquired: 12/15/2021 23:27:27 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3473.8	2346.6	67011.	3494.4
Stddev	4.5	5.1	70.	4.6
%RSD	.12925	.21736	.10477	.13056
#1	3477.0	2350.2	66961.	3491.2
#2	3470.7	2343.0	67061.	3497.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.300%	87.902%	91.327%	97.660%
Range				

Sample Name: 180-130889-E-1-C MSD Acquired: 12/15/2021 23:31:15 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05053	10.230	.21889	.27400	.27403	.20882
Stddev	.00026	.025	.00191	.00053	.00042	.00122
%RSD	.51207	.24449	.87352	.19214	.15282	.58572
#1	.05035	10.248	.22024	.27363	.27374	.20969
#2	.05071	10.212	.21754	.27437	.27433	.20796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	68.909	.21477	-.0295	.20449	.20199	.19954
Stddev	.252	.00044	.0155	.00038	.00033	.00088
%RSD	.36503	.20572	52.51	.18497	.16197	.44028
#1	69.086	.21446	-.0404	.20422	.20176	.20016
#2	68.731	.21509	-.0185	.20476	.20223	.19891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 180-130889-E-1-C MSD Acquired: 12/15/2021 23:31:15 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.356**	**14.772**	**.21865**	**37.801**	**2.4701**	**.19672**
Stddev	.051	.041	.00057	.021	.0009	.00014
%RSD	.27655	.27955	.26197	.05453	.03657	.07208
#1	18.391	14.801	.21825	37.786	2.4695	.19682
#2	18.320	14.743	.21906	37.815	2.4707	.19662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**151.17**	**.19911**	**.19712**	**65.39**	**.22690**	**.20269**
Stddev	.79	.00021	.00248	.09	.00102	.00222
%RSD	.52113	.10713	1.2606	.1372	.45003	1.0929
#1	151.73	.19926	.19536	65.32	.22762	.20112
#2	150.61	.19896	.19888	65.45	.22618	.20425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 180-130889-E-1-C MSD Acquired: 12/15/2021 23:31:15 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.050**	**.20001**	**.86712**	**.20395**	**.19792**	**.20162**
Stddev	.078	.00153	.00262	.00021	.00098	.00021
%RSD	.55812	.76355	.30215	.10219	.49439	.10212
#1	14.105	.19893	.86897	.20380	.19723	.20177
#2	13.995	.20109	.86526	.20410	.19861	.20148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.22126**
Stddev	.00063
%RSD	.28548
#1	.22171
#2	.22081
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 180-130889-E-1-C MSD Acquired: 12/15/2021 23:31:15 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3477.8	2357.1	66977.	3457.7
Stddev	1.2	1.8	40.	8.6
%RSD	.03568	.07713	.05914	.24837
#1	3476.9	2358.4	67005.	3451.6
#2	3478.7	2355.8	66949.	3463.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.396%	88.297%	91.281%	96.633%
Range				

Sample Name: 180-130889-E-2-A Acquired: 12/15/2021 23:35:02 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.04019**	**.00015**	**-.00124**	**.00004**	**.00002**
Stddev	.00017	.01143	.00050	.00007	.00001	.00004
%RSD	67.944	28.443	329.21	5.4795	18.018	155.61
#1	-.00013	.04827	-.00020	-.00119	.00004	-.00000
#2	-.00037	.03210	.00051	-.00129	.00003	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04323**	**.00011**	**-.0234**	**.00003**	**.00010**	**.00022**
Stddev	.00168	.00000	.0146	.00001	.00005	.00008
%RSD	3.8975	2.8341	62.66	26.995	50.601	37.858
#1	.04442	.00011	-.0130	.00002	.00013	.00028
#2	.04204	.00011	-.0337	.00003	.00006	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 180-130889-E-2-A Acquired: 12/15/2021 23:35:02 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00077	-.05926	-.00032	.00985	.00018	F -.02223
Stddev	.00122	.01792	.00106	.00164	.00001	.00017
%RSD	158.27	30.242	330.74	16.644	6.8360	.76921
#1	.00163	-.04659	.00043	.00869	.00019	-.02235
#2	-.00009	-.07194	-.00107	.01101	.00017	-.02211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11229	-.00012	.00014	.0214	.00037	-.00047
Stddev	.00022	.00010	.00044	.0001	.00010	.00323
%RSD	.19677	87.438	315.72	.2788	27.665	690.51
#1	.11245	-.00004	-.00017	.0215	.00030	-.00275
#2	.11213	-.00019	.00045	.0214	.00044	.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 180-130889-E-2-A Acquired: 12/15/2021 23:35:02 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11841**	**-.00030**	**.00010**	**-.00067**	**-.00117**	**.00040**
Stddev	.00407	.00032	.00001	.00004	.00004	.00002
%RSD	3.4409	108.33	10.449	6.5250	3.7059	4.5710
#1	.11553	-.00052	.00011	-.00070	-.00114	.00042
#2	.12129	-.00007	.00010	-.00064	-.00120	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00018**
Stddev	.00002
%RSD	11.771
#1	.00020
#2	.00017
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 180-130889-E-2-A Acquired: 12/15/2021 23:35:02 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4114.6	2532.6	73699.	3575.1
Stddev	11.9	7.1	256.	1.7
%RSD	.29038	.27908	.34668	.04751
#1	4106.2	2527.6	73518.	3576.3
#2	4123.1	2537.6	73879.	3573.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.850%	94.872%	100.44%	99.914%
Range				

Sample Name: 480-193416-C-1-A Acquired: 12/15/2021 23:38:57 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**9.3782**	**-.00121**	**.09962**	**.06393**	**.00052**
Stddev	.00001	.0038	.00202	.00032	.00003	.00003
%RSD	2.5542	.04020	167.17	.32355	.04976	5.8256
#1	-.00044	9.3755	.00022	.09985	.06396	.00055
#2	-.00042	9.3808	-.00263	.09939	.06391	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**53.110**	**.00024**	**-.0123**	**.00284**	**.00899**	**.00687**
Stddev	.171	.00011	.0153	.00009	.00005	.00021
%RSD	.32282	47.025	124.2	3.2601	.54942	3.0310
#1	53.231	.00016	-.0015	.00291	.00902	.00672
#2	52.988	.00032	-.0232	.00278	.00895	.00701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193416-C-1-A Acquired: 12/15/2021 23:38:57 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.7582**	**8.0383**	**.00922**	**6.8833**	**.19143**	F **-.02260**
Stddev	.0176	.0092	.00019	.0259	.00063	.00024
%RSD	.20069	.11414	2.0335	.37635	.32790	1.0406
#1	8.7707	8.0318	.00935	6.9016	.19188	-.02243
#2	8.7458	8.0448	.00909	6.8649	.19099	-.02276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.964**	**.00801**	**.00352**	**14.85**	**-.00063**	**-.00165**
Stddev	.076	.00008	.00094	.00	.00019	.00445
%RSD	.50546	.94351	26.847	.0056	31.011	270.68
#1	15.017	.00806	.00285	14.85	-.00049	.00150
#2	14.910	.00796	.00418	14.85	-.00076	-.00480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193416-C-1-A Acquired: 12/15/2021 23:38:57 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.352**	**.00036**	**.09901**	**.08203**	**.00020**	**.01328**
Stddev	.079	.00011	.00033	.00080	.00045	.00022
%RSD	.45341	31.436	.33246	.97156	228.87	1.6690
#1	17.407	.00044	.09925	.08259	-.00012	.01343
#2	17.296	.00028	.09878	.08146	.00051	.01312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01938**
Stddev	.00014
%RSD	.72067
#1	.01928
#2	.01948
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193416-C-1-A Acquired: 12/15/2021 23:38:57 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3764.5	2469.2	71013.	3587.0
Stddev	3.1	2.2	128.	9.1
%RSD	.08330	.08960	.18041	.25366
#1	3766.7	2470.8	70922.	3580.6
#2	3762.3	2467.6	71103.	3593.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.354%	92.495%	96.781%	100.25%
Range				

Sample Name: 480-193419-B-2-A Acquired: 12/15/2021 23:42:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**3.4736**	**-.00066**	**.17214**	**.03261**	**.00025**
Stddev	.00011	.0266	.00248	.00034	.00012	.00007
%RSD	28.373	.76469	372.56	.20026	.38020	28.417
#1	-.00046	3.4924	-.00242	.17189	.03270	.00020
#2	-.00030	3.4548	.00109	.17238	.03253	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**81.755**	**.00012**	**-.0122**	**.00075**	**.00280**	**.00218**
Stddev	.097	.00002	.0074	.00009	.00004	.00004
%RSD	.11921	15.957	60.32	12.409	1.5943	1.6744
#1	81.824	.00011	-.0175	.00068	.00276	.00215
#2	81.686	.00014	-.0070	.00082	.00283	.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193419-B-2-A Acquired: 12/15/2021 23:42:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.6469**	**6.2004**	**.00325**	**7.1642**	**.18420**	F **-.02239**
Stddev	.0042	.0072	.00003	.0111	.00029	.00007
%RSD	.15832	.11607	.79007	.15532	.15663	.29295
#1	2.6499	6.1953	.00323	7.1720	.18440	-.02244
#2	2.6439	6.2055	.00327	7.1563	.18400	-.02235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0303**	**.00195**	**.00198**	**39.42**	**-.00101**	**-.00235**
Stddev	.0026	.00016	.00063	.06	.00156	.00374
%RSD	.25566	7.9534	31.749	.1517	154.74	159.26
#1	1.0284	.00206	.00242	39.46	.00010	.00030
#2	1.0321	.00184	.00153	39.38	-.00212	-.00500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193419-B-2-A Acquired: 12/15/2021 23:42:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.5057**	**-.00009**	**.12195**	**.06467**	**-.00104**	**.00506**
Stddev	.0013	.00012	.00023	.00126	.00015	.00029
%RSD	.01677	125.26	.18677	1.9449	14.087	5.7142
#1	7.5066	-.00001	.12211	.06378	-.00115	.00527
#2	7.5048	-.00018	.12179	.06556	-.00094	.00486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00883**
Stddev	.00024
%RSD	2.6757
#1	.00899
#2	.00866
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193419-B-2-A Acquired: 12/15/2021 23:42:46 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3777.3	2442.9	70311.	3577.3
Stddev	4.6	4.4	261.	2.2
%RSD	.12273	.17810	.37083	.06190
#1	3780.5	2445.9	70126.	3575.7
#2	3774.0	2439.8	70495.	3578.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.662%	91.509%	95.824%	99.976%
Range				

Sample Name: 480-193410-E-1-A Acquired: 12/15/2021 23:46:36 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.09073**	**.01078**	**1.8103**	**.06917**	**.00002**
Stddev	.00008	.01087	.00337	.0022	.00015	.00003
%RSD	20.893	11.977	31.261	.12312	.22090	134.04
#1	-.00033	.08305	.01316	1.8118	.06906	.00005
#2	-.00045	.09842	.00839	1.8087	.06927	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**86.478**	**.00039**	**-.0448**	**.02258**	**.01183**	**.01787**
Stddev	.161	.00022	.0253	.00004	.00018	.00045
%RSD	.18609	56.354	56.56	.16736	1.5081	2.4986
#1	86.592	.00024	-.0269	.02260	.01170	.01818
#2	86.364	.00055	-.0627	.02255	.01195	.01755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193410-E-1-A Acquired: 12/15/2021 23:46:36 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95499**	**73.664**	**.00630**	**31.418**	**.93401**	F **-.01966**
Stddev	.00530	.317	.00089	.034	.00100	.00011
%RSD	.55458	.43026	14.058	.10773	.10694	.54677
#1	.95873	73.888	.00567	31.394	.93330	-.01959
#2	.95124	73.440	.00692	31.442	.93471	-.01974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**345.45**	**.06834**	**.00198**	**51.07**	**.00165**	**-.00838**
Stddev	.93	.00013	.00095	.11	.00127	.00136
%RSD	.26914	.18916	47.801	.2165	76.699	16.179
#1	346.11	.06824	.00266	51.15	.00254	-.00934
#2	344.79	.06843	.00131	50.99	.00075	-.00742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193410-E-1-A Acquired: 12/15/2021 23:46:36 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.3330	.00310	.24884	.00482	.00023	.00211
Stddev	.0171	.00014	.00090	.00008	.00128	.00021
%RSD	.32128	4.4330	.36022	1.7543	562.01	9.9784
#1	5.3209	.00300	.24947	.00476	.00114	.00226
#2	5.3451	.00319	.24820	.00488	-.00068	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01672
Stddev	.00084
%RSD	5.0031
#1	.01731
#2	.01613
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193410-E-1-A Acquired: 12/15/2021 23:46:36 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3298.5	2281.2	64198.	3438.7
Stddev	.3	3.7	54.	9.9
%RSD	.00782	.16369	.08473	.28792
#1	3298.3	2278.5	64236.	3431.7
#2	3298.7	2283.8	64159.	3445.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.044%	85.453%	87.493%	96.104%
Range				

Sample Name: CCV-6817081 Acquired: 12/15/2021 23:50:30 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0112	50.169	1.0031	1.0670	1.0111	.99285	50.618	1.0364
Stddev	.0021	.076	.0000	.0021	.0005	.00278	.101	.0001
%RSD	.20250	.15051	.00042	.19634	.04859	.28018	.19860	.00785
#1	1.0127	50.222	1.0031	1.0684	1.0115	.99482	50.689	1.0365
#2	1.0098	50.116	1.0031	1.0655	1.0108	.99089	50.547	1.0364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.003	1.0045	1.0211	.98901	49.442	49.508	.99033	50.422
Stddev	.007	.0000	.0007	.00313	.732	.124	.00246	.011
%RSD	.7134	.00115	.07262	.31673	1.4803	.24965	.24861	.02199
#1	1.008	1.0045	1.0216	.99123	49.959	49.595	.99207	50.414
#2	.9976	1.0045	1.0206	.98680	48.924	49.421	.98859	50.429
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0029	1.0183	49.276	.98501	.98036	26.35	1.0298	1.0113
Stddev	.0000	.0033	.059	.00031	.00199	.01	.0013	.0009
%RSD	.00117	.31991	.11982	.03108	.20257	.0391	.12961	.08962
#1	1.0028	1.0160	49.318	.98523	.98176	26.35	1.0307	1.0107
#2	1.0029	1.0206	49.234	.98479	.97895	26.36	1.0288	1.0119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/15/2021 23:50:30 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.287**	**1.0089**	**.98897**	**.99910**	**.98543**	**1.0059**	**1.0630**
Stddev	.006	.0026	.00157	.00207	.00287	.0007	.0022
%RSD	.06139	.25810	.15887	.20749	.29145	.06812	.20993
#1	10.282	1.0070	.99008	.99764	.98747	1.0064	1.0646
#2	10.291	1.0107	.98786	1.0006	.98340	1.0054	1.0615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3528.5**	**2449.7**	**68166.**	**3468.3**
Stddev	3.7	2.3	196.	2.0
%RSD	.10413	.09504	.28762	.05713
#1	3525.9	2448.1	68027.	3469.7
#2	3531.1	2451.4	68305.	3466.9

Sample Name: CCB-6810114 Acquired: 12/15/2021 23:54:11 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.01000**	**.00052**	**-.00087**	**-.00005**	**.00002**	**-.00171**
Stddev	.00000	.00566	.00174	.00029	.00000	.00008	.00211
%RSD	1.1317	56.549	335.06	33.263	5.7230	333.29	123.71
#1	-.00017	.00600	.00175	-.00107	-.00005	-.00003	-.00320
#2	-.00017	.01400	-.00071	-.00066	-.00005	.00008	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.0294**	**.00001**	**-.00040**	**-.00013**	**.00198**	**-.03867**
Stddev	.00002	.0147	.00001	.00015	.00001	.00633	.00236
%RSD	33.195	50.21	105.56	36.253	7.6879	320.24	6.1009
#1	.00005	-.0189	.00001	-.00030	-.00013	.00645	-.04034
#2	.00008	-.0398	.00000	-.00051	-.00012	-.00250	-.03700
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00111**	**.00106**	**.00001**	F **-.01553**	**.01468**	**.00006**	**.00096**
Stddev	.00050	.00058	.00001	.00108	.00520	.00013	.00042
%RSD	45.416	54.568	59.348	6.9809	35.455	211.63	43.579
#1	-.00146	.00065	.00001	-.01476	.01836	-.00003	.00126
#2	-.00075	.00146	.00001	-.01630	.01100	.00015	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.01000			
Low Limit				-.01000			

Sample Name: CCB-6810114 Acquired: 12/15/2021 23:54:11 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090	.00109	.00341	.00173	.00048	.00003	-.00048
Stddev	.0008	.00043	.00019	.00566	.00035	.00007	.00000
%RSD	9.200	39.619	5.4425	326.31	72.363	196.53	.42563
#1	.0084	.00140	.00328	.00573	.00024	-.00001	-.00048
#2	.0095	.00079	.00354	-.00227	.00073	.00008	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.00007	.00031	-.00059
Stddev	.00038	.00015	.00008
%RSD	535.27	47.364	12.995
#1	-.00034	.00041	-.00064
#2	.00020	.00021	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4116.9	2536.5	73295.	3502.5
Stddev	.4	1.1	28.	20.5
%RSD	.01018	.04468	.03783	.58415
#1	4116.6	2535.7	73276.	3488.0
#2	4117.2	2537.3	73315.	3516.9

Sample Name: CCVL-6811103 Acquired: 12/15/2021 23:58:07 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00516**	**.20313**	**.01461**	**.01912**	**.00207**	**.00211**	**.50517**
Stddev	.00025	.02646	.00172	.00045	.00001	.00009	.00833
%RSD	4.7648	13.028	11.747	2.3298	.39539	4.2795	1.6483
#1	.00534	.18441	.01582	.01881	.00206	.00217	.49928
#2	.00499	.22184	.01340	.01944	.00207	.00205	.51106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00216**	**-.0243**	**.00375**	**.00375**	**.00972**	**.04590**	**.38956**
Stddev	.00016	.0123	.00008	.00013	.00012	.00118	.00480
%RSD	7.4491	50.52	2.0792	3.3708	1.2230	2.5613	1.2309
#1	.00205	-.0156	.00370	.00384	.00964	.04673	.38617
#2	.00228	-.0330	.00381	.00366	.00981	.04506	.39295
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02682**	**.19515**	**.00303**	F **-.01088**	**.97035**	**.00928**	**.00966**
Stddev	.00024	.00015	.00001	.00015	.00644	.00014	.00106
%RSD	.89091	.07589	.49304	1.3623	.66370	1.5393	10.933
#1	.02665	.19525	.00302	-.01099	.96580	.00918	.00891
#2	.02699	.19504	.00304	-.01078	.97490	.00938	.01041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6811103 Acquired: 12/15/2021 23:58:07 Type: QC
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2026	.02028	.02117	.48442	.00921	.00492	.00403
Stddev	.0055	.00056	.00288	.00601	.00015	.00004	.00001
%RSD	2.722	2.7660	13.586	1.2400	1.6360	.79308	.30544
#1	.1987	.01989	.02321	.48017	.00910	.00489	.00402
#2	.2065	.02068	.01914	.48867	.00931	.00495	.00404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.01933	.00505	.00962
Stddev	.00075	.00007	.00013
%RSD	3.8820	1.3427	1.3176
#1	.01880	.00510	.00971
#2	.01986	.00500	.00953
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4098.4	2537.3	73312.	3533.2
Stddev	.9	1.5	215.	22.0
%RSD	.02300	.05841	.29341	.62218
#1	4099.1	2538.3	73160.	3548.8
#2	4097.7	2536.2	73464.	3517.7

Sample Name: 480-193410-E-2-A Acquired: 12/16/2021 0:02:02 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.03568**	**.00191**	**2.7896**	**.10759**	**.00006**
Stddev	.00031	.01759	.00376	.0021	.00060	.00007
%RSD	173.28	49.294	196.88	.07571	.55760	124.32
#1	-.00040	.02324	-.00075	2.7881	.10801	.00001
#2	.00004	.04811	.00457	2.7911	.10717	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**155.12**	**.00044**	**-.0110**	**.00723**	**.00811**	**.01570**
Stddev	.31	.00007	.0154	.00015	.00012	.00037
%RSD	.20015	15.056	139.0	2.0460	1.5062	2.3694
#1	154.90	.00039	-.0219	.00713	.00820	.01544
#2	155.34	.00049	-.0002	.00734	.00802	.01596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193410-E-2-A Acquired: 12/16/2021 0:02:02 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22383	50.257	.00471	50.423	.10904	F -.02061
Stddev	.00200	.070	.00047	.065	.00045	.00017
%RSD	.89164	.13910	10.085	.12850	.41174	.81443
#1	.22242	50.208	.00504	50.469	.10935	-.02073
#2	.22524	50.307	.00437	50.377	.10872	-.02049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	196.22	.03164	.00083	71.88	.00103	-.00824
Stddev	.29	.00014	.00050	.03	.00048	.00170
%RSD	.15020	.45257	60.259	.0486	46.311	20.665
#1	196.43	.03153	.00118	71.85	.00069	-.00945
#2	196.01	.03174	.00048	71.90	.00137	-.00704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193410-E-2-A Acquired: 12/16/2021 0:02:02 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.1319	.00076	1.5706	.00192	-.00013	.00052
Stddev	.0150	.00011	.0031	.00043	.00118	.00016
%RSD	.21103	14.002	.19493	22.563	880.29	30.783
#1	7.1212	.00068	1.5728	.00161	-.00097	.00041
#2	7.1425	.00083	1.5685	.00222	.00070	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01361
Stddev	.00005
%RSD	.33968
#1	.01358
#2	.01364
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193410-E-2-A Acquired: 12/16/2021 0:02:02 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3349.0	2285.5	65171.	3462.9
Stddev	1.9	.3	150.	5.7
%RSD	.05735	.01275	.23059	.16385
#1	3347.7	2285.7	65064.	3466.9
#2	3350.4	2285.3	65277.	3458.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.271%	85.615%	88.819%	96.779%
Range				

Sample Name: 480-193410-E-3-A Acquired: 12/16/2021 0:05:57 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.15456**	**.00399**	**1.1243**	**.03782**	**.00005**
Stddev	.00004	.02386	.00048	.0025	.00008	.00003
%RSD	15.833	15.439	11.980	.22520	.22439	61.762
#1	-.00021	.17143	.00365	1.1225	.03776	.00007
#2	-.00027	.13769	.00432	1.1261	.03788	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**88.591**	**.00047**	**-.0060**	**.01714**	**.01095**	**.02277**
Stddev	.014	.00000	.0232	.00008	.00004	.00030
%RSD	.01536	.15240	386.0	.46020	.38125	1.3127
#1	88.581	.00047	.0104	.01719	.01098	.02256
#2	88.600	.00047	-.0224	.01708	.01092	.02299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193410-E-3-A Acquired: 12/16/2021 0:05:57 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.60776**	**70.078**	**.01500**	**46.445**	**.95671**	F **-.02178**
Stddev	.00074	.008	.00026	.107	.00212	.00018
%RSD	.12203	.01174	1.7517	.23132	.22174	.82199
#1	.60723	70.072	.01519	46.369	.95521	-.02191
#2	.60828	70.083	.01482	46.521	.95821	-.02165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**290.80**	**.07232**	**.00013**	**88.05**	**.00200**	**-.01006**
Stddev	.17	.00020	.00089	.02	.00076	.00190
%RSD	.05854	.28304	677.75	.0261	37.680	18.867
#1	290.92	.07217	.00076	88.06	.00254	-.01141
#2	290.68	.07246	-.00050	88.03	.00147	-.00872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193410-E-3-A Acquired: 12/16/2021 0:05:57 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.6957	.00273	.25687	.00353	.00087	.00090
Stddev	.0107	.00042	.00063	.00007	.00041	.00000
%RSD	.28850	15.403	.24516	2.0993	47.111	.31648
#1	3.7032	.00303	.25731	.00348	.00058	.00090
#2	3.6881	.00244	.25642	.00358	.00116	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02531
Stddev	.00116
%RSD	4.5974
#1	.02449
#2	.02613
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193410-E-3-A Acquired: 12/16/2021 0:05:57 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3328.0	2295.1	64935.	3462.5
Stddev	4.0	2.6	253.	.7
%RSD	.12041	.11181	.39030	.01962
#1	3330.8	2296.9	65115.	3463.0
#2	3325.1	2293.2	64756.	3462.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.759%	85.972%	88.498%	96.768%
Range				

Sample Name: 480-193394-A-1-A Acquired: 12/16/2021 0:09:51 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.06938**	**.00843**	**.00629**	**.00025**	**.00003**
Stddev	.00029	.01240	.00037	.00050	.00001	.00001
%RSD	82.530	17.869	4.4004	7.9782	2.1031	43.570
#1	-.00014	.06061	.00817	.00665	.00024	.00004
#2	-.00055	.07815	.00869	.00594	.00025	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.54164**	**.00011**	**-.0227**	**.00009**	**.00052**	**.00006**
Stddev	.00105	.00001	.0068	.00008	.00003	.00017
%RSD	.19331	6.9182	30.01	85.426	6.6695	273.47
#1	.54238	.00012	-.0179	.00014	.00049	-.00006
#2	.54090	.00011	-.0275	.00004	.00054	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193394-A-1-A Acquired: 12/16/2021 0:09:51 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02517	.16661	-.00060	.05889	.00200	F -.02346
Stddev	.00272	.00797	.00086	.00247	.00001	.00002
%RSD	10.799	4.7865	142.78	4.1982	.50593	.08788
#1	.02324	.17225	.00001	.06064	.00199	-.02344
#2	.02709	.16097	-.00121	.05714	.00201	-.02347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.0708	.00127	-.00082	F 97.94	.00373	.01896
Stddev	.0126	.00013	.00035	.23	.00021	.00004
%RSD	.15618	10.120	42.436	.2313	5.5515	.19159
#1	8.0797	.00136	-.00107	98.10	.00388	.01898
#2	8.0619	.00118	-.00058	97.78	.00358	.01893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193394-A-1-A Acquired: 12/16/2021 0:09:51 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06677	.00226	.00115	.00062	-.00589	.00023
Stddev	.00760	.00061	.00002	.00066	.00141	.00010
%RSD	11.382	26.812	1.4926	105.21	23.892	42.100
#1	.06140	.00269	.00116	.00016	-.00490	.00016
#2	.07215	.00183	.00114	.00109	-.00689	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03540
Stddev	.00014
%RSD	.38257
#1	.03549
#2	.03530
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193394-A-1-A Acquired: 12/16/2021 0:09:51 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4100.6	2446.8	71645.	3557.2
Stddev	5.2	4.6	296.	8.3
%RSD	.12617	.18990	.41349	.23241
#1	4096.9	2443.5	71854.	3563.0
#2	4104.3	2450.1	71435.	3551.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.509%	91.656%	97.642%	99.414%
Range				

Sample Name: 480-193394-A-2-A Acquired: 12/16/2021 0:13:45 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.01062**	**.00917**	**.00520**	**.00021**	**-.00000**
Stddev	.00029	.02001	.00063	.00012	.00000	.00005
%RSD	285.88	188.51	6.8629	2.2825	1.3135	1332.0
#1	.00010	.02477	.00873	.00511	.00021	-.00004
#2	-.00030	-.00353	.00962	.00528	.00022	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12517**	**.00009**	**-.0082**	**.00012**	**.00057**	**.00040**
Stddev	.00033	.00010	.0369	.00003	.00031	.00015
%RSD	.26374	111.55	451.5	23.815	54.853	37.465
#1	.12541	.00002	.0179	.00014	.00079	.00030
#2	.12494	.00016	-.0343	.00010	.00035	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193394-A-2-A Acquired: 12/16/2021 0:13:45 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02066	.10827	-.00076	.03118	.00086	F -.02390
Stddev	.00105	.02133	.00010	.00024	.00000	.00004
%RSD	5.0904	19.696	13.749	.75741	.25636	.16616
#1	.02141	.12335	-.00083	.03102	.00086	-.02387
#2	.01992	.09319	-.00068	.03135	.00086	-.02393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.4435	.00105	-.00009	F 115.3	.00330	.01785
Stddev	.0474	.00012	.00072	.8	.00162	.00162
%RSD	.56122	11.932	799.27	.6874	49.174	9.0628
#1	8.4100	.00113	-.00060	114.7	.00445	.01671
#2	8.4770	.00096	.00042	115.8	.00216	.01900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193394-A-2-A Acquired: 12/16/2021 0:13:45 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01626	.00267	.00080	.00028	-.00647	.00019
Stddev	.00705	.00030	.00003	.00010	.00006	.00002
%RSD	43.375	11.390	3.4118	35.658	.87427	12.212
#1	.01127	.00289	.00078	.00021	-.00643	.00020
#2	.02124	.00246	.00082	.00035	-.00651	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00331
Stddev	.00021
%RSD	6.3450
#1	.00345
#2	.00316
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193394-A-2-A Acquired: 12/16/2021 0:13:45 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4100.8	2441.2	71213.	3517.0
Stddev	1.3	2.7	189.	12.0
%RSD	.03105	.11191	.26566	.34197
#1	4101.7	2443.1	71079.	3525.5
#2	4099.9	2439.2	71346.	3508.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.514%	91.446%	97.053%	98.292%
Range				

Sample Name: 480-193394-A-3-A Acquired: 12/16/2021 0:17:38 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00491**	**.00917**	**.00504**	**.00016**	**-.00000**
Stddev	.00014	.00500	.00073	.00057	.00000	.00000
%RSD	50.735	101.79	7.9544	11.389	1.6693	30.684
#1	-.00018	.00138	.00866	.00545	.00016	-.00000
#2	-.00037	.00845	.00969	.00463	.00016	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11432**	**.00004**	**-.0262**	**.00013**	**.00044**	**.00061**
Stddev	.00198	.00006	.0008	.00009	.00010	.00003
%RSD	1.7299	171.13	2.978	67.954	22.683	5.5736
#1	.11572	.00008	-.0256	.00007	.00051	.00064
#2	.11293	-.00001	-.0267	.00019	.00037	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193394-A-3-A Acquired: 12/16/2021 0:17:38 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01008	.11669	-.00058	.03104	.00089	F -.02375
Stddev	.00046	.01502	.00101	.00015	.00004	.00021
%RSD	4.5243	12.874	174.58	.47790	4.2407	.88084
#1	.00976	.12732	.00014	.03115	.00087	-.02361
#2	.01041	.10607	-.00130	.03094	.00092	-.02390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.1187	.00088	-.00064	F 95.79	.00345	.01628
Stddev	.0108	.00005	.00104	.28	.00058	.00233
%RSD	.13330	6.0112	162.40	.2897	16.819	14.302
#1	8.1263	.00091	.00009	95.60	.00304	.01464
#2	8.1110	.00084	-.00137	95.99	.00386	.01793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193394-A-3-A Acquired: 12/16/2021 0:17:38 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00515	.00257	.00071	.00001	-.00541	.00031
Stddev	.00925	.00003	.00006	.00016	.00097	.00019
%RSD	179.60	1.2374	8.4977	2783.8	17.839	62.786
#1	-.00139	.00260	.00067	-.00011	-.00610	.00045
#2	.01169	.00255	.00075	.00012	-.00473	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00235
Stddev	.00028
%RSD	11.866
#1	.00215
#2	.00255
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193394-A-3-A Acquired: 12/16/2021 0:17:38 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4104.7	2459.5	71772.	3536.0
Stddev	1.3	3.3	226.	14.5
%RSD	.03071	.13520	.31504	.41066
#1	4103.8	2461.9	71612.	3546.3
#2	4105.6	2457.2	71932.	3525.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.609%	92.134%	97.816%	98.822%
Range				

Sample Name: 480-193394-A-4-A Acquired: 12/16/2021 0:21:31 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.02238**	**.00885**	**.00478**	**.00017**	**.00005**
Stddev	.00006	.00204	.00009	.00030	.00001	.00002
%RSD	23.390	9.1327	.97348	6.2647	7.4829	39.784
#1	-.00031	.02383	.00891	.00457	.00016	.00003
#2	-.00022	.02094	.00879	.00499	.00018	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11667**	**.00002**	**-.0314**	**.00009**	**.00047**	**.00012**
Stddev	.00370	.00002	.0152	.00008	.00012	.00026
%RSD	3.1687	93.212	48.46	98.540	26.218	215.28
#1	.11928	.00004	-.0421	.00015	.00056	-.00006
#2	.11405	.00001	-.0206	.00003	.00038	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193394-A-4-A Acquired: 12/16/2021 0:21:31 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01281**	**.10189**	**-.00114**	**.02995**	**.00090**	F **-.02395**
Stddev	.00298	.01023	.00010	.00087	.00001	.00012
%RSD	23.258	10.040	8.5466	2.9080	.72387	.50657
#1	.01071	.09465	-.00121	.02934	.00091	-.02387
#2	.01492	.10912	-.00107	.03057	.00090	-.02404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						4.5000
Low Limit						-.01000

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.4548**	**.00100**	**-.00147**	F **94.60**	**.00300**	**.01613**
Stddev	.0301	.00014	.00050	.33	.00077	.00399
%RSD	.35590	13.648	34.216	.3516	25.697	24.736
#1	8.4761	.00090	-.00112	94.84	.00354	.01895
#2	8.4335	.00110	-.00183	94.37	.00245	.01331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193394-A-4-A Acquired: 12/16/2021 0:21:31 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00407	.00176	.00076	.00010	-.00598	.00009
Stddev	.00930	.00076	.00005	.00003	.00119	.00001
%RSD	228.26	43.080	6.4055	25.712	19.913	7.3236
#1	-.00250	.00122	.00080	.00008	-.00682	.00009
#2	.01065	.00229	.00073	.00012	-.00513	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00258
Stddev	.00001
%RSD	.55747
#1	.00259
#2	.00257
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193394-A-4-A Acquired: 12/16/2021 0:21:31 Type: Unk
Method: ICAP1 New Stds (v402) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4114.8	2457.5	71646.	3523.2
Stddev	.3	2.3	259.	.7
%RSD	.00609	.09548	.36083	.01974
#1	4114.6	2459.1	71828.	3522.7
#2	4115.0	2455.8	71463.	3523.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.853%	92.056%	97.643%	98.463%
Range				

Report Generated By Teledyne Leeman QuickTrace

Analyst: BufHG5

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\L20211215A.wszf

Creation Date: 12/15/2021 1:02:10 PM

Comment:

Results

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Single: icv		UNK	12/15/21 03:17:30 pm	0.00	42905	1.34			1.0000	N/A
Replicates	43253.2	43361.3	42911.1	42094.3						
Calibration Blank		STD	12/15/21 03:19:31 pm	0.00	47	86.49	-11.40		1.0000	N/A
Replicates	101.3	3.7	36.2	46.5						
Standard #1 (0.1 ug/L)		STD	12/15/21 03:20:49 pm	0.10	1594	0.67	-4.11		1.0000	N/A
Replicates	1606.1	1598.4	1592.6	1580.6						
Standard #2 (0.5 ug/L)		STD	12/15/21 03:22:08 pm	0.50	7962	1.63	37.39		1.0000	N/A
Replicates	8057.2	8044.1	7972.6	7775.9						
Standard #3 (2.0 ug/L)		STD	12/15/21 03:23:26 pm	2.00	30860	1.32	124.91		1.0000	N/A
Replicates	30975.2	31224.7	30965.7	30275.7						
Standard #4 (10. ug/L)		STD	12/15/21 03:24:46 pm	10.00	150070	1.24	389.74		1.0000	N/A
Replicates	150581.5	151782.0	150496.0	147419.2						
Standard #5 (20. ug/L)		STD	12/15/21 03:26:05 pm	20.00	281220	1.31	-517.57		1.0000	N/A
Replicates	283493.6	284044.5	281364.8	275976.3						

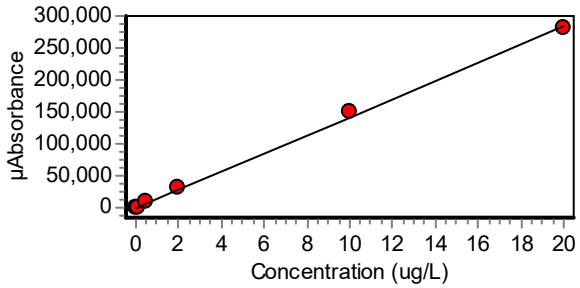
Calibration

Equation: Abs = 14423.689x + 211.288

R2: 0.99861

SEE: 4767.0640

Flags:



ICV		ICV	12/15/21 03:27:30 pm	2.98	43221	1.34			1.0000	99.40
Replicates	43446.7	43757.1	43264.6	42413.9						
ICB		ICB	12/15/21 03:28:48 pm	-0.02	-13	8.18			1.0000	N/A
Replicates	-7.8	1.6	-40.1	-6.9						
ICVL		CRDL	12/15/21 03:30:08 pm	0.19	2960	1.30			1.0000	95.29
Replicates	2949.5	2997.8	2978.3	2915.6						
CCV		CCV	12/15/21 03:31:28 pm	1.98	28830	1.23			1.0000	99.21
Replicates	28905.4	29155.9	28926.9	28332.2						
CCB		CCB	12/15/21 03:32:45 pm	-0.01	28	12.21			1.0000	N/A
Replicates	44.4	38.2	33.2	-5.3						
MB 480-608975/1-A		UNK	12/15/21 03:34:03 pm	-0.01	40	16.87			1.0000	N/A
Replicates	52.5	74.4	20.9	11.6						

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
LCS 480-608975/2-A		UNK	12/15/21 03:35:20 pm	4.01	58045	1.47		1.0000	N/A
Replicates	58308.7	58836.0	58192.8	56841.0					
480-193300-B-13-C		UNK	12/15/21 03:36:38 pm	-0.01	10	8.71		1.0000	N/A
Replicates	5.7	24.9	-13.6	21.4					
480-193300-B-19-C		UNK	12/15/21 03:37:56 pm	-0.01	48	6.78		1.0000	N/A
Replicates	32.8	52.7	58.7	46.4					
480-193310-C-1-C		UNK	12/15/21 03:39:13 pm	-0.01	48	8.73		1.0000	N/A
Replicates	28.6	60.8	47.8	56.1					
480-193310-C-2-C		UNK	12/15/21 03:40:31 pm	-0.01	59	6.21		1.0000	N/A
Replicates	48.4	71.1	59.4	55.9					
480-193310-C-3-C		UNK	12/15/21 03:41:50 pm	-0.01	42	7.95		1.0000	N/A
Replicates	33.4	46.0	59.7	30.2					
480-193310-C-4-C		UNK	12/15/21 03:43:08 pm	-0.01	47	6.99		1.0000	N/A
Replicates	59.3	36.5	38.5	54.7					
480-193310-C-5-C		UNK	12/15/21 03:44:26 pm	-0.01	17	10.17		1.0000	N/A
Replicates	10.0	2.6	46.1	8.6					
480-193310-C-6-C		UNK	12/15/21 03:45:45 pm	-0.01	66	4.64		1.0000	N/A
Replicates	72.2	70.2	57.2	64.2					
CCV		CCV	12/15/21 03:47:05 pm	1.96	28540	1.30		1.0000	98.20
Replicates	28616.6	28887.9	28636.4	28017.9					
CCB		CCB	12/15/21 03:48:22 pm	-0.01	3	7.50		1.0000	N/A
Replicates	0.2	-18.0	10.3	18.3					
480-193310-C-7-C		UNK	12/15/21 03:49:41 pm	-0.01	14	3.21		1.0000	N/A
Replicates	15.9	15.1	18.9	4.4					
480-193042-E-7-D		UNK	12/15/21 03:51:00 pm	-0.01	18	9.57		1.0000	N/A
Replicates	16.5	-1.7	42.8	13.1					
480-193042-E-7-Dsd@5		UNK	12/15/21 03:52:17 pm	-0.01	61	12.47		1.0000	N/A
Replicates	45.5	44.0	82.0	70.5					
480-193042-E-7-E MS		UNK	12/15/21 03:53:35 pm	3.98	57642	1.58		1.0000	N/A
Replicates	57985.2	58448.6	57791.8	56344.1					
480-193042-E-7-F MSD		UNK	12/15/21 03:54:52 pm	3.97	57424	1.61		1.0000	N/A
Replicates	57791.8	58258.0	57530.0	56118.0					
480-193322-F-2-B		UNK	12/15/21 03:56:10 pm	-0.01	-2	8.24		1.0000	N/A
Replicates	-23.0	0.8	-6.0	19.5					
480-193238-D-1-C		UNK	12/15/21 03:57:28 pm	-0.01	118	16.33		1.0000	N/A
Replicates	120.1	135.7	98.7	118.9					
480-193241-C-1-E		UNK	12/15/21 03:58:46 pm	-0.01	29	3.77		1.0000	N/A
Replicates	19.8	30.2	27.9	36.4					

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-193335-A-7-B		UNK	12/15/21 04:00:04 pm	-0.01	47	8.08			1.0000	N/A
Replicates	57.3	60.4	35.6	36.4						
480-193336-F-5-B		UNK	12/15/21 04:01:23 pm	0.04	815	4.04			1.0000	N/A
Replicates	818.6	845.6	808.6	786.9						
CCV		CCV	12/15/21 04:02:42 pm	2.00	29039	1.22			1.0000	99.93
Replicates	29074.7	29391.6	29136.9	28552.9						
CCB		CCB	12/15/21 04:04:00 pm	-0.01	9	5.13			1.0000	N/A
Replicates	9.0	19.8	-4.8	13.3						
480-193336-F-6-B		UNK	12/15/21 04:05:19 pm	-0.01	47	17.03			1.0000	N/A
Replicates	50.6	68.5	6.0	61.2						
480-193336-F-7-B		UNK	12/15/21 04:06:37 pm	-0.01	12	4.94			1.0000	N/A
Replicates	24.8	5.1	15.1	3.6						
MB 480-608976/1-A		UNK	12/15/21 04:07:56 pm	-0.01	41	3.97			1.0000	N/A
Replicates	50.8	36.1	37.3	38.8						
LCS 480-608976/2-A		UNK	12/15/21 04:09:15 pm	3.89	56326	1.41			1.0000	N/A
Replicates	56597.2	57048.7	56454.4	55201.9						
LCSD 480-608976/3-A		UNK	12/15/21 04:10:33 pm	3.95	57220	1.63			1.0000	N/A
Replicates	57570.9	58024.6	57397.6	55887.9						
480-193367-D-1-C		UNK	12/15/21 04:11:50 pm	-0.01	46	6.89			1.0000	N/A
Replicates	54.2	30.7	44.9	55.2						
480-193367-D-2-C		UNK	12/15/21 04:13:08 pm	-0.01	83	13.28			1.0000	N/A
Replicates	93.7	83.8	94.8	58.0						
480-193367-D-3-C		UNK	12/15/21 04:14:26 pm	0.29	4399	1.51			1.0000	N/A
Replicates	4396.4	4446.9	4442.1	4310.4						
480-193367-D-4-E		UNK	12/15/21 04:15:44 pm	0.00	150	45.50			1.0000	N/A
Replicates	184.6	147.0	116.2	151.2						
480-193367-D-5-C		UNK	12/15/21 04:17:02 pm	-0.01	137	29.36			1.0000	N/A
Replicates	143.9	141.2	157.0	106.0						
CCV		CCV	12/15/21 04:18:21 pm	1.99	28853	1.20			1.0000	99.29
Replicates	28919.3	29155.1	28978.4	28359.1						
CCB		CCB	12/15/21 04:19:39 pm	-0.01	1	3.55			1.0000	N/A
Replicates	6.9	0.6	5.3	-9.7						
480-193369-D-1-B		UNK	12/15/21 04:20:57 pm	-0.01	24	8.27			1.0000	N/A
Replicates	23.4	40.8	28.3	3.6						
480-193369-D-1-Bsd@5		UNK	12/15/21 04:22:16 pm	-0.01	60	10.27			1.0000	N/A
Replicates	55.4	81.3	44.3	60.5						
480-193369-D-1-C MS		UNK	12/15/21 04:23:34 pm	3.97	57489	1.35			1.0000	N/A
Replicates	57646.7	58219.7	57694.7	56396.7						

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-193369-D-1-D MSD		UNK	12/15/21 04:24:53 pm	4.01	57988	1.37			1.0000	N/A
Replicates	58182.2	58715.5	58188.5	56864.0						
480-193369-D-2-B		UNK	12/15/21 04:26:11 pm	-0.01	8	15.69			1.0000	N/A
Replicates	30.5	-39.0	16.0	24.5						
480-193369-D-3-B		UNK	12/15/21 04:27:30 pm	-0.01	53	11.72			1.0000	N/A
Replicates	52.1	28.3	73.3	56.8						
480-193369-D-4-B		UNK	12/15/21 04:28:48 pm	-0.01	20	14.95			1.0000	N/A
Replicates	32.5	52.8	4.3	-11.4						
480-193369-D-5-B		UNK	12/15/21 04:30:06 pm	-0.01	24	10.04			1.0000	N/A
Replicates	30.4	48.2	9.7	9.0						
480-193384-D-1-C		UNK	12/15/21 04:31:23 pm	-0.01	45	10.42			1.0000	N/A
Replicates	54.7	61.5	40.5	22.2						
480-193384-C-2-C		UNK	12/15/21 04:32:41 pm	-0.01	58	13.07			1.0000	N/A
Replicates	83.4	44.3	64.1	39.6						
CCV		CCV	12/15/21 04:34:01 pm	2.01	29248	2.35			1.0000	100.66
Replicates	29780.0	29752.9	29127.4	28332.2						
CCB		CCB	12/15/21 04:35:18 pm	-0.01	19	2.05			1.0000	N/A
Replicates	14.0	19.7	23.2	21.2						
480-193384-D-3-C		UNK	12/15/21 04:36:36 pm	0.00	184	47.95			1.0000	N/A
Replicates	168.2	178.2	193.7	195.7						
480-193385-G-1-C		UNK	12/15/21 04:37:54 pm	-0.01	44	7.83			1.0000	N/A
Replicates	44.4	28.3	60.3	41.8						
MB 480-608766/1-C		UNK	12/15/21 04:39:13 pm	-0.01	33	6.92			1.0000	N/A
Replicates	42.1	21.8	45.8	23.8						
LCS 480-608766/2-C		UNK	12/15/21 04:40:31 pm	3.96	57278	1.48			1.0000	N/A
Replicates	57505.5	58063.3	57464.8	56077.3						
480-193322-E-1-C		UNK	12/15/21 04:41:49 pm	-0.01	7	13.02			1.0000	N/A
Replicates	40.0	-16.9	17.6	-11.6						
480-193322-E-2-C		UNK	12/15/21 04:43:08 pm	-0.01	36	6.77			1.0000	N/A
Replicates	18.6	41.1	38.4	45.4						
480-193322-E-3-C		UNK	12/15/21 04:44:27 pm	-0.01	16	4.65			1.0000	N/A
Replicates	16.6	4.1	25.6	19.6						
480-193322-E-4-C		UNK	12/15/21 04:45:46 pm	-0.01	28	8.63			1.0000	N/A
Replicates	35.2	44.6	7.9	23.9						
480-193322-E-5-C		UNK	12/15/21 04:47:03 pm	-0.01	41	8.43			1.0000	N/A
Replicates	31.9	59.9	27.9	43.9						
480-193322-A-6-C		UNK	12/15/21 04:48:21 pm	-0.01	51	5.36			1.0000	N/A
Replicates	51.1	44.9	63.6	46.1						

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
CCV				CCV	12/15/21 04:49:41 pm	1.98	28743	1.77			1.0000	98.91
	Replicates	28878.8	29171.4	28909.4	28013.9							
CCB				CCB	12/15/21 04:50:59 pm	-0.01	-4	2.40			1.0000	N/A
	Replicates	0.0	-4.0	-11.7	-1.7							
CCVL				CRDL	12/15/21 04:52:19 pm	0.19	2963	3.42			1.0000	95.38
	Replicates	3084.7	2974.5	2932.2	2859.5							
480-193206-R-2-C				UNK	12/15/21 04:53:37 pm	-0.01	24	5.28			1.0000	N/A
	Replicates	14.3	23.8	19.0	37.3							
480-193206-R-2-Csd@5				UNK	12/15/21 04:54:55 pm	-0.01	44	18.34			1.0000	N/A
	Replicates	65.6	17.9	75.9	18.6							
480-193206-R-2-D MS				UNK	12/15/21 04:56:13 pm	3.85	55683	1.51			1.0000	N/A
	Replicates	55906.8	56464.5	55867.0	54492.8							
480-193206-R-2-E MSD				UNK	12/15/21 04:57:31 pm	3.84	55561	1.51			1.0000	N/A
	Replicates	55853.8	56314.0	55706.3	54368.8							
480-193206-R-6-E				UNK	12/15/21 04:58:49 pm	-0.01	8	13.04			1.0000	N/A
	Replicates	21.6	29.2	11.0	-30.3							
480-193206-R-9-C				UNK	12/15/21 05:00:07 pm	-0.01	28	5.38			1.0000	N/A
	Replicates	24.3	17.5	27.8	41.0							
480-193206-R-11-C				UNK	12/15/21 05:01:26 pm	-0.01	13	11.89			1.0000	N/A
	Replicates	-0.8	7.1	-1.4	48.1							
480-193337-E-2-C				UNK	12/15/21 05:02:44 pm	-0.01	20	5.88			1.0000	N/A
	Replicates	18.2	34.9	18.2	7.7							
480-193337-E-1-C				UNK	12/15/21 05:04:03 pm	-0.01	34	2.80			1.0000	N/A
	Replicates	35.0	27.2	33.4	39.2							
LB 480-608769/1-C				UNK	12/15/21 05:05:22 pm	-0.01	90	9.20			1.0000	N/A
	Replicates	83.7	106.8	85.8	84.3							
CCV				CCV	12/15/21 05:06:42 pm	1.97	28666	1.58			1.0000	98.64
	Replicates	28769.6	29050.5	28829.5	28016.0							
CCB				CCB	12/15/21 05:08:00 pm	-0.01	29	10.10			1.0000	N/A
	Replicates	36.9	22.8	6.5	49.3							
MB 480-608978/2-A				UNK	12/15/21 05:09:18 pm	-0.01	13	7.23			1.0000	N/A
	Replicates	9.9	8.9	-0.6	33.2							
LCS 480-608978/3-A				UNK	12/15/21 05:10:36 pm	3.74	54203	1.63			1.0000	N/A
	Replicates	54495.3	54993.5	54376.0	52948.7							
480-193346-A-1-D				UNK	12/15/21 05:11:54 pm	-0.01	13	4.36			1.0000	N/A
	Replicates	16.3	12.2	0.7	21.0							
240-161159-H-1-F				UNK	12/15/21 05:13:12 pm	-0.01	109	14.45			1.0000	N/A
	Replicates	90.3	124.9	115.1	104.4							

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
240-161159-H-1-Fsd@5		UNK	12/15/21 05:14:31 pm	-0.01	67	12.02		1.0000	N/A
Replicates	48.2	90.1	65.6	62.9					
240-161159-H-1-G MS		UNK	12/15/21 05:15:49 pm	3.06	44371	1.43		1.0000	N/A
Replicates	44502.1	44949.7	44558.9	43471.4					
240-161159-H-1-H MSD		UNK	12/15/21 05:17:07 pm	3.00	43508	1.60		1.0000	N/A
Replicates	43710.4	44142.2	43661.7	42519.5					
240-161140-H-1-C		UNK	12/15/21 05:18:25 pm	0.01	308	16.83		1.0000	N/A
Replicates	319.8	300.9	322.4	288.1					
240-161144-C-1-F		UNK	12/15/21 05:19:44 pm	-0.01	108	12.74		1.0000	N/A
Replicates	112.7	101.3	124.0	94.0					
480-193343-A-1-C		UNK	12/15/21 05:21:02 pm	0.75	11051	1.54		1.0000	N/A
Replicates	11100.1	11202.1	11087.6	10813.4					
CCV		CCV	12/15/21 05:22:22 pm	1.98	28699	1.36		1.0000	98.75
Replicates	28853.0	29037.3	28761.3	28145.1					
CCB		CCB	12/15/21 05:23:40 pm	-0.01	8	8.23		1.0000	N/A
Replicates	29.1	-11.7	6.5	8.8					
480-193343-A-2-C		UNK	12/15/21 05:24:59 pm	0.14	2274	1.08		1.0000	N/A
Replicates	2293.6	2282.1	2278.6	2242.1					
480-193343-A-3-C		UNK	12/15/21 05:26:18 pm	O/R	443415	1.11	O	1.0000	N/A
Replicates	444997.1	447889.8	444345.8	436427.3					
480-193343-A-4-C		UNK	12/15/21 05:28:48 pm	0.80	11805	1.39		1.0000	N/A
Replicates	11871.4	11949.2	11824.7	11575.2					
480-193343-A-5-C		UNK	12/15/21 05:30:06 pm	0.32	4842	1.07		1.0000	N/A
Replicates	4850.1	4879.2	4870.0	4770.7					
480-193329-A-1-E		UNK	12/15/21 05:31:24 pm	-0.01	115	13.85		1.0000	N/A
Replicates	118.3	105.2	105.0	133.0					
480-193329-A-2-E		UNK	12/15/21 05:32:43 pm	-0.01	58	16.07		1.0000	N/A
Replicates	61.0	86.6	59.1	26.6					
480-193343-A-6-C		UNK	12/15/21 05:34:01 pm	0.00	205	219.45		1.0000	N/A
Replicates	221.6	196.2	189.7	211.2					
480-193343-A-3-C@5		UNK	12/15/21 05:35:19 pm	7.24	104632	1.04		1.0000	N/A
Replicates	104275.7	105773.5	105182.3	103295.0					
CCV		CCV	12/15/21 05:36:39 pm	1.97	28558	1.43		1.0000	98.26
Replicates	28682.8	28923.8	28643.0	27981.0					
CCB		CCB	12/15/21 05:37:57 pm	-0.01	5	5.21		1.0000	N/A
Replicates	19.6	-2.8	7.3	-3.3					
CCVL		CRDL	12/15/21 05:39:17 pm	0.18	2863	1.32		1.0000	91.93
Replicates	2884.5	2897.7	2850.4	2820.2					

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608816 Batch Start Date: 12/15/21 08:40 Batch Analyst: Stone, Natalie B

Batch Method: 3005A Batch End Date: 12/15/21 12:26

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00159	MED_01_W1 00069	MED_02_W2 00067	MED_03_Ag 00174
MB 480-608816/1		3005A, 6010C		50 mL	50 mL				
LCS 480-608816/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-193369-D-1	MW-1A	3005A, 6010C	T	50 mL	50 mL				
480-193369-D-2	MW-2A	3005A, 6010C	T	50 mL	50 mL				
480-193369-D-3	MW-2B	3005A, 6010C	T	50 mL	50 mL				
480-193369-D-4	MW-1B	3005A, 6010C	T	50 mL	50 mL				
480-193369-D-5	DUP MW-1B	3005A, 6010C	T	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00162	MED_05_S 00119				
MB 480-608816/1		3005A, 6010C							
LCS 480-608816/2		3005A, 6010C		0.25 mL	0.25 mL				
480-193369-D-1	MW-1A	3005A, 6010C	T						
480-193369-D-2	MW-2A	3005A, 6010C	T						
480-193369-D-3	MW-2B	3005A, 6010C	T						
480-193369-D-4	MW-1B	3005A, 6010C	T						
480-193369-D-5	DUP MW-1B	3005A, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608816 Batch Start Date: 12/15/21 08:40 Batch Analyst: Stone, Natalie B

Batch Method: 3005A Batch End Date: 12/15/21 12:26

Batch Notes	
pH Indicator ID	HC911298
Digestion Tube/Cup ID	2106023
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	AM
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	6795030
Nitric Acid ID	6814356
Digestion Unit ID	D
Thermometer ID	210702965
Thermometer Location ID	A5
Temperature - Uncorrected - Start	96.5 Degrees C
Temperature - Corrected - Start	96.5 Degrees C
Digestion Start Time	12/15/2021 08:40
Digestion End Time	12/15/2021 12:26
Temperature - Uncorrected - End	93.4 Degrees C
Temperature - Corrected - End	93.4 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608976 Batch Start Date: 12/15/21 12:48 Batch Analyst: Booth, Bryan M

Batch Method: 7470A Batch End Date: 12/15/21 14:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG1_WKG 02731			
MB 480-608976/1		7470A, 7470A		30 mL	50 mL				
LCS 480-608976/2		7470A, 7470A		30 mL	50 mL	2 mL			
LCSD 480-608976/3		7470A, 7470A		30 mL	50 mL	2 mL			
480-193369-D-1	MW-1A	7470A, 7470A	T	30 mL	50 mL				
480-193369-D-1 MS	MW-1A	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-193369-D-1 MSD	MW-1A	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-193369-D-2	MW-2A	7470A, 7470A	T	30 mL	50 mL				
480-193369-D-3	MW-2B	7470A, 7470A	T	30 mL	50 mL				
480-193369-D-4	MW-1B	7470A, 7470A	T	30 mL	50 mL				
480-193369-D-5	DUP MW-1B	7470A, 7470A	T	30 mL	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608976 Batch Start Date: 12/15/21 12:48 Batch Analyst: Booth, Bryan M

Batch Method: 7470A Batch End Date: 12/15/21 14:48

Batch Notes	
Digestion Tube/Cup ID	2008043
Pipette/Syringe/Dispenser ID	Hg 8
Analyst ID - Spike Analyst	BB
Nitric Acid ID	6763740
Sulfuric Acid ID	6759394
Potassium Permanganate ID	6773789
Potassium Persulfate ID	6774849
Digestion Unit ID	HG-B
Thermometer ID	170435802
Temperature - Uncorrected - Start	93.0 Degrees C
Temperature - Corrected - Start	94.0 Degrees C
Digestion Start Time	1248
Digestion End Time	1448
Temperature - Uncorrected - End	92.8 Degrees C
Temperature - Corrected - End	93.8 Degrees C
Hydroxylamine ID	6770557
Batch Comment	1 & 2 Prep 1220

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG No.: 193337

Project: Towslee Landfill - Baseline

Client Sample ID	Lab Sample ID
MW-1A	480-193369-1
MW-2A	480-193369-2
MW-2B	480-193369-3
MW-1B	480-193369-4
DUP MW-1B	480-193369-5

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1A
Lab Sample ID: 480-193369-1
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/10/2021 08:45
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	130	20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L		F1	1	350.1
	Total Kjeldahl Nitrogen	0.20	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L		H H3	1	353.2
14808-79-8	Sulfate	17.9	5.0		mg/L			1	9038
	Total Dissolved Solids	242	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	35.3	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		H H3	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1A
Lab Sample ID: 480-193369-1
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/10/2021 08:45
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	5.00	5.00		Color Units		H H3	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2A
Lab Sample ID: 480-193369-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/10/2021 07:45
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	339	40.0		mg/L			4	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	7.1	0.10		mg/L			5	350.1
	Total Kjeldahl Nitrogen	7.4	0.40		mg/L			2	351.2
	Chemical Oxygen Demand	11.5	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	0.11	0.050		mg/L		H H3	1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	350	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	20.0	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	2.2	2.0		mg/L		H H3 b	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	7.5	1.0		mg/L			1	SM 5310C
	TOC Result 1	7.4	1.0		mg/L			1	SM 5310C
	TOC Result 2	7.5	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2A
Lab Sample ID: 480-193369-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/10/2021 07:45
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		H H3	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2B
Lab Sample ID: 480-193369-3
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/10/2021 08:05
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	560	80.0		mg/L			8	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	0.44	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	1.0	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	0.63	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L		H H3	1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	696	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	80.7	2.0		mg/L			2	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		H H3	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	4.6	1.0		mg/L			1	SM 5310C
	TOC Result 1	4.5	1.0		mg/L			1	SM 5310C
	TOC Result 2	4.8	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-2B
Lab Sample ID: 480-193369-3
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/10/2021 08:05
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units		H H3	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1B
Lab Sample ID: 480-193369-4
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/09/2021 12:20
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	95.9	20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L		H H3	1	353.2
14808-79-8	Sulfate	7.2	5.0		mg/L			1	9038
	Total Dissolved Solids	143	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	4.3	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		H H3	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1B
Lab Sample ID: 480-193369-4
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/09/2021 12:20
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	5.00	5.00		Color Units		H H3	1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUP MW-1B
Lab Sample ID: 480-193369-5
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/09/2021 13:45
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	90.7	20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L		H H3	1	353.2
14808-79-8	Sulfate	7.1	5.0		mg/L			1	9038
	Total Dissolved Solids	192	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	4.5	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		H H3	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUP MW-1B
Lab Sample ID: 480-193369-5
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193369-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/09/2021 13:45
Reporting Basis: WET
Date Received: 12/13/2021 10:00

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	5.00	5.00		Color Units		H H3	1	SM 2120B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Analyst: SRW Batch Start Date: 11/22/2021

Reporting Units: mg/L Analytical Batch No.: 609054

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICB	19:45	Alkalinity, Total	ND					
9	ICV	18:05	Alkalinity, Total	33.69	32.3	104	90-110		Minerals_00024
42	CCB	19:18	Alkalinity, Total	ND					
43	CCV	19:18	Alkalinity, Total	52.42	50.0	105	90-110		WC_50ppmALK_00180
52	CCB	19:21	Alkalinity, Total	ND					
53	CCV	19:22	Alkalinity, Total	53.77	50.0	108	90-110		WC_50ppmALK_00180
61	CCB	19:25	Alkalinity, Total	ND					
62	CCV	19:26	Alkalinity, Total	49.84	50.0	100	90-110		WC_50ppmALK_00180
116	CCB	19:41	Alkalinity, Total	ND					
117	CCV	19:41	Alkalinity, Total	48.43	50.0	97	90-110		WC_50ppmALK_00180
124	CCB	19:44	Alkalinity, Total	ND					
125	CCV	19:44	Alkalinity, Total	50.76	50.0	102	90-110		WC_50ppmALK_00180
136	CCB	19:55	Alkalinity, Total	ND					
137	CCV	19:55	Alkalinity, Total	49.77	50.0	100	90-110		WC_50ppmALK_00180
148	CCB	19:58	Alkalinity, Total	ND					
149	CCV	19:59	Alkalinity, Total	48.73	50.0	97	90-110		WC_50ppmALK_00180
224	CCB	21:16	Alkalinity, Total	ND					
225	CCV	21:16	Alkalinity, Total	50.28	50.0	101	90-110		WC_50ppmALK_00180
233	CCB	21:19	Alkalinity, Total	ND					
234	CCV	21:20	Alkalinity, Total	52.28	50.0	105	90-110		WC_50ppmALK_00180
245	CCB	21:23	Alkalinity, Total	ND					
246	CCV	21:23	Alkalinity, Total	52.10	50.0	104	90-110		WC_50ppmALK_00180
255	CCB	21:28	Alkalinity, Total	ND					
256	CCV	21:28	Alkalinity, Total	48.43	50.0	97	90-110		WC_50ppmALK_00180

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Analyst: JGO Batch Start Date: 12/14/2021

Reporting Units: mg/L Analytical Batch No.: 608835

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:11	Cyanide, Total	0.255	0.250	102	90-110		CN CCV_01608
2	CCB	13:13	Cyanide, Total	ND					
13	CCV	13:29	Cyanide, Total	0.257	0.250	103	90-110		CN CCV_01608
14	CCB	13:30	Cyanide, Total	ND					
25	CCV	13:46	Cyanide, Total	0.254	0.250	102	90-110		CN CCV_01608
26	CCB	13:47	Cyanide, Total	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Analyst: CLT Batch Start Date: 12/14/2021

Reporting Units: mg/L Analytical Batch No.: 608780

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:50	Ammonia	0.985	1.00	99	90-110		NH3 CCV_01458
2	CCB	10:51	Ammonia	ND					
13	CCV	11:03	Ammonia	0.976	1.00	98	90-110		NH3 CCV_01458
14	CCB	11:04	Ammonia	ND					
20	CCV	11:11	Ammonia	0.984	1.00	98	90-110		NH3 CCV_01458
21	CCB	11:12	Ammonia	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Analyst: CLT Batch Start Date: 12/15/2021

Reporting Units: mg/L Analytical Batch No.: 608899

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	05:20	Total Kjeldahl Nitrogen	2.63	2.50	105	90-110		TKN CCV_01306
2	CCB	05:20	Total Kjeldahl Nitrogen	ND					
5	CCV	05:22	Total Kjeldahl Nitrogen	2.44	2.50	98	90-110		TKN CCV_01306
6	CCB	05:22	Total Kjeldahl Nitrogen	ND					
16	CCV	05:58	Total Kjeldahl Nitrogen	2.51	2.50	101	90-110		TKN CCV_01306
17	CCB	05:58	Total Kjeldahl Nitrogen	ND					
24	CCV	06:01	Total Kjeldahl Nitrogen	2.41	2.50	96	90-110		TKN CCV_01306
25	CCB	06:01	Total Kjeldahl Nitrogen	ND					
28	CCV	06:27	Total Kjeldahl Nitrogen	2.46	2.50	98	90-110		TKN CCV_01306
29	CCB	06:27	Total Kjeldahl Nitrogen	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Analyst: CSS Batch Start Date: 12/17/2021

Reporting Units: mg/L Analytical Batch No.: 609392

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	19:30	Chemical Oxygen Demand	76.72	75.0	102	90-110		COD 75 PPM_00045
3	CCB	19:30	Chemical Oxygen Demand	ND					
14	CCV	19:30	Chemical Oxygen Demand	73.07	75.0	97	90-110		COD 75 PPM_00045
15	CCB	19:30	Chemical Oxygen Demand	ND					
26	CCV	19:30	Chemical Oxygen Demand	77.21	75.0	103	90-110		COD 75 PPM_00045
27	CCB	19:30	Chemical Oxygen Demand	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Analyst: CLT Batch Start Date: 12/14/2021

Reporting Units: mg/L Analytical Batch No.: 608721

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	ICV	06:07	Phenolics, Total Recoverable	0.100	0.100	100	90-110		Phenol ICV_00335
11	ICB	06:11	Phenolics, Total Recoverable	ND					
14	CCV	06:22	Phenolics, Total Recoverable	0.0932	0.100	93	90-110		WC_Phenol_CCV_00468
15	CCB	06:26	Phenolics, Total Recoverable	ND					
26	CCV	07:06	Phenolics, Total Recoverable	0.0904	0.100	90	90-110		WC_Phenol_CCV_00468
27	CCB	07:10	Phenolics, Total Recoverable	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Analyst: CLT Batch Start Date: 12/14/2021

Reporting Units: mg/L Analytical Batch No.: 608788

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	ICV	10:10	Phenolics, Total Recoverable	0.100	0.100	100	90-110		Phenol ICV_00335
11	ICB	10:13	Phenolics, Total Recoverable	ND					
14	CCV	10:26	Phenolics, Total Recoverable	0.0945	0.100	95	90-110		WC_Phenol_CCV_00468
15	CCB	10:28	Phenolics, Total Recoverable	ND					
27	CCV	11:14	Phenolics, Total Recoverable	0.0907	0.100	91	90-110		WC_Phenol_CCV_00468
28	CCB	11:16	Phenolics, Total Recoverable	0.0155					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Analyst: MJB Batch Start Date: 12/13/2021

Reporting Units: mg/L Analytical Batch No.: 608674

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:10	Chromium, hexavalent	0.0565	0.0500	113	85-115		HEX INT STD_00109
2	CCB	14:10	Chromium, hexavalent	ND					
13	CCV	14:10	Chromium, hexavalent	0.0552	0.0500	110	85-115		HEX INT STD_00109
14	CCB	14:10	Chromium, hexavalent	ND					
19	CCV	14:10	Chromium, hexavalent	0.0539	0.0500	108	85-115		HEX INT STD_00109
20	CCB	14:10	Chromium, hexavalent	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Analyst: MJB Batch Start Date: 12/13/2021

Reporting Units: Color Units Analytical Batch No.: 608673

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	16:06	Color	30.00	30.0	100	90-110		Color Std-2_00020
2	CCB	16:06	Color	ND					
13	CCV	16:06	Color	30.00	30.0	100	90-110		Color Std-2_00020
14	CCB	16:06	Color	ND					
17	CCV	16:06	Color	30.00	30.0	100	90-110		Color Std-2_00020
18	CCB	16:06	Color	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Analyst: IMZ Batch Start Date: 12/17/2021

Reporting Units: mg/L Analytical Batch No.: 609280

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
25	CCV	21:36	Bromide	4.88	5.00	98	90-110		IC_ANION_LCS__00395
26	CCB	21:56	Bromide	ND					
37	CCV	01:31	Bromide	4.88	5.00	98	90-110		IC_ANION_LCS__00395
38	CCB	01:51	Bromide	ND					
49	CCV	05:26	Bromide	4.89	5.00	98	90-110		IC_ANION_LCS__00395
50	CCB	05:45	Bromide	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Analyst: SRW Batch Start Date: 12/16/2021

Reporting Units: mg/L Analytical Batch No.: 609236

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
9	ICB	19:01	Sulfate	ND					
10	ICV	19:01	Sulfate	31.04	30.0	103	90-110		Sulf 30ppm_00185
160	CCB	21:14	Sulfate	ND					
161	CCV	21:14	Sulfate	29.50	30.0	98	90-110		Sulf 30ppm_00184
164	CCB	01:46	Sulfate	ND					
165	CCV	01:46	Sulfate	28.36	30.0	95	90-110		Sulf 30ppm_00184
189	CCB	02:50	Sulfate	ND					
190	CCV	02:51	Sulfate	27.24	30.0	91	90-110		Sulf 30ppm_00184
194	CCB	02:53	Sulfate	ND					
195	CCV	02:53	Sulfate	28.61	30.0	95	90-110		Sulf 30ppm_00184
199	CCB	02:55	Sulfate	ND					
200	CCV	02:56	Sulfate	27.82	30.0	93	90-110		Sulf 30ppm_00184
204	CCB	02:57	Sulfate	ND					
205	CCV	02:57	Sulfate	27.65	30.0	92	90-110		Sulf 30ppm_00184

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Analyst: KEB Batch Start Date: 12/13/2021

Reporting Units: mg/L Analytical Batch No.: 608717

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICB	17:59	Chloride	ND					
236	CCB	06:56	Chloride	ND					
237	CCV	06:57	Chloride	26.70	25.0	107	90-110		WC25ppmChlInt_00155
245	CCB	07:02	Chloride	ND					
246	CCV	07:02	Chloride	26.67	25.0	107	90-110		WC25ppmChlInt_00155
257	CCB	07:08	Chloride	ND					
258	CCV	07:08	Chloride	26.90	25.0	108	90-110		WC25ppmChlInt_00155
269	CCB	07:16	Chloride	ND					
270	CCV	07:17	Chloride	26.50	25.0	106	90-110		WC25ppmChlInt_00155
278	CCB	07:22	Chloride	ND					
279	CCV	07:22	Chloride	26.92	25.0	108	90-110		WC25ppmChlInt_00155
290	CCB	07:26	Chloride	ND					
291	CCV	07:26	Chloride	26.70	25.0	107	90-110		WC25ppmChlInt_00155
294	CCB	07:42	Chloride	ND					
295	CCV	07:42	Chloride	26.44	25.0	106	90-110		WC25ppmChlInt_00155
303	CCB	07:45	Chloride	ND					
304	CCV	07:45	Chloride	26.46	25.0	106	90-110		WC25ppmChlInt_00155

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Analyst: IMZ Batch Start Date: 12/14/2021

Reporting Units: mg/L Analytical Batch No.: 608965

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
26	CCV	22:30	Total Organic Carbon - Duplicates	63.56	60.0	106	90-110		TOC_CCV_00190
			TOC Result 1	62.83	60.0	105	90-110		TOC_CCV_00190
			TOC Result 2	64.28	60.0	107	90-110		TOC_CCV_00190
27	CCB	22:45	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
38	CCV	01:34	Total Organic Carbon - Duplicates	63.45	60.0	106	90-110		TOC_CCV_00190
			TOC Result 1	62.03	60.0	103	90-110		TOC_CCV_00190
			TOC Result 2	64.86	60.0	108	90-110		TOC_CCV_00190
39	CCB	01:49	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 609280 Date: 12/17/2021 22:35							
300.0	MB 480-609280/28	Bromide	ND		mg/L	0.20	1
Batch ID: 609054 Date: 12/15/2021 19:18							
310.2	MB 480-609054/45	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 19:23							
310.2	MB 480-609054/55	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 19:41							
310.2	MB 480-609054/119	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 19:44							
310.2	MB 480-609054/127	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 19:56							
310.2	MB 480-609054/139	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 21:17							
310.2	MB 480-609054/227	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 21:20							
310.2	MB 480-609054/236	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609054 Date: 12/15/2021 21:24							
310.2	MB 480-609054/248	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 608835 Date: 12/14/2021 13:14 Prep Batch: 608774 Date: 12/14/2021 10:51							
335.4	MB 480-608774/1-A	Cyanide, Total	ND		mg/L	0.010	1
Batch ID: 608780 Date: 12/14/2021 10:52							
350.1	MB 480-608780/3	Ammonia	ND		mg/L	0.020	1
Batch ID: 608899 Date: 12/15/2021 05:20 Prep Batch: 608866 Date: 12/14/2021 16:03							
351.2	MB 480-608866/1-A	Total Kjeldahl Nitrogen	ND		mg/L	0.20	1
Batch ID: 609392 Date: 12/17/2021 19:30							
410.4	MB 480-609392/4	Chemical Oxygen Demand	ND		mg/L	10.0	1
Batch ID: 608721 Date: 12/14/2021 06:29							
420.4	MB 480-608721/16	Phenolics, Total Recoverable	ND		mg/L	0.010	1
Batch ID: 608788 Date: 12/14/2021 10:32							
420.4	MB 480-608788/16	Phenolics, Total Recoverable	ND		mg/L	0.010	1
Batch ID: 608674 Date: 12/13/2021 14:10							
7196A	MB 480-608674/3	Chromium, hexavalent	ND		mg/L	0.010	1
Batch ID: 609236 Date: 12/16/2021 21:16							
9038	MB 480-609236/162	Sulfate	ND		mg/L	5.0	1
Batch ID: 608673 Date: 12/13/2021 16:06							
SM 2120B	MB 480-608673/3	Color	ND		Color Units	5.00	1
Batch ID: 608781 Date: 12/14/2021 11:17							
SM 2540C	MB 480-608781/1	Total Dissolved Solids	ND		mg/L	10.0	1
Batch ID: 608941 Date: 12/15/2021 09:42							
SM 2540C	MB 480-608941/1	Total Dissolved Solids	ND		mg/L	10.0	1
Batch ID: 608717 Date: 12/14/2021 06:57							
SM 4500 Cl- E	MB 480-608717/239	Chloride	ND		mg/L	1.0	1
Batch ID: 608717 Date: 12/14/2021 07:03							
SM 4500 Cl- E	MB 480-608717/248	Chloride	ND		mg/L	1.0	1

FORM III-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 608717 Date: 12/14/2021 07:09							
SM 4500 Cl- E	MB 480-608717/260	Chloride	ND		mg/L	1.0	1
Batch ID: 608717 Date: 12/14/2021 07:18							
SM 4500 Cl- E	MB 480-608717/272	Chloride	ND		mg/L	1.0	1
Batch ID: 608717 Date: 12/14/2021 07:22							
SM 4500 Cl- E	MB 480-608717/281	Chloride	ND		mg/L	1.0	1
Batch ID: 608717 Date: 12/14/2021 07:27							
SM 4500 Cl- E	MB 480-608717/293	Chloride	ND		mg/L	1.0	1
Batch ID: 608717 Date: 12/14/2021 07:43							
SM 4500 Cl- E	MB 480-608717/297	Chloride	ND		mg/L	1.0	1
Batch ID: 608965 Date: 12/14/2021 23:01							
SM 5310C	MB 480-608965/28	Total Organic Carbon - Duplicates	ND		mg/L	1.0	1
SM 5310C	MB 480-608965/28	TOC Result 1	ND		mg/L	1.0	1
SM 5310C	MB 480-608965/28	TOC Result 2	ND		mg/L	1.0	1

3-IN
UNSEEDED CONTROL BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 608699 Date: 12/13/2021 19:56							
SM 5210B	USB 480-608699/1	Biochemical Oxygen Demand	ND		mg/L	2.0	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 609280	Date: 12/18/2021 05:06										
300.0	480-193369-5	Bromide	ND		mg/L						
300.0	480-193369-5 MS	Bromide	4.68		mg/L	5.00	94	80-120			
Batch ID: 608780	Date: 12/14/2021 10:58										
350.1	480-193369-1	Ammonia	ND		mg/L						F1
350.1	480-193369-1 MS	Ammonia	0.183		mg/L	0.200	82	90-110			F1
Batch ID: 608780	Date: 12/14/2021 11:07										
350.1	480-193369-5	Ammonia	ND		mg/L						
350.1	480-193369-5 MS	Ammonia	0.204		mg/L	0.200	102	90-110			
Batch ID: 608899	Date: 12/15/2021 06:24	Prep Batch: 608866	Date: 12/14/2021 16:03								
351.2	480-193369-2	Total Kjeldahl Nitrogen	7.4		mg/L						
351.2	480-193369-2 MS	Total Kjeldahl Nitrogen	8.30		mg/L	1.00	87	90-110			4
Batch ID: 608788	Date: 12/14/2021 10:54										
420.4	480-193369-3	Phenolics, Total Recoverable	ND		mg/L						
420.4	480-193369-3 MS	Phenolics, Total Recoverable	0.0997		mg/L	0.100	100	90-110			
Batch ID: 608674	Date: 12/13/2021 14:10										
7196A	480-193369-4	Chromium, hexavalent	ND		mg/L						H H3
7196A	480-193369-4 MS	Chromium, hexavalent	0.0512		mg/L	0.0500	102	85-115			
Batch ID: 608965	Date: 12/14/2021 23:46										
SM 5310C	480-193369-1	Total Organic Carbon - Duplicates	ND		mg/L						
SM 5310C	480-193369-1 MS	Total Organic Carbon - Duplicates	27.93		mg/L	22.7	120	54-131			
SM 5310C	480-193369-1	TOC Result 1	ND		mg/L						
SM 5310C	480-193369-1 MS	TOC Result 1	27.63		mg/L	22.7	119	54-131			
SM 5310C	480-193369-1	TOC Result 2	ND		mg/L						
SM 5310C	480-193369-1 MS	TOC Result 2	28.23		mg/L	22.7	121	54-131			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 608965 Date: 12/15/2021 00:01											
SM 5310C	480-193369-1 MSD	Total Organic Carbon - Duplicates	27.68		mg/L	22.7	119	54-131	1	20	
SM 5310C	480-193369-1 MSD	TOC Result 1	27.38		mg/L	22.7	118	54-131	1	20	
SM 5310C	480-193369-1 MSD	TOC Result 2	27.97		mg/L	22.7	120	54-131	1	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 608780	Date: 12/14/2021 11:06							
350.1	DUP MW-1B	480-193369-5	Ammonia	ND	mg/L			
350.1	DUP MW-1B	480-193369-5 DU	Ammonia	ND	mg/L	NC	20	
Batch ID: 608788	Date: 12/14/2021 10:50							
420.4	MW-2B	480-193369-3	Phenolics, Total Recoverable	ND	mg/L			
420.4	MW-2B	480-193369-3 DU	Phenolics, Total Recoverable	ND	mg/L	NC	20	
Batch ID: 608674	Date: 12/13/2021 14:10							
7196A	DUP MW-1B	480-193369-5	Chromium, hexavalent	ND	mg/L			
7196A	DUP MW-1B	480-193369-5 DU	Chromium, hexavalent	ND	mg/L	NC	20	
Batch ID: 608673	Date: 12/13/2021 16:06							
SM 2120B	DUP MW-1B	480-193369-5	Color	5.00	Color Units			
SM 2120B	DUP MW-1B	480-193369-5 DU	Color	5.000	Color Units	0	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 609280	Date: 12/17/2021 22:16										
						LCS Source: IC_ANION_LCS__00395					
300.0	LCS 480-609280/27	Bromide	4.86		mg/L	5.00	97	90-110			
Batch ID: 609054	Date: 12/15/2021 19:22										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609054/54	Alkalinity, Total	52.34		mg/L	50.0	105	90-110			
Batch ID: 609054	Date: 12/15/2021 19:44										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609054/126	Alkalinity, Total	52.96		mg/L	50.0	106	90-110			
Batch ID: 609054	Date: 12/15/2021 19:55										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609054/138	Alkalinity, Total	51.22		mg/L	50.0	102	90-110			
Batch ID: 609054	Date: 12/15/2021 21:20										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609054/235	Alkalinity, Total	52.04		mg/L	50.0	104	90-110			
Batch ID: 609054	Date: 12/15/2021 21:23										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609054/247	Alkalinity, Total	52.39		mg/L	50.0	105	90-110			
Batch ID: 608835	Date: 12/14/2021 13:16	Prep Batch: 608774	Date: 12/14/2021 10:51								
						LCS Source: CN LCS 250_00233					
335.4	LCS 480-608774/2-A	Cyanide, Total	0.234		mg/L	0.250	94	90-110			
Batch ID: 608780	Date: 12/14/2021 10:53										
						LCS Source: NH3 CCV_01458					
350.1	LCS 480-608780/4	Ammonia	0.997		mg/L	1.00	100	90-110			
Batch ID: 608899	Date: 12/15/2021 05:20	Prep Batch: 608866	Date: 12/14/2021 16:03								
						LCS Source: TKN1000ppmSTD_00016					
351.2	LCS 480-608866/2-A	Total Kjeldahl Nitrogen	2.33		mg/L	2.50	93	90-110			
Batch ID: 609392	Date: 12/17/2021 19:30										
						LCS Source: COD 25 PPM_00082					
410.4	LCS 480-609392/5	Chemical Oxygen Demand	26.35		mg/L	25.0	105	90-110			
Batch ID: 608721	Date: 12/14/2021 06:33										
						LCS Source: WC_Phenol_CCV_00468					
420.4	LCS 480-608721/17	Phenolics, Total Recoverable	0.0943		mg/L	0.100	94	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 608788	Date: 12/14/2021 10:36										
						LCS Source: WC_Phenol_CCV_00468					
420.4	LCS 480-608788/17	Phenolics, Total Recoverable	0.0937		mg/L	0.100	94	90-110			
Batch ID: 608674	Date: 12/13/2021 14:10										
						LCS Source: HEX INT STD_00109					
7196A	LCS 480-608674/4	Chromium, hexavalent	0.0525		mg/L	0.0500	105	85-115			
Batch ID: 609236	Date: 12/16/2021 21:16										
						LCS Source: Sulf 30ppm_00184					
9038	LCS 480-609236/163	Sulfate	29.34		mg/L	30.0	98	90-110			
Batch ID: 608673	Date: 12/13/2021 16:06										
						LCS Source: Color Std-2_00020					
SM 2120B	LCS 480-608673/4	Color	30.00		Color Units	30.0	100	90-110			
Batch ID: 608781	Date: 12/14/2021 11:17										
						LCS Source: NaCl Std 02_00420					
SM 2540C	LCS 480-608781/2	Total Dissolved Solids	526.0		mg/L	504	104	85-115			
Batch ID: 608941	Date: 12/15/2021 09:42										
						LCS Source: NaCl Std 02_00420					
SM 2540C	LCS 480-608941/2	Total Dissolved Solids	486.0		mg/L	504	96	85-115			
Batch ID: 608717	Date: 12/14/2021 07:03										
						LCS Source: WC25ppmChlInt_00155					
SM 4500 Cl- E	LCS 480-608717/247	Chloride	26.72		mg/L	25.0	107	90-110			
Batch ID: 608717	Date: 12/14/2021 07:08										
						LCS Source: WC25ppmChlInt_00155					
SM 4500 Cl- E	LCS 480-608717/259	Chloride	26.58		mg/L	25.0	106	90-110			
Batch ID: 608717	Date: 12/14/2021 07:18										
						LCS Source: WC25ppmChlInt_00155					
SM 4500 Cl- E	LCS 480-608717/271	Chloride	26.49		mg/L	25.0	106	90-110			
Batch ID: 608717	Date: 12/14/2021 07:22										
						LCS Source: WC25ppmChlInt_00155					
SM 4500 Cl- E	LCS 480-608717/280	Chloride	27.02		mg/L	25.0	108	90-110			
Batch ID: 608717	Date: 12/14/2021 07:43										
						LCS Source: WC25ppmChlInt_00155					
SM 4500 Cl- E	LCS 480-608717/296	Chloride	26.55		mg/L	25.0	106	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 608699	Date: 12/13/2021 19:56										
						LCS Source: GGA_00013					
SM 5210B	LCS 480-608699/2	Biochemical Oxygen Demand	201.1		mg/L	198	102	85-115			
Batch ID: 608965	Date: 12/14/2021 23:16										
						LCS Source: TOC_LCS_00187					
SM 5310C	LCS 480-608965/29	Total Organic Carbon - Duplicates	63.50		mg/L	60.0	106	90-110			
SM 5310C	LCS 480-608965/29	TOC Result 1	62.26		mg/L	60.0	104	90-110			
SM 5310C	LCS 480-608965/29	TOC Result 2	64.74		mg/L	60.0	108	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: 310.2 MDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity, Total		10	4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: 310.2 XMDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity, Total		10	4

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT2

Method: 335.4 MDL Date: 01/29/2010 00:00

Prep Method: Distill/CN

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cyanide, Total		0.01	0.005

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT2

Method: 335.4 XMDL Date: 01/29/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.005

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT1

Method: 350.1 MDL Date: 01/12/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ammonia		0.02	0.009

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT1

Method: 350.1 XMDL Date: 01/12/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ammonia		0.02	0.009

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: KONE1

Method: 351.2 MDL Date: 01/19/2021 13:21

Prep Method: 351.2

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Kjeldahl Nitrogen		0.2	0.187

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: KONE1

Method: 351.2 XMDL Date: 01/19/2021 13:21

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Kjeldahl Nitrogen		0.2	0.187

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: COD Robot

Method: 410.4 MDL Date: 11/08/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chemical Oxygen Demand		10	5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: COD Robot

Method: 410.4 XMDL Date: 11/08/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chemical Oxygen Demand		10	5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: Skalar_San+

Method: 420.4 MDL Date: 07/30/2019 13:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Phenolics, Total Recoverable		0.01	0.0035

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: Skalar_San+

Method: 420.4 XMDL Date: 07/30/2019 13:21

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Phenolics, Total Recoverable		0.01	0.0035

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: Genesys Spec 30

Method: 7196A MDL Date: 09/30/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chromium, hexavalent		0.01	0.005

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: Genesys Spec 30

Method: 7196A XMDL Date: 09/30/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chromium, hexavalent		0.01	0.005

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2120B RL Date: 06/25/2014 09:48

Analyte	Wavelength/ Mass	RL (Color Units)	
Color		5	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2120B XRL Date: 08/17/2009 09:56

Analyte	Wavelength/ Mass	XRL (Color Units)	
Color		5	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: IC-6

Method: 300.0 MDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Bromide		0.2	0.073

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: IC-6

Method: 300.0 XMDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Bromide		0.2	0.073

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT3

Method: 353.2 MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate as N		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT3

Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate as N		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: 9038 MDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		5	1.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: 9038 XMDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		5	1.5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: Balance-3

Method: SM 2540C MDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Dissolved Solids		10	4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: Balance-3

Method: SM 2540C XMDL Date: 08/17/2009 10:52

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Dissolved Solids		10	4

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: SM 4500 Cl- E MDL Date: 08/17/2009 10:18

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		1	0.46

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: SM 4500 Cl- E XMDL Date: 08/17/2009 10:18

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		1	0.46

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: BOD2

Method: SM 5210B MDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: BOD2

Method: SM 5210B XMDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: TOC10301

Method: SM 5310C MDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
TOC Result 1		1	0.434
TOC Result 2		1	0.434
Total Organic Carbon - Duplicates		1	0.434

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193369-1

SDG Number: 193337

Matrix: Water Instrument ID: TOC10301

Method: SM 5310C XMDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Result 1		1	0.434
TOC Result 2		1	0.434
Total Organic Carbon - Duplicates		1	0.434

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193369-1

SDG No.: 193337

Instrument ID: Genesys Spec 30 Date: 03/12/2020 10:22

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Chromium, hexavalent		0.4	7196A

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Prep Method: Distill/CN

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-608774/1-A	12/14/2021 10:51	608774		6	6
LCS 480-608774/2-A	12/14/2021 10:51	608774		6	6
480-193369-2	12/14/2021 10:51	608774		6	6
480-193369-1	12/14/2021 10:51	608774		6	6
480-193369-3	12/14/2021 10:51	608774		6	6
480-193369-4	12/14/2021 10:51	608774		6	6
480-193369-5	12/14/2021 10:51	608774		6	6

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Prep Method: 351.2

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-608866/1-A	12/14/2021 16:03	608866		25	25
LCS 480-608866/2-A	12/14/2021 16:03	608866		25	25
480-193369-1	12/14/2021 16:03	608866		25	25
480-193369-2	12/14/2021 16:03	608866		25	25
480-193369-2 MS	12/14/2021 16:03	608866		25	25
480-193369-3	12/14/2021 16:03	608866		25	25
480-193369-4	12/14/2021 16:03	608866		25	25
480-193369-5	12/14/2021 16:03	608866		25	25

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			19:44																				
ZZZZZZ			19:44																				
ZZZZZZ			19:44																				
ZZZZZZ			19:45																				
ZZZZZZ			19:45																				
ZZZZZZ			19:45																				
ZZZZZZ			19:45																				
ICB 480-609054/8	1		19:45	X																			
ICV 480-609054/9	1		18:05	X																			
CCB 480-609054/10			18:05																				
CCV 480-609054/11			18:05																				
ZZZZZZ			18:05																				
ZZZZZZ			18:05																				
ZZZZZZ			19:11																				
ZZZZZZ			19:11																				
ZZZZZZ			19:12																				
ZZZZZZ			19:12																				
ZZZZZZ			19:12																				
ZZZZZZ			19:12																				
CCB 480-609054/20			19:13																				
CCV 480-609054/21			19:13																				
ZZZZZZ			19:13																				
ZZZZZZ			19:13																				
ZZZZZZ			19:13																				
ZZZZZZ			19:14																				
ZZZZZZ			19:14																				
ZZZZZZ			19:14																				
ZZZZZZ			19:15																				
ZZZZZZ			19:15																				
ZZZZZZ			19:15																				
ZZZZZZ			19:15																				
CCB 480-609054/32			19:16																				
CCV 480-609054/33			19:16																				
ZZZZZZ			19:16																				
ZZZZZZ			19:16																				
ZZZZZZ			19:16																				
ZZZZZZ			19:16																				
ZZZZZZ			19:17																				
ZZZZZZ			19:17																				
ZZZZZZ			19:17																				
ZZZZZZ			19:18																				
CCB 480-609054/42	1		19:18	X																			

ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk																			
CCV 480-609054/43	1		19:18	X																			
ZZZZZZ			19:18																				
MB 480-609054/45	1	T	19:18	X																			
ZZZZZZ			19:19																				
ZZZZZZ			19:19																				
ZZZZZZ			19:19																				
ZZZZZZ			19:20																				
ZZZZZZ			19:20																				
ZZZZZZ			19:21																				
CCB 480-609054/52	1		19:21	X																			
CCV 480-609054/53	1		19:22	X																			
LCS 480-609054/54	1	T	19:22	X																			
MB 480-609054/55	1	T	19:23	X																			
ZZZZZZ			19:23																				
ZZZZZZ			19:23																				
ZZZZZZ			19:24																				
ZZZZZZ			19:24																				
ZZZZZZ			19:24																				
CCB 480-609054/61	1		19:25	X																			
CCV 480-609054/62	1		19:26	X																			
ZZZZZZ			19:26																				
ZZZZZZ			19:26																				
ZZZZZZ			19:27																				
ZZZZZZ			19:27																				
ZZZZZZ			19:27																				
ZZZZZZ			19:27																				
ZZZZZZ			19:28																				
ZZZZZZ			19:28																				
ZZZZZZ			19:28																				
ZZZZZZ			19:29																				
CCB 480-609054/73			19:29																				
CCV 480-609054/74			19:29																				
ZZZZZZ			19:29																				
ZZZZZZ			19:29																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:31																				
ZZZZZZ			19:31																				
ZZZZZZ			19:31																				
CCB 480-609054/83			19:32																				
CCV 480-609054/84			19:32																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			19:32																				
ZZZZZZ			19:32																				
ZZZZZZ			19:34																				
ZZZZZZ			19:35																				
ZZZZZZ			19:35																				
ZZZZZZ			19:36																				
ZZZZZZ			19:36																				
ZZZZZZ			19:36																				
CCB 480-609054/93			19:36																				
CCV 480-609054/94			19:37																				
ZZZZZZ			19:37																				
ZZZZZZ			19:37																				
ZZZZZZ			19:37																				
ZZZZZZ			19:37																				
ZZZZZZ			19:37																				
ZZZZZZ			19:38																				
ZZZZZZ			19:38																				
ZZZZZZ			19:38																				
ZZZZZZ			19:38																				
ZZZZZZ			19:38																				
CCB 480-609054/105			19:38																				
CCV 480-609054/106			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:40																				
ZZZZZZ			19:40																				
ZZZZZZ			19:40																				
ZZZZZZ			19:40																				
CCB 480-609054/116	1		19:41	X																			
CCV 480-609054/117	1		19:41	X																			
ZZZZZZ			19:41																				
MB 480-609054/119	1	T	19:41	X																			
ZZZZZZ			19:41																				
ZZZZZZ			19:42																				
ZZZZZZ			19:42																				
ZZZZZZ			19:43																				
CCB 480-609054/124	1		19:44	X																			
CCV 480-609054/125	1		19:44	X																			
LCS 480-609054/126	1	T	19:44	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D/F	Type	Time	Analytes																			
				Alk																			
MB 480-609054/127	1	T	19:44	X																			
ZZZZZZ			19:45																				
ZZZZZZ			19:47																				
ZZZZZZ			19:47																				
ZZZZZZ			19:48																				
ZZZZZZ			19:48																				
ZZZZZZ			19:54																				
ZZZZZZ			19:55																				
ZZZZZZ			19:55																				
CCB 480-609054/136	1		19:55	X																			
CCV 480-609054/137	1		19:55	X																			
LCS 480-609054/138	1	T	19:55	X																			
MB 480-609054/139	1	T	19:56	X																			
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:57																				
ZZZZZZ			19:57																				
ZZZZZZ			19:57																				
ZZZZZZ			19:58																				
ZZZZZZ			19:58																				
ZZZZZZ			19:58																				
CCB 480-609054/148	1		19:58	X																			
CCV 480-609054/149	1		19:59	X																			
ZZZZZZ			19:59																				
ZZZZZZ			19:59																				
ZZZZZZ			19:59																				
ZZZZZZ			20:00																				
ZZZZZZ			20:01																				
ZZZZZZ			20:02																				
CCB 480-609054/156			20:02																				
CCV 480-609054/157			20:02																				
ZZZZZZ			20:03																				
ZZZZZZ			20:03																				
ZZZZZZ			20:42																				
ZZZZZZ			20:42																				
ZZZZZZ			20:44																				
ZZZZZZ			20:44																				
ZZZZZZ			20:45																				
ZZZZZZ			20:45																				
CCB 480-609054/166			20:47																				
CCV 480-609054/167			20:47																				
ZZZZZZ			20:47																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			20:47																				
ZZZZZZ			20:49																				
ZZZZZZ			20:50																				
ZZZZZZ			20:50																				
ZZZZZZ			20:50																				
ZZZZZZ			20:53																				
ZZZZZZ			20:53																				
ZZZZZZ			20:54																				
ZZZZZZ			20:54																				
CCB 480-609054/178			20:55																				
CCV 480-609054/179			20:55																				
ZZZZZZ			20:56																				
ZZZZZZ			20:57																				
ZZZZZZ			20:57																				
ZZZZZZ			20:57																				
ZZZZZZ			20:57																				
ZZZZZZ			20:59																				
ZZZZZZ			21:00																				
ZZZZZZ			21:00																				
CCB 480-609054/188			21:00																				
CCV 480-609054/189			21:00																				
ZZZZZZ			21:01																				
ZZZZZZ			21:01																				
ZZZZZZ			21:01																				
ZZZZZZ			21:02																				
ZZZZZZ			21:02																				
ZZZZZZ			21:03																				
ZZZZZZ			21:05																				
ZZZZZZ			21:05																				
ZZZZZZ			21:07																				
ZZZZZZ			21:07																				
CCB 480-609054/200			21:08																				
CCV 480-609054/201			21:08																				
ZZZZZZ			21:08																				
ZZZZZZ			21:08																				
ZZZZZZ			21:09																				
ZZZZZZ			21:09																				
ZZZZZZ			21:09																				
ZZZZZZ			21:10																				
ZZZZZZ			21:10																				
ZZZZZZ			21:10																				
ZZZZZZ			21:10																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D / F	Type	Time	Analytes																				
				Alk																				
ZZZZZZ			21:12																					
CCB 480-609054/212			21:13																					
CCV 480-609054/213			21:13																					
ZZZZZZ			21:14																					
ZZZZZZ			21:14																					
ZZZZZZ			21:14																					
ZZZZZZ			21:14																					
ZZZZZZ			21:15																					
ZZZZZZ			21:15																					
ZZZZZZ			21:15																					
ZZZZZZ			21:16																					
ZZZZZZ			21:16																					
ZZZZZZ			21:16																					
CCB 480-609054/224	1		21:16	X																				
CCV 480-609054/225	1		21:16	X																				
ZZZZZZ			21:17																					
MB 480-609054/227	1	T	21:17	X																				
ZZZZZZ			21:17																					
ZZZZZZ			21:18																					
ZZZZZZ			21:18																					
ZZZZZZ			21:18																					
ZZZZZZ			21:19																					
CCB 480-609054/233	1		21:19	X																				
CCV 480-609054/234	1		21:20	X																				
LCS 480-609054/235	1	T	21:20	X																				
MB 480-609054/236	1	T	21:20	X																				
ZZZZZZ			21:20																					
ZZZZZZ			21:21																					
ZZZZZZ			21:21																					
480-193369-1	2	T	21:21	X																				
480-193369-2	4	T	21:22	X																				
ZZZZZZ			21:22																					
ZZZZZZ			21:23																					
ZZZZZZ			21:23																					
CCB 480-609054/245	1		21:23	X																				
CCV 480-609054/246	1		21:23	X																				
LCS 480-609054/247	1	T	21:23	X																				
MB 480-609054/248	1	T	21:24	X																				
ZZZZZZ			21:24																					
ZZZZZZ			21:24																					
ZZZZZZ			21:24																					
480-193369-3	8	T	21:27	X																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
480-193369-4	2	T	21:27	X																			
480-193369-5	2	T	21:27	X																			
CCB 480-609054/255	1		21:28	X																			
CCV 480-609054/256	1		21:28	X																			
ZZZZZZ			21:28																				
ZZZZZZ			21:28																				
ZZZZZZ			21:29																				
ZZZZZZ			21:29																				
ZZZZZZ			21:30																				
CCB 480-609054/262			21:38																				
CCV 480-609054/263			21:38																				
ZZZZZZ			21:38																				
ZZZZZZ			21:38																				
ZZZZZZ			21:39																				
ZZZZZZ			21:39																				
ZZZZZZ			21:40																				
ZZZZZZ			21:40																				
ZZZZZZ			21:40																				
ZZZZZZ			21:41																				
CCB 480-609054/272			21:41																				
CCV 480-609054/273			21:41																				
ZZZZZZ			21:41																				
ZZZZZZ			21:41																				
ZZZZZZ			21:42																				
ZZZZZZ			21:42																				
ZZZZZZ			21:42																				
ZZZZZZ			21:42																				
ZZZZZZ			21:43																				
ZZZZZZ			21:44																				
ZZZZZZ			21:45																				
CCB 480-609054/283			21:47																				
CCV 480-609054/284			21:47																				
ZZZZZZ			21:47																				
ZZZZZZ			21:47																				
ZZZZZZ			21:48																				
ZZZZZZ			21:48																				
CCB 480-609054/289			02:35																				
CCV 480-609054/290			02:35																				
ZZZZZZ			02:36																				
ZZZZZZ			02:36																				
ZZZZZZ			02:36																				
ZZZZZZ			02:36																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 11/22/2021 19:44 End Date: 12/16/2021 02:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			02:37																				
ZZZZZZ			02:37																				
ZZZZZZ			02:37																				
ZZZZZZ			02:37																				
ZZZZZZ			02:38																				
ZZZZZZ			02:44																				
CCB 480-609054/301			02:44																				
CCV 480-609054/302			02:44																				
ZZZZZZ			02:44																				
ZZZZZZ			02:45																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: LACHAT2 Method: 335.4

Start Date: 12/14/2021 13:11 End Date: 12/14/2021 13:53

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
CCV 480-608835/1	1		13:11	X																			
CCB 480-608835/2	1		13:13	X																			
MB 480-608774/1-A	1	T	13:14	X																			
LCS 480-608774/2-A	1	T	13:16	X																			
ZZZZZZ			13:17																				
ZZZZZZ			13:19																				
ZZZZZZ			13:20																				
ZZZZZZ			13:21																				
ZZZZZZ			13:23																				
ZZZZZZ			13:24																				
ZZZZZZ			13:26																				
ZZZZZZ			13:27																				
CCV 480-608835/13	1		13:29	X																			
CCB 480-608835/14	1		13:30	X																			
ZZZZZZ			13:32																				
ZZZZZZ			13:33																				
ZZZZZZ			13:34																				
ZZZZZZ			13:36																				
480-193369-2	1	T	13:37	X																			
480-193369-1	1	T	13:39	X																			
480-193369-3	1	T	13:40	X																			
480-193369-4	1	T	13:42	X																			
480-193369-5	1	T	13:43	X																			
ZZZZZZ			13:44																				
CCV 480-608835/25	1		13:46	X																			
CCB 480-608835/26	1		13:47	X																			
ZZZZZZ			13:49																				
ZZZZZZ			13:50																				
CCV 480-608835/29			13:52																				
CCB 480-608835/30			13:53																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: LACHAT1 Method: 350.1

Start Date: 12/14/2021 10:50 End Date: 12/14/2021 11:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
CCV 480-608780/1	1		10:50	X																			
CCB 480-608780/2	1		10:51	X																			
MB 480-608780/3	1	T	10:52	X																			
LCS 480-608780/4	1	T	10:53	X																			
ZZZZZZ			10:54																				
ZZZZZZ			10:55																				
ZZZZZZ			10:56																				
480-193369-1	1	T	10:57	X																			
480-193369-1 MS	1	T	10:58	X																			
ZZZZZZ			11:00																				
480-193369-3	1	T	11:01	X																			
480-193369-4	1	T	11:02	X																			
CCV 480-608780/13	1		11:03	X																			
CCB 480-608780/14	1		11:04	X																			
480-193369-5	1	T	11:05	X																			
480-193369-5 DU	1	T	11:06	X																			
480-193369-5 MS	1	T	11:07	X																			
ZZZZZZ			11:08																				
480-193369-2	5	T	11:09	X																			
CCV 480-608780/20	1		11:11	X																			
CCB 480-608780/21	1		11:12	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: KONE1 Method: 351.2

Start Date: 12/15/2021 05:20 End Date: 12/15/2021 06:27

Lab Sample ID	D / F	Type	Time	Analytes																			
				TKN																			
CCV 480-608899/1	1		05:20	X																			
CCB 480-608899/2	1		05:20	X																			
MB 480-608866/1-A	1	T	05:20	X																			
LCS 480-608866/2-A	1	T	05:20	X																			
CCV 480-608899/5	1		05:22	X																			
CCB 480-608899/6	1		05:22	X																			
ZZZZZZ			05:50																				
ZZZZZZ			05:50																				
ZZZZZZ			05:51																				
ZZZZZZ			05:51																				
ZZZZZZ			05:51																				
ZZZZZZ			05:51																				
ZZZZZZ			05:51																				
ZZZZZZ			05:51																				
480-193369-1	1	T	05:51	X																			
CCV 480-608899/16	1		05:58	X																			
CCB 480-608899/17	1		05:58	X																			
480-193369-3	1	T	05:58	X																			
480-193369-4	1	T	05:58	X																			
480-193369-5	1	T	05:58	X																			
ZZZZZZ			05:58																				
ZZZZZZ			05:58																				
ZZZZZZ			05:58																				
CCV 480-608899/24	1		06:01	X																			
CCB 480-608899/25	1		06:01	X																			
480-193369-2	2	T	06:24	X																			
480-193369-2 MS	2	T	06:24	X																			
CCV 480-608899/28	1		06:27	X																			
CCB 480-608899/29	1		06:27	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: COD Robot Method: 410.4

Start Date: 12/17/2021 19:30 End Date: 12/17/2021 19:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				COD																			
ZZZZZZ			19:30																				
CCV 480-609392/2	1		19:30	X																			
CCB 480-609392/3	1		19:30	X																			
MB 480-609392/4	1	T	19:30	X																			
LCS 480-609392/5	1	T	19:30	X																			
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
CCV 480-609392/14	1		19:30	X																			
CCB 480-609392/15	1		19:30	X																			
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
480-193369-1	1	T	19:30	X																			
480-193369-2	1	T	19:30	X																			
480-193369-3	1	T	19:30	X																			
480-193369-4	1	T	19:30	X																			
480-193369-5	1	T	19:30	X																			
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
CCV 480-609392/26	1		19:30	X																			
CCB 480-609392/27	1		19:30	X																			
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
CCV 480-609392/38			19:30																				
CCB 480-609392/39			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: COD Robot Method: 410.4

Start Date: 12/17/2021 19:30 End Date: 12/17/2021 19:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				COD																			
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
CCV 480-609392/50			19:30																				
CCB 480-609392/51			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
CCV 480-609392/62			19:30																				
CCB 480-609392/63			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
CCV 480-609392/74			19:30																				
CCB 480-609392/75			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: COD Robot Method: 410.4

Start Date: 12/17/2021 19:30 End Date: 12/17/2021 19:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				COD																			
ZZZZZZ			19:30																				
CCV 480-609392/86			19:30																				
CCB 480-609392/87			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
CCV 480-609392/95			19:30																				
CCB 480-609392/96			19:30																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 12/14/2021 05:37 End Date: 12/14/2021 08:44

Lab Sample ID	D / F	Type	Time	Analytes																			
				PhenT																			
ZZZZZZ			05:37																				
ZZZZZZ			05:38																				
ZZZZZZ			05:42																				
IC 480-608721/4			05:46	X																			
IC 480-608721/5			05:49	X																			
IC 480-608721/6			05:53	X																			
IC 480-608721/7			05:56	X																			
IC 480-608721/8			06:00	X																			
IC 480-608721/9			06:04	X																			
ICV 480-608721/10	1		06:07	X																			
ICB 480-608721/11	1		06:11	X																			
ZZZZZZ			06:15																				
ZZZZZZ			06:20																				
CCV 480-608721/14	1		06:22	X																			
CCB 480-608721/15	1		06:26	X																			
MB 480-608721/16	1	T	06:29	X																			
LCS 480-608721/17	1	T	06:33	X																			
ZZZZZZ			06:37																				
ZZZZZZ			06:40																				
ZZZZZZ			06:44																				
ZZZZZZ			06:48																				
ZZZZZZ			06:52																				
480-193369-1	1	T	06:56	X																			
480-193369-2	1	T	06:59	X																			
480-193369-4	1	T	07:03	X																			
CCV 480-608721/26	1		07:06	X																			
CCB 480-608721/27	1		07:10	X																			
ZZZZZZ			07:13																				
ZZZZZZ			07:18																				
ZZZZZZ			07:21																				
ZZZZZZ			07:24																				
ZZZZZZ			07:28																				
ZZZZZZ			07:32																				
ZZZZZZ			07:35																				
ZZZZZZ			07:39																				
ZZZZZZ			07:43																				
ZZZZZZ			07:46																				
ZZZZZZ			07:50																				
ZZZZZZ			07:54																				
ZZZZZZ			07:56																				
CCV 480-608721/41			08:01																				
CCB 480-608721/42			08:07																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 12/14/2021 05:37 End Date: 12/14/2021 08:44

Lab Sample ID	D / F	Type	Time	Analytes																				
				PhenT																				
ZZZZZZ			08:11																					
ZZZZZZ			08:15																					
ZZZZZZ			08:18																					
ZZZZZZ			08:22																					
ZZZZZZ			08:26																					
CCV 480-608721/48			08:30																					
CCB 480-608721/49			08:33																					
ZZZZZZ			08:37																					
ZZZZZZ			08:41																					
ZZZZZZ			08:44																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 12/14/2021 09:37 End Date: 12/14/2021 11:28

Lab Sample ID	D / F	Type	Time	Analytes																				
				PhenT																				
ZZZZZZ			09:37																					
ZZZZZZ			09:38																					
ZZZZZZ			09:44																					
IC 480-608788/4			09:49	X																				
IC 480-608788/5			09:52	X																				
IC 480-608788/6			09:55	X																				
IC 480-608788/7			09:59	X																				
IC 480-608788/8			10:03	X																				
IC 480-608788/9			10:06	X																				
ICV 480-608788/10	1		10:10	X																				
ICB 480-608788/11	1		10:13	X																				
ZZZZZZ			10:17																					
ZZZZZZ			10:21																					
CCV 480-608788/14	1		10:26	X																				
CCB 480-608788/15	1		10:28	X																				
MB 480-608788/16	1	T	10:32	X																				
LCS 480-608788/17	1	T	10:36	X																				
ZZZZZZ			10:39																					
ZZZZZZ			10:43																					
480-193369-3	1	T	10:47	X																				
480-193369-3 DU	1	T	10:50	X																				
480-193369-3 MS	1	T	10:54	X																				
480-193369-5	1	T	10:57	X																				
ZZZZZZ			11:01																					
ZZZZZZ			11:05																					
ZZZZZZ			11:09																					
CCV 480-608788/27	1		11:14	X																				
CCB 480-608788/28	1		11:16	X																				
ZZZZZZ			11:19																					
ZZZZZZ			11:23																					
ZZZZZZ			11:28																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Genesys Spec 30 Method: 7196A

Start Date: 12/13/2021 14:10 End Date: 12/13/2021 14:10

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cr6																			
CCV 480-608674/1	1		14:10	X																			
CCB 480-608674/2	1		14:10	X																			
MB 480-608674/3	1	T	14:10	X																			
LCS 480-608674/4	1	T	14:10	X																			
ZZZZZZ			14:10																				
ZZZZZZ			14:10																				
ZZZZZZ			14:10																				
ZZZZZZ			14:10																				
ZZZZZZ			14:10																				
480-193369-1	1	T	14:10	X																			
480-193369-2	1	T	14:10	X																			
480-193369-3	1	T	14:10	X																			
CCV 480-608674/13	1		14:10	X																			
CCB 480-608674/14	1		14:10	X																			
480-193369-4	1	T	14:10	X																			
480-193369-4 MS	1	T	14:10	X																			
480-193369-5	1	T	14:10	X																			
480-193369-5 DU	1	T	14:10	X																			
CCV 480-608674/19	1		14:10	X																			
CCB 480-608674/20	1		14:10	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: NOEQUIP Method: SM 2120B

Start Date: 12/13/2021 16:06 End Date: 12/13/2021 16:06

Lab Sample ID	D / F	Type	Time	Analytes																			
				Color																			
CCV 480-608673/1	1		16:06	X																			
CCB 480-608673/2	1		16:06	X																			
MB 480-608673/3	1	T	16:06	X																			
LCS 480-608673/4	1	T	16:06	X																			
ZZZZZZ			16:06																				
ZZZZZZ			16:06																				
ZZZZZZ			16:06																				
ZZZZZZ			16:06																				
480-193369-1	1	T	16:06	X																			
480-193369-2	1	T	16:06	X																			
480-193369-3	1	T	16:06	X																			
480-193369-4	1	T	16:06	X																			
CCV 480-608673/13	1		16:06	X																			
CCB 480-608673/14	1		16:06	X																			
480-193369-5	1	T	16:06	X																			
480-193369-5 DU	1	T	16:06	X																			
CCV 480-608673/17	1		16:06	X																			
CCB 480-608673/18	1		16:06	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: IC-6 Method: 300.0

Start Date: 12/17/2021 13:48 End Date: 12/18/2021 08:41

Lab Sample ID	D / F	Type	Time	Analytes																			
				Br																			
CCV 480-609280/1			13:48																				
CCB 480-609280/2			14:07																				
ZZZZZZ			14:27																				
ZZZZZZ			14:46																				
ZZZZZZ			15:06																				
ZZZZZZ			15:45																				
ZZZZZZ			16:43																				
ZZZZZZ			17:03																				
ZZZZZZ			17:23																				
CCV 480-609280/13			17:42																				
CCB 480-609280/14			18:02																				
ZZZZZZ			19:00																				
ZZZZZZ			19:39																				
ZZZZZZ			19:59																				
ZZZZZZ			20:18																				
ZZZZZZ			20:38																				
ZZZZZZ			20:57																				
ZZZZZZ			21:17																				
CCV 480-609280/25	1		21:36	X																			
CCB 480-609280/26	1		21:56	X																			
LCS 480-609280/27	1	T	22:16	X																			
MB 480-609280/28	1	T	22:35	X																			
ZZZZZZ			22:55																				
ZZZZZZ			23:14																				
ZZZZZZ			23:34																				
ZZZZZZ			23:53																				
ZZZZZZ			00:13																				
ZZZZZZ			00:32																				
ZZZZZZ			00:52																				
ZZZZZZ			01:11																				
CCV 480-609280/37	1		01:31	X																			
CCB 480-609280/38	1		01:51	X																			
ZZZZZZ			02:10																				
ZZZZZZ			02:30																				
ZZZZZZ			02:49																				
ZZZZZZ			03:09																				
480-193369-1	1	T	03:28	X																			
480-193369-2	2	T	03:48	X																			
480-193369-3	2	T	04:07	X																			
480-193369-4	1	T	04:27	X																			
480-193369-5	1	T	04:46	X																			
480-193369-5 MS	1	T	05:06	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: IC-6 Method: 300.0

Start Date: 12/17/2021 13:48 End Date: 12/18/2021 08:41

Lab Sample ID	D / F	Type	Time	Analytes																				
				Br																				
CCV 480-609280/49	1		05:26	X																				
CCB 480-609280/50	1		05:45	X																				
ZZZZZZ			06:05																					
ZZZZZZ			06:24																					
ZZZZZZ			06:44																					
ZZZZZZ			07:03																					
ZZZZZZ			07:23																					
ZZZZZZ			07:42																					
CCV 480-609280/57			08:02																					
CCB 480-609280/58			08:21																					
ZZZZZZ			08:41																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: LACHAT3 Method: 353.2

Start Date: 12/14/2021 11:05 End Date: 12/14/2021 12:44

Lab Sample ID	D / F	Type	Time	Analytes																			
				NO3																			
ZZZZZZ			11:05																				
ZZZZZZ			11:10																				
ZZZZZZ			11:23																				
480-193369-1	1	T	11:38	X																			
480-193369-3	1	T	11:42	X																			
480-193369-4	1	T	11:43	X																			
480-193369-5	1	T	11:45	X																			
ZZZZZZ			12:22																				
ZZZZZZ			12:25																				
ZZZZZZ			12:25																				
ZZZZZZ			12:26																				
ZZZZZZ			12:28																				
ZZZZZZ			12:29																				
ZZZZZZ			12:33																				
ZZZZZZ			12:37																				
ZZZZZZ			12:39																				
ZZZZZZ			12:40																				
ZZZZZZ			12:42																				
ZZZZZZ			12:43																				
480-193369-2	1	T	12:44	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
IC 480-609236/1			19:00	X																			
IC 480-609236/2			19:00	X																			
IC 480-609236/3			19:00	X																			
IC 480-609236/4			19:00	X																			
IC 480-609236/5			19:00	X																			
IC 480-609236/6			19:00	X																			
IC 480-609236/7			19:00	X																			
IC 480-609236/8			19:01	X																			
ICB 480-609236/9	1		19:01	X																			
ICV 480-609236/10	1		19:01	X																			
CCB 480-609236/11			19:53																				
CCV 480-609236/12			19:53																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:57																				
ZZZZZZ			19:57																				
CCB 480-609236/17			19:57																				
CCV 480-609236/18			19:58																				
ZZZZZZ			19:58																				
ZZZZZZ			19:58																				
ZZZZZZ			19:59																				
ZZZZZZ			19:59																				
CCB 480-609236/23			19:59																				
CCV 480-609236/24			19:59																				
ZZZZZZ			20:00																				
ZZZZZZ			20:00																				
ZZZZZZ			20:00																				
CCB 480-609236/28			20:01																				
CCV 480-609236/29			20:01																				
ZZZZZZ			20:01																				
ZZZZZZ			20:02																				
ZZZZZZ			20:03																				
CCB 480-609236/33			20:06																				
CCV 480-609236/34			20:06																				
ZZZZZZ			20:07																				
ZZZZZZ			20:07																				
ZZZZZZ			20:07																				
ZZZZZZ			20:08																				
CCB 480-609236/39			20:09																				
CCV 480-609236/40			20:09																				
ZZZZZZ			20:09																				
ZZZZZZ			20:10																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			20:10																				
ZZZZZZ			20:10																				
CCB 480-609236/45			20:11																				
CCV 480-609236/46			20:11																				
ZZZZZZ			20:11																				
ZZZZZZ			20:11																				
ZZZZZZ			20:13																				
ZZZZZZ			20:13																				
CCB 480-609236/51			20:14																				
CCV 480-609236/52			20:14																				
ZZZZZZ			20:15																				
ZZZZZZ			20:16																				
ZZZZZZ			20:17																				
CCB 480-609236/56			20:17																				
CCV 480-609236/57			20:17																				
ZZZZZZ			20:20																				
ZZZZZZ			20:20																				
ZZZZZZ			20:21																				
ZZZZZZ			20:21																				
CCB 480-609236/62			20:22																				
CCV 480-609236/63			20:22																				
ZZZZZZ			20:24																				
ZZZZZZ			20:24																				
ZZZZZZ			20:24																				
ZZZZZZ			20:25																				
CCB 480-609236/68			20:25																				
CCV 480-609236/69			20:26																				
ZZZZZZ			20:28																				
ZZZZZZ			20:29																				
ZZZZZZ			20:30																				
ZZZZZZ			20:31																				
CCB 480-609236/74			20:31																				
CCV 480-609236/75			20:32																				
ZZZZZZ			20:33																				
ZZZZZZ			20:34																				
ZZZZZZ			20:34																				
ZZZZZZ			20:34																				
CCB 480-609236/80			20:34																				
CCV 480-609236/81			20:35																				
ZZZZZZ			20:35																				
ZZZZZZ			20:35																				
ZZZZZZ			20:35																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			20:36																				
CCB 480-609236/86			20:36																				
CCV 480-609236/87			20:36																				
ZZZZZZ			20:36																				
ZZZZZZ			20:37																				
ZZZZZZ			20:37																				
ZZZZZZ			20:37																				
CCB 480-609236/92			20:38																				
CCV 480-609236/93			20:38																				
ZZZZZZ			20:38																				
ZZZZZZ			20:38																				
ZZZZZZ			20:39																				
CCB 480-609236/97			20:39																				
CCV 480-609236/98			20:39																				
ZZZZZZ			20:41																				
ZZZZZZ			20:41																				
ZZZZZZ			20:42																				
ZZZZZZ			20:43																				
CCB 480-609236/103			20:43																				
CCV 480-609236/104			20:44																				
ZZZZZZ			20:44																				
ZZZZZZ			20:44																				
ZZZZZZ			20:45																				
CCB 480-609236/108			20:45																				
CCV 480-609236/109			20:46																				
ZZZZZZ			20:46																				
ZZZZZZ			20:47																				
ZZZZZZ			20:47																				
ZZZZZZ			20:48																				
CCB 480-609236/114			20:50																				
CCV 480-609236/115			20:50																				
ZZZZZZ			21:01																				
ZZZZZZ			21:02																				
ZZZZZZ			21:02																				
ZZZZZZ			21:02																				
CCB 480-609236/120			21:03																				
CCV 480-609236/121			21:03																				
ZZZZZZ			21:03																				
ZZZZZZ			21:03																				
ZZZZZZ			21:04																				
ZZZZZZ			21:04																				
CCB 480-609236/126			21:04																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
CCV 480-609236/127			21:04																				
ZZZZZZ			21:04																				
ZZZZZZ			21:05																				
ZZZZZZ			21:05																				
CCB 480-609236/131			21:05																				
CCV 480-609236/132			21:05																				
ZZZZZZ			21:05																				
ZZZZZZ			21:06																				
ZZZZZZ			21:06																				
ZZZZZZ			21:06																				
CCB 480-609236/137			21:06																				
CCV 480-609236/138			21:07																				
ZZZZZZ			21:07																				
ZZZZZZ			21:07																				
ZZZZZZ			21:07																				
ZZZZZZ			21:08																				
CCB 480-609236/143			21:08																				
CCV 480-609236/144			21:08																				
ZZZZZZ			21:08																				
ZZZZZZ			21:09																				
ZZZZZZ			21:09																				
ZZZZZZ			21:09																				
CCB 480-609236/149			21:09																				
CCV 480-609236/150			21:09																				
ZZZZZZ			21:10																				
ZZZZZZ			21:11																				
ZZZZZZ			21:12																				
ZZZZZZ			21:12																				
CCB 480-609236/155			21:12																				
CCV 480-609236/156			21:12																				
ZZZZZZ			21:12																				
ZZZZZZ			21:13																				
ZZZZZZ			21:14																				
CCB 480-609236/160	1		21:14	X																			
CCV 480-609236/161	1		21:14	X																			
MB 480-609236/162	1	T	21:16	X																			
LCS 480-609236/163	1	T	21:16	X																			
CCB 480-609236/164	1		01:46	X																			
CCV 480-609236/165	1		01:46	X																			
ZZZZZZ			01:47																				
ZZZZZZ			01:47																				
ZZZZZZ			01:47																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
CCB 480-609236/169			01:48																				
CCV 480-609236/170			01:48																				
ZZZZZZ			01:48																				
ZZZZZZ			01:48																				
ZZZZZZ			01:49																				
ZZZZZZ			01:49																				
CCB 480-609236/175			02:03																				
CCV 480-609236/176			02:03																				
ZZZZZZ			02:04																				
ZZZZZZ			02:04																				
CCB 480-609236/179			02:47																				
CCV 480-609236/180			02:47																				
ZZZZZZ			02:47																				
ZZZZZZ			02:48																				
ZZZZZZ			02:48																				
CCB 480-609236/184			02:48																				
CCV 480-609236/185			02:48																				
ZZZZZZ			02:49																				
ZZZZZZ			02:50																				
ZZZZZZ			02:50																				
CCB 480-609236/189	1		02:50	X																			
CCV 480-609236/190	1		02:51	X																			
ZZZZZZ			02:51																				
ZZZZZZ			02:52																				
ZZZZZZ			02:52																				
CCB 480-609236/194	1		02:53	X																			
CCV 480-609236/195	1		02:53	X																			
ZZZZZZ			02:55																				
480-193369-1	1	T	02:55	X																			
480-193369-2	1	T	02:55	X																			
CCB 480-609236/199	1		02:55	X																			
CCV 480-609236/200	1		02:56	X																			
480-193369-3	1	T	02:56	X																			
480-193369-4	1	T	02:56	X																			
480-193369-5	1	T	02:56	X																			
CCB 480-609236/204	1		02:57	X																			
CCV 480-609236/205	1		02:57	X																			
ZZZZZZ			02:57																				
ZZZZZZ			02:59																				
CCB 480-609236/208			02:59																				
CCV 480-609236/209			03:00																				
ZZZZZZ			03:00																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			03:00																				
ZZZZZZ			03:01																				
CCB 480-609236/213			03:01																				
CCV 480-609236/214			03:01																				
ZZZZZZ			03:01																				
ZZZZZZ			03:03																				
ZZZZZZ			03:03																				
ZZZZZZ			03:03																				
CCB 480-609236/219			03:04																				
CCV 480-609236/220			03:04																				
ZZZZZZ			03:04																				
ZZZZZZ			03:05																				
ZZZZZZ			03:05																				
ZZZZZZ			03:05																				
CCB 480-609236/225			03:06																				
CCV 480-609236/226			03:06																				
ZZZZZZ			03:06																				
ZZZZZZ			03:07																				
ZZZZZZ			03:07																				
ZZZZZZ			03:07																				
CCB 480-609236/231			03:07																				
CCV 480-609236/232			03:08																				
ZZZZZZ			03:08																				
ZZZZZZ			03:08																				
ZZZZZZ			03:08																				
ZZZZZZ			03:09																				
CCB 480-609236/237			03:09																				
CCV 480-609236/238			03:09																				
ZZZZZZ			03:09																				
ZZZZZZ			03:10																				
ZZZZZZ			03:10																				
ZZZZZZ			03:10																				
CCB 480-609236/243			03:11																				
CCV 480-609236/244			03:11																				
ZZZZZZ			03:11																				
ZZZZZZ			03:12																				
CCB 480-609236/247			03:12																				
CCV 480-609236/248			03:13																				
ZZZZZZ			03:13																				
ZZZZZZ			03:13																				
ZZZZZZ			03:13																				
ZZZZZZ			03:14																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
CCB 480-609236/253			03:14																				
CCV 480-609236/254			03:14																				
ZZZZZZ			03:15																				
ZZZZZZ			03:16																				
ZZZZZZ			03:19																				
ZZZZZZ			03:20																				
CCB 480-609236/259			03:20																				
CCV 480-609236/260			03:20																				
ZZZZZZ			03:21																				
ZZZZZZ			03:21																				
ZZZZZZ			03:21																				
CCB 480-609236/264			03:22																				
CCV 480-609236/265			03:22																				
ZZZZZZ			03:22																				
ZZZZZZ			03:23																				
ZZZZZZ			03:24																				
ZZZZZZ			03:24																				
CCB 480-609236/270			03:24																				
CCV 480-609236/271			03:24																				
ZZZZZZ			03:25																				
ZZZZZZ			03:26																				
ZZZZZZ			03:27																				
CCB 480-609236/275			03:27																				
CCV 480-609236/276			03:27																				
ZZZZZZ			03:27																				
ZZZZZZ			03:28																				
ZZZZZZ			03:29																				
ZZZZZZ			03:30																				
CCB 480-609236/281			03:30																				
CCV 480-609236/282			03:31																				
ZZZZZZ			03:31																				
ZZZZZZ			03:31																				
ZZZZZZ			03:32																				
ZZZZZZ			03:32																				
CCB 480-609236/287			03:33																				
CCV 480-609236/288			03:33																				
ZZZZZZ			03:33																				
ZZZZZZ			03:34																				
ZZZZZZ			03:34																				
ZZZZZZ			03:35																				
CCB 480-609236/293			03:36																				
CCV 480-609236/294			03:36																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			03:36																				
ZZZZZZ			03:37																				
ZZZZZZ			03:38																				
ZZZZZZ			03:38																				
CCB 480-609236/299			03:38																				
CCV 480-609236/300			03:38																				
ZZZZZZ			03:39																				
ZZZZZZ			03:39																				
ZZZZZZ			03:39																				
CCB 480-609236/304			03:40																				
CCV 480-609236/305			03:40																				
ZZZZZZ			03:40																				
ZZZZZZ			03:41																				
ZZZZZZ			03:43																				
ZZZZZZ			03:45																				
CCB 480-609236/310			03:45																				
CCV 480-609236/311			03:46																				
ZZZZZZ			03:46																				
ZZZZZZ			03:47																				
CCB 480-609236/314			03:47																				
CCV 480-609236/315			03:47																				
ZZZZZZ			03:48																				
ZZZZZZ			03:48																				
ZZZZZZ			03:48																				
ZZZZZZ			03:49																				
CCB 480-609236/320			03:58																				
CCV 480-609236/321			03:58																				
ZZZZZZ			03:59																				
CCB 480-609236/323			03:59																				
CCV 480-609236/324			03:59																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Balance-3 Method: SM 2540C

Start Date: 12/14/2021 11:17 End Date: 12/14/2021 11:17

Lab Sample ID	D / F	Type	Time	Analytes																				
				TDS																				
MB 480-608781/1	1	T	11:17	X																				
LCS 480-608781/2	1	T	11:17	X																				
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
480-193369-4	1	T	11:17	X																				
480-193369-5	1	T	11:17	X																				
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					
ZZZZZZ			11:17																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Balance-3 Method: SM 2540C

Start Date: 12/15/2021 09:42 End Date: 12/15/2021 09:42

Lab Sample ID	D / F	Type	Time	Analytes																			
				TDS																			
MB 480-608941/1	1	T	09:42	X																			
LCS 480-608941/2	1	T	09:42	X																			
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
480-193369-1	1	T	09:42	X																			
480-193369-2	1	T	09:42	X																			
480-193369-3	1	T	09:42	X																			
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				
ZZZZZZ			09:42																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				CL-																			
ZZZZZZ			17:57																				
ZZZZZZ			17:57																				
ZZZZZZ			17:57																				
ZZZZZZ			17:58																				
ZZZZZZ			17:58																				
ZZZZZZ			17:58																				
ZZZZZZ			17:58																				
ICB 480-608717/8	1		17:59	X																			
CCB 480-608717/9			19:09																				
CCV 480-608717/10			19:10																				
ZZZZZZ			19:10																				
ZZZZZZ			19:10																				
ZZZZZZ			19:11																				
ZZZZZZ			19:11																				
ZZZZZZ			19:11																				
ZZZZZZ			19:12																				
ZZZZZZ			19:12																				
ZZZZZZ			19:13																				
CCB 480-608717/19			19:13																				
CCV 480-608717/20			19:13																				
ZZZZZZ			19:14																				
ZZZZZZ			19:14																				
ZZZZZZ			19:14																				
ZZZZZZ			19:15																				
ZZZZZZ			19:15																				
ZZZZZZ			19:16																				
ZZZZZZ			19:16																				
CCB 480-608717/28			19:17																				
CCV 480-608717/29			19:17																				
ZZZZZZ			19:17																				
ZZZZZZ			19:18																				
ZZZZZZ			19:18																				
ZZZZZZ			19:18																				
ZZZZZZ			19:18																				
ZZZZZZ			19:19																				
ZZZZZZ			19:19																				
ZZZZZZ			19:20																				
ZZZZZZ			19:20																				
ZZZZZZ			19:20																				
CCB 480-608717/40			19:21																				
CCV 480-608717/41			19:21																				
ZZZZZZ			19:22																				

ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			19:22																				
ZZZZZZ			19:23																				
ZZZZZZ			19:23																				
ZZZZZZ			19:24																				
ZZZZZZ			19:24																				
ZZZZZZ			19:24																				
ZZZZZZ			19:24																				
CCB 480-608717/50			19:25																				
CCV 480-608717/51			19:26																				
ZZZZZZ			19:26																				
ZZZZZZ			19:26																				
ZZZZZZ			19:27																				
ZZZZZZ			19:27																				
ZZZZZZ			19:27																				
ZZZZZZ			19:28																				
ZZZZZZ			19:31																				
ZZZZZZ			19:37																				
CCB 480-608717/60			19:37																				
CCV 480-608717/61			19:38																				
ZZZZZZ			19:38																				
ZZZZZZ			19:38																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				
ZZZZZZ			19:40																				
ZZZZZZ			19:40																				
ZZZZZZ			19:40																				
ZZZZZZ			19:41																				
ZZZZZZ			19:41																				
CCB 480-608717/72			19:44																				
CCV 480-608717/73			19:44																				
ZZZZZZ			19:44																				
ZZZZZZ			19:45																				
ZZZZZZ			19:49																				
ZZZZZZ			19:50																				
CCB 480-608717/78			19:50																				
CCV 480-608717/79			19:51																				
ZZZZZZ			19:51																				
ZZZZZZ			19:51																				
ZZZZZZ			19:51																				
ZZZZZZ			19:52																				
ZZZZZZ			19:52																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			19:52																				
ZZZZZZ			19:53																				
ZZZZZZ			19:53																				
ZZZZZZ			19:54																				
ZZZZZZ			19:54																				
CCB 480-608717/90			19:55																				
CCV 480-608717/91			19:55																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			20:01																				
ZZZZZZ			20:01																				
ZZZZZZ			20:04																				
ZZZZZZ			20:05																				
ZZZZZZ			20:05																				
CCB 480-608717/100			20:06																				
CCV 480-608717/101			20:06																				
ZZZZZZ			20:06																				
ZZZZZZ			20:06																				
ZZZZZZ			20:07																				
ZZZZZZ			20:07																				
ZZZZZZ			20:07																				
ZZZZZZ			20:08																				
ZZZZZZ			20:08																				
ZZZZZZ			20:08																				
ZZZZZZ			20:09																				
ZZZZZZ			20:09																				
CCB 480-608717/112			20:10																				
CCV 480-608717/113			20:10																				
ZZZZZZ			20:11																				
ZZZZZZ			20:11																				
ZZZZZZ			20:11																				
ZZZZZZ			20:12																				
ZZZZZZ			20:12																				
ZZZZZZ			20:12																				
ZZZZZZ			20:12																				
ZZZZZZ			20:13																				
ZZZZZZ			20:13																				
ZZZZZZ			20:17																				
CCB 480-608717/124			20:17																				
CCV 480-608717/125			20:18																				
ZZZZZZ			20:18																				

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			20:18																				
ZZZZZZ			20:19																				
ZZZZZZ			20:19																				
ZZZZZZ			20:21																				
ZZZZZZ			20:21																				
ZZZZZZ			20:27																				
ZZZZZZ			20:27																				
ZZZZZZ			20:31																				
CCB 480-608717/135			20:31																				
CCV 480-608717/136			20:32																				
ZZZZZZ			20:32																				
ZZZZZZ			20:32																				
ZZZZZZ			20:37																				
ZZZZZZ			05:00																				
ZZZZZZ			05:01																				
ZZZZZZ			05:01																				
ZZZZZZ			05:01																				
ZZZZZZ			05:02																				
ZZZZZZ			05:02																				
CCB 480-608717/146			05:02																				
CCV 480-608717/147			05:03																				
ZZZZZZ			05:03																				
ZZZZZZ			05:03																				
ZZZZZZ			05:04																				
ZZZZZZ			05:04																				
ZZZZZZ			05:04																				
ZZZZZZ			05:10																				
ZZZZZZ			05:19																				
CCB 480-608717/155			05:56																				
CCV 480-608717/156			05:56																				
ZZZZZZ			05:56																				
ZZZZZZ			05:57																				
ZZZZZZ			05:58																				
ZZZZZZ			05:58																				
ZZZZZZ			05:58																				
ZZZZZZ			05:59																				
ZZZZZZ			05:59																				
ZZZZZZ			06:01																				
ZZZZZZ			06:01																				
ZZZZZZ			06:01																				
CCB 480-608717/167			06:03																				
CCV 480-608717/168			06:03																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			06:04																				
ZZZZZZ			06:04																				
ZZZZZZ			06:06																				
ZZZZZZ			06:06																				
ZZZZZZ			06:07																				
ZZZZZZ			06:07																				
ZZZZZZ			06:07																				
ZZZZZZ			06:16																				
ZZZZZZ			06:16																				
CCB 480-608717/178			06:16																				
CCV 480-608717/179			06:17																				
ZZZZZZ			06:17																				
ZZZZZZ			06:17																				
ZZZZZZ			06:19																				
ZZZZZZ			06:20																				
CCB 480-608717/184			06:22																				
CCV 480-608717/185			06:23																				
ZZZZZZ			06:23																				
ZZZZZZ			06:23																				
ZZZZZZ			06:25																				
ZZZZZZ			06:25																				
ZZZZZZ			06:26																				
ZZZZZZ			06:28																				
ZZZZZZ			06:29																				
ZZZZZZ			06:32																				
ZZZZZZ			06:32																				
ZZZZZZ			06:32																				
CCB 480-608717/196			06:33																				
CCV 480-608717/197			06:34																				
ZZZZZZ			06:34																				
ZZZZZZ			06:34																				
ZZZZZZ			06:35																				
ZZZZZZ			06:35																				
ZZZZZZ			06:35																				
CCB 480-608717/203			06:36																				
CCV 480-608717/204			06:37																				
ZZZZZZ			06:37																				
ZZZZZZ			06:38																				
ZZZZZZ			06:39																				
ZZZZZZ			06:39																				
ZZZZZZ			06:39																				
ZZZZZZ			06:40																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			06:40																				
ZZZZZZ			06:40																				
ZZZZZZ			06:41																				
ZZZZZZ			06:41																				
CCB 480-608717/215			06:41																				
CCV 480-608717/216			06:42																				
ZZZZZZ			06:42																				
ZZZZZZ			06:42																				
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
ZZZZZZ			06:43																				
ZZZZZZ			06:44																				
ZZZZZZ			06:46																				
ZZZZZZ			06:46																				
ZZZZZZ			06:48																				
CCB 480-608717/226			06:48																				
CCV 480-608717/227			06:49																				
ZZZZZZ			06:49																				
ZZZZZZ			06:49																				
ZZZZZZ			06:50																				
ZZZZZZ			06:51																				
ZZZZZZ			06:51																				
ZZZZZZ			06:51																				
ZZZZZZ			06:55																				
ZZZZZZ			06:55																				
CCB 480-608717/236	1		06:56	X																			
CCV 480-608717/237	1		06:57	X																			
ZZZZZZ			06:57																				
MB 480-608717/239	1	T	06:57	X																			
ZZZZZZ			06:58																				
ZZZZZZ			06:58																				
ZZZZZZ			06:58																				
ZZZZZZ			06:59																				
ZZZZZZ			06:59																				
CCB 480-608717/245	1		07:02	X																			
CCV 480-608717/246	1		07:02	X																			
LCS 480-608717/247	1	T	07:03	X																			
MB 480-608717/248	1	T	07:03	X																			
ZZZZZZ			07:03																				
ZZZZZZ			07:04																				
ZZZZZZ			07:04																				
ZZZZZZ			07:06																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				CL-																			
ZZZZZZ			07:06																				
ZZZZZZ			07:07																				
ZZZZZZ			07:07																				
ZZZZZZ			07:07																				
CCB 480-608717/257	1		07:08	X																			
CCV 480-608717/258	1		07:08	X																			
LCS 480-608717/259	1	T	07:08	X																			
MB 480-608717/260	1	T	07:09	X																			
ZZZZZZ			07:09																				
ZZZZZZ			07:11																				
ZZZZZZ			07:13																				
ZZZZZZ			07:13																				
480-193369-1	1	T	07:14	X																			
ZZZZZZ			07:15																				
ZZZZZZ			07:15																				
ZZZZZZ			07:16																				
CCB 480-608717/269	1		07:16	X																			
CCV 480-608717/270	1		07:17	X																			
LCS 480-608717/271	1	T	07:18	X																			
MB 480-608717/272	1	T	07:18	X																			
ZZZZZZ			07:20																				
ZZZZZZ			07:20																				
ZZZZZZ			07:20																				
ZZZZZZ			07:21																				
480-193369-2	1	T	07:21	X																			
CCB 480-608717/278	1		07:22	X																			
CCV 480-608717/279	1		07:22	X																			
LCS 480-608717/280	1	T	07:22	X																			
MB 480-608717/281	1	T	07:22	X																			
ZZZZZZ			07:23																				
ZZZZZZ			07:23																				
ZZZZZZ			07:23																				
ZZZZZZ			07:24																				
ZZZZZZ			07:24																				
480-193369-4	1	T	07:25	X																			
480-193369-5	1	T	07:25	X																			
ZZZZZZ			07:25																				
CCB 480-608717/290	1		07:26	X																			
CCV 480-608717/291	1		07:26	X																			
ZZZZZZ			07:26																				
MB 480-608717/293	1	T	07:27	X																			
CCB 480-608717/294	1		07:42	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/14/2021 07:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
CCV 480-608717/295	1		07:42	X																			
LCS 480-608717/296	1	T	07:43	X																			
MB 480-608717/297	1	T	07:43	X																			
ZZZZZZ			07:43																				
ZZZZZZ			07:43																				
ZZZZZZ			07:44																				
ZZZZZZ			07:44																				
480-193369-3	2	T	07:44	X																			
CCB 480-608717/303	1		07:45	X																			
CCV 480-608717/304	1		07:45	X																			
ZZZZZZ			07:45																				
ZZZZZZ			07:46																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: BOD2 Method: SM 5210B

Start Date: 12/13/2021 19:56 End Date: 12/13/2021 19:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				BOD																			
USB 480-608699/1	1	T	19:56	X																			
LCS 480-608699/2	1	T	19:56	X																			
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
480-193369-1	1	T	19:56	X																			
480-193369-2	1	T	19:56	X																			
480-193369-3	1	T	19:56	X																			
480-193369-4	1	T	19:56	X																			
480-193369-5	1	T	19:56	X																			
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: TOC10301 Method: SM 5310C

Start Date: 12/14/2021 16:08 End Date: 12/15/2021 10:17

Lab Sample ID	D / F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
RINSE 480-608965/1			16:08																					
CCV 480-608965/2			16:23																					
CCB 480-608965/3			16:38																					
ZZZZZZ			16:53																					
ZZZZZZ			17:09																					
ZZZZZZ			17:24																					
ZZZZZZ			17:39																					
ZZZZZZ			17:54																					
ZZZZZZ			18:09																					
ZZZZZZ			18:24																					
ZZZZZZ			18:40																					
ZZZZZZ			18:55																					
ZZZZZZ			19:11																					
CCV 480-608965/14			19:26																					
CCB 480-608965/15			19:42																					
ZZZZZZ			19:56																					
ZZZZZZ			20:12																					
ZZZZZZ			20:27																					
ZZZZZZ			20:43																					
ZZZZZZ			20:58																					
ZZZZZZ			21:13																					
ZZZZZZ			21:29																					
ZZZZZZ			21:44																					
ZZZZZZ			21:59																					
ZZZZZZ			22:15																					
CCV 480-608965/26	1		22:30	X	X	X																		
CCB 480-608965/27	1		22:45	X	X	X																		
MB 480-608965/28	1	T	23:01	X	X	X																		
LCS 480-608965/29	1	T	23:16	X	X	X																		
480-193369-1	1	T	23:31	X	X	X																		
480-193369-1 MS	1	T	23:46	X	X	X																		
480-193369-1 MSD	1	T	00:01	X	X	X																		
480-193369-2	1	T	00:17	X	X	X																		
480-193369-3	1	T	00:32	X	X	X																		
480-193369-4	1	T	00:47	X	X	X																		
480-193369-5	1	T	01:02	X	X	X																		
ZZZZZZ			01:18																					
CCV 480-608965/38	1		01:34	X	X	X																		
CCB 480-608965/39	1		01:49	X	X	X																		
ZZZZZZ			02:04																					
ZZZZZZ			02:19																					
ZZZZZZ			02:35																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Instrument ID: TOC10301 Method: SM 5310C

Start Date: 12/14/2021 16:08 End Date: 12/15/2021 10:17

Lab Sample ID	D / F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
ZZZZZZ			02:50																					
ZZZZZZ			03:05																					
ZZZZZZ			03:21																					
ZZZZZZ			03:36																					
ZZZZZZ			03:51																					
ZZZZZZ			04:07																					
ZZZZZZ			04:22																					
CCV 480-608965/50			04:38																					
CCB 480-608965/51			04:53																					
ZZZZZZ			05:09																					
ZZZZZZ			05:24																					
ZZZZZZ			05:39																					
ZZZZZZ			05:54																					
ZZZZZZ			06:09																					
ZZZZZZ			06:25																					
ZZZZZZ			06:41																					
ZZZZZZ			06:56																					
ZZZZZZ			07:12																					
ZZZZZZ			07:27																					
CCV 480-608965/62			07:42																					
CCB 480-608965/63			07:58																					
ZZZZZZ			08:13																					
ZZZZZZ			08:29																					
ZZZZZZ			08:44																					
ZZZZZZ			09:00																					
ZZZZZZ			09:15																					
ZZZZZZ			09:30																					
CCV 480-608965/70			09:45																					
CCB 480-608965/71			10:01																					
CCVL 480-608965/72			10:17																					

Prep Types

T = Total/NA

General Chemistry Raw Data Report

Job ID: 480-193369-1
SDG: 193337

Batch: 609392
Method: 410.4

Analyst Initials: CSS
Instrument: Skalar SP2000 ST-COD Robotic Analyzer

Lab Sample ID: CCV 480-609392/2

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	76.72	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-609392/3

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	4.97	mg/L	2 mL	2 mL

Lab Sample ID: MB 480-609392/4

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	1.46	mg/L	2 mL	2 mL

Lab Sample ID: LCS 480-609392/5

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	26.35	mg/L	2 mL	2 mL

Lab Sample ID: CCV 480-609392/14

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	73.07	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-609392/15

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	4.07	mg/L	2 mL	2 mL

Lab Sample ID: 480-193369-C-1

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	9.11	mg/L	2 mL	2 mL

Lab Sample ID: 480-193369-C-2

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	11.54	mg/L	2 mL	2 mL

Lab Sample ID: 480-193369-C-3

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	6.08	mg/L	2 mL	2 mL

Lab Sample ID: 480-193369-C-4

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	1.46	mg/L	2 mL	2 mL

Batch: 609392 (Continued)
Method: 410.4

Analyst Initials: CSS
Instrument: Skalar SP2000 ST-COD Robotic Analyzer

Lab Sample ID: 480-193369-C-5

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	5.53	mg/L	2 mL	2 mL

Lab Sample ID: CCV 480-609392/26

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	77.21	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-609392/27

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	1.46	mg/L	2 mL	2 mL

Batch: 608674
Method: 7196A

Analyst Initials: MJB
Instrument: Manual Spec

Lab Sample ID: CCV 480-608674/1

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0440	0.056463000	mg/L	25 mL	25 mL

Lab Sample ID: CCB 480-608674/2

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: MB 480-608674/3

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: LCS 480-608674/4

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0410	0.052545000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193369-J-1

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193369-J-2

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193369-J-3

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Batch: 608674 (Continued)
Method: 7196A

Analyst Initials: MJB
Instrument: Manual Spec

Lab Sample ID: CCV 480-608674/13

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0430	0.055157000	mg/L	25 mL	25 mL

Lab Sample ID: CCB 480-608674/14

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193369-J-4

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193369-J-4 MS

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0400	0.051239000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193369-J-5

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193369-J-5 DU

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: CCV 480-608674/19

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0420	0.053851000	mg/L	25 mL	25 mL

Lab Sample ID: CCB 480-608674/20

Analysis Date: Dec 13, 2021 14:10

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Batch: 608673
Method: SM 2120B

Analyst Initials: MJB
Instrument: No Equipment Used for this Test

Lab Sample ID: CCV 480-608673/1

Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: CCB 480-608673/2

Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Batch: 608673 (Continued)
Method: SM 2120B

Analyst Initials: MJB
Instrument: No Equipment Used for this Test

Lab Sample ID: MB 480-608673/3
Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Lab Sample ID: LCS 480-608673/4
Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: 480-193369-J-1
Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	5	Color Units	50 mL	50 mL

Lab Sample ID: 480-193369-J-2
Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Lab Sample ID: 480-193369-J-3
Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Lab Sample ID: 480-193369-J-4
Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	5	Color Units	50 mL	50 mL

Lab Sample ID: CCV 480-608673/13
Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: CCB 480-608673/14
Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Lab Sample ID: 480-193369-J-5
Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	5	Color Units	50 mL	50 mL

Lab Sample ID: 480-193369-J-5 DU
Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	5	Color Units	50 mL	50 mL

Lab Sample ID: CCV 480-608673/17
Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Batch: 608673 (Continued)
Method: SM 2120B

Analyst Initials: MJB
Instrument: No Equipment Used for this Test

Lab Sample ID: CCB 480-608673/18

Analysis Date: Dec 13, 2021 16:06

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Batch: 608837
Method: 353.2

Analyst Initials: PRD
Instrument: Lachat QuickChem 8500

Lab Sample ID: 480-193369-I-1

Analysis Date: Dec 14, 2021 11:38

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Lab Sample ID: 480-193369-I-3

Analysis Date: Dec 14, 2021 11:42

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Lab Sample ID: 480-193369-I-4

Analysis Date: Dec 14, 2021 11:43

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Lab Sample ID: 480-193369-I-5

Analysis Date: Dec 14, 2021 11:45

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0	mg/L	5 mL	5 mL

Lab Sample ID: 480-193369-I-2

Analysis Date: Dec 14, 2021 12:44

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Nitrate as N	UV	1	0.11	mg/L	5 mL	5 mL

Batch: 608781
Method: SM 2540C

Analyst Initials: JGO
Instrument: Balance-3

Lab Sample ID: MB 480-608781/1

Analysis Date: Dec 14, 2021 11:17

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	3	mg/L	100 mL	100 mL

Lab Sample ID: LCS 480-608781/2

Analysis Date: Dec 14, 2021 11:17

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	526	mg/L	100 mL	100 mL

Lab Sample ID: 480-193369-A-4

Analysis Date: Dec 14, 2021 11:17

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	143	mg/L	100 mL	100 mL

Batch: 608781 (Continued)
Method: SM 2540C

Analyst Initials: JGO
Instrument: Balance-3

Lab Sample ID: 480-193369-A-5

Analysis Date: Dec 14, 2021 11:17

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	192	mg/L	100 mL	100 mL

Batch: 608941
Method: SM 2540C

Analyst Initials: EJL
Instrument: Balance-3

Lab Sample ID: MB 480-608941/1

Analysis Date: Dec 15, 2021 09:42

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	3	mg/L	100 mL	100 mL

Lab Sample ID: LCS 480-608941/2

Analysis Date: Dec 15, 2021 09:42

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	486	mg/L	100 mL	100 mL

Lab Sample ID: 480-193369-A-1

Analysis Date: Dec 15, 2021 09:42

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	242	mg/L	100 mL	100 mL

Lab Sample ID: 480-193369-A-2

Analysis Date: Dec 15, 2021 09:42

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	350	mg/L	100 mL	100 mL

Lab Sample ID: 480-193369-A-3

Analysis Date: Dec 15, 2021 09:42

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	696	mg/L	100 mL	100 mL

Batch: 608699
Method: SM 5210B

Analyst Initials: SRW
Instrument: BOD AutoAnalyzer

Lab Sample ID: USB 480-608699/1

Analysis Date: Dec 13, 2021 19:56

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	.51	mg/L	300 mL	300 mL

Lab Sample ID: LCS 480-608699/2

Analysis Date: Dec 13, 2021 19:56

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	201.13	mg/L	300 mL	300 mL

Lab Sample ID: 480-193369-A-1

Analysis Date: Dec 13, 2021 19:56

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<.10	mg/L	300 mL	300 mL

Batch: 608699 (Continued)
Method: SM 5210B

Analyst Initials: SRW
Instrument: BOD AutoAnalyzer

Lab Sample ID: 480-193369-A-2

Analysis Date: Dec 13, 2021 19:56

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	2.17	mg/L	300 mL	300 mL

Lab Sample ID: 480-193369-A-3

Analysis Date: Dec 13, 2021 19:56

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<.61	mg/L	300 mL	300 mL

Lab Sample ID: 480-193369-A-4

Analysis Date: Dec 13, 2021 19:56

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<.10	mg/L	300 mL	300 mL

Lab Sample ID: 480-193369-A-5

Analysis Date: Dec 13, 2021 19:56

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<.05	mg/L	300 mL	300 mL

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Wet Chemistry Dept

Analysis: Alkalinity

Method: 310.2

Analyst/Primary Reviewer: SRW

Secondary Reviewer: _____

Date of Analytical Run: 12/15/21

Date of Primary Review: 12/16/21

Date of Secondary Review: _____

Prep Batch Number					
Analytical Batch Number	609054				

Criteria for QC	1st Level	2nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, r > or = 0.995, pH meter slope 90-110% (if applicable)	Y			
Was Data Imported Y Manually Entered ____ Balance Interface Used ____	Impt			
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Y			
Were the ICB, CCB and MB all <RL?	Y			
Was there a CCV/CCB combination run after every 10 samples or less?	Y			
Was there an LCS run with every batch of 20 samples or less?	Y			
Was there a DU, MS or MSD run with every batch of 20 samples or less?	Y			
Were all MS/MSD results within acceptable limits for QC recovery?	N			
Were all DU or MSD RPDs within acceptable limits for QC recovery?	Y			
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	Y			
Are dilution factors all present and correct?	Y			
Do all entries match raw data?	Y			
Were there any holding time violations in this batch?	N			**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y			
Were any NCMs needed in the batch?				NCM #s:
Data scanned in?	Y			

Alkalinity

310.2

1000 PPM (MS/MSD/CAL)	6791877	EXP: 02/22/2022
50 PPM (CCV/LCS)	6791927	EXP: 02/22/2022
Alk. Mix:	6819148	EXP: 12/16/2021
3.1 Buffer	6808866	EXP: 12/16/2021
Methyl orange	6791876	EXP: 12/20/2021
ERA Minerals (ICV):	6318066	EXP: 04/01/2023
Actual = 32.3 MG/L		
RANGE = 29.3 – 34.9 MG/L		

CURVE:

Kone 1: 06-13-2019 — Batch: 478010
100 ppm: 5352372

Kone 2: 06-23-2020 — Batch: 537780
100 ppm: 5986445

Kone 3: 01-28-2020 — Batch: 515266
100 ppm: 5749493

Gallery 1: 11-22-2021 — Batch: 606148
100 ppm: 6791932

Calibration results

ALK Version number 1.4

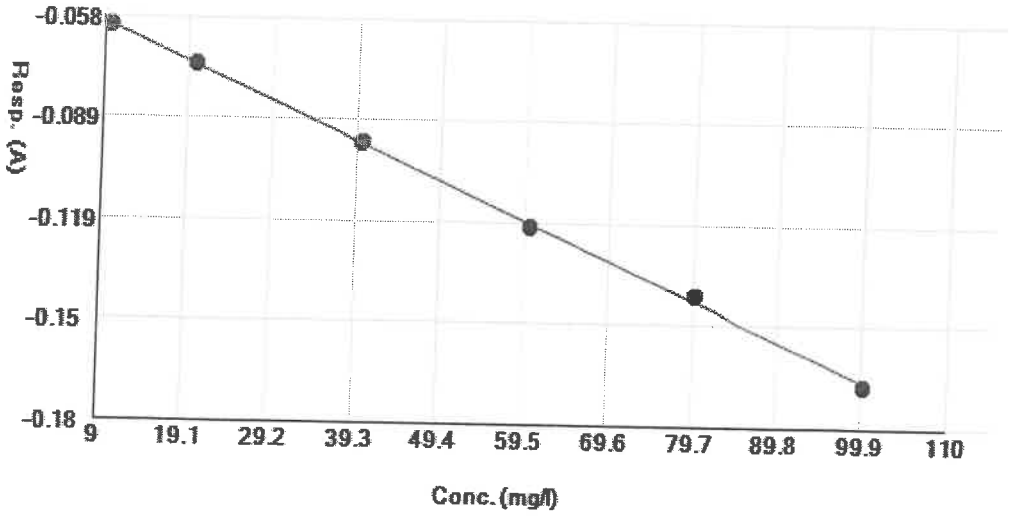
Date 12/15/2021 **User** BufGallery1

Time 7:47:16PM **Software version: 6.0.2**

Analyzer name Analyzer 1

Test	ALK	**Coeff. of deter.**	0.999317
Status	Accepted	**Total factor**	-851.125
Accepted	11/22/2021 7:46 PM		
Checked	11/22/2021 7:46 PM	Zero-order factor	-0.049
User name	Administrator	1st order factor	-0.001
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
ALK 10	-0.061	10.171	10.000	Default	
ALK 20	-0.072	19.961	20.000	Default	
ALK 40	-0.095	39.755	40.000	Default	
ALK 60	-0.120	60.866	60.000	Default	
ALK 80	-0.141	78.391	80.000	Default	
ALK 100	-0.167	100.856	100.000	Default	
ALK ICV	-0.085	30.85	50.00	Default	QC, Rule 1 violated
ICB	-0.047	-1.28	0.00	Default	Outside calibration



Water blank results

Date 12/15/2021 **User** BufGallery1

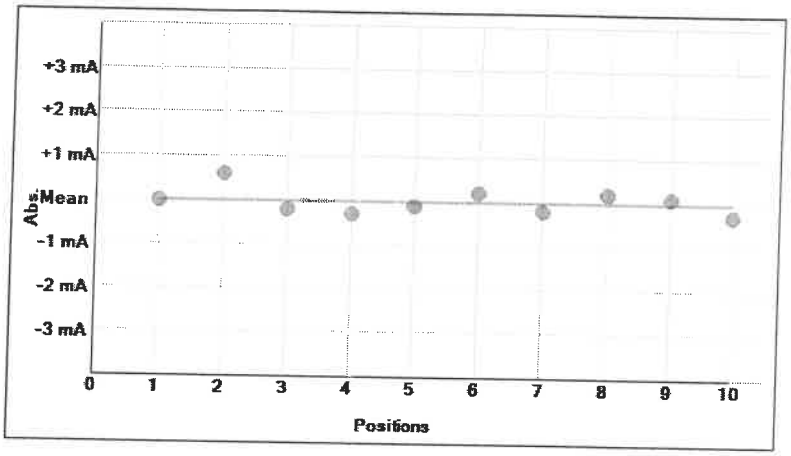
Time 9:06:43PM **Software version: 6.0.2**

Measurement time
12/15/2021 5:51 PM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1003.4**	**0.3**
420	-1036.3	0.2
480	-1046.9	0.1
510	-1050.4	0.1
540	-1054.0	0.1
575	-1057.1	0.1
600	-1058.5	0.1
620	-1059.9	0.1
660	-1062.3	0.1
700	-1063.5	0.1
880	-1046.9	0.2

340



Results by Test

Date 12/16/2021 **User** BufGallery1

Time 2:45:43AM **Software version: 6.0.2**

Test name ALK

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
5	era	1.4	33.69	mg/l		0.0	man acc	
6	CCB	1.4	1.10	mg/l		0.0	man acc	Outside calibration
7	CCV ALK	1.4	49.56	mg/l		0.0	man acc	
8	LCS ALK	1.4	53.27	mg/l		0.0	man acc	
9	MB	1.4	-3.96	mg/l		0.0	man acc	Outside calibration
14	480-192989-B-6	1.4	240.98	mg/l		2.0	man acc	
15	480-193008-E-1	1.4	225.62	mg/l		2.0	man acc	
18	480-193124-B-1	1.4	446.73	mg/l		4.0	man acc	
19	480-193124-B-2	1.4	214.41	mg/l		2.0	man acc	
20	ms480-193124-B-2	1.4	228.63	mg/l		2.0	man acc	
21	msd480-193124-B-	1.4	208.72	mg/l		2.0	man acc	
22	CCB	1.4	-1.20	mg/l		0.0	man acc	Outside calibration
23	CCV ALK	1.4	52.36	mg/l		0.0	man acc	
24	LCS ALK	1.4	52.47	mg/l		0.0	man acc	
25	MB	1.4	7.28	mg/l		0.0	man acc	Outside calibration
26	480-193124-B-3	1.4	208.18	mg/l		2.0	man acc	
27	ms480-193124-B-3	1.4	222.50	mg/l		2.0	man acc	
28	msd480-193124-B-	1.4	222.77	mg/l		2.0	man acc	
29	480-193124-B-4	1.4	205.59	mg/l		3.0	man acc	
30	480-193124-B-5	1.4	352.93	mg/l		3.0	man acc	
31	480-193124-B-6	1.4	177.57	mg/l		2.0	man acc	
32	480-193124-B-7	1.4	573.52	mg/l		6.0	man acc	
33	480-193124-B-8	1.4	263.05	mg/l		2.0	man acc	
34	CCB	1.4	4.14	mg/l		0.0	man acc	Outside calibration
35	CCV ALK	1.4	52.68	mg/l		0.0	man acc	
36	LCS ALK	1.4	51.91	mg/l		0.0	man acc	
37	MB	1.4	6.41	mg/l		0.0	man acc	Outside calibration
38	480-193124-B-9	1.4	491.59	mg/l		5.0	man acc	
39	480-193124-B-10	1.4	86.82	mg/l		0.0	man acc	
40	480-193124-B-11	1.4	163.11	mg/l		2.0	man acc	
41	ms480-193124-B-1	1.4	138.30	mg/l		2.0	man acc	
42	msd480-193124-B-	1.4	151.70	mg/l		2.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
43	480-193127-D-1	1.4	868.91	mg/l		14.0	man acc	
44	CCB	1.4	2.75	mg/l		0.0	man acc	Outside calibration
45	CCV ALK	1.4	52.42	mg/l		0.0	man acc	
46	LCS ALK	1.4	52.38	mg/l		0.0	man acc	
47	MB	1.4	1.87	mg/l		0.0	man acc	Outside calibration
48	480-193127-D-2	1.4	1,489.38	mg/l		19.0	man acc	
49	480-193127-D-3	1.4	1,658.60	mg/l		19.0	man acc	
50	480-193138-D-1	1.4	3,426.91	mg/l		39.0	man acc	
51	480-193173-D-2	1.4	8,502.69	mg/l		99.0	man acc	
52	480-193199-G-1	1.4	945.50	mg/l		9.0	man acc	
53	480-193199-G-2	1.4	660.71	mg/l		7.0	man acc	
54	CCB	1.4	3.16	mg/l		0.0	man acc	Outside calibration
56	CCV ALK	1.4	53.77	mg/l		0.0	man acc	
59	LCS ALK	1.4	52.34	mg/l		0.0	man acc	
60	MB	1.4	0.68	mg/l		0.0	man acc	Outside calibration
61	480-193099-L-8	1.4	126.73	mg/l		1.0	man acc	
62	480-193099-L-9	1.4	167.08	mg/l		1.0	man acc	
63	msd480-193199-G-	1.4	388.76	mg/l		4.0	man acc	
64	480-193199-G-5	1.4	2,456.88	mg/l		29.0	man acc	
65	480-193199-G-6	1.4	266.59	mg/l		3.0	man acc	
66	CCB	1.4	-3.56	mg/l		0.0	man acc	Outside calibration
71	CCV ALK	1.4	49.84	mg/l		0.0	man acc	
72	LCS ALK	1.4	51.46	mg/l		0.0	man acc	
73	MB	1.4	-0.42	mg/l		0.0	man acc	Outside calibration
74	480-193203-G-2	1.4	369.23	mg/l		4.0	man acc	
75	480-193206-K-1	1.4	176.35	mg/l		2.0	man acc	
76	ms480-193206-K-1	1.4	177.19	mg/l		2.0	man acc	
77	msd480-193206-K-	1.4	185.66	mg/l		2.0	man acc	
78	480-193206-K-2	1.4	244.45	mg/l		3.0	man acc	
79	480-193206-K-5	1.4	139.48	mg/l		3.0	man acc	
80	480-193206-K-6	1.4	466.24	mg/l		4.0	man acc	
81	480-193206-K-7	1.4	133.19	mg/l		2.0	man acc	
82	CCB	1.4	3.25	mg/l		0.0	man acc	Outside calibration
83	CCV ALK	1.4	48.87	mg/l		0.0	man acc	
84	LCS ALK	1.4	48.64	mg/l		0.0	man acc	
85	MB	1.4	-0.38	mg/l		0.0	man acc	Outside calibration
86	480-193206-K-8	1.4	175.76	mg/l		2.0	man acc	
87	ms480-193206-K-8	1.4	174.00	mg/l		2.0	man acc	
88	msd480-193206-K-	1.4	171.78	mg/l		2.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
90	480-193206-K-11	1.4	145.65	mg/l		1.0	man acc	
91	480-193206-K-12	1.4	134.00	mg/l		1.0	man acc	
93	480-193237-E-1	1.4	3,890.60	mg/l		39.0	man acc	
94	CCB	1.4	2.57	mg/l		0.0	man acc	Outside calibration
95	CCV ALK	1.4	51.93	mg/l		0.0	man acc	
96	LCS ALK	1.4	51.43	mg/l		0.0	man acc	
97	MB	1.4	-1.26	mg/l		0.0	man acc	Outside calibration
98	480-193238-E-1	1.4	7,638.09	mg/l		99.0	man acc	
100	480-193239-C-2	1.4	434.12	mg/l		4.0	man acc	
102	480-193239-C-4	1.4	351.95	mg/l		4.0	man acc	
103	480-193239-C-5	1.4	377.64	mg/l		4.0	man acc	
104	480-193239-C-6	1.4	364.18	mg/l		4.0	man acc	
105	480-193239-C-7	1.4	355.49	mg/l		4.0	man acc	
106	CCB	1.4	-1.03	mg/l		0.0	man acc	Outside calibration
107	CCV ALK	1.4	50.69	mg/l		0.0	man acc	
108	LCS ALK	1.4	50.09	mg/l		0.0	man acc	
109	MB	1.4	1.28	mg/l		0.0	man acc	Outside calibration
110	480-193239-C-8	1.4	315.46	mg/l		4.0	man acc	
111	480-193241-I-1	1.4	5.37	mg/l		0.0	man acc	Outside calibration
112	ms480-193241-I-1	1.4	24.44	mg/l		0.0	man acc	
113	msd480-193241-I-1	1.4	23.27	mg/l		0.0	man acc	
114	480-193241-I-2	1.4	33.03	mg/l		0.0	man acc	
115	480-193241-I-3	1.4	12.00	mg/l		0.0	man acc	
116	ms480-193241-I-3	1.4	32.93	mg/l		0.0	man acc	
117	msd480-193241-I-3	1.4	36.86	mg/l		0.0	man acc	
118	CCB	1.4	-0.08	mg/l		0.0	man acc	Outside calibration
119	CCV ALK	1.4	51.61	mg/l		0.0	man acc	
120	LCS ALK	1.4	51.46	mg/l		0.0	man acc	
121	MB	1.4	4.16	mg/l		0.0	man acc	Outside calibration
122	480-193241-I-4	1.4	41.09	mg/l		0.0	man acc	
123	480-193241-I-5	1.4	72.18	mg/l		0.0	man acc	
124	480-193241-I-6	1.4	21.30	mg/l		0.0	man acc	
125	480-193242-C-1	1.4	359.97	mg/l		4.0	man acc	
126	480-193242-C-2	1.4	299.28	mg/l		3.0	man acc	
127	480-193242-C-3	1.4	400.51	mg/l		4.0	man acc	
129	480-193243-I-2	1.4	61.65	mg/l		0.0	man acc	
130	CCB	1.4	0.56	mg/l		0.0	man acc	Outside calibration
131	CCV ALK	1.4	48.43	mg/l		0.0	man acc	
132	LCS ALK	1.4	50.67	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
133	MB	1.4	1.29	mg/l		0.0	man acc	Outside calibration
134	480-193245-C-1	1.4	272.68	mg/l		3.0	man acc	
135	480-193245-C-2	1.4	313.89	mg/l		3.0	man acc	
136	480-193245-C-3	1.4	312.46	mg/l		3.0	man acc	
138	480-193248-F-1	1.4	312.51	mg/l		3.0	man acc	
146	CCB	1.4	1.23	mg/l		0.0	man acc	Outside calibration
147	CCV ALK	1.4	50.76	mg/l		0.0	man acc	
148	LCS ALK	1.4	52.96	mg/l		0.0	man acc	
149	MB	1.4	1.68	mg/l		0.0	man acc	Outside calibration
150	480-193248-F-2	1.4	360.60	mg/l		3.0	man acc	
152	480-193255-D-1	1.4	5,352.29	mg/l		59.0	man acc	
153	480-193239-C-1	1.4	563.70	mg/l		9.0	man acc	
154	480-193239-C-3	1.4	606.25	mg/l		9.0	man acc	
155	480-193229-C-1	1.4	134.82	mg/l		1.0	man acc	
166	480-193266-D-10	1.4	185.24	mg/l		1.0	man acc	
167	ms480-193266-D-1	1.4	189.03	mg/l		1.0	man acc	
168	msd480-193266-D-	1.4	191.25	mg/l		1.0	man acc	
169	CCB	1.4	0.76	mg/l		0.0	man acc	Outside calibration
170	CCV ALK	1.4	49.77	mg/l		0.0	man acc	
171	LCS ALK	1.4	51.22	mg/l		0.0	man acc	
172	MB	1.4	1.37	mg/l		0.0	man acc	Outside calibration
173	480-193199-G-3	1.4	2,424.36	mg/l		29.0	man acc	
174	480-193173-D-1	1.4	6,292.92	mg/l		69.0	man acc	
175	480-193199-G-4	1.4	368.17	mg/l		4.0	man acc	
176	ms480-193199-G-4	1.4	394.65	mg/l		4.0	man acc	
177	480-193199-G-7	1.4	1,236.39	mg/l		14.0	man acc	
178	480-193199-G-8	1.4	271.75	mg/l		3.0	man acc	
179	480-193203-G-1	1.4	2,503.90	mg/l		29.0	man acc	
180	480-193206-K-9	1.4	84.23	mg/l		1.0	man acc	
181	CCB	1.4	2.73	mg/l		0.0	man acc	Outside calibration
182	CCV ALK	1.4	48.73	mg/l		0.0	man acc	
183	LCS ALK	1.4	52.35	mg/l		0.0	man acc	
184	MB	1.4	0.58	mg/l		0.0	man acc	Outside calibration
185	480-193247-E-1	1.4	11,103.61	mg/l		199.0	man acc	
186	480-193253-E-1	1.4	4,243.49	mg/l		59.0	man acc	
191	480-193264-G-1	1.4	1,937.64	mg/l		19.0	man acc	
196	480-193243-I-1	1.4	295.02	mg/l		4.0	man acc	
197	CCB	1.4	0.78	mg/l		0.0	man acc	Outside calibration
198	CCV ALK	1.4	52.52	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
199	LCS ALK	1.4	49.43	mg/l		0.0	man acc	
200	MB	1.4	-1.08	mg/l		0.0	man acc	Outside calibration
210	480-193264-G-3	1.4	270.09	mg/l		4.0	man acc	
213	480-193264-G-6	1.4	1,916.44	mg/l		19.0	man acc	
214	480-193265-G-3	1.4	278.12	mg/l		3.0	man acc	
216	480-193265-G-2	1.4	605.63	mg/l		7.0	man acc	
217	480-193264-G-7	1.4	350.03	mg/l		4.0	man acc	
220	480-193265-G-1	1.4	311.00	mg/l		3.0	man acc	
232	CCB	1.4	-0.07	mg/l		0.0	man acc	Outside calibration
233	CCV ALK	1.4	52.75	mg/l		0.0	man acc	
234	LCS ALK	1.4	52.61	mg/l		0.0	man acc	
235	MB	1.4	-0.34	mg/l		0.0	man acc	Outside calibration
238	480-193293-C-1	1.4	196.47	mg/l		4.0	man acc	
239	480-193310-G-4	1.4	5.00	mg/l		0.0	man acc	Outside calibration
240	480-193293-C-3	1.4	337.85	mg/l		4.0	man acc	
241	480-193293-C-4	1.4	383.89	mg/l		4.0	man acc	
248	480-193293-C-6	1.4	380.11	mg/l		4.0	man acc	
249	480-193293-C-7	1.4	195.21	mg/l		2.0	man acc	
250	480-193293-C-9	1.4	188.11	mg/l		2.0	man acc	
251	480-193293-C-10	1.4	434.14	mg/l		4.0	man acc	
256	CCB	1.4	5.93	mg/l		0.0	man acc	Outside calibration
257	CCV ALK	1.4	51.19	mg/l		0.0	man acc	
260	480-193310-G-1	1.4	82.97	mg/l		0.0	man acc	
262	480-193266-D-1	1.4	197.87	mg/l		1.0	man acc	
263	480-193264-G-8	1.4	1,790.38	mg/l		19.0	man acc	
264	480-193310-G-3	1.4	-5.20	mg/l		0.0	man acc	Outside calibration
265	480-193266-D-2	1.4	133.13	mg/l		1.0	man acc	
273	480-193266-D-6	1.4	178.03	mg/l		1.0	man acc	
275	480-193266-D-8	1.4	139.79	mg/l		1.0	man acc	
277	480-193310-G-7	1.4	-5.79	mg/l		0.0	man acc	Outside calibration
279	CCB	1.4	5.15	mg/l		0.0	man acc	Outside calibration
280	CCV ALK	1.4	51.67	mg/l		0.0	man acc	
281	LCS ALK	1.4	51.89	mg/l		0.0	man acc	
282	MB	1.4	0.28	mg/l		0.0	man acc	Outside calibration
283	480-193314-D-1	1.4	88.00	mg/l		0.0	man acc	
289	480-193266-D-9	1.4	164.97	mg/l		1.0	man acc	
290	480-193266-D-11	1.4	166.30	mg/l		1.0	man acc	
296	480-193310-G-5	1.4	191.88	mg/l		1.0	man acc	
299	480-193335-I-1	1.4	175.27	mg/l		1.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
300	480-193335-I-2	1.4	189.17	mg/l		2.0	man acc	
305	480-193335-I-3	1.4	185.57	mg/l		2.0	man acc	
306	480-193335-I-4	1.4	354.64	mg/l		5.0	man acc	
307	CCB	1.4	1.36	mg/l		0.0	man acc	Outside calibration
308	CCV ALK	1.4	51.66	mg/l		0.0	man acc	
309	LCS ALK	1.4	52.11	mg/l		0.0	man acc	
310	MB	1.4	2.15	mg/l		0.0	man acc	Outside calibration
311	480-193335-I-5	1.4	116.02	mg/l		1.0	man acc	
312	480-193335-I-6	1.4	175.21	mg/l		2.0	man acc	
313	480-193336-Q-1	1.4	953.11	mg/l		19.0	man acc	
314	480-193336-Q-2	1.4	3,398.60	mg/l		49.0	man acc	
315	480-193336-Q-3	1.4	2,454.11	mg/l		39.0	man acc	
316	480-193264-G-4	1.4	1,313.53	mg/l		19.0	man acc	
317	480-193336-Q-5	1.4	652.87	mg/l		19.0	man acc	
322	480-193336-Q-6	1.4	2,827.08	mg/l		39.0	man acc	
327	CCB	1.4	5.32	mg/l		0.0	man acc	Outside calibration
328	CCV ALK	1.4	50.75	mg/l		0.0	man acc	
329	LCS ALK	1.4	50.15	mg/l		0.0	man acc	
330	MB	1.4	3.20	mg/l		0.0	man acc	Outside calibration
331	480-193310-G-8	1.4	189.89	mg/l		1.0	man acc	
332	480-193317-D-1	1.4	196.90	mg/l		1.0	man acc	
333	480-193317-D-2	1.4	184.14	mg/l		1.0	man acc	
334	480-193317-D-3	1.4	161.09	mg/l		1.0	man acc	
335	480-193317-D-4	1.4	119.44	mg/l		1.0	man acc	
336	480-193317-D-5	1.4	188.98	mg/l		1.0	man acc	
337	480-193337-H-2	1.4	144.14	mg/l		1.0	man acc	
338	480-193354-C-1	1.4	345.52	mg/l		4.0	man acc	
339	CCB	1.4	2.04	mg/l		0.0	man acc	Outside calibration
340	CCV ALK	1.4	50.28	mg/l		0.0	man acc	
341	LCS ALK	1.4	52.46	mg/l		0.0	man acc	
342	MB	1.4	2.78	mg/l		0.0	man acc	Outside calibration
344	480-193317-D-7	1.4	161.17	mg/l		1.0	man acc	
345	480-193317-D-8	1.4	191.69	mg/l		1.0	man acc	
346	480-193354-C-2	1.4	365.07	mg/l		4.0	man acc	
347	480-193354-C-3	1.4	181.06	mg/l		2.0	man acc	
348	480-193354-C-4	1.4	465.39	mg/l		4.0	man acc	
349	CCB	1.4	3.63	mg/l		0.0	man acc	Outside calibration
352	CCV ALK	1.4	52.28	mg/l		0.0	man acc	
353	LCS ALK	1.4	52.04	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
354	MB	1.4	2.88	mg/l		0.0	man acc	Outside calibration
355	480-193356-B-2	1.4	684.28	mg/l		9.0	man acc	
356	480-193356-B-3	1.4	287.52	mg/l		3.0	man acc	
357	480-193264-G-5	1.4	34.05	mg/l		1.0	man acc	
358	480-193369-K-1	1.4	130.46	mg/l		1.0	man acc	
359	480-193369-K-2	1.4	338.69	mg/l		3.0	man acc	
360	480-193264-G-2	1.4	498.04	mg/l		9.0	man acc	
361	480-193293-C-5	1.4	379.63	mg/l		4.0	man acc	
362	480-193293-C-11	1.4	166.69	mg/l		1.0	man acc	
363	CCB	1.4	2.02	mg/l		0.0	man acc	Outside calibration
364	CCV ALK	1.4	52.10	mg/l		0.0	man acc	
365	LCS ALK	1.4	52.39	mg/l		0.0	man acc	
366	MB	1.4	3.19	mg/l		0.0	man acc	Outside calibration
367	480-193293-C-12	1.4	313.32	mg/l		3.0	man acc	
368	480-193293-C-13	1.4	185.74	mg/l		2.0	man acc	
369	480-193310-G-2	1.4	224.96	mg/l		4.0	man acc	
378	480-193369-K-3	1.4	559.72	mg/l		7.0	man acc	
379	480-193369-K-4	1.4	95.91	mg/l		1.0	man acc	
380	480-193369-K-5	1.4	90.71	mg/l		1.0	man acc	
385	CCB	1.4	-0.14	mg/l		0.0	man acc	Outside calibration
386	CCV ALK	1.4	48.43	mg/l		0.0	man acc	
387	LCS ALK	1.4	52.11	mg/l		0.0	man acc	
388	MB	1.4	0.30	mg/l		0.0	man acc	Outside calibration
390	480-193317-D-6	1.4	269.26	mg/l		4.0	man acc	
393	480-193444-I-1	1.4	11.79	mg/l		0.0	man acc	
395	480-193444-I-3	1.4	38.28	mg/l		0.0	man acc	
412	CCB	1.4	1.54	mg/l		0.0	man acc	Outside calibration
413	CCV ALK	1.4	53.66	mg/l		0.0	man acc	
414	LCS ALK	1.4	52.88	mg/l		0.0	man acc	
415	MB	1.4	3.97	mg/l		0.0	man acc	Outside calibration
416	480-193397-D-2	1.4	165.24	mg/l		1.0	man acc	
418	480-193397-D-3	1.4	193.24	mg/l		1.0	man acc	
419	480-193266-D-3	1.4	241.08	mg/l		4.0	man acc	
420	480-193266-D-4	1.4	255.65	mg/l		4.0	man acc	
421	480-193266-D-5	1.4	220.91	mg/l		4.0	man acc	
422	480-193266-D-7	1.4	234.36	mg/l		4.0	man acc	
423	CCB	1.4	1.96	mg/l		0.0	man acc	Outside calibration
424	CCV ALK	1.4	54.83	mg/l		0.0	man acc	
425	LCS ALK	1.4	52.58	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
426	MB	1.4	2.93	mg/l		0.0	man acc	Outside calibration
427	480-193336-Q-7	1.4	465.14	mg/l		4.0	man acc	
428	480-193337-H-1	1.4	137.55	mg/l		1.0	man acc	
429	480-193354-C-5	1.4	332.73	mg/l		4.0	man acc	
430	480-193355-C-1	1.4	394.11	mg/l		4.0	man acc	
432	480-193397-D-5	1.4	126.06	mg/l		1.0	man acc	
434	480-193397-D-7	1.4	188.65	mg/l		1.0	man acc	
441	480-193444-I-5	1.4	192.13	mg/l		1.0	man acc	
446	CCB	1.4	1.83	mg/l		0.0	man acc	Outside calibration
447	CCV ALK	1.4	53.64	mg/l		0.0	man acc	
448	LCS ALK	1.4	51.65	mg/l		0.0	man acc	
449	MB	1.4	2.44	mg/l		0.0	man acc	Outside calibration
451	480-193293-C-2	1.4	284.93	mg/l		4.0	man acc	
452	480-193293-C-8	1.4	362.66	mg/l		4.0	man acc	
453	CCB	1.4	1.88	mg/l		0.0	man acc	Outside calibration
454	CCV ALK	1.4	52.24	mg/l		0.0	man acc	
455	LCS ALK	1.4	54.21	mg/l		0.0	man acc	
456	MB	1.4	5.35	mg/l		0.0	man acc	Outside calibration
457	480-193293-C-8	1.4	389.60	mg/l		4.0	man acc	
458	480-193397-D-1	1.4	268.49	mg/l		4.0	man acc	
459	480-193397-D-4	1.4	222.33	mg/l		4.0	man acc	
460	480-193397-D-6	1.4	276.81	mg/l		4.0	man acc	
461	480-193444-I-2	1.4	472.47	mg/l		4.0	man acc	
462	480-193444-I-4	1.4	292.64	mg/l		4.0	man acc	
463	480-193444-I-6	1.4	342.05	mg/l		4.0	man acc	
468	480-193310-G-6	1.4	2,331.13	mg/l		29.0	man acc	
469	CCB	1.4	2.05	mg/l		0.0	man acc	Outside calibration
470	CCV ALK	1.4	51.84	mg/l		0.0	man acc	
471	LCS ALK	1.4	49.43	mg/l		0.0	man acc	
472	MB	1.4	-1.28	mg/l		0.0	man acc	Outside calibration

Historical Data Summary Report

For Batch 609054

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-192989-B-6	P56BR	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	3.0	241 225	☑	72.248 - 122.352	☑	65.6 - 133.2 OK 609471
480-193008-E-1	09FB	310.2	Alkalinity, Dissolved	Dissolved	mg/L	5	3.0	226 205	☑	0 - 18.122	☑	0 - 15
480-193124-B-1	B07BR	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	447	☐	221.037 - 558.713	☐	227.2 - 582
480-193124-B-10	B25B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	1.0	86.8	☐	76.258 - 99.467	☐	64.08 - 110.88
480-193124-B-11	B26R2	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	3.0	163	☐	133.047 - 176.203	☐	116.8 - 196.8
480-193124-B-2	B07D	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	3.0	214	☐	64.47 - 292.03	☐	104 - 304.8
480-193124-B-3	B18RR	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	3.0	208	☐	185.633 - 231.617	☐	160 - 265.2
480-193124-B-4	B19	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	206	☐	66.803 - 561.947	☐	150.4 - 508.8
480-193124-B-5	B20R	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	353	☐	268.45 - 415.8	☐	240.8 - 452.4
480-193124-B-6	B23B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	3.0	178	☐	114.251 - 227.249	☐	102.4 - 225.6
480-193124-B-7	B24AR2	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	7.0	574	☐	434.39 - 727.86	☐	428.8 - 810
480-193124-B-8	B24BR	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	3.0	263	☐	176.884 - 314.866	☐	176.8 - 344.4
480-193124-B-9	B25A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	6.0	492	☐	396.466 - 594.534	☐	362.4 - 655.2
480-193127-D-1	R01	310.2	Alkalinity, Total	Total/NA	mg/L	8	15.0	869	☐	603.136 - 1369.114	☐	680.8 - 1548
480-193127-D-2	R38	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1490	☐	892.776 - 1912.224	☐	920 - 1980
480-193127-D-3	R43R	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1660	☐	1216.622 - 2178.378	☐	1160 - 2292
480-193138-D-1	PTPINF	310.2	Alkalinity, Total	Total/NA	mg/L	8	40.0	3430	☐	1031.372 - 4841.128	☐	1856 - 4656
480-193173-D-1	SSR01E	310.2	Alkalinity, Total	Total/NA	mg/L	7	70.0	6290	☐	0 - 24370.28	☐	28.64 - 18720
480-193173-D-2	SSR08E	310.2	Alkalinity, Total	Total/NA	mg/L	3	100.0	8500	☐	0 - 15299.282	☑	3213.333 - 4820 OK
480-193199-G-1	03-197-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	10.0	945	☐	597.204 - 1087.296	☐	547.2 - 1155.6
480-193199-G-2	03-197-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	8.0	661	☐	562.241 - 745.259	☐	486.4 - 862.8
480-193199-G-3	03-198-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	30.0	2420	☐	2064.9 - 2565.1	☐	1760 - 2916
480-193199-G-4	03-198-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	368	☐	315.762 - 418.988	☐	266.4 - 460.8
480-193199-G-5	03-199-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	30.0	2460	☐	1584.426 - 2473.074	☐	1376 - 2724
480-193199-G-6	03-199-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	267	☐	208.787 - 334.463	☐	188 - 352.8
480-193199-G-7	03-200-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	15.0	1240	☐	1060 - 1480	☐	936 - 1656
480-193199-G-8	03-200-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	272	☐	221.183 - 388.317	☐	202.4 - 420
480-193203-G-1	88-148-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	30.0	2500	☑	1784.18 - 2485.82	☐	1584 - 2796
480-193203-G-2	96-148-2R	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	369	☐	308.617 - 510.883	☐	285.6 - 568.8
480-193206-K-1	MW-11A	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	176	☐	129.067 - 204.183	☐	119.2 - 222
480-193206-K-11	MW-18B	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	146	☐	110.418 - 180.582	☐	96 - 194.4
480-193206-K-2	MW-11B	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	244	☐	198.919 - 321.581	☐	182.4 - 358.8
480-193206-K-5	MW-14A	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	139	☐	0 - 523.522	☐	108 - 421.2
480-193206-K-6	MW-14B	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	466	☐	0 - 776.393	☐	46.72 - 590.4
480-193206-K-7	MW-15A	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	133	☐	118.375 - 158.625	☐	103.2 - 182.4
480-193206-K-8	MW-15B	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	176	☐	135.125 - 188.875	☐	119.2 - 214.8
480-193206-K-9	MW-16A	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	84.2	☐	0 - 1098.932	☑	90.4 - 835.2 OK
480-193237-E-1	T1	310.2	Alkalinity, Total	Total/NA	mg/L	8	40.0	3890	☑	2509.637 - 3602.863	☐	2256 - 4020
480-193238-E-1	NECOMP	310.2	Alkalinity, Total	Total/NA	mg/L	8	100.0	7640	☐	2605.931 - 11544.069	☐	4160 - 11844

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Historical Data Summary Report

For Batch 609054

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193239-C-1	MW29	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	10.0	564	☑	348.913 - 526.837	☐	297.6 - 567.6
480-193239-C-2	MW30	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	434	☐	301.799 - 548.201	☐	280 - 589.2
480-193239-C-3	MW31	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	10.0	606	☐	234.233 - 625.017	☐	252.8 - 618
480-193239-C-4	MW31B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	352	☐	288.509 - 384.741	☐	246.4 - 428.4
480-193239-C-5	MW32A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	378	☐	249.304 - 468.196	☐	246.4 - 520.8
480-193239-C-6	MW32B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	364	☑	266.268 - 354.232	☐	224.8 - 399.6
480-193239-C-7	MW33A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	355	☐	265.856 - 376.894	☐	234.4 - 424.8
480-193239-C-8	MW34B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	315	☐	213.065 - 495.685	☐	241.6 - 518.4
480-193241-I-1	01FB	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 102.667	☐	0 - 110.28
480-193241-I-2	MW04	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	33.0	☐	11.313 - 58.062	☐	19.2 - 62.04
480-193241-I-3	MW05	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	12.0	☐	0 - 29.175	☐	0 - 21.6
480-193241-I-4	MW06D	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	41.1	☐	28.952 - 50.998	☐	27.28 - 56.04
480-193241-I-5	MW06S	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	72.2	☐	28.36 - 110.14	☐	34.96 - 106.2
480-193241-I-6	MW07	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	21.3	☐	8.891 - 30.184	☐	12.32 - 30.96
480-193242-C-1	MW31A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	360	☐	260.296 - 393.204	☐	232.8 - 442.8
480-193242-C-2	MW33B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	299	☐	261.372 - 323.128	☐	220.8 - 373.2
480-193242-C-3	MW34A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	401	☐	286.238 - 427.262	☐	260.8 - 474
480-193243-I-1	SW001	310.2	Alkalinity, Total	Total/NA	mg/L	6	5.0	295	☐	0 - 421.725	☐	16.88 - 400.8
480-193243-I-2	SW003	310.2	Alkalinity, Total	Total/NA	mg/L	2	1.0	61.7	☑	0 - 43.5	☑	15.36 - 23.04 OK
480-193245-C-1	MW210A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	273	☐	102.328 - 397.672	☐	143.2 - 411.6
480-193245-C-2	BW229	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	314	☐	250.867 - 367.133	☐	216 - 403.2
480-193245-C-3	BW229A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	312	☐	280.515 - 353.985	☐	234.4 - 399.6
480-193247-E-1	CK-01	310.2	Alkalinity, Total	Total/NA	mg/L	8	200.0	11100	☑	2874.634 - 10255.366	☑	3976 - 10668 OK leachate
480-193248-F-1	EFFLUENT	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	4.0	313	☐	292.988 - 373.762	☐	248 - 422.4
480-193248-F-2	INFLUENT	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	4.0	361	☐	259.456 - 391.794	☐	220.8 - 427.2
480-193253-E-1	COND1	310.2	Alkalinity, Total	Total/NA	mg/L	8	60.0	4240	☐	0 - 4828.419	☐	1112 - 4428
480-193255-D-1	LPS01	310.2	Alkalinity, Total	Total/NA	mg/L	8	60.0	5350	☐	308.226 - 7206.774	☐	1208 - 6360
480-193264-G-1	08-147-1R	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1940	☐	0 - 2904.608	☐	347.2 - 2244
480-193264-G-2	20-147-2R	310.2	Alkalinity, Total	Total/NA	mg/L	8	10.0	498	☐	0 - 2826.78	☐	50.88 - 2244
480-193264-G-3	08-147-3	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	270	☐	0 - 2521.09	☐	161.6 - 2064
480-193264-G-4	10-152-1R	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1310	☐	0 - 1895.195	☐	110.4 - 1560
480-193264-G-5	10-152-2R	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	34.0	☐	0 - 751.927	☐	30.88 - 734.4
480-193264-G-6	10-185-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1920	☐	0 - 2951.325	☐	161.6 - 2064
480-193264-G-7	96-185-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	350	☐	0 - 2534.003	☐	50.88 - 1824
480-193264-G-8	DUP@08-147-1R	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1790	☑	0 - 1656.647	☑	292 - 1572 OK
480-193265-G-1	89-156-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	311	☐	152.765 - 344.735	☐	148.8 - 358.8
480-193265-G-2	98-156-3	310.2	Alkalinity, Total	Total/NA	mg/L	8	8.0	606	☐	91.007 - 857.993	☐	244 - 836.4
480-193265-G-3	98-186-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	278	☐	152.765 - 344.735	☐	148.8 - 358.8
480-193293-C-1	Duplicate	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	196	☐	46.442 - 586.558	☐	142.4 - 556.8

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1/22/2021

Historical Data Summary Report

For Batch 609054

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193293-C-10	MW14	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	434	☐	266.337 - 546.913	☐	256 - 571.2
480-193293-C-11	MW15	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	2.0	167	☐	101.436 - 181.314	☐	96.8 - 205.2
480-193293-C-12	MW50	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	4.0	313	☐	288.866 - 368.884	☐	252 - 430.8
480-193293-C-13	MW6R	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	3.0	186	☐	0 - 454.482	☐	0 - 432
480-193293-C-2	E-7A	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	285	☐	189.136 - 405.864	☐	213.6 - 464.4
480-193293-C-3	GA31B	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	338	☐	210.307 - 372.943	☐	187.2 - 385.2
480-193293-C-4	GA32C	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	384	☐	307.634 - 419.116	☐	268 - 470.4
480-193293-C-5	GA33C	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	380	☑	130.559 - 244.441	☑	124.8 - 252
480-193293-C-6	GA34A	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	380	☐	163.355 - 441.645	☐	172.8 - 471.6
480-193293-C-7	GA35A	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	3.0	195	☑	205.375 - 270.375	☐	179.2 - 307.2
480-193293-C-8	GA36A	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	363	☐	0 - 650.513	☐	0 - 524.4
480-193293-C-9	MW12R	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	3.0	188	☐	143.326 - 238.924	☐	131.2 - 254.4
480-193335-I-1	MW-12AA	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	175	☐	113.477 - 209.523	☐	111.2 - 232.8
480-193335-I-2	MW-12BBB	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	189	☐	143.91 - 240.84	☐	126.4 - 259.2
480-193335-I-3	MW-13A	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	186	☐	119.995 - 224.005	☐	104 - 228
480-193335-I-4	MW-13B	310.2	Alkalinity, Total	Total/NA	mg/L	8	6.0	355	☐	65.699 - 732.301	☐	187.2 - 712.8
480-193335-I-5	MW-17A	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	116	☐	84.57 - 200.68	☐	84.8 - 206.4
480-193335-I-6	MW-17B	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	175	☐	29.486 - 306.714	☐	38.24 - 235.2
480-193336-Q-1	SLC-2A	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	953	☐	0 - 2271.03	☐	458.4 - 2388
480-193336-Q-2	PLC-2A	310.2	Alkalinity, Total	Total/NA	mg/L	8	50.0	3400	☐	1197.936 - 5967.064	☐	1552 - 5448
480-193336-Q-3	PLC-1B	310.2	Alkalinity, Total	Total/NA	mg/L	8	40.0	2450	☐	1828.232 - 4976.768	☐	1856 - 4692
480-193336-Q-5	SLC-1A	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	653	☐	0 - 2271.03	☐	458.4 - 2388
480-193336-Q-6	PLC-1A	310.2	Alkalinity, Total	Total/NA	mg/L	8	40.0	2830	☐	1431.255 - 4101.245	☐	1480 - 3972
480-193336-Q-7	LD-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	465	☐	295.184 - 480.066	☐	288.8 - 530.4
480-193337-H-1	CD-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	138	☐	88.475 - 168.525	☐	83.2 - 176.4
480-193337-H-2	CD-1RA	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	144	☐	101.288 - 167.962	☐	94.4 - 182.4
480-193354-C-1	MW110	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	346	☐	210.478 - 499.522	☐	213.6 - 522
480-193354-C-2	MW111	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	365	☐	246.334 - 449.416	☐	221.6 - 481.2
480-193354-C-3	MW29A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	6	3.0	181	☐	158.028 - 220.638	☐	138.4 - 242.4
480-193354-C-4	MW60	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	465	☐	318.648 - 568.602	☐	294.4 - 585.6
480-193354-C-5	MW60A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	333	☐	315.281 - 434.469	☐	276 - 494.4
480-193355-C-1	MW61B	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	394	☐	265.533 - 477.217	☐	260.8 - 518.4
480-193356-B-2	MW61	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	10.0	684	☐	300.69 - 933.06	☐	388.8 - 974.4
480-193356-B-3	MW61A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	288	☐	216.564 - 321.436	☐	188 - 343.2
480-193369-K-1	MW-1A	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	130	☐	68.465 - 182.185	☐	77.44 - 183.6
480-193369-K-2	MW-2A	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	339	☐	156.984 - 452.266	☐	189.6 - 444
480-193369-K-3	MW-2B	310.2	Alkalinity, Total	Total/NA	mg/L	8	8.0	560	☐	31.092 - 922.158	☐	242.4 - 835.2
480-193369-K-4	MW-1B	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	95.9	☐	73.293 - 122.457	☐	70.48 - 138
480-193369-K-5	DUP MW-1B	310.2	Alkalinity, Total	Total/NA	mg/L	1	2.0	90.7	☑	118 - 118	☑	94.4 - 141.6

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12/23/2021

Historical Data Summary Report

For Batch 609054

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193444-I-3	DUP-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	38	☐	0 - 815.417	☐	11.2 - 816
480-193444-I-4	SW-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	290	☑	20.732 - 53.518	☑	22.4 - 52.8

OK

TestAmerica Buffalo
pH Screening for Alkalinity Method 310.2

Logbook # A19-43

DATE	ANALYST	JOB #	SAMPLE ID	pH	COMMENTS
12/1/21	SRW	192729	J1→4	≤6.5	607312
↓	↓	192745	C1	↓	↓
		192770	H1		
		192791	L1→23		
		192842	L1→8"		
		192843	U1,2		
		192854	M2,10		
		192911	F1→4		
12/10/21	SRW	193003	G1	≤6.5	608471
↓	↓	193073	A1→7	↓	↓
12/15/21	SRW	193248	F1,2	≤6.5	609054
↓	↓	193293	C1→13	↓	↓

REVIEWD BY/ DATE _____ pH Narrow range Paper Lot # _____

BF-WC-LB-010
Rev. 0
2/27/2013

608835

Solutions:

Potassium Phosphate Buffer	6784160	Exp:	12/29/2021
Pyridine Barbituric Acid	6805474	Exp:	12/14/2021
Chloramine-T	6814211	Exp:	12/14/2021
50ppm INT STD	6814151	Exp:	12/20/2021
CN .25ppm CCV Std	6814841	Exp:	12/14/2021

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Lachat 2 : 12/07/2021
Curve Standard (50 ppm): 6803856
ICV (0.250 ppm): 607844/3

Author: BufLachat2

Date : 12/7/2021

Original Run Filename: OM_12-7-2021_10-41-08AM.OMN Created: 12/7/2021 10:41:08 AM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_12-7-2021_10-41-08AM.OMN Last Modified: 12/7/2021 10:59:44 AM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

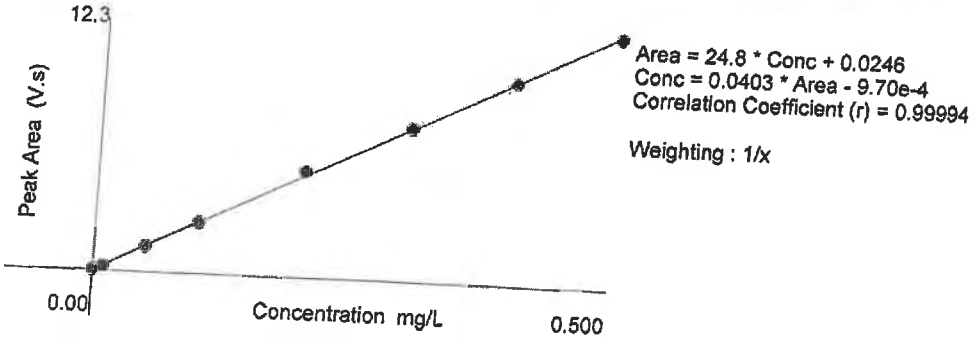
Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
Cal Std 1 - 0.5	1	S1	0.500	12.3	0.603	12/7/2021@10:42:04 AM
Cal Std 2 - 0.4	1	S2	0.400	9.94	0.478	12/7/2021@10:43:31 AM
Cal Std 3 - 0.3	1	S3	0.300	7.51	0.381	12/7/2021@10:44:58 AM
Cal Std 4 - 0.2	1	S4	0.200	5.19	0.248	12/7/2021@10:46:24 AM
Cal Std 5 - 0.1	1	S5	0.100	2.48	0.116	12/7/2021@10:47:51 AM
Cal Std 6 - 0.05	1	S6	0.0500	1.23	0.0606	12/7/2021@10:49:19 AM
Cal Std 7 - 0.01	1	S7	0.0100	0.234	0.0170	12/7/2021@10:50:47 AM
cal Std 8 - 0	1	S10	0.00	0.0647	-2.96e-3	12/7/2021@10:52:13 AM
icv	1	1	0.268	6.68	0.344	12/7/2021@10:53:41 AM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
icb	1	S10	-7.69e-3	-0.167	-9.05e-3	12/7/2021@10:55:07 AM
	Known Conc:		100			
icvl	1	S7	0.0127	0.340	0.0161	12/7/2021@10:56:35 AM
	Known Conc:		0.00			

1.072% Recovery

Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.3	0.603	0.0	1.0	0.495	12/7/2021	10:42:04 AM
2	0.400	1	9.94	0.478	0.0	0.1	0.399	12/7/2021	10:43:31 AM
3	0.300	1	7.51	0.381	0.0	-0.5	0.301	12/7/2021	10:44:58 AM
4	0.200	1	5.19	0.248	0.0	-4.0	0.208	12/7/2021	10:46:24 AM
5	0.100	1	2.48	0.116	0.0	1.1	0.0988	12/7/2021	10:47:51 AM
6	0.0500	1	1.23	0.0606	0.0	2.8	0.0486	12/7/2021	10:49:19 AM
7	0.0100	1	0.234	0.0170	0.0	14.2	8.45e-3	12/7/2021	10:50:47 AM
8	0.00	1	0.0647	-2.96e-3			1.63e-3	12/7/2021	10:52:13 AM

Figure : 1 (Cyanide)



Author: BufLachat2

Date : 12/14/2021

Original Run Filename: OM_12-14-2021_01-10-51PM.OMN Created: 12/14/2021 1:10:51 PM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_12-14-2021_01-10-51PM.OMN Last Modified: 12/14/2021 1:56:46 PM
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S9	0.255	6.37	0.265	12/14/2021@1:11:48 PM
	Known Conc:		0.250			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	-8.60e-4	2.72e-3	-1.08e-3	12/14/2021@1:13:14 PM
	Known Conc:		0.00			
MB 480-608774/1-A	1	1	5.79e-3	0.168	0.0115	12/14/2021@1:14:41 PM
LCS 480-608774/2-A	1	2	0.234	5.84	0.242	12/14/2021@1:16:08 PM
CCVL 480-608774/3-A	1	3	0.0707	1.78	0.0702	12/14/2021@1:17:35 PM
480-193290-E-2-A	1	4	1.99e-3	0.0736	2.75e-3	12/14/2021@1:19:02 PM
480-193290-E-2-B MS	1	5	0.100	2.51	0.105	12/14/2021@1:20:29 PM
480-193290-E-2-C MSD	1	6	0.0994	2.49	0.102	12/14/2021@1:21:56 PM
480-193336-G-5-A	1	7	0.0165	0.434	0.0164	12/14/2021@1:23:22 PM
480-193336-G-6-A	1	8	4.55e-3	0.137	4.63e-3	12/14/2021@1:24:49 PM
480-193336-G-7-A	1	9	2.33e-3	0.0819	2.23e-3	12/14/2021@1:26:15 PM
480-193336-G-1-A	1	10	2.12e-3	0.0768	3.10e-3	12/14/2021@1:27:42 PM
CCV	1	S9	0.257	6.40	0.267	12/14/2021@1:29:07 PM
	Known Conc:		0.250			
CCB	1	S10	-2.23e-3	-0.0313	-1.37e-3	12/14/2021@1:30:34 PM
	Known Conc:		0.00			
480-193336-G-2-A	1	11	6.78e-3	0.193	8.46e-3	12/14/2021@1:32:00 PM
480-193336-G-3-A	1	12	5.08e-3	0.150	6.98e-3	12/14/2021@1:33:26 PM
480-193337-F-1-A	1	13	1.16e-3	0.0529	2.19e-3	12/14/2021@1:34:52 PM
480-193337-F-2-A	1	14	8.07e-5	0.0261	2.38e-3	12/14/2021@1:36:18 PM
480-193369-E-2-A	1	15	3.88e-3	0.120	4.25e-3	12/14/2021@1:37:43 PM
480-193369-E-1-A	1	16	-2.15e-3	-0.0292	-1.29e-3	12/14/2021@1:39:10 PM
480-193369-E-3-A	1	17	-9.96e-4	-6.45e-4	-1.61e-3	12/14/2021@1:40:38 PM
480-193369-E-4-A	1	18	1.76e-3	0.0679	2.56e-3	12/14/2021@1:42:05 PM
480-193369-E-5-A	1	19	3.42e-3	0.109	2.60e-3	12/14/2021@1:43:32 PM
480-193332-D-1-A	1	20	1.19e-3	0.0537	2.50e-3	12/14/2021@1:44:58 PM
CCV	1	S9	0.254	6.35	0.264	12/14/2021@1:46:24 PM
	Known Conc:		0.250			
CCB	1	S10	-1.95e-3	-0.0243	-1.39e-3	12/14/2021@1:47:51 PM
	Known Conc:		0.00			
480-193332-D-3-A	1	21	1.68e-3	0.0658	2.65e-3	12/14/2021@1:49:17 PM
480-193332-D-3-B MS	1	22	0.108	2.71	0.113	12/14/2021@1:50:44 PM
CCV	1	S9	0.255	6.37	0.266	12/14/2021@1:52:10 PM
	Known Conc:		0.250			
CCB	1	S10	-9.76e-4	-1.61e-4	-6.71e-4	12/14/2021@1:53:36 PM
	Known Conc:		0.00			

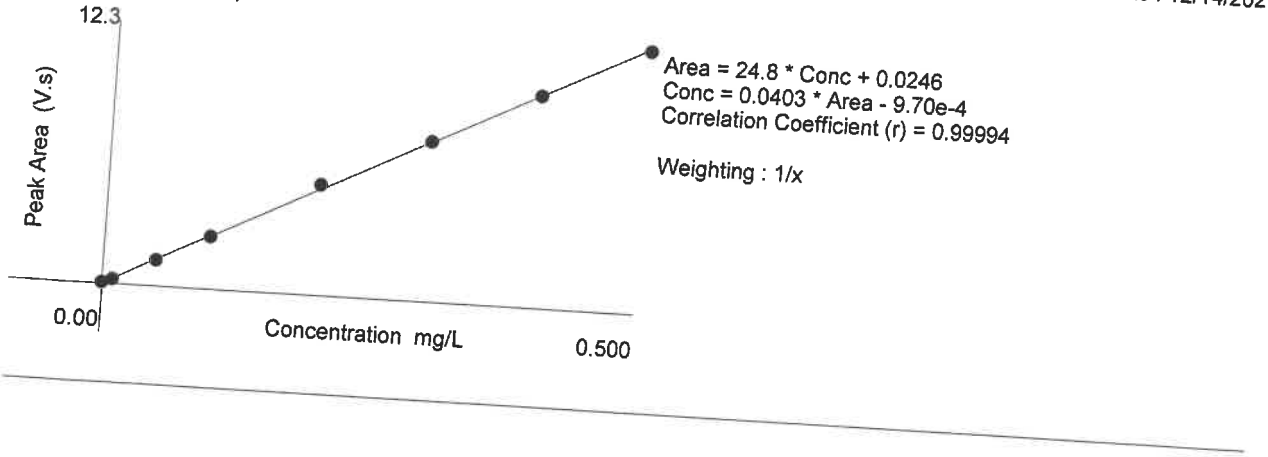
Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.3	0.603	0.0	1.0	0.495	12/7/2021	10:42:04 AM
2	0.400	1	9.94	0.478	0.0	0.1	0.399	12/7/2021	10:43:31 AM
3	0.300	1	7.51	0.381	0.0	-0.5	0.301	12/7/2021	10:44:58 AM
4	0.200	1	5.19	0.248	0.0	-4.0	0.208	12/7/2021	10:46:24 AM
5	0.100	1	2.48	0.116	0.0	1.1	0.0988	12/7/2021	10:47:51 AM
6	0.0500	1	1.23	0.0606	0.0	2.8	0.0486	12/7/2021	10:49:19 AM
7	0.0100	1	0.234	0.0170	0.0	14.2	8.45e-3	12/7/2021	10:50:47 AM
8	0.00	1	0.0647	-2.96e-3			1.63e-3	12/7/2021	10:52:13 AM

Author: BufLachat2

Figure : 1 (Cyanide)

Date : 12/14/2021



Analyst: PM Date: 12/14

TALS Batch #: _____

B1

Eurofins TestAmerica BUFFALO
Cyanide Micro-Distillation Logbook **Logbook # A21-17**

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Co
MB	Blank	1	6 mL				
LCS	0.250	2					
CCVL	0.100	3			6 mL	✓	
193290	E2	4			6 mL	✓	
	E2 MS	5					
	E2 MSD	6			60 uL	✓	
193336	65	7			60 uL	✓	
	66	8					
	67	9					
	61	10					
	62	11					
	63	12					
193337	F1	13					
	F2	14					
193364	E2	15					
	E1	16					
	E3	17					
	E4	18					
	E5	19					
193332	D1	20					
	D3	21					
	D3 MS	22					
					60 uL	✓	

Start Time: _____
End Time: _____

Cl₂ Check: _____
H₂S Check: ✓

0.400 mg/L Complex CN LCS: _____
0.250 mg/L Complex CN LCS: 6/5/14153
0.100 mg/L Free CN CCVL: 6/5/14154
10 ppm Complex CN MS: 6/5/14155
10 ppm Free CN MS: _____
ERA Soil Lot: _____

1.0 N NaOH: _____
7.11M H_2SO_4 / 0.79M $MgCl_2$: _____
H_3NSO_3: _____
$NaCH_3COO$: _____
$ZnCH_3COO$: _____

SimpleDist Block C: Set Temp. (°C): 135 Measured Start Temp. (°C): 135 Measured End Temp. (°C): 135

CM 1045
AFF 1115

Reviewed By: PM Date: 12/14

608780

Ammonia 350.1

Nitrogen 1000mg/L Std CAL	6438488	Expires 08/31/22
Ammonia as N 1000mg/L Std CCV/LCS/ICV	6444516	Expires 11/03/22
Matrix Spike Int Std	6811478	Expires 12/17/21
Sodium Nitroferricyanide	6792983	Expires 12/23/21
Alkaline Phenol	6814728	Expires 12/20/21
5% EDTA Buffer	6798908	Expires 12/15/21
Sulfuric Acid Carrier	6814077	Expires 12/14/21
Sodium Hypochlorite	6814078	Expires 12/14/21
NH3 CCV/ICV 1.0ppm Std	6815544	Expires 12/15/21

ICV = 1.0ppm
LCS/CCV = 1.0ppm
MS/MSD = 0.2ppm

Distilled LCS/CCV = 1.0ppm
Distilled MS/MSD = 0.5ppm

Residual Chlorine check of samples CT

Author: BufLachat

Date : 12/14/2021

Original Run Filename: OM_12-14-2021_10-49-17AM.OMN Created: 12/14/2021 10:49:17 AM
Original Run Author's Signature: [BufLachat]
Current Run Filename: OM_12-14-2021_10-49-17AM.OMN Last Modified: 12/14/2021 11:14:02 AM
Current Run Author's Signature: [BufLachat]
Description: Default New Run

608780

Sample	Rep.	Cup No.	Channel 1 Ammonia as N Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time	Description
CCV	1	S10	0.985	10.5	0.876	12/14/2021@10:50:08 AM	
	Known Conc:		1.00				
	Calibration:		Table/Fig. : 1				
CCB	1	S11	-5.01e-3	0.129	0.0106	12/14/2021@10:51:14 AM	
	Known Conc:		0.00				
MB	1	S11	-7.14e-3	0.106	0.0109	12/14/2021@10:52:20 AM	
	Known Conc:		0.00				
LCS	1	S10	0.997	10.6	0.884	12/14/2021@10:53:26 AM	
	Known Conc:		1.00				
480-193336-e-5^10	1	1	0.576	6.22	0.502	12/14/2021@10:54:33 AM	
480-193336-e-6^250	1	2	1.23	13.1	1.09	12/14/2021@10:55:40 AM	
480-193336-e-7	1	3	3.41e-3	0.217	0.0152	12/14/2021@10:56:46 AM	
480-193369-c-1	1	4	0.0183	0.372	0.0242	12/14/2021@10:57:53 AM	
MS 480-193369-c-1	1	5	0.183	2.10	0.154	12/14/2021@10:58:59 AM	
480-193369-c-2	1	6	4.93	51.8	3.95	12/14/2021@11:00:06 AM	
480-193369-c-3	1	7	0.438	4.77	0.355	12/14/2021@11:01:12 AM	
480-193369-c-4	1	8	-3.88e-3	0.140	8.57e-3	12/14/2021@11:02:17 AM	
CCV	1	S10	0.976	10.4	0.865	12/14/2021@11:03:23 AM	
	Known Conc:		1.00				
CCB	1	S11	-4.17e-3	0.137	0.0109	12/14/2021@11:04:29 AM	
	Known Conc:		0.00				
480-193369-c-5	1	9	-0.0102	0.0744	5.57e-3	12/14/2021@11:05:35 AM	
DU 480-193369-c-5	1	10	-0.0111	0.0644	4.75e-3	12/14/2021@11:06:41 AM	
MS 480-193369-c-5	1	11	0.204	2.31	0.184	12/14/2021@11:07:47 AM	
480-193336-e-5^5	1	12	0.989	10.5	0.843	12/14/2021@11:08:52 AM	
480-193369-c-2^5	1	13	1.42	15.1	1.24	12/14/2021@11:09:58 AM	
CCV	1	S10	0.984	10.5	0.871	12/14/2021@11:11:04 AM	
	Known Conc:		1.00				
CCB	1	S11	-2.87e-3	0.151	0.0101	12/14/2021@11:12:10 AM	
	Known Conc:		0.00				

500ul → 5ml
200ul → 5ml
1ml → 5ml

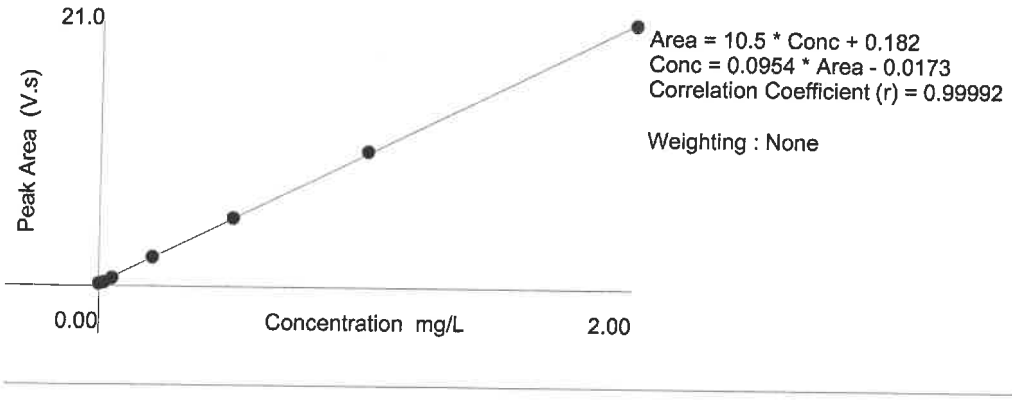
Table : 1 (Ammonia as N)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	2.00	1	21.0	1.76	0.0	0.5	1.99	12/6/2021	8:50:12 AM
2	1.00	1	10.8	0.911	0.0	-1.6	1.02	12/6/2021	8:51:03 AM
3	0.500	1	5.47	0.459	0.0	-0.8	0.504	12/6/2021	8:51:54 AM
4	0.200	1	2.31	0.193	0.0	-1.3	0.203	12/6/2021	8:52:45 AM
5	0.0500	1	0.638	0.0524	0.0	9.5	0.0436	12/6/2021	8:53:37 AM
6	0.0200	1	0.300	0.0245	0.0	23.3	0.0114	12/6/2021	8:54:29 AM
7	0.00	1	0.194	0.0150			1.26e-3	12/6/2021	8:55:21 AM

Author: BufLachat

Date : 12/14/2021

Figure : 1 (Ammonia as N)



Author: buflachat

Date : 12/6/2021

Original Run Filename: OM_12-6-2021_08-49-22AM.OMN Created: 12/6/2021 8:49:22 AM
Original Run Author's Signature: [buflachat]
Current Run Filename: OM_12-6-2021_08-49-22AM.OMN Last Modified: 12/6/2021 8:58:54 AM
Current Run Author's Signature: [buflachat]
Description: Default New Run

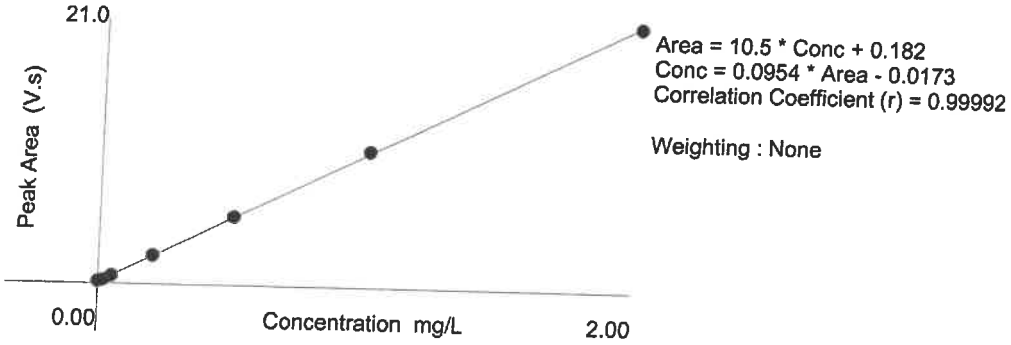
Sample	Rep.	Cup No.	Channel 1 Ammonia as N Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time	Description
2.0	1	S1	2.00	21.0	1.76	12/6/2021@8:50:12 AM	
1.0	1	S2	1.00	10.8	0.911	12/6/2021@8:51:03 AM	
0.5	1	S3	0.500	5.47	0.459	12/6/2021@8:51:54 AM	
0.2	1	S4	0.200	2.31	0.193	12/6/2021@8:52:45 AM	
0.05	1	S5	0.0500	0.638	0.0524	12/6/2021@8:53:37 AM	
0.02	1	S6	0.0200	0.300	0.0245	12/6/2021@8:54:29 AM	
0.0	1	S11	0.00	0.194	0.0150	12/6/2021@8:55:21 AM	
ICV	1	S10	1.01	10.7	0.901	12/6/2021@8:56:12 AM	
Calibration:			Table/Fig. : 1				
ICB	1	S11	1.16e-3	0.193	0.0157	12/6/2021@8:57:03 AM	

101% recovery

Table : 1 (Ammonia as N)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	2.00	1	21.0	1.76	0.0	0.5	1.99	12/6/2021	8:50:12 AM
2	1.00	1	10.8	0.911	0.0	-1.6	1.02	12/6/2021	8:51:03 AM
3	0.500	1	5.47	0.459	0.0	-0.8	0.504	12/6/2021	8:51:54 AM
4	0.200	1	2.31	0.193	0.0	-1.3	0.203	12/6/2021	8:52:45 AM
5	0.0500	1	0.638	0.0524	0.0	9.5	0.0436	12/6/2021	8:53:37 AM
6	0.0200	1	0.300	0.0245	0.0	23.3	0.0114	12/6/2021	8:54:29 AM
7	0.00	1	0.194	0.0150			1.26e-3	12/6/2021	8:55:21 AM

Figure : 1 (Ammonia as N)



Historical Data Summary Report

For Batch 608780

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193336-E-5 ^5	SLC-1A	350.1	Ammonia	Total/NA	mg/L	8	5.0	4.9	☐	0 - 226.66	☐	0.464 - 230.4
480-193336-E-6 ^25	PLC-1A	350.1	Ammonia	Total/NA	mg/L	8	250.0	308	☐	154.557 - 590.693	☐	240 - 612
480-193336-E-7	LD-1	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.047	☐	0 - 2.16
480-193369-C-1	MW-1A	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.12	☐	0 - 1.2
480-193369-C-2 ^5	MW-2A	350.1	Ammonia	Total/NA	mg/L	8	5.0	7.1	☐	0 - 12.1	☐	2.08 - 11.28
480-193369-C-3	MW-2B	350.1	Ammonia	Total/NA	mg/L	8	1.0	0.44	☐	0 - 14.363	☐	0.36 - 11.28
480-193369-C-4	MW-1B	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.237	☐	0 - 0.252
480-193369-C-5	DUP MW-1B	350.1	Ammonia	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0

608899

Solutions Used: Konelab AQUA20 & 20XT

TKN Reagent	I.D	Expires
Sodium Salicylate	6798093	30 Dec 2021
Sodium Hypochlorite	6803876	20 Dec 2021
Buffer	6804144	20 Dec 2021

Standards:

Name	ID	Expiration
Ammonia as N 1000ppm	6258170	11/03/2022
CCV (2.5ppm)	6816934	12/16/2021
Second Source Ammonia as N 1000 ppm (ICV)	6438487	08/31/2022
Total Kjeldahl Nitrogen 1000ppm:		
LCS (2.5ppm)		
MS (1.0ppm)	6103067	05/28/2022

TKN Curve Kone 1: 12-01-2021
Batch 607284
CURVE (5.0 ppm): 6797924
ICV (2.5 ppm): 6800303

TKN Curve Gallery 1: 11-22-2021
Batch 606076
CURVE (5.0 ppm): 6790643
ICV (2.5 ppm): 6791791

608899

Laboratory
Analyzer User

12/15/2021 6:36

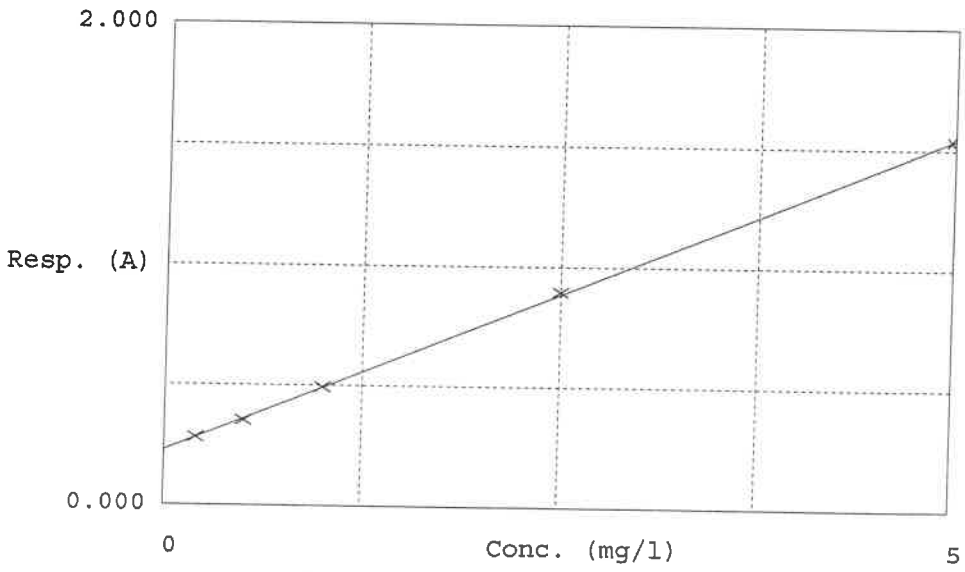
Test TKN

Accepted 12/1/2021 4:55

Factor 3.815
Bias 0.230

Coeff. of det. 0.999837

Errors Meas. error



	Calibrator	Response	Calc. con.	Conc.	Errors
1	TKN-5.0	0.282	0.1989	0.2000	E.e. out of limit
2	TKN-5.0	0.354	0.4748	0.5000	E.e. out of limit
3	TKN-5.0	0.493	1.0051	1.0000	E.e. out of limit
4	TKN-5.0	0.895	2.5394	2.5000	E.e. out of limit
5	TKN-5.0	1.535	4.9818	5.0000	E.e. out of limit

608899

Laboratory
Analyzer User

12/15/2021 6:36

Performed 12/15/2021 4:20
MAX acceptable SD 2.0 mA

Wavelength	Abs (mA)	SD (mA)	SignGain	RefGain	Voltage (V)
340 nm	-297.8	1.2	0	0	6.2
405 nm	-344.0	0.5	2	2	6.0
420 nm	-425.2	0.5	2	2	6.2
460 nm	-306.1	0.4	1	1	5.9
480 nm	-300.6	0.3	0	0	6.2
520 nm	-298.0	0.3	0	0	6.2
540 nm	-297.6	0.3	0	0	6.2
575 nm	-297.4	0.3	0	0	6.2
600 nm	-296.9	0.2	0	0	6.2
630 nm	-296.8	0.2	0	0	5.7
660 nm	-297.4	0.2	0	0	5.7
700 nm	-297.4	0.2	0	0	5.3
880 nm	-273.1	0.1	0	0	5.1

Laboratory
Analyzer User

608899

Date : 12/15/2021
Time : 6:36

Test : TKN
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCV TKN	2.633	12/15/2021 5:20		
CCB TKN	0.082	12/15/2021 5:20		
mb 480-608866/1-	0.120	12/15/2021 5:20		
lcs 480-608866/2	2.332	12/15/2021 5:20		
CCV TKN	2.442	12/15/2021 5:22		
CCB TKN	0.106	12/15/2021 5:22		
180-130863-f-1-d	0.115	12/15/2021 5:50		
180-130863-f-1-e	1.079	12/15/2021 5:50		
480-192973-a-1-d	-0.148	12/15/2021 5:51		
480-192973-a-1-e	-0.046	12/15/2021 5:51		
480-193206-c-1-c	0.263	12/15/2021 5:51		
480-193336-e-5-a	0.428	12/15/2021 5:51		
480-193336-e-6-a	1.413	12/15/2021 5:51		
480-193336-e-7-a	0.598	12/15/2021 5:51		
480-193369-c-1-a	0.200	12/15/2021 5:51		
CCV TKN	2.514	12/15/2021 5:58		
CCB TKN	0.091	12/15/2021 5:58		
480-193369-c-3-a	0.997	12/15/2021 5:58		
480-193369-c-4-a	0.158	12/15/2021 5:58		
480-193369-c-5-a	0.139	12/15/2021 5:58		
580-108146-c-1-b	2.977	12/15/2021 5:58		
580-108146-c-2-b	2.867	12/15/2021 5:58		
580-108165-b-3-a	1.612	12/15/2021 5:58		
CCV TKN	2.412	12/15/2021 6:01		
CCB TKN	0.062	12/15/2021 6:01		
480-193369-c-2-a	7.420	12/15/2021 6:24	R	1+1.0
480-193369-c-2-b	8.295	12/15/2021 6:24	R	1+1.0
CCV TKN	2.458	12/15/2021 6:27		
CCB TKN	0.049	12/15/2021 6:27		

Historical Data Summary Report

For Batch 608899

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-192973-A-1-D	WASTEWATER EFF	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 4.136	☐	0 - 2.76
480-193206-C-1-C	MW-11A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.26	☐	0 - 0.712	☐	0 - 0.636
480-193336-E-6-A	PLC-1A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	353	☐	123.969 - 627.031	☐	212.8 - 624
480-193336-E-7-A	LD-1	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.60	☐	0 - 2.839	☐	0 - 2.88
480-193369-C-1-A	MW-1A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.20	☐	0 - 0.758	☐	0 - 0.612
480-193369-C-2-A	MW-2A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	2.0	7.4	☐	1.541 - 10.009	☐	2.96 - 9.24
480-193369-C-3-A	MW-2B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	1.0	☐	0 - 12.581	☐	0.96 - 9.24
480-193369-C-4-A	MW-1B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 3.007	☐	0 - 3.12
480-193369-C-5-A	DUP MW-1B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	1	1.0	ND	☑	0.71 - 0.71	☑	0.568 - 0.852
580-108146-C-2-B	#2 Effluent	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	1400	☐	1131.294 - 2018.706	☐	1120 - 2160
580-108165-B-3-A	Eff-Grab	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	1.6	☐	0 - 10.987	☐	0.96 - 8.52

OK

TestAmerica Buffalo

TOTAL KJELDAHL NITROGEN DIGESTION LOG – Method 351.2

Date Digested	Prep Analyst	Job #	Sample ID	Flask #	Dilution	Comments
12-14-21	KEB	ICAL	5.0 PPM	1	1x	+ 0.125 mL NH3 STD
↓	↓	MB	BLANK	2	↓	
↓	↓	LCS	2.5 PPM	3	↓	+ 0.0625 mL TKN STD
↓	↓	180 130863	F-1	4	↓	
↓	↓	↓	F-1 MS	5	↓	+0.025mL TKN STD
↓	↓	192973	A-1	6	↓	
↓	↓	↓	A-1 DU	7	↓	
↓	↓	193206	C-1	8	↓	
↓	↓	193336	E-5	9	250x	0.10mL ↑25mL
↓	↓	↓	E-6	10	250x	↓
↓	↓	↓	E-7	11	1x	
↓	↓	193369	C-1	12	↓	
↓	↓	↓	C-2	13	↓	
↓	↓	↓	C-2 MS	14	↓	+0.025mL TKN STD
↓	↓	↓	C-3	15	↓	
↓	↓	↓	C-4	16	↓	
↓	↓	↓	C-5	17	↓	
↓	↓	580 1098146	C-1	18	500x	0.05mL ↑25mL
↓	↓	↓	C-2	19	↓	↓
↓	↓	580 1098165	B-3	20	1x	
↓	↓	DIL	DIL	21	DIL	DIL
↓	↓	↓	↓	22	↓	↓
↓	↓	↓	↓	23	↓	↓

EPPENDORFS: Q370160, H10557K, R15154F
Acid Digestion Solution: 6805429
ICAL NH3 Standard: 6258170
LCS/MS TKN Standard: 6103068
Batch #: 6098866

5pt TALS # 68816742

Historical Data Summary Report

For Batch 609392

609392

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193173-B-1	SSR01E	410.4	Chemical Oxygen Demand	Total/NA	mg/L	7	1000.0	103000	☐	0 - 476262.9	☐	64.96 - 462000
480-193173-B-2	SSR08E	410.4	Chemical Oxygen Demand	Total/NA	mg/L	3	400.0	21100	☐	0 - 22585.963	☑	3561.68 - 5342.52 OK DP
480-193241-B-1	01FB	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193241-B-2	MW04	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	11.3	☑	0 - 0	☑	0 - 0
480-193241-B-3	MW05	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	13.0	☑	0 - 0	☑	0 - 0 Will confirm
480-193241-B-4	MW06D	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193241-B-5	MW06S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 27.067	☐	0 - 17.4
480-193241-B-6	MW07	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193289-F-1	S01U	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	21.0	☐	0 - 63.197	☐	4.56 - 56.04
480-193289-F-2	T04D	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	33.0	☐	0 - 54.92	☐	9.28 - 52.92
480-193290-B-2	MW-13S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 67.979	☐	0 - 55.8
480-193290-B-3	MW-19D	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193290-B-4	MW-19S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193290-B-5	MW-7S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	21.9	☐	0 - 38.556	☐	0 - 32.16
480-193290-B-6	MW-DUP	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 74.173	☐	0 - 57.48
480-193290-B-7	MW-14S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 95.309	☐	0 - 90.6
480-193290-B-8	MW-15S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 93.799	☐	0 - 75.84
480-193290-B-9	MW-6S2	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	20.4	☐	0 - 64.367	☐	0 - 44.76
480-193369-C-1	MW-1A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 26.892	☐	0 - 26.16
480-193369-C-2	MW-2A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	11.5	☐	0 - 35.622	☐	0 - 26.4
480-193369-C-3	MW-2B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 42.044	☐	0 - 31.32
480-193369-C-4	MW-1B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 103.074	☐	0 - 109.68
480-193369-C-5	DUP MW-1B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	1	1.0	ND	☑	11.1 - 11.1	☑	8.88 - 13.32 OK DP
480-193436-C-2	MW-3A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	14.1	☐	0 - 44.785	☐	0 - 40.08
480-193436-C-3	MW-3B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	10.3	☐	0 - 14.523	☐	0 - 15.6
480-193436-C-4	MW-4A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 23.684	☐	0 - 25.44
480-193436-C-5	MW-5A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	11.2	☐	0 - 22.557	☐	0 - 18.12
480-193436-C-6	MW-6A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	26.1	☐	0 - 81.309	☐	0 - 61.56
480-193436-C-7	MW-6B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 37.583	☐	0 - 27.36
480-193436-C-8	MW-7A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	20.1	☐	0 - 47.605	☐	0 - 37.08
480-193444-B-3	DUP-1	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	26	☐	0 - 156.557	☐	0 - 132
480-193444-B-4	SW-2	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	91	☑	0 - 49.093	☑	0 - 39.6 OK
480-193460-L-1	MW-29CU	410.4	Chemical Oxygen Demand	Total/NA	mg/L	1	1.0	17.6	☑	0 - 0	☑	0 - 0
480-193460-L-2	MW-10CUR	410.4	Chemical Oxygen Demand	Total/NA	mg/L	1	1.0	16.5	☑	11.4 - 11.4	☑	9.12 - 13.68 OK DP
480-193467-B-1	01FB	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-B-2	YSC01	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	23.4	☐	0 - 66.662	☐	0 - 51.72
480-193467-B-3	YSC02	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	23.3	☐	0 - 36.135	☐	8.08 - 31.2
480-193467-B-4	YSP03R	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 43.959	☐	0 - 33.6
480-193467-B-5	YSP05	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	17.6	☐	0 - 44.982	☐	0 - 34.92

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12/23/2021

Historical Data Summary Report

For Batch 609392

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193520-D-1	WW-EFF	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	400.0	30900	☐	4678.679 - 49946.321	☐	16240 - 53760
480-193520-D-2	WW-RANE	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	400.0	32200	☐	0 - 59543.074	☐	9040 - 56040
480-193520-D-3	WW-EQ TANK	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	400.0	30400	☐	5783.283 - 50216.717	☐	14400 - 51960

SKALAR

609392

12/17/21 READ

CCV = 6798790
LCS = 6788792
MS = 6484237

CalcDate	Aconst	Bconst	Rcc	Count	Description	R^2	Cconst
5/27/2021 7:10 PM	-0.0029	0.8867	-0.99994	9	Calibration COD low	0.99987281715653253	
4/23/2019 12:40 PM	0.0005	0.0246	0.99859	6	Calibration COD high	0.99718694959618315	

Seq.	Identity	Start time measurement	End time heating	Start time heating	Abs. (AU)	Predilution factor	Temperature In (°C)	Temperature Out (°C)	Type	Calibrated value (mg/L)	Total dilution factor	Calibrated Result (mg/L) with blank correction and Dilution Factor
1	BLANK	12/18/2021 12:39 PM			0.8867	1			Blank	0.00	1	0.00
2	CCV	12/18/2021 12:39 PM			0.666	1			QC COD 75	76.72	1	76.72
3	CCB	12/18/2021 12:40 PM			0.8724	1			Sample	4.97	1	4.97
4	MB	12/18/2021 12:40 PM			0.8825	1			Sample	1.46	1	1.46
5	LCS	12/18/2021 12:41 PM			0.8109	1			QC COD 25	26.35	1	26.35
6	480-193241-B-6	12/18/2021 12:41 PM			0.8907	1			Sample	-1.39	1	-1.39
7	480-193241-B-6 MS	12/18/2021 12:42 PM			0.7407	1			Sample	50.75	1	50.75
8	480-193241-B-6 MSD	12/18/2021 12:42 PM			0.7485	1			Sample	48.04	1	48.04
9	480-193241-B-1	12/18/2021 12:43 PM			0.8804	1			Sample	2.19	1	2.19
10	480-193241-B-2	12/18/2021 12:43 PM			0.8543	1			Sample	11.26	1	11.26
11	480-193241-B-3	12/18/2021 12:44 PM			0.8492	1			Sample	13.04	1	13.04
12	480-193241-B-4	12/18/2021 12:44 PM			0.8927	1			Sample	-2.09	1	-2.09
13	480-193241-B-5	12/18/2021 12:45 PM			0.8791	1			Sample	2.64	1	2.64
14	CCV	12/18/2021 12:45 PM			0.6765	1			QC COD 75	73.07	1	73.07
15	CCB	12/18/2021 12:46 PM			0.875	1			Sample	4.07	1	4.07
16	480-193289-F-2	12/18/2021 12:46 PM			0.7919	1			Sample	32.95	1	32.95
17	480-193289-F-2 MS	12/18/2021 12:47 PM			0.6816	1			Sample	71.30	1	71.30
18	480-193289-F-1	12/18/2021 12:47 PM			0.8262	1			Sample	21.03	1	21.03
19	480-193369-C-1	12/18/2021 12:48 PM			0.8605	1			Sample	9.11	1	9.11
20	480-193369-C-2	12/18/2021 12:48 PM			0.8535	1			Sample	11.54	1	11.54
21	480-193369-C-3	12/18/2021 12:49 PM			0.8692	1			Sample	6.08	1	6.08
22	480-193369-C-4	12/18/2021 12:49 PM			0.8825	1			Sample	1.46	1	1.46
23	480-193369-C-5	12/18/2021 12:50 PM			0.8708	1			Sample	5.53	1	5.53
24	480-193436-C-2	12/18/2021 12:50 PM			0.8462	1			Sample	14.08	1	14.08
25	480-193436-C-3	12/18/2021 12:51 PM			0.8572	1			Sample	10.25	1	10.25
26	CCV	12/18/2021 12:51 PM			0.6646	1			QC COD 75	77.21	1	77.21
27	CCB	12/18/2021 12:52 PM			0.8825	1			Sample	1.46	1	1.46
28	MB	12/18/2021 12:52 PM			0.8844	1			Sample	0.80	1	0.80
29	LCS	12/18/2021 12:53 PM			0.8097	1			QC COD 25	26.77	1	26.77
30	480-193290-B-2	12/18/2021 12:53 PM			0.8685	1			Sample	6.33	1	6.33
31	480-193290-B-2 MS	12/18/2021 12:54 PM			0.7483	1			Sample	48.11	1	48.11
32	480-193290-B-2 MSD	12/18/2021 12:54 PM			0.7444	1			Sample	49.47	1	49.47
33	480-193290-B-3	12/18/2021 12:54 PM			0.8391	1			Sample	16.55	1	16.55
34	480-193290-B-4	12/18/2021 12:55 PM			0.8808	1			Sample	2.05	1	2.05
35	480-193290-B-5	12/18/2021 12:55 PM			0.8236	1			Sample	21.93	1	21.93

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Seq.	Identity	Start time measurement	End time heating	Start time heating	Abs. (AU)	Predilution factor	Temperature In (°C)	Temperature Out (°C)	Type	Calibrated value (mg/L)	Total dilution factor	Calibrated Result (mg/L) with blank correction and Dilution Factor
36	480-193290-B-7	12/18/2021 12:56 PM			0.8633	1			Sample	8.13	1	8.13
37	480-193290-B-8	12/18/2021 12:56 PM			0.8831	1			Sample	1.25	1	1.25
38	CCV	12/18/2021 12:57 PM			0.6682	1			QC COD 75	75.95	1	75.95
39	CCB	12/18/2021 12:57 PM			0.8821	1			Sample	1.60	1	1.60
40	480-193290-B-6	12/18/2021 12:58 PM			0.8419	1			Sample	15.57	1	15.57
41	480-193290-B-6 MS	12/18/2021 12:58 PM			0.7411	1			Sample	50.61	1	50.61
42	480-193290-B-9	12/18/2021 12:59 PM			0.828	1			Sample	20.40	1	20.40
43	480-193436-C-4	12/18/2021 12:59 PM			0.8602	1			Sample	9.21	1	9.21
44	480-193436-C-5	12/18/2021 1:00 PM			0.8545	1			Sample	11.19	1	11.19
45	480-193436-C-6	12/18/2021 1:00 PM			0.8116	1			Sample	26.11	1	26.11
46	480-193436-C-7	12/18/2021 1:01 PM			0.8584	1			Sample	9.84	1	9.84
47	480-193436-C-8	12/18/2021 1:01 PM			0.829	1			Sample	20.06	1	20.06
48	480-193439-C-1	12/18/2021 1:02 PM			0.8253	1			Sample	21.34	1	21.34
49	480-193439-C-2	12/18/2021 1:02 PM			0.8278	1			Sample	20.47	1	20.47
50	CCV	12/18/2021 1:04 PM			0.6654	1			QC COD 75	76.93	1	76.93
51	CCB	12/18/2021 1:04 PM			0.878	1			Sample	3.02	1	3.02
52	MB	12/18/2021 1:05 PM			0.8772	1			Sample	3.30	1	3.30
53	LCS	12/18/2021 1:05 PM			0.8092	1			QC COD 25	26.94	1	26.94
54	480-193439-C-6	12/18/2021 1:06 PM			0.56	1			Sample	113.57	1	113.57
55	480-193439-C-6 MS				0.4515	1			Sample	154.15	1	154.15
56	480-193439-C-6 MSD	12/18/2021 1:07 PM			0.4469	1			Sample	152.88	1	152.88
57	480-193439-C-3	12/18/2021 1:07 PM			0.8375	1			Sample	17.10	1	17.10
58	480-193439-C-4	12/18/2021 1:08 PM			0.8309	1			Sample	19.40	1	19.40
59	480-193439-C-5	12/18/2021 1:09 PM			0.8029	1			Sample	29.13	1	29.13
60	480-193439-C-7	12/18/2021 1:09 PM			0.6904	1			Sample	68.24	1	68.24
61	480-193439-C-8	12/18/2021 1:10 PM			0.5377	1			Sample	121.32	1	121.32
62	CCV	12/18/2021 1:10 PM			0.6674	1			QC COD 75	76.23	1	76.23
63	CCB	12/18/2021 1:11 PM			0.8874	1			Sample	-0.24	1	-0.24
64	480-193439-C-9	12/18/2021 1:11 PM			0.6894	1			Sample	68.58	1	68.58
65	480-193439-C-9 MS	12/18/2021 1:12 PM			0.5738	1			Sample	108.77	1	108.77
66	480-193439-C-10	12/18/2021 1:12 PM			0.604	1			Sample	98.27	1	98.27
67	480-193439-C-11	12/18/2021 1:13 PM			0.8654	1			Sample	7.40	1	7.40
68	480-193444-B-1	12/18/2021 1:13 PM			0.7918	1			Sample	32.99	1	32.99
69	480-193444-B-2	12/18/2021 1:14 PM			0.6592	1			Sample	79.08	1	79.08
70	480-193444-B-3	12/18/2021 1:14 PM			0.8119	1			Sample	26.00	1	26.00
71	480-193444-B-4	12/18/2021 1:15 PM			0.6247	1			Sample	91.08	1	91.08
72	480-193444-B-5	12/18/2021 1:16 PM			0.5149	1			Sample	129.24	1	129.24
73	480-193444-B-6	12/18/2021 1:16 PM			0.6397	1			Sample	85.86	1	85.86
74	CCV	12/18/2021 1:17 PM			0.663	1			QC COD 75	77.76	1	77.76
75	CCB	12/18/2021 1:17 PM			0.8882	1			Sample	-0.52	1	-0.52
76	MB	12/18/2021 1:18 PM			0.8982	1			Sample	-4.00	1	-4.00
77	LCS	12/18/2021 1:18 PM			0.8096	1			QC COD 25	26.80	1	26.80
78	480-193460-L-2	12/18/2021 1:19 PM			0.8393	1			Sample	16.48	1	16.48
79	480-193460-L-2 MS	12/18/2021 1:19 PM			0.7168	1			Sample	59.06	1	59.06
80	480-193460-L-2 MSD	12/18/2021 1:20 PM			0.7149	1			Sample	59.72	1	59.72
81	480-193460-L-1				0.8361	1			Sample	17.59	1	17.59

SKALAR

Seq.	Identity	Start time measurement	End time heating	Start time heating	Abs. (AU)	Predilution factor	Temperature In (°C)	Temperature Out (°C)	Type	Calibrated value (mg/L)	Total dilution factor	Calibrated Result (mg/L) with blank correction and Dilution Factor
82	480-193467-B-1	12/18/2021 1:21 PM			0.8933	1			Sample	-2.29	1	-2.29
83	480-193467-B-2	12/18/2021 1:22 PM			0.8194	1			Sample	23.39	1	23.39
84	480-193467-B-3	12/18/2021 1:22 PM			0.8198	1			Sample	23.26	1	23.26
85	480-193467-B-4	12/18/2021 1:23 PM			0.8662	1			Sample	7.13	1	7.13
86	CCV	12/18/2021 1:23 PM			0.6717	1			QC COD 75	74.74	1	74.74
87	CCB	12/18/2021 1:24 PM			0.8745	1			Sample	4.24	1	4.24
88	480-193467-B-5	12/18/2021 1:24 PM			0.8361	1			Sample	17.59	1	17.59
89	480-193467-B-5 MS	12/18/2021 1:25 PM			0.76	1			Sample	44.04	1	44.04
90	480-193173-B-1	12/18/2021 1:25 PM			0.5895	1			Sample	103.31	1000	103,311.10
91	480-193173-B-2	12/18/2021 1:26 PM			0.7353	1			Sample	52.63	400	21,051.55
92	480-193520-D-1	12/18/2021 1:26 PM			0.6644	1			Sample	77.27	400	30,909.90
93	480-193520-D-2	12/18/2021 1:27 PM			0.655	1			Sample	80.54	400	32,216.93
94	480-193520-D-3	12/18/2021 1:27 PM			0.6678	1			Sample	76.09	400	30,437.15
95	CCV	12/18/2021 1:28 PM			0.6725	1			QC COD 75	74.46	1	74.46
96	CCB	12/18/2021 1:29 PM			0.8845	1			Sample	0.76	1	0.76

SKALAR

596963

Curve Std = 6484238

9/17/21

CalcDate	Aconst	Bconst	Rcc	Count	Description	R^2	Cconst
5/27/2021 7:10 PM	-0.0029	0.8744	-0.99994	9	Calibration COD low	0.99987281715653253	
4/23/2019 12:40 PM	0.0005	0.0246	0.99859	6	Calibration COD high	0.99718694959618315	

Seq.	Identity	Start time measurement	End time heating	Start time heating	Abs. (AU)	Predilution factor	Temperature In (°C)	Temperature Out (°C)	Type	Calibrated value (mg/L)	Total dilution factor	Calibrated Result (mg/L) with blank correction and Dilution Factor
1	BLANK	9/17/2021 9:37 PM	9/17/2021 8:25 PM	9/17/2021 6:26 PM	0.8744	1	149.9	151.0	Blank	0.00	1	0.00
2	IC 0	9/17/2021 9:40 PM	9/17/2021 8:28 PM	9/17/2021 6:28 PM	0.8738	1	150.8	150.2	Sample	0.21	1	0.21
3	IC 5	9/17/2021 9:42 PM	9/17/2021 8:31 PM	9/17/2021 6:31 PM	0.8605	1	151.1	149.4	Sample	4.83	1	4.83
4	IC 10	9/17/2021 9:45 PM	9/17/2021 8:33 PM	9/17/2021 6:34 PM	0.8454	1	150.5	149.1	Sample	10.08	1	10.08
5	IC 25	9/17/2021 9:48 PM	9/17/2021 8:36 PM	9/17/2021 6:37 PM	0.8004	1	149.6	149.4	Sample	25.72	1	25.72
6	IC 50	9/17/2021 9:50 PM	9/17/2021 8:39 PM	9/17/2021 6:39 PM	0.7237	1	149.0	150.2	Sample	52.39	1	52.39
7	IC 75	9/17/2021 9:53 PM	9/17/2021 8:42 PM	9/17/2021 6:42 PM	0.6587	1	149.0	150.9	Sample	74.98	1	74.98
8	IC 100	9/17/2021 9:56 PM	9/17/2021 8:44 PM	9/17/2021 6:45 PM	0.5949	1	149.8	151.1	Sample	97.16	1	97.16
9	IC 125	9/17/2021 9:59 PM	9/17/2021 8:47 PM	9/17/2021 6:47 PM	0.5186	1	150.7	150.2	Sample	123.68	1	123.68
10	IC 150	9/17/2021 10:01 PM	9/17/2021 8:50 PM	9/17/2021 6:50 PM	0.4426	1	151.1	149.3	Sample	150.10	1	150.10
11	ICV	9/17/2021 10:04 PM	9/17/2021 8:53 PM	9/17/2021 6:53 PM	0.4714	1	150.9	149.0	Sample	140.09	1	140.09
12	ICV	9/17/2021 10:07 PM	9/17/2021 8:55 PM	9/17/2021 6:55 PM	0.6675	1	150.1	149.6	Sample	71.92	2	143.84
13	ICB	9/17/2021 10:10 PM	9/17/2021 8:58 PM	9/17/2021 6:58 PM	0.8755	1	149.5	150.5	Sample	-0.38	1	-0.38

ICV = 6558984

$$ICV = \frac{140.09}{147} \cdot 100$$

ICV = 95.3%

12/23/2021 9/18/2021 12:49 PM

608721

Solutions Used: Skalar Scan+

TOTAL RECOVERABLE PHENOLICS

Intermediate@10ppm ricca	6813906	EXP: 12/20/2021
Intermediate@10ppm Ricca 2nd lot	6813907	EXP: 12/20/2021
CCV@0.1ppm	6815480	EXP: 12/15/2021
Potassium Ferricyanide	6813909	EXP: 12/14/2021
4-Aminoantipyrene	6813908	EXP: 12/14/2021
Distillation Reagent	6813910	EXP: 12/20/2021

LCS/CCV/MS/MSD = 0.1 ppm

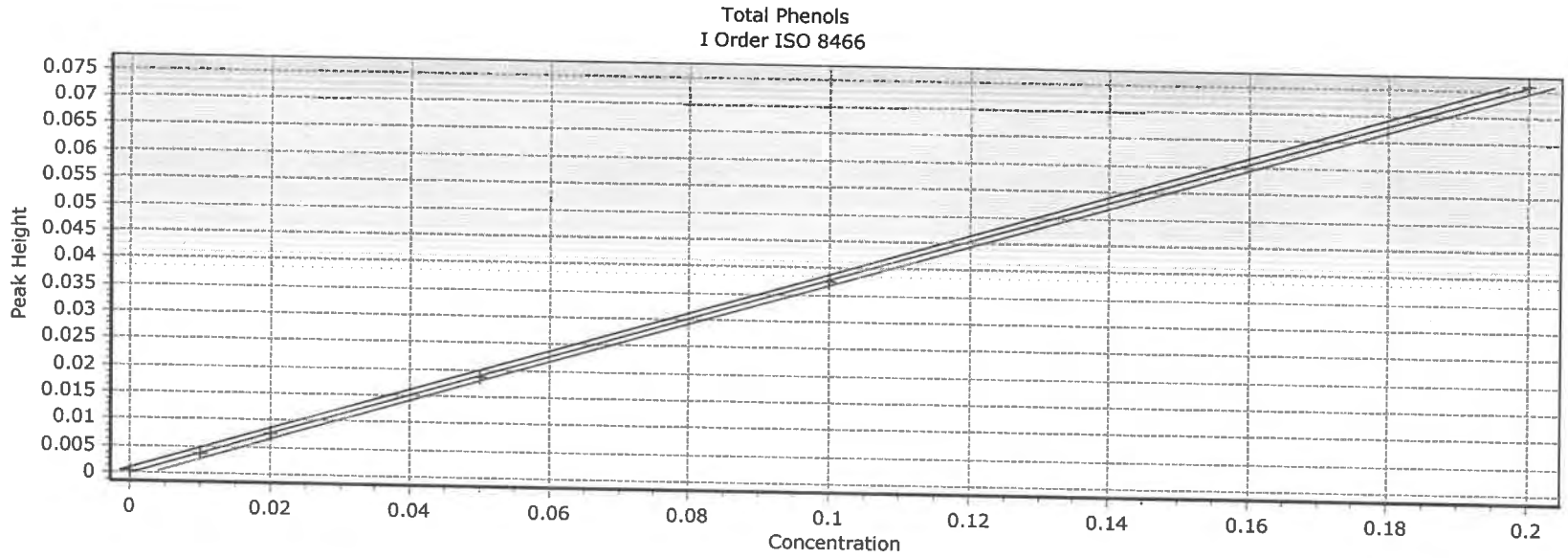
Skalar: Curve - 6813906

ICV @ 0.1 ppm – 6815481 **EXP:** 12/15/2021

608721

FlowAccessV3

Date:12/14/2021 8:57 AM



a = 0.00002510391705 b = 0.37833099078341 RSD = 0.00032889190661

r = 0.99994776518828 R2 = 0.99989553310503 Detection Limit = 0.00211734851827209 Determination L

Run Name : TABUF20211214A0PHE1214202, Run Db Ref : TABUF20211214A0

User Name : Administrator Operator Name : Administrator

608721

Run Name : TABUF20211214A0PHE12142021A, Run Database Ref : TABUF20211214A0
DateTime :12/14/2021 5:24:37 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
1	IW	IW	InitialWash		1.0000	-0.0001	0.0000	Dec 14 2021 5:37AM	-6.6E-05
2	A1	T	Tracer		1.0000	0.1977	0.0748	Dec 14 2021 5:38AM	0.197684
3	WT	W	Wash		1.0000	-0.0001	0.0000	Dec 14 2021 5:42AM	-6.6E-05
4	A2	S1	Standard1		1.0000	0.0012	0.0005	Dec 14 2021 5:46AM	0.001214
5	A3	S2	Standard2		1.0000	0.0098	0.0037	Dec 14 2021 5:49AM	0.009813
6	A4	S3	Standard3		1.0000	0.0199	0.0076	Dec 14 2021 5:53AM	0.019935
7	A5	S4	Standard4		1.0000	0.0491	0.0186	Dec 14 2021 5:56AM	0.049149
8	A6	S5	Standard5		1.0000	0.0993	0.0376	Dec 14 2021 6:00AM	0.09932
9	A7	S6	Standard6		1.0000	0.2006	0.0759	Dec 14 2021 6:04AM	0.200569
10	A8	ICV	ICV		1.0000	0.1004	0.0380	Dec 14 2021 6:07AM	0.100372
11	A9	ICB	ICB		1.0000	0.0010	0.0004	Dec 14 2021 6:11AM	0.000986
12	A10	D	Drift		1.0000	0.1866	0.0706	Dec 14 2021 6:15AM	0.186573
13	WT	W	Wash		1.0000	-0.0001	0.0000	Dec 14 2021 6:20AM	-6.6E-05
14	A11	CCV	CCV		1.0000	0.0932	0.0353	Dec 14 2021 6:22AM	0.093152
15	A12	CCB	CCB		1.0000	0.0002	0.0001	Dec 14 2021 6:26AM	0.000157
16	A13	B	MB		1.0000	-0.0007	-0.0003	Dec 14 2021 6:29AM	-0.000745
17	A14	LCS	LCS		1.0000	0.0943	0.0357	Dec 14 2021 6:33AM	0.094302
18	A15	U	480-193336-o-5		1.0000	0.0036	0.0011	Dec 14 2021 6:37AM	0.003587
19	A16	U	MS 480-193336-o-5		1.0000	0.0942	0.0354	Dec 14 2021 6:40AM	0.094236
20	A17	U	480-193264-f-1	5ml → 10ml	2.0000	0.2510	0.0474	Dec 14 2021 6:44AM	0.125496
21	A18	U	480-193336-o-6		1.0000	0.0100	0.0035	Dec 14 2021 6:48AM	0.009953
22	A19	U	480-193336-o-7		1.0000	0.0018	0.0004	Dec 14 2021 6:52AM	0.001772
23	A20	U	480-193369-f-1		1.0000	0.0003	-0.0002	Dec 14 2021 6:56AM	0.000273
24	A21	U	480-193369-f-2		1.0000	0.0004	-0.0001	Dec 14 2021 6:59AM	0.000442
25	A22	U	480-193369-f-4		1.0000	0.0001	-0.0002	Dec 14 2021 7:03AM	8.3E-05
26	A23	CCV	CCV		1.0000	0.0904	0.0342	Dec 14 2021 7:06AM	0.090424
27	A24	CCB	CCB		1.0000	-0.0004	-0.0001	Dec 14 2021 7:10AM	-0.000363

FlowAccessV3 Results Report

Run Name : TABUF20211214A0PHE12142021A, Run Database Ref : TABUF20211214A0
DateTime :12/14/2021 5:24:37 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
28	A25	D	Drift		1.0000	0.1932	0.0731	Dec 14 2021 7:13AM	0.193206
29	WT	W	Wash		1.0000	-0.0001	0.0000	Dec 14 2021 7:18AM	-6.6E-05
30	A26	U	480-193369-f-3		1.0000	0.0002	-0.0002	Dec 14 2021 7:21AM	0.000182
31	A27	U	DU 480-193369-f-3		1.0000	0.0003	-0.0002	Dec 14 2021 7:24AM	0.000266
32	A28	U	MS 480-193369-f-3		1.0000	0.0978	0.0367	Dec 14 2021 7:28AM	0.09776
33	A29	U	480-193369-f-5		1.0000	0.0011	0.0002	Dec 14 2021 7:32AM	0.001096
34	A30	U	480-193265-f-5	5ml→10ml	2.0000	-0.0002	-0.0002	Dec 14 2021 7:35AM	-0.000125
35	A31	U	480-193264-f-8	1	2.0000	0.2411	0.0455	Dec 14 2021 7:39AM	0.120539
36	A32	U	480-193330-f-1		2.0000	0.0044	0.0007	Dec 14 2021 7:43AM	0.00222
37	A33	U	480-193330-f-1	2ml →10ml	5.0000	0.0067	0.0005	Dec 14 2021 7:46AM	0.001343
38	A34	U	480-193330-f-1	1ml →10ml	10.0000	0.0120	0.0005	Dec 14 2021 7:50AM	0.001198
39	A35	U			1.0000	3.5685	1.3498	Dec 14 2021 7:54AM	3.568462
40	WT	W	Wash		1.0000	-0.0001	0.0000	Dec 14 2021 7:56AM	-6.6E-05
41	A36	CCV	CCV		1.0000	4.5423	1.7185	Dec 14 2021 8:01AM	4.542264
42	A37	CCB	CCB		1.0000	3.8360	1.4513	Dec 14 2021 8:07AM	3.835995
43	A38	D	Drift		1.0000	3.4612	1.3095	Dec 14 2021 8:11AM	3.461206
44	WT	W	Wash		1.0000	-0.0001	0.0000	Dec 14 2021 8:15AM	-6.6E-05
45	A39	B	MB		1.0000	4.0721	1.5406	Dec 14 2021 8:18AM	4.072119
46	A40	LCS	LCS		1.0000	4.3704	1.6535	Dec 14 2021 8:22AM	4.370394
47	A41	U	unknown		1.0000	-0.5044	1.3498	Dec 14 2021 8:26AM	-0.504443
48	A49	CCV	CCV		1.0000	3.5410	1.3397	Dec 14 2021 8:30AM	3.540998
49	A50	CCB	CCB		1.0000	4.0360	1.5270	Dec 14 2021 8:33AM	4.036019
50	A51	D	Drift		1.0000	3.8135	1.4428	Dec 14 2021 8:37AM	3.813455
51	WT	W	Wash		1.0000	-0.0001	0.0000	Dec 14 2021 8:41AM	-6.6E-05
52	E	E	EndRun		1.0000	-0.0001	0.0000	Dec 14 2021 8:44AM	-6.6E-05

Historical Data Summary Report

For Batch 608721

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193264-F-1	08-147-1R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	2.0000	0.25	☐	0 - 0.271	☐	0.034 - 0.288
480-193336-O-5	SLC-1A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.044	☐	0 - 0.04
480-193336-O-6	PLC-1A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	0.010	☐	0 - 0.054	☐	0 - 0.05
480-193336-O-7	LD-1	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.03	☐	0 - 0.032
480-193369-F-1	MW-1A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193369-F-2	MW-2A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.034	☐	0 - 0.035
480-193369-F-4	MW-1B	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.012	☐	0 - 0.013

608788

Solutions Used: Skalar Scan+

TOTAL RECOVERABLE PHENOLICS

Intermediate@10ppm ricca	6813906	EXP: 12/20/2021
Intermediate@10ppm Ricca 2nd lot	6813907	EXP: 12/20/2021
CCV@0.1ppm	6815480	EXP: 12/15/2021
Potassium Ferricyanide	6815477	EXP: 12/15/2021
4-Aminoantipyrene	6815476	EXP: 12/15/2021
Distillation Reagent	6813910	EXP: 12/20/2021

LCS/CCV/MS/MSD = 0.1 ppm

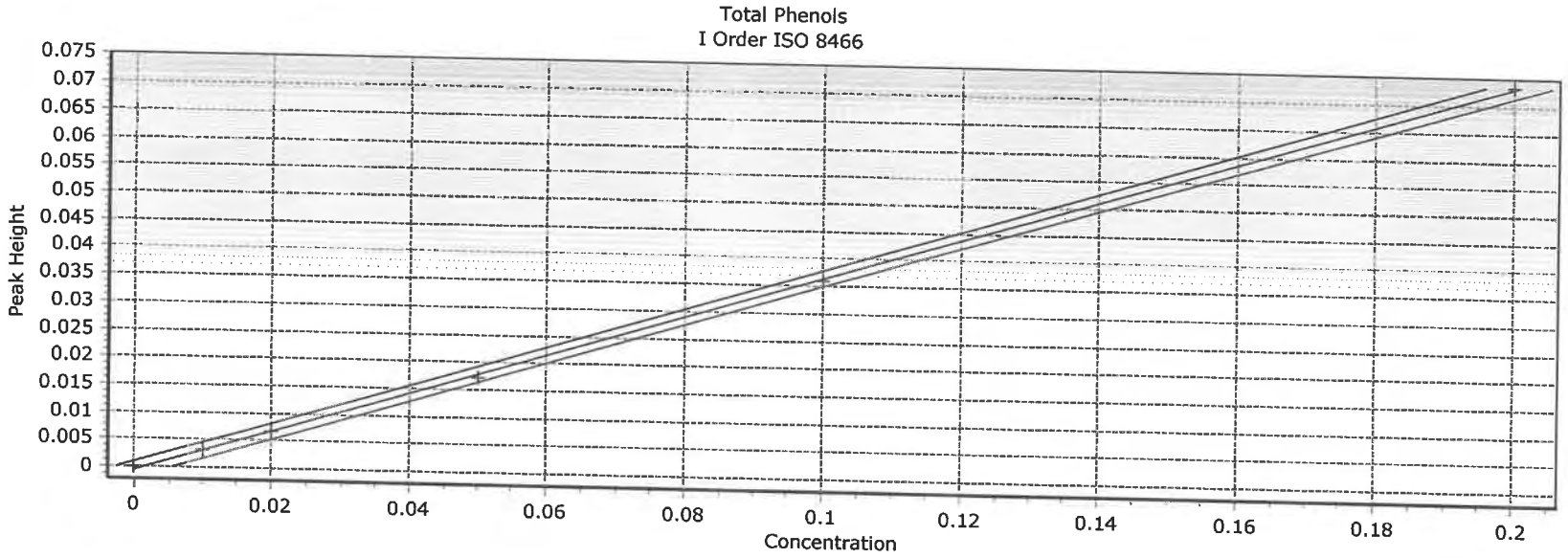
Skalar: Curve - 6813906

ICV @ 0.1 ppm – 6815481 **EXP:** 12/15/2021

608788

FlowAccessV3

Date:12/14/2021 12:06 PM



a = -0.00062013709677 b = 0.36916532258065 RSD = 0.00047404655371

r = 0.99988603868014 R2 = 0.99977209034747 Detection Limit = 0.00312759978982751 Determination L

Run Name : TABUF20211214A2PHE1214202, Run Db Ref : TABUF20211214A2

User Name : Administrator Operator Name : Administrator

608788

Run Name : TABUF20211214A2PHE12142021B, Run Database Ref : TABUF20211214A2
DateTime :12/14/2021 9:24:14 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
1	IW	IW	InitialWash		1.0000	0.0017	0.0000	Dec 14 2021 9:37AM	0.00168
2	A1	T	Tracer		1.0000	0.1982	0.0725	Dec 14 2021 9:38AM	0.198202
3	WT	W	Wash		1.0000	0.0017	0.0000	Dec 14 2021 9:44AM	0.00168
4	A2	S1	Standard1		1.0000	0.0015	-0.0001	Dec 14 2021 9:49AM	0.00152
5	A3	S2	Standard2		1.0000	0.0101	0.0031	Dec 14 2021 9:52AM	0.010145
6	A4	S3	Standard3		1.0000	0.0200	0.0068	Dec 14 2021 9:55AM	0.020013
7	A5	S4	Standard4		1.0000	0.0485	0.0173	Dec 14 2021 9:59AM	0.048499
8	A6	S5	Standard5		1.0000	0.0989	0.0359	Dec 14 2021 10:03AM	0.098913
9	A7	S6	Standard6		1.0000	0.2009	0.0735	Dec 14 2021 10:06AM	0.20091
10	A8	ICV	ICV		1.0000	0.1001	0.0363	Dec 14 2021 10:10AM	0.100091
11	A9	ICB	ICB		1.0000	0.0026	0.0003	Dec 14 2021 10:13AM	0.002563
12	A10	D	Drift		1.0000	0.1888	0.0691	Dec 14 2021 10:17AM	0.188797
13	WT	W	Wash		1.0000	0.0017	0.0000	Dec 14 2021 10:21AM	0.00168
14	A11	CCV	CCV		1.0000	0.0945	0.0343	Dec 14 2021 10:26AM	0.094509
15	A12	CCB	CCB		1.0000	0.0012	-0.0002	Dec 14 2021 10:28AM	0.001223
16	A13	B	MB		1.0000	0.0007	-0.0004	Dec 14 2021 10:32AM	0.000706
17	A14	LCS	LCS		1.0000	0.0937	0.0340	Dec 14 2021 10:36AM	0.093709
18	A25	D	Drift		1.0000	0.1975	0.0723	Dec 14 2021 10:39AM	0.197459
19	WT	W	Wash		1.0000	0.0017	0.0000	Dec 14 2021 10:43AM	0.00168
20	A26	U	480-193369-f-3		1.0000	0.0028	0.0007	Dec 14 2021 10:47AM	0.002773
21	A27	U	DU 480-193369-f-3		1.0000	0.0042	0.0012	Dec 14 2021 10:50AM	0.004232
22	A28	U	MS 480-193369-f-3		1.0000	0.0997	0.0364	Dec 14 2021 10:54AM	0.099672
23	A29	U	480-193369-f-5		1.0000	0.0051	0.0015	Dec 14 2021 10:57AM	0.005078
24	A30	U	480-193265-f-8	5ml>10ml	2.0000	0.2365	0.0432	Dec 14 2021 11:01AM	0.118259
25	A31	U	480-193330-F-1		1.0000	0.0042	0.0012	Dec 14 2021 11:05AM	0.004248
26	WT	W	Wash		1.0000	0.0017	0.0000	Dec 14 2021 11:09AM	0.00168
27	A36	CCV	CCV		1.0000	0.0907	0.0329	Dec 14 2021 11:14AM	0.090734

DateTime :12/14/2021:12:07 PM

12/23/2021

FlowAccessV3 Results Report

Run Name : TABUF20211214A2PHE12142021B, Run Database Ref : TABUF20211214A2
DateTime :12/14/2021 9:24:14 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
28	A37	CCB	CCB		1.0000	0.0155	0.0051	Dec 14 2021 11:16AM	0.015476
29	A38	D	Drift		1.0000	0.1958	0.0717	Dec 14 2021 11:19AM	0.195803
30	WT	W	Wash		1.0000	0.0017	0.0000	Dec 14 2021 11:23AM	0.00168
31	E	E	EndRun		1.0000	0.0017	0.0000	Dec 14 2021 11:28AM	0.00168

Historical Data Summary Report

For Batch 608788

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193330-F-1	MW401	9066_NP	Total Recoverable Phenolics	Total/NA	mg/L	4	1.0000	ND	☐	0 - 0.017	☐	0 - 0.013
480-193369-F-3	MW-2B	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193369-F-5	DUP MW-1B	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	1	1.0000	ND	☐	0 - 0	☐	0 - 0

Laboratory Bench Sheet
Hexavalent Chromium

Analyst:	KEB
Start Date:	9/28/2021
Start Time:	8:55
End Date:	9/28/2021
End Time	9:20
DATE OF CURVE=	9/17/2021
	.
LOQ/RL: 0.010	mg/L

Calibration Curve Information		
	Conc.(mg/L)	ABS.
STD1	0.000	0.000
Std. 2	0.010	0.009
Std. 3	0.020	0.015
Std. 4	0.050	0.040
Std. 5	0.100	0.081
Std. 6	0.200	0.159
Std. 7	0.300	0.238
Std. 8	0.400	0.312

LCS Information:		
Lot#:	6642464	
Concentration (mg/L):		10
Expiration Date:		10/02/21
LCS	True value:	0.05
Matrix Spike Information:		
Lot#:	6642464	
Concentration (mg/L):		10
Expiration Date:		10/02/21
MS	True Value	0.05

BATCH # 599173	
Instrument Information	
Instrument:	Genesys 30
Wavelength:	540
Parameter:	Hexavalent Chromium
Corr. Coef:	0.99991
Slope:	0.78372
Intercept:	0.00095

Filter Lot # A29544861
Hex Std used for curve: 6314907
EPP # Chroma Ver3 Pillow Packets: A1176

Time	Job #	Sample ID	Final Vol.	Sample	Color Blk.Corr.	Corrected	D.F.		Final Conc.	% Rec.	pH 1.5 - 2.5
			(mL)	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		Yes or No
8:58	MB IC	0	25	0.000	0.000	0.000	1	0	0.0000		YES
	6665218	0.01	25	0.008	0.000	0.008	1	0.0090	0.0090		YES
	6665219	0.02	25	0.018	0.000	0.018	1	0.0218	0.0218		YES
	6665226	0.05	25	0.037	0.000	0.037	1	0.0460	0.0460		YES
	6665227	0.10	25	0.079	0.000	0.079	1	0.0996	0.0996		YES
9:10	6665229	0.20	25	0.153	0.000	0.153	1	0.1940	0.1940		YES
	6665231	0.30	25	0.232	0.000	0.232	1	0.2948	0.2948		YES
	6665232	0.40	25	0.306	0.000	0.306	1	0.3892	0.3892		YES
	ICV	ICV	25	0.155	0.000	0.155	1	0.1966	0.1966	98.3%	YES
	ICB	0	25	0.000	0.000	0.000	1	0	0.0000		YES
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
	CCV	CCV	25			0.000	1	0	0.0000	0%	
	CCB	CCB	25			0.000	1	0	0.0000		

$$ICV = \frac{0.1966}{0.2000} \times 100 = 98.3\%$$

Laboratory Bench Sheet
Hexavalent Chromium

Eurofins TestAmerica - Buffalo

Analyst:	MJB	**Calibration Curve Information**			**LCS Information:**		A1176	**BATCH #**	608674		
Start Date:	12/13/21		Conc.(mg/L)	ABS.	Lot#:	**6805695**		**Instrument Information**			
Start Time:	14:10	STD1	0.000	0.000	Concentration (mg/L):		10	Instrument:	Genesys 30		
End Date:	12/13/21	Std. 2	0.010	0.008	Expiration Date:		10/02/21	Wavelength:	540		
End Time	15:00	Std. 3	0.020	0.018	LCS	True value:	0.05	Parameter:	Hexavalent Chromium		
DATE OF CURVE=	9/28/2021	Std. 4	0.050	0.037	**Matrix Spike Information:**			**Corr. Coef:**	**0.99992**		
	.	Std. 5	0.100	0.079	Lot#:	6642464		**Slope:**	**0.76549**		
LOQ/RL: 0.010	mg/L	Std. 6	0.200	0.153	Concentration (mg/L):		10	**Intercept:**	**0.00078**		
		Std. 7	0.300	0.232	Expiration Date:		10/02/21				
Filter Lot #	A29544861	Std. 8	0.400	0.306	MS	True Value	0.05				
EPP #		Hex Std used for curve:		6314907	Chroma Ver3 Pillow Packets:		A1176				

Time	Job #	Sample ID	Final Vol.	Sample	Color Blk.Corr.	Corrected	D.F.		Final Conc.	% Rec.	pH 1.5 - 2.5
			(mL)	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		Yes or No
14:10	CCV	CCV	25	0.044	0.000	0.044	1	0.0565	0.0565	113%	Yes
	CCB	CCB	25	0.000	0.000	0.000	1	0	0.0000		Yes
	MB	MB	25	0.000	0.000	0.000	1	0	0.0000		Yes
	LCS	LCS	25	0.041	0.000	0.041	1	0.0525	0.0525	105%	Yes
14:25	193336	T5	25	0.000	0.000	0.000	1	0	0.0000		Yes
		T6	25	0.045	0.022	0.023	1	0.0290	0.0290		Yes
		T7	25	0.000	0.000	0.000	1	0	0.0000		Yes
		T6-DU	25	0.044	0.023	0.021	1	0.0264	0.0264		Yes
		T7-MS	25	0.037	0.000	0.037	1	0.0473	0.0473		Yes
14:40	193369	J1	25	0.000	0.000	0.000	1	0	0.0000		Yes
		J2	25	0.000	0.000	0.000	1	0	0.0000		Yes
		J3	25	0.000	0.000	0.000	1	0	0.0000		Yes
	CCV	CCV	25	0.043	0.000	0.043	1	0.0551	0.0551	110%	Yes
	CCB	CCB	25	0.000	0.000	0.000	1	0	0.0000		Yes
14:53	193369	J4	25	0.000	0.000	0.000	1	0	0.0000		Yes
		J4-MS	25	0.040	0.000	0.040	1	0.0512	0.0512		Yes
		J5	25	0.000	0.000	0.000	1	0	0.0000		Yes
		J5-DU	25	0.000	0.000	0.000	1	0	0.0000		Yes
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
14:53	CCV	CCV	25	0.042	0.000	0.042	1	0.0538	0.0538	108%	Yes
	CCB	CCB	25	0.000	0.000	0.000	1	0	0.0000		Yes

Historical Data Summary Report

For Batch 608674

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193336-T-5	SLC-1A	7196A	Chromium, hexavalent	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193336-T-6	PLC-1A	7196A	Chromium, hexavalent	Total/NA	mg/L	8	1.0	0.029	☑	0 - 0	☑	0 - 0
480-193336-T-7	LD-1	7196A	Chromium, hexavalent	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-J-1	MW-1A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-J-2	MW-2A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-J-3	MW-2B	7196A	Chromium, hexavalent	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-J-4	MW-1B	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-J-5	DUP MW-1B	7196A	Chromium, hexavalent	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0

TestAmerica Buffalo
COLOR LOGBOOK
SM2120B
Logbook # A21-25

DATE: 12/13/21 ANALYST: MJB BATCH ID #: 608673

Start Time: 16:06 End Time: 16:40

Date of Calibration Curve: 11/23/21 Calibration Expires: 12/23/21
Curve ID: 606385

LCS TALS ID#: 6292177 LCS True Value 30 CU LCS/CCV Limits: 90 – 110 %
CCV TALS ID#: I CCV True Value 30 CU Precision Limits: 80 – 120 %

	Job# / QC	Sample ID#	Filtered Y/N	Sample pH	Color Units Observed	Dilution	Final Conc. (CU)	Time	Comments
1	CCV	@30	N	1	30	1	30	16:06	
2	CCB	Blank	N	5	<5	1	<5	16:08	
3	MB	Blank	N	5	<5	1	<5	16:09	
4	LCS	@30	N	1	30	1	30	16:10	
5	193336	T5	Y	6	25	1	25	16:12	True Color
6	"	T6	Y	7	40	5	200	16:18	True Color
7	"	T7	N	6	30	1	30	16:20	
8	"	T7-DU	N	6	30	1	30	16:21	
9	193369	J1	Y	6	5	1	5	16:24	True Color
10	"	J2	Y	6	10	1	10	16:29	True Color
11	"	J3	N	6	10	1	10	16:31	
12	"	J4	N	6	5	1	5	16:33	
13	CCV	@30	N	1	30	1	30	16:34	
14	CCB	Blank	N	5	<5	1	<5	16:35	
15	193369	J5	N	6	5	1	5	16:36	
16	"	J5-DU	N	6	5	1	5	16:37	
17	CCV	@30	N	1	30	1	30	16:39	
18	CCB	Blank	N	5	<5	1	<5	16:40	
19									
20									
21									
22									
23					MJB	12/13/21			
24									
25									
26									

Reviewer MJB Date: 12/13/21

Color Logbook, BF-WC-LB-003 Rev.2
Apr 30, 2019

72/100

Historical Data Summary Report

For Batch 608673

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193336-T-5	SLC-1A	2120B	Color	Total/NA	Color Unit	8	1.0	25.0	☐	0 - 82.67	☐	0 - 84
480-193336-T-6	PLC-1A	2120B	Color	Total/NA	Color Unit	8	5	200	☐	0 - 336.149	☐	56 - 300
480-193336-T-7	LD-1	2120B	Color	Total/NA	Color Unit	8	1.0	30.0	☐	0 - 32.411	☑	0 - 24
480-193369-J-1	MW-1A	2120B	Color	Total/NA	Color Unit	5	1.0	5.00	☐	0 - 23.974	☐	0 - 18
480-193369-J-2	MW-2A	2120B	Color	Total/NA	Color Unit	5	1.0	10.0	☐	0 - 41.594	☐	0 - 30
480-193369-J-3	MW-2B	2120B	Color	Total/NA	Color Unit	8	1.0	10.0	☐	0 - 31.679	☐	0 - 30
480-193369-J-4	MW-1B	2120B	Color	Total/NA	Color Unit	5	1.0	5.00	☐	0 - 15	☐	0 - 12
480-193369-J-5	DUP MW-1B	2120B	Color	Total/NA	Color Unit	1	1.0	5.00	☑	0 - 0	☑	0 - 0

Ion Chromatography Data Review Checklist

LIMS Batch Number: 599884-887	Worklist: 101558	Instrument ID (circle one): IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	Method (circle): 300.0, 314.0, 9056, 7199, SM4110, VFA 28D1481	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		✓		✓	
2. Elution order of analytes in ICAL confirmed to be correct		✓		✓	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)		✓		✓	
4. ICV, second source: run before samples 90-110% recovery		✓		✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓		✓	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)		✓		✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	✓			X	If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%	✓			X	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		✓		✓	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)		✓		✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*		✓		✓	☐ No analyte > RL in associated samples ☐ Sample results >10x blank ☐ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*		✓		✓	☐ Insufficient sample for reanalysis ☐ LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*				✓	□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%				✓	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Out of control QC is clearly identified			✓	
d. Any data that has a qualifier tick is commented on with appropriate action taken			✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature			✓	
16. Run Log				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Analyst initials/signature provided			✓	
17. TALS Samples Tab			✓	
a. LIMS Sample IDs / Containers are correct			✓	
b. Method and matrix are correct			✓	
c. Date and time match raw data			✓	
d. Dilutions are correct			✓	
e. Correct suffix designated (where applicable)			✓	
18. TALS Worksheet Tab is complete and correct			✓	
19. TALS Reagent Tab is complete and correct			✓	
20. TALS QC Links Tab is correct			✓	
21. TALS Sample Results Tab			✓	
a. All unused data are marked Rejected or Accepted				
b. All reported analytes are marked Primary or Secondary			✓	
22. TALS Batch Information Screen documentation is complete			✓	
23. TALS Status set to appropriate review level			✓	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			✓	
25. Results for samples and QC correct on final report?			✓	
26. Are all necessary scanned documents in TALS?			✓	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			✓	

2nd Reviewer: BS **Review Date:** 10/12/21

Comments:

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Instrument: IC-6
Lock State: Initial Calib Locked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 11-Oct-2021 17:17:32

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b
Inj Date : 11-Oct-2021 12:37:00, Sublist: chrom-IC6-300*sub1

Limit Group: MB SM4110B ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
1 Fluoride	20543780	20214130	22420246	24985952	25434290	25040819	23554767	-211153	24010655	WLinr	7.0	0.995	
	3.1	-11.4	-4.9	4.5	6.1	4.4	-1.9						
2 Chloride	13465362	14725848	15181098	15622542	15809152	15939397	15750854	-1163008	15676176	WLinr	1.6	1.000	
	0.7	-2.4	-1.7	0.0	1.0	1.8	0.5						
4 Bromide	3596920	4907185	5076084	5666920	6043916	6270931	6591830	-126129	5952356	WLinr	8.2	0.994	
	2.8	-7.0	-10.5	-3.7	2.0	5.6	10.8						
5 Sulfate	9549570	10611321	11033055	11430744	11562983	11621390	11503741	-995767	11440859	WLinr	1.9	1.000	
	0.9	-2.9	-1.8	0.3	1.2	1.7	0.6						

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m

Instrument: IC-6
Lock State: Initial Calib Locked
Integrator: Falcon
No.Compounds:6

Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 11-Oct-2021 17:17:32

Limit Group: MB SM4110B ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_55.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.480	3.487	3.490	3.493	3.500	3.507	3.513	3.496	0.334	3.500
2 Chloride	5.220	5.223	5.223	5.217	5.210	5.200	5.180	5.210	0.303	5.210
4 Bromide	8.967	8.953	8.947	8.933	8.913	8.883	8.827	8.918	0.546	8.913
5 Sulfate	9.630	9.630	9.623	9.587	9.527	9.447	9.323	9.538	1.219	9.527

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Instrument: IC-6
Lock State: Initial Calib Locked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 11-Oct-2021 17:17:32

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b
Inj Date : 11-Oct-2021 12:37:00, Sublist: chrom-IC6-300*sub1

Limit Group: MB 300.0_28D ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
1 Fluoride	20543780	20214130	22420246	24985952	25434290	25040819	23554767	-211153	24010655	WLinr	7.0	0.995	
	3.1	-11.4	-4.9	4.5	6.1	4.4	-1.9						
2 Chloride	13465362	14725848	15181098	15622542	15809152	15939397	15750854	-1163008	15676176	WLinr	1.6	1.000	
	0.7	-2.4	-1.7	0.0	1.0	1.8	0.5						
4 Bromide	3596920	4907185	5076084	5666920	6043916	6270931	6591830	-126129	5952356	WLinr	8.2	0.994	
	2.8	-7.0	-10.5	-3.7	2.0	5.6	10.8						
5 Sulfate	9549570	10611321	11033055	11430744	11562983	11621390	11503741	-995767	11440859	WLinr	1.9	1.000	
	0.9	-2.9	-1.8	0.3	1.2	1.7	0.6						

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m

Instrument:	IC-6	Lims Location:	480
Lock State:	Initial Calib Locked	Cpnd Order:	Retention Time
Integrator:	Falcon	Last Modified:	11-Oct-2021 17:17:32

No.Compounds:6

Limit Group: MB 300.0_28D ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_55.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.480	3.487	3.490	3.493	3.500	3.507	3.513	3.496	0.334	3.500
2 Chloride	5.220	5.223	5.223	5.217	5.210	5.200	5.180	5.210	0.303	5.210
4 Bromide	8.967	8.953	8.947	8.933	8.913	8.883	8.827	8.918	0.546	8.913
5 Sulfate	9.630	9.630	9.623	9.587	9.527	9.447	9.323	9.538	1.219	9.527

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Instrument: IC-6
Lock State: Initial Calib Locked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 11-Oct-2021 17:17:32

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b
Inj Date : 11-Oct-2021 12:37:00, Sublist: chrom-IC6-300*sub1

Limit Group: MB 9056 ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
1 Fluoride	20543780	20214130	22420246	24985952	25434290	25040819	23554767	-211153	24010655	WLinr	7.0	0.995	
	3.1	-11.4	-4.9	4.5	6.1	4.4	-1.9						
2 Chloride	13465362	14725848	15181098	15622542	15809152	15939397	15750854	-1163008	15676176	WLinr	1.6	1.000	
	0.7	-2.4	-1.7	0.0	1.0	1.8	0.5						
4 Bromide	3596920	4907185	5076084	5666920	6043916	6270931	6591830	-126129	5952356	WLinr	8.2	0.994	
	2.8	-7.0	-10.5	-3.7	2.0	5.6	10.8						
5 Sulfate	9549570	10611321	11033055	11430744	11562983	11621390	11503741	-995767	11440859	WLinr	1.9	1.000	
	0.9	-2.9	-1.8	0.3	1.2	1.7	0.6						

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Instrument: IC-6 Lims Location: 480
Lock State: Initial Calib Locked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 11-Oct-2021 17:17:32
No.Compounds:6

Limit Group: MB 9056 ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_55.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.480	3.487	3.490	3.493	3.500	3.507	3.513	3.496	0.334	3.500
2 Chloride	5.220	5.223	5.223	5.217	5.210	5.200	5.180	5.210	0.303	5.210
4 Bromide	8.967	8.953	8.947	8.933	8.913	8.883	8.827	8.918	0.546	8.913
5 Sulfate	9.630	9.630	9.623	9.587	9.527	9.447	9.323	9.538	1.219	9.527

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Instrument: IC-6
Lock State: Initial Calib Locked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 11-Oct-2021 17:17:32

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b
Inj Date : 11-Oct-2021 12:37:00, Sublist: chrom-IC6-300*sub1

Limit Group: MB 300.0_48HR ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
3 Nitrite as N	28054140	30826480	32770364	35000488	34498743	33061248	30201053	-260186	33094100	WLinr	5.3	0.997	
	0.5	-2.9	0.6	6.2	4.4	0.0	-8.7						
6 Nitrate as N	27997180	32841420	36028466	39469750	40619101	41147756	41411420	-635002	39599985	WLinr	5.8	0.997	
	2.8	-9.0	-5.8	0.5	2.9	4.1	4.7						

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m

Instrument:	IC-6	Lims Location:	480
Lock State:	Initial Calib Locked	Cpnd Order:	Retention Time
Integrator:	Falcon	Last Modified:	11-Oct-2021 17:17:32

No.Compounds:6

Limit Group: MB 300.0_48HR ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_55.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
3 Nitrite as N	6.423	6.427	6.427	6.427	6.423	6.417	6.400	6.420	0.151	6.423
6 Nitrate as N	10.270	10.267	10.260	10.227	10.183	10.127	10.043	10.197	0.838	10.183

Eurofins Environment Testing America
Worklist Report

12/23/2021

Worklist Name: 2021 10 11 ICAL
Instrument Name: IC-6
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b
Upload Directory: \\Corptalsapp17\480-BF-RawData\Organics\MS\IC-6
Batch #s: 599884, 599885, 599886, 599887

Worklist Number: 101558
Chrom Method: IC6-300
Units: ul

10/11/21

Worklist ID	Lims ID	Sample Reagents	Smp Type	Cal Lvl	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0101558-001	# 1 Blank		Client		sv	5.000	mL	1.000
480-0101558-002	# 2 IC - STD1	IC_6ANION_STD_00001	IC	1	sv	5.000	mL	1.000
480-0101558-003	# 3 IC - STD2	IC_6ANION_STD_00001	IC	2	sv	5.000	mL	1.000
480-0101558-004	# 4 IC - STD3	IC_6ANION_STD_00001	IC	3	sv	5.000	mL	1.000
480-0101558-005	# 5 IC - STD4	IC_6ANION_STD_00001	IC	4	sv	5.000	mL	1.000
480-0101558-006	# 6 IC - STD5	IC_6ANION_STD_00001	IC	5	sv	5.000	mL	1.000
480-0101558-007	# 7 IC - STD6	IC_6ANION_STD_00001	IC	6	sv	5.000	mL	1.000
480-0101558-008	# 8 IC - STD7	IC_6ANION_STD_00001	IC	7	sv	5.000	mL	1.000
480-0101558-009	# 9 ICV	IC ERA_00031 WC_1000NO2STK_00037	ICV		sv	5.000	mL	1.000
480-0101558-010	#10 ICB		ICB		sv	5.000	mL	1.000
480-0101558-011	#11 MDLV	IC_6ANION_STD_00001	MDLV		sv	5.000	mL	1.000
480-0101558-012	#12 MDLV	IC_6ANION_STD_00001	MDLV		sv	5.000	mL	1.000
480-0101558-013	#13 MDLV	IC_6ANION_STD_00001	MDLV		sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Cal Lvl	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0101558-014	#14 MDLV	IC_6ANION_STD_00001	MDLV		sv	5.000	mL	1.000

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 12_37.d
Lims ID: IC - STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Oct-2021 12:37:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 1
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:28 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

First Level Reviewer: zahniseri Date: 11-Oct-2021 13:31:39

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.480	3.500	-0.020	1027189	0.0500	0.0516	
2 Chloride						
5.220	5.210	0.010	6732681	0.5000	0.5037	
3 Nitrite as N						
6.423	6.423	0.000	1402707	NC	NC	
4 Bromide						
8.967	8.913	0.054	179846	0.0500	0.0514	
5 Sulfate						
9.630	9.527	0.103	4774785	0.5000	0.5044	
6 Nitrate as N						
10.270	10.183	0.087	1399859	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 2.50 Units: uL

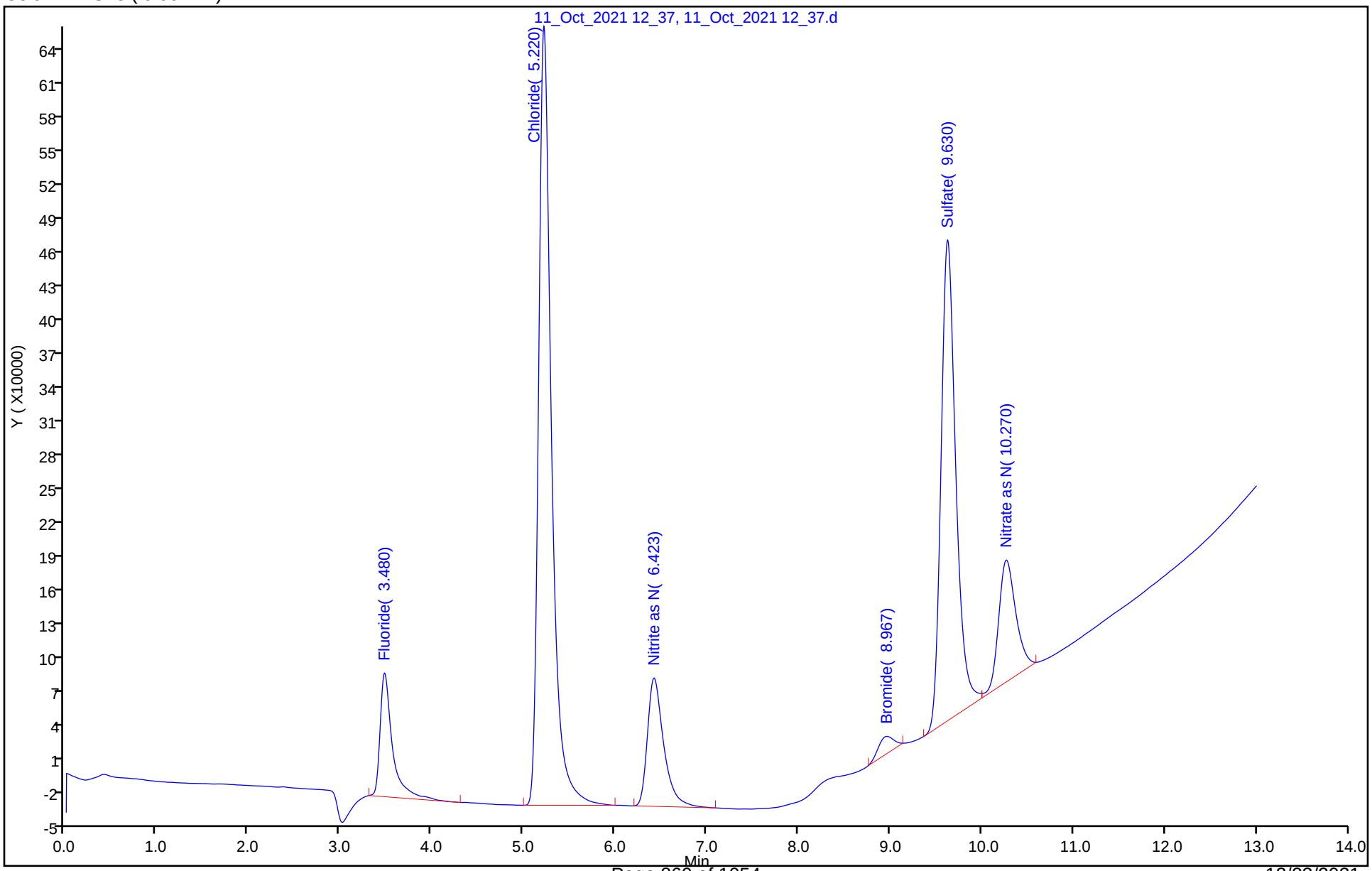
Report Date: 11-Oct-2021 17:17:28 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 12_37.d

Injection Date:	11-Oct-2021 12:37:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 12_57.d
Lims ID: IC - STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Oct-2021 12:57:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 2
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:29 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

First Level Reviewer: zahniseri Date: 11-Oct-2021 13:33:03

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.487	3.500	-0.013	4042826	0.2000	0.1772	
2 Chloride						
5.223	5.210	0.013	29451696	2.00	1.95	
3 Nitrite as N						
6.427	6.423	0.004	6165296	NC	NC	
4 Bromide						
8.953	8.913	0.040	981437	0.2000	0.1861	
5 Sulfate						
9.630	9.527	0.103	21222641	2.00	1.94	
6 Nitrate as N						
10.267	10.183	0.084	6568284	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 10.00 Units: uL

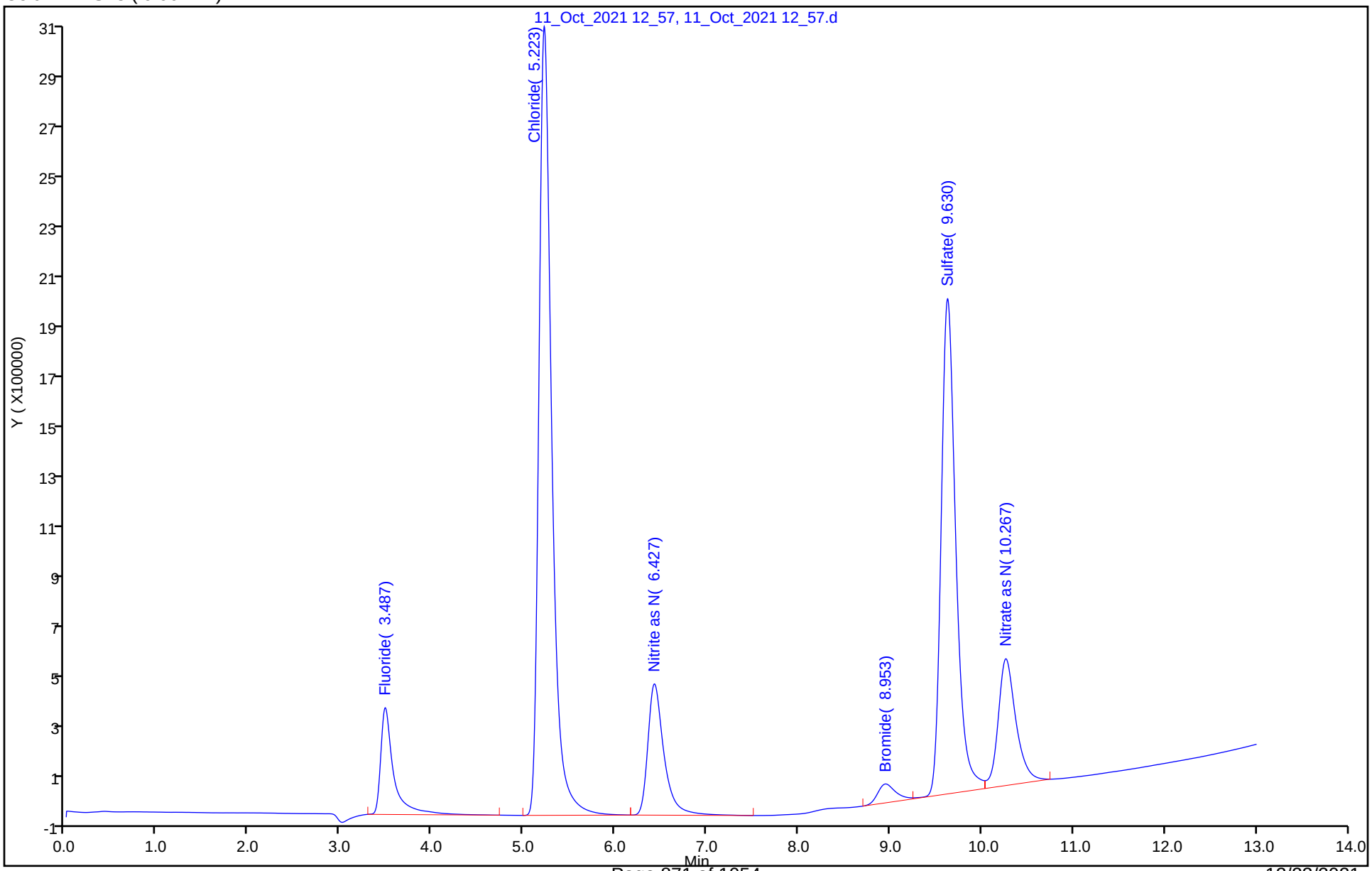
Report Date: 11-Oct-2021 17:17:29 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 12_57.d

Injection Date:	11-Oct-2021 12:57:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD2			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_16.d
Lims ID: IC - STD3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Oct-2021 13:16:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 3
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:30 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.490	3.500	-0.010	11210123	0.5000	0.4757	
2 Chloride						
5.223	5.210	0.013	75905489	5.00	4.92	
3 Nitrite as N						
6.427	6.423	0.004	16385182	NC	NC	
4 Bromide						
8.947	8.913	0.034	2538042	0.5000	0.4476	
5 Sulfate						
9.623	9.527	0.096	55165274	5.00	4.91	
6 Nitrate as N						
10.260	10.183	0.077	18014233	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 25.00 Units: uL

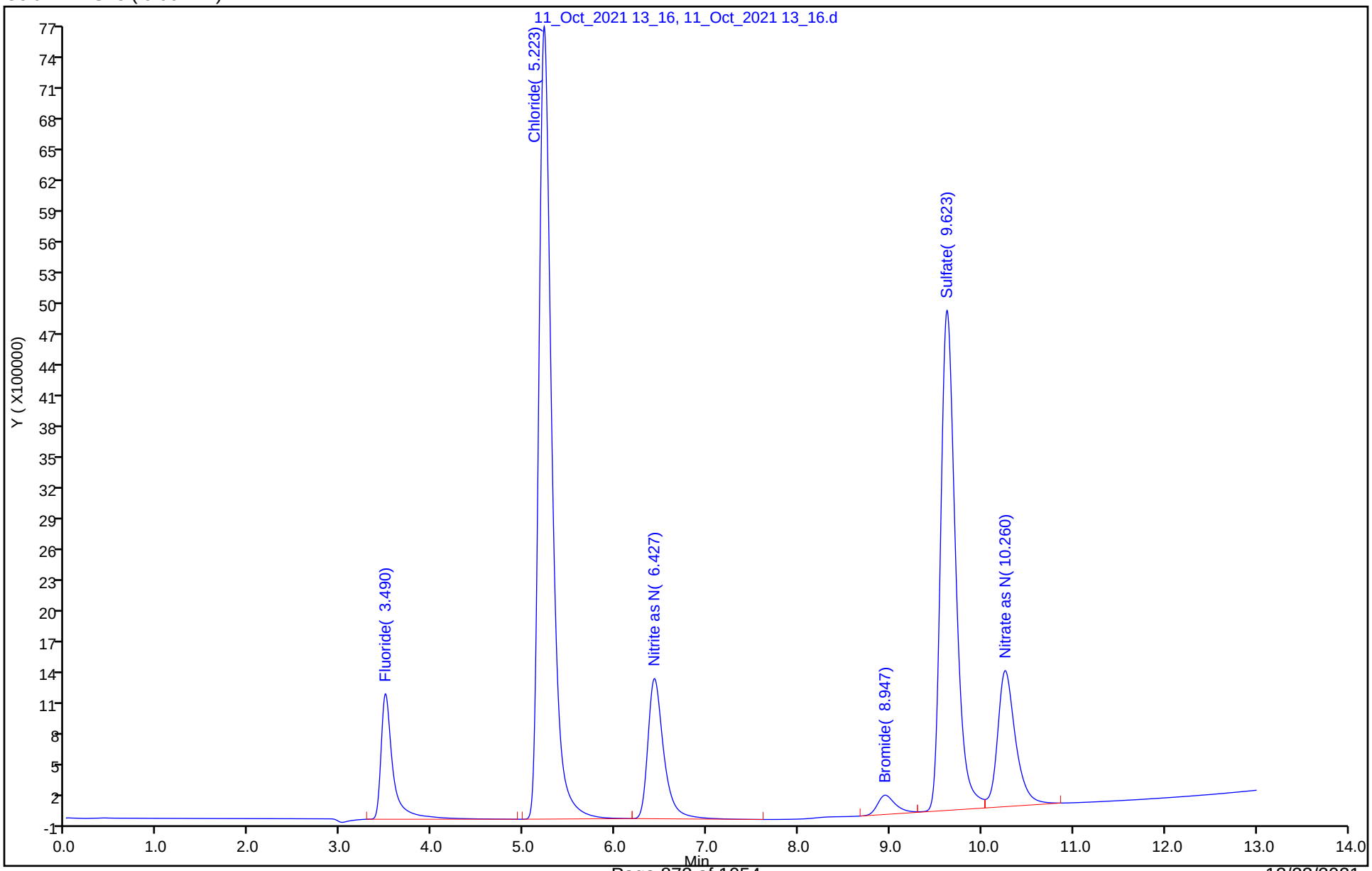
Report Date: 11-Oct-2021 17:17:30 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_16.d

Injection Date:	11-Oct-2021 13:16:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_36.d
Lims ID: IC - STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Oct-2021 13:36:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 4
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:31 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.493	3.493	0.000	49971903	2.00	2.09	
2 Chloride						
5.217	5.217	0.000	312450847	20.0	20.0	
3 Nitrite as N						
6.427	6.427	0.000	70000976	NC	NC	
4 Bromide						
8.933	8.933	0.000	11333840	2.00	1.93	
5 Sulfate						
9.587	9.587	0.000	228614873	20.0	20.1	
6 Nitrate as N						
10.227	10.227	0.000	78939500	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 100.00 Units: uL

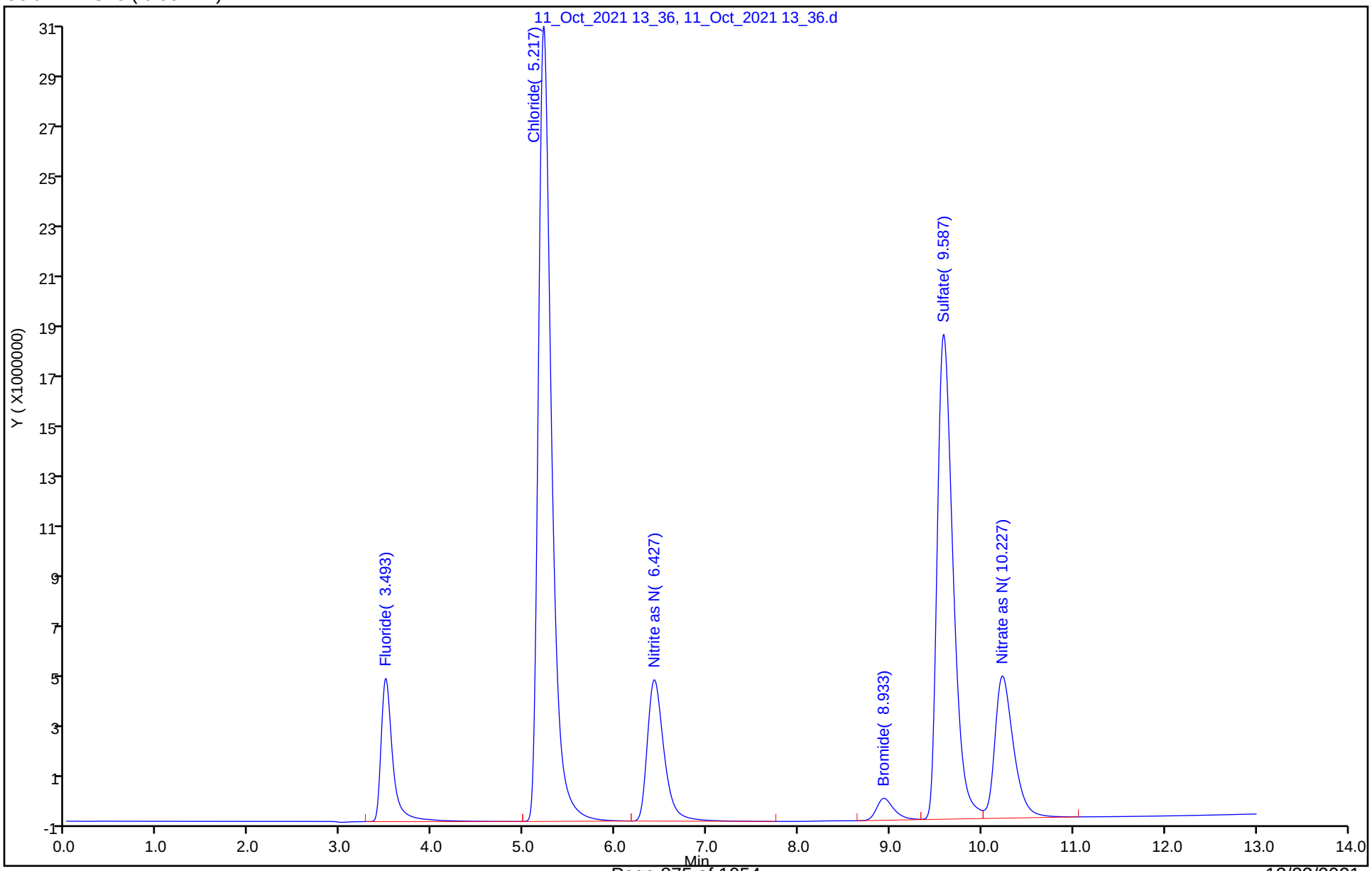
Report Date: 11-Oct-2021 17:17:31 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_36.d

Injection Date:	11-Oct-2021 13:36:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD4			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_55.d
Lims ID: IC - STD5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Oct-2021 13:55:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 5
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:31 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

First Level Reviewer: zahniseri Date: 11-Oct-2021 14:12:25

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.500	3.500	0.000	127171448	5.00	5.31	
2 Chloride						
5.210	5.210	0.000	790457613	50.0	50.5	
3 Nitrite as N						
6.423	6.423	0.000	172493714	NC	NC	
4 Bromide						
8.913	8.913	0.000	30219579	5.00	5.10	
5 Sulfate						
9.527	9.527	0.000	578149150	50.0	50.6	
6 Nitrate as N						
10.183	10.183	0.000	203095507	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 250.00 Units: uL

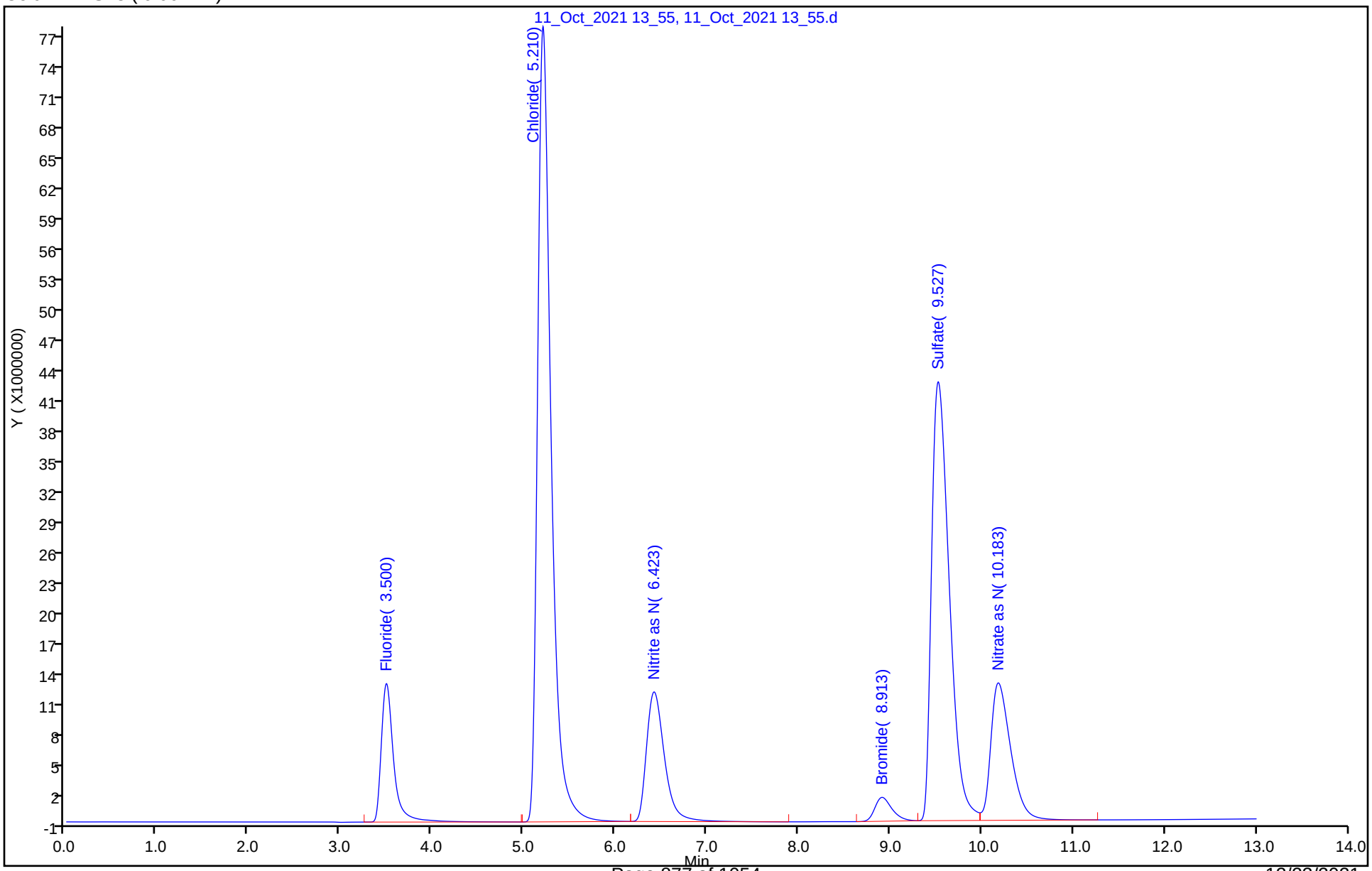
Report Date: 11-Oct-2021 17:17:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 13_55.d

Injection Date:	11-Oct-2021 13:55:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD5			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_15.d
Lims ID: IC - STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-Oct-2021 14:15:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 6
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:32 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

First Level Reviewer: zahniseri Date: 11-Oct-2021 14:58:59

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.507	3.500	0.007	250408185	10.0	10.4	
2 Chloride						
5.200	5.210	-0.010	1593939671	100.0	101.8	
3 Nitrite as N						
6.417	6.423	-0.006	330612484	NC	NC	
4 Bromide						
8.883	8.913	-0.030	62709312	10.0	10.6	
5 Sulfate						
9.447	9.527	-0.080	1162139046	100.0	101.7	
6 Nitrate as N						
10.127	10.183	-0.056	411477559	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 500.00 Units: uL

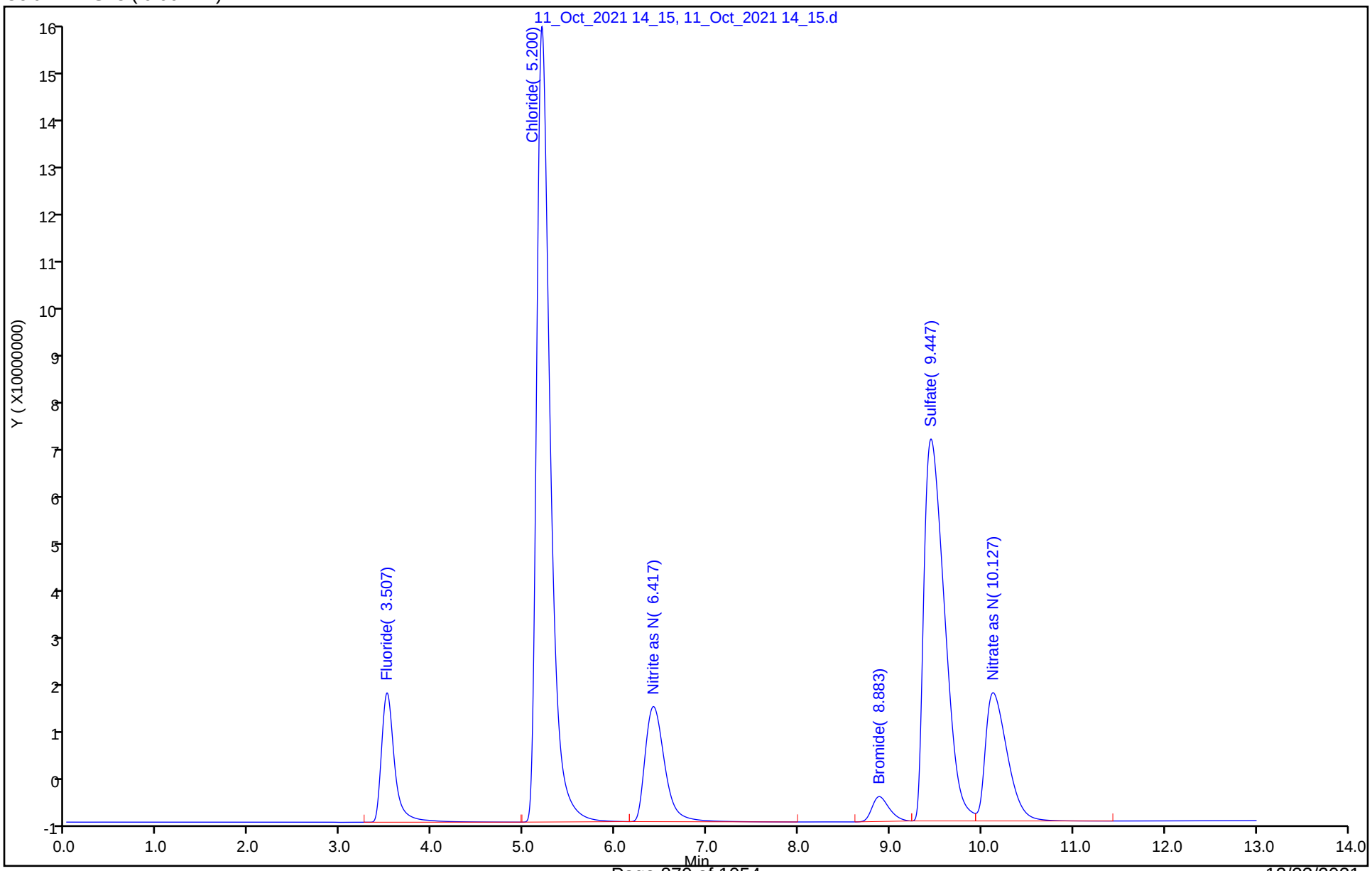
Report Date: 11-Oct-2021 17:17:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_15.d

Injection Date:	11-Oct-2021 14:15:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD6			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d
Lims ID: IC - STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Oct-2021 14:34:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 7
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 11-Oct-2021 17:17:27 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1664

First Level Reviewer: zahniseri Date: 11-Oct-2021 17:17:27

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.513	3.500	0.013	471095332	20.0	19.6	
2 Chloride						
5.180	5.210	-0.030	3150170744	200.0	201.0	
3 Nitrite as N						
6.400	6.423	-0.023	604021055	NC	NC	
4 Bromide						
8.827	8.913	-0.086	131836605	20.0	22.2	
5 Sulfate						
9.323	9.527	-0.204	2300748198	200.0	201.2	
6 Nitrate as N						
10.043	10.183	-0.140	828228398	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00001 Amount Added: 1000.00 Units: uL

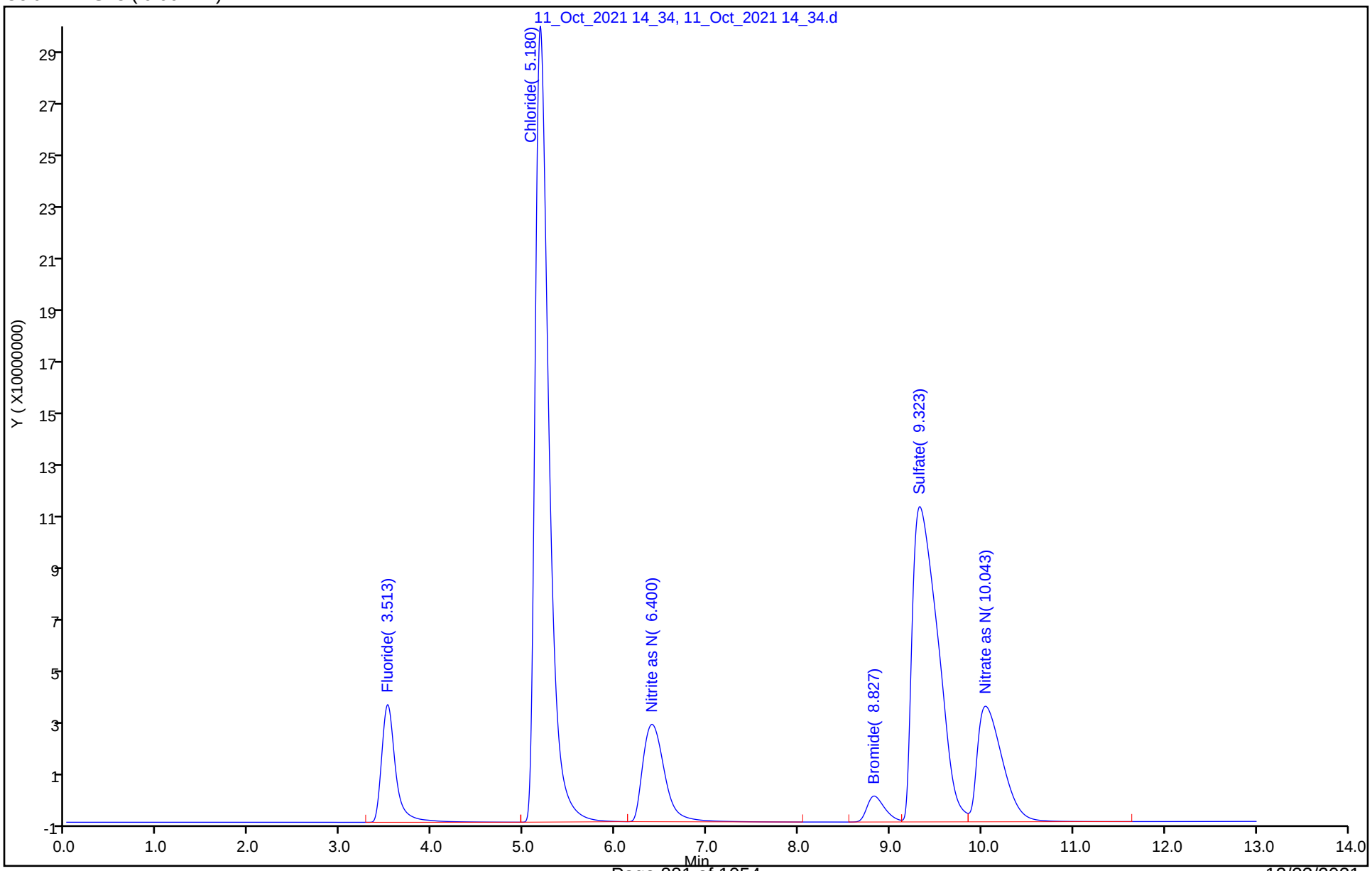
Report Date: 11-Oct-2021 17:17:27 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Injection Date:	11-Oct-2021 14:34:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	IC - STD7			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



TestAmerica *[Buffalo]*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Ion Chromatography Data Review Checklist

LIMS Batch Number: 609280, 281	**Worklist:** 103129	**Instrument ID (circle one):** IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	**Method (circle):** 300.0, 314.0, 9056, 7199, SM4110, VFA	**QC Type (circle):** Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)				✓	
2. Elution order of analytes in ICAL confirmed to be correct				✓	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)				✓	
4. ICV, second source: run before samples 90-110% recovery				✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)				✓	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)				✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)				✓	If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%				✓	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?				✓	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)				✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*				✓	□ No analyte > RL in associated samples □ Sample results >10x blank □ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*				✓	□ Insufficient sample for reanalysis □ LCS %R > QC limits & samples < RL

12/23/2021
Chawisa 12/21/2021

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*				✓	□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%				✓	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Out of control QC is clearly identified			✓	
d. Any data that has a qualifier tick is commented on with appropriate action taken			✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature			✓	
16. Run Log				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Analyst initials/signature provided			✓	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct			✓	
b. Method and matrix are correct			✓	
c. Date and time match raw data			✓	
d. Dilutions are correct			✓	
e. Correct suffix designated (where applicable)			✓	
18. TALS Worksheet Tab is complete and correct			✓	
19. TALS Reagent Tab is complete and correct			✓	
20. TALS QC Links Tab is correct			✓	
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted			✓	
b. All reported analytes are marked Primary or Secondary			✓	
22. TALS Batch Information Screen documentation is complete			✓	
23. TALS Status set to appropriate review level			✓	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			✓	
25. Results for samples and QC correct on final report?			✓	
26. Are all necessary scanned documents in TALS?			✓	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			✓	

2nd Reviewer: Chawisa **Review Date:** 12/21/2021

Comments:

Chawisa 12/21/2021

Eurofins Environment Testing America
Worklist Report

Worklist Name: 2021 12 17 A
Instrument Name: IC-6
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b
Upload Directory: \\Corptalsapp17\480-BF-RawData\Organics\MS\IC-6
Batch #s: 609280, 609281, 609282, 609283

Worklist Number: 103129
Chrom Method: IC6-300
Units: ul

12/17/21

Chawisa 12/23/2021 12/23/2021

Worklist ID	Lims ID		Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-001	# 1 CCV		IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-002	# 2 CCB			CCB	sv	5.000	mL	1.000
480-0103129-003	# 3 LCS		IC_ANION_LCS__00395	LCS	sv	5.000	mL	1.000
480-0103129-004	# 4 MB			MB	sv	5.000	mL	1.000
480-0103129-005	# 5 480-193175-C-6			Client	sv	1.000 200uL (	mL	5.000
480-0103129-006	# 6 480-193127-E-3			Client	sv	1.000 50uL (	mL	20.00
480-0103129-007	# 7 480-193175-C-2			Client	sv	1.000 200uL (	mL	5.000
480-0103129-008	# 8 480-193252-A-14			Client	sv	1.000 20x(10x) 50uL(100uL) → (	mL	200.0
480-0103129-009	# 9 480-193252-A-15			Client	sv	1.000 10uL (	mL	100.0
480-0103129-010	#10 480-193252-A-16	Dark	15.89mS @18.3 100X	Client	sv	1.000	mL	0.0
480-0103129-011	#11 480-193252-A-16 MS		IC_6ANION_STD_00003	MS	sv	1.000	mL	0.0
480-0103129-012	#12 480-193252-A-16 MSD		IC_6ANION_STD_00003	MSD	sv	1.000	mL	0.0
480-0103129-013	#13 CCV		IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-014	#14 CCB		CCB	sv	5.000	mL	1.000
480-0103129-015	#15 480-193252-A-17	1185K @15.8 5X	Client	sv	1.000 200mL	mL 1	0.0
480-0103129-016	#16 480-193252-A-18	3.38mS @16.1 10X	Client	sv	1.000 100mL	mL 1	0.0
480-0103129-017	#17 480-193253-F-1		Client	sv	1.000 20mL	mL 1	50.00
480-0103129-018	#18 480-193261-D-1		Client	sv	1.000 10mL	mL 1	100.0
480-0103129-019	#19 480-193335-L-1	1X	Client	sv	1.000	mL	50.00
480-0103129-020	#20 480-193335-L-2		Client	sv	1.000	mL	1.000
480-0103129-021	#21 480-193335-L-3		Client	sv	1.000	mL	1.000
480-0103129-022	#22 480-193335-L-4		Client	sv	1.000	mL	1.000
480-0103129-023	#23 480-193335-L-5		Client	sv	1.000	mL	1.000
480-0103129-024	#24 480-193335-L-5 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	1.000
480-0103129-025	#25 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-026	#26 CCB		CCB	sv	5.000	mL	1.000
480-0103129-027	#27 LCS	IC_ANION_LCS__00395	LCS	sv	5.000	mL	1.000
480-0103129-028	#28 MB		MB	sv	5.000	mL	1.000
480-0103129-029	#29 480-193335-L-6		Client	sv	1.000	mL	1.000
480-0103129-030	#30 480-193335-D-7		Client	sv	1.000	mL	1.000
480-0103129-031	#31 480-193336-U-1		Client	sv	1.000 200mL	mL 1	5.000

Chawla 12/21/2021 12/23/2021

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-032	#32 480-193336-U-2		Client	sv	1.000 20Me	mL	50.00
480-0103129-033	#33 480-193336-U-3		Client	sv	1.000 50Me	mL	20.00
480-0103129-034	#34 480-193336-U-5		Client	sv	1.000 200Me	mL	5.000
480-0103129-035	#35 480-193336-U-5 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	5.000
480-0103129-036	#36 480-193336-U-5 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	5.000
480-0103129-037	#37 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-038	#38 CCB		CCB	sv	5.000	mL	1.000
480-0103129-039	#39 480-193336-U-6		Client	sv	1.000 50Me	mL	20.00
480-0103129-040	#40 480-193336-U-7		Client	sv	1.000 200Me	mL	5.000
480-0103129-041	#41 480-193337-M-1		Client	sv	1.000	mL	1.000
480-0103129-042	#42 480-193337-M-2		Client	sv	1.000	mL	1.000
480-0103129-043	#43 480-193369-L-1		Client	sv	1.000	mL	1.000
480-0103129-044	#44 480-193369-L-2		Client	sv	1.000 500Me	mL	2.000
480-0103129-045	#45 480-193369-L-3		Client	sv	1.000	mL	2.000
480-0103129-046	#46 480-193369-L-4		Client	sv	1.000	mL	1.000
480-0103129-047	#47 480-193369-L-5		Client	sv	1.000	mL	1.000
480-0103129-048	#48 480-193369-L-5 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	1.000
480-0103129-049	#49 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-050	#50 CCB		CCB	sv	5.000	mL	1.000
480-0103129-051	#51 LCS	IC_ANION_LCS__00395	LCS	sv	5.000	mL	1.000
480-0103129-052	#52 MB		MB	sv	5.000	mL	1.000
480-0103129-053	#53 480-193548-A-1		Client	sv	5.000	mL	1.000
480-0103129-054	#54 480-193548-A-1		Client	sv	5.000 200	mL	5.000
480-0103129-055	#55 480-193548-A-1 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	5.000
480-0103129-056	#56 480-193548-A-1 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	5.000
480-0103129-057	#57 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-058	#58 CCB		CCB	sv	5.000	mL	1.000
480-0103129-059	#59 MDLV	IC_6ANION_STD_00003	MDLV	sv	5.000	mL	1.000

Client: 12/21/2021
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TestAmerica *[Buffalo]*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Ion Chromatography Data Review Checklist

LIMS Batch Number: 609280, 281	**Worklist:** 103129	**Instrument ID (circle one):** IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	**Method (circle):** 300.0, 314.0, 9056, 7199, SM4110, VFA	**QC Type (circle):** Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)					
2. Elution order of analytes in ICAL confirmed to be correct					
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)					
4. ICV, second source: run before samples 90-110% recovery					If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)					If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)					If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)					If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%					If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?					Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)					Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*					☐ No analyte > RL in associated samples ☐ Sample results >10x blank ☐ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*					☐ Insufficient sample for reanalysis ☐ LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*					□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%					

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Out of control QC is clearly identified				
d. Any data that has a qualifier tick is commented on with appropriate action taken				
e. The first page of the run includes the filename, instrument, and analyst initials/signature				
16. Run Log				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Analyst initials/signature provided				
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct				
b. Method and matrix are correct				
c. Date and time match raw data				
d. Dilutions are correct				
e. Correct suffix designated (where applicable)				
18. TALS Worksheet Tab is complete and correct				
19. TALS Reagent Tab is complete and correct				
20. TALS QC Links Tab is correct				
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted				
b. All reported analytes are marked Primary or Secondary				
22. TALS Batch Information Screen documentation is complete				
23. TALS Status set to appropriate review level				
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ **Review Date:** _____

Comments: _____

Eurofins Environment Testing America
Worklist Report

Worklist Name: 2021 12 17 A
Instrument Name: IC-6
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b
Upload Directory: \\Corptalsapp17\480-BF-RawData\Organics\MS\IC-6
Batch #s: 609280, 609281, 609282, 609283

Worklist Number: 103129
Chrom Method: IC6-300
Units: ul

12/17/21

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-001	# 1 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-002	# 2 CCB		CCB	sv	5.000	mL	1.000
480-0103129-003	# 3 LCS	IC_ANION_LCS__00395	LCS	sv	5.000	mL	1.000
480-0103129-004	# 4 MB		MB	sv	5.000	mL	1.000
480-0103129-005	# 5 480-193175-C-6		Client	sv	1.000 200uL (	mL	5.000
480-0103129-006	# 6 480-193127-E-3		Client	sv	1.000 50uL (	mL	20.00
480-0103129-007	# 7 480-193175-C-2		Client	sv	1.000 200uL (	mL	5.000
480-0103129-008	# 8 480-193252-A-14		Client	sv	1.000 20x(10x) 50uL(100uL) → (	mL	200.0
480-0103129-009	# 9 480-193252-A-15		Client	sv	1.000 10uL (	mL	100.0
480-0103129-010	#10 480-193252-A-16 Dark	15.89mS @18.3 100X	Client	sv	1.000	mL	0.0
480-0103129-011	#11 480-193252-A-16 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	0.0
480-0103129-012	#12 480-193252-A-16 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	0.0
480-0103129-013	#13 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000

12/23/2021

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-014	#14 CCB		CCB	sv	5.000	mL	1.000
480-0103129-015	#15 480-193252-A-17	1185K @15.8 5X	Client	sv	1.000 200mL	mL 1	0.0
480-0103129-016	#16 480-193252-A-18	3.38mg @16.1 10X	Client	sv	1.000 100mL	mL 1	0.0
480-0103129-017	#17 480-193253-F-1		Client	sv	1.000 20mL	mL 1	50.00
480-0103129-018	#18 480-193261-D-1		Client	sv	1.000 10mL	mL 1	100.0
480-0103129-019	#19 480-193335-L-1	1X	Client	sv	1.000	mL	50.00
480-0103129-020	#20 480-193335-L-2		Client	sv	1.000	mL	1.000
480-0103129-021	#21 480-193335-L-3		Client	sv	1.000	mL	1.000
480-0103129-022	#22 480-193335-L-4		Client	sv	1.000	mL	1.000
480-0103129-023	#23 480-193335-L-5		Client	sv	1.000	mL	1.000
480-0103129-024	#24 480-193335-L-5 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	1.000
480-0103129-025	#25 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-026	#26 CCB		CCB	sv	5.000	mL	1.000
480-0103129-027	#27 LCS	IC_ANION_LCS__00395	LCS	sv	5.000	mL	1.000
480-0103129-028	#28 MB		MB	sv	5.000	mL	1.000
480-0103129-029	#29 480-193335-L-6		Client	sv	1.000	mL	1.000
480-0103129-030	#30 480-193335-D-7		Client	sv	1.000	mL	1.000
480-0103129-031	#31 480-193336-U-1		Client	sv	1.000 200mL	mL 1	5.000

12/23/2021

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-032	#32 480-193336-U-2		Client	sv	1.000 20mL	mL	50.00
480-0103129-033	#33 480-193336-U-3		Client	sv	1.000 50mL	mL	20.00
480-0103129-034	#34 480-193336-U-5		Client	sv	1.000 200mL	mL	5.000
480-0103129-035	#35 480-193336-U-5 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	5.000
480-0103129-036	#36 480-193336-U-5 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	5.000
480-0103129-037	#37 CCV	IC_ANION_LCS_00395	CCV	sv	5.000	mL	1.000
480-0103129-038	#38 CCB		CCB	sv	5.000	mL	1.000
480-0103129-039	#39 480-193336-U-6		Client	sv	1.000 50mL	mL	20.00
480-0103129-040	#40 480-193336-U-7		Client	sv	1.000 200mL	mL	5.000
480-0103129-041	#41 480-193337-M-1		Client	sv	1.000	mL	1.000
480-0103129-042	#42 480-193337-M-2		Client	sv	1.000	mL	1.000
480-0103129-043	#43 480-193369-L-1		Client	sv	1.000	mL	1.000
480-0103129-044	#44 480-193369-L-2		Client	sv	1.000 500mL	mL	2.000
480-0103129-045	#45 480-193369-L-3		Client	sv	1.000	mL	2.000
480-0103129-046	#46 480-193369-L-4		Client	sv	1.000	mL	1.000
480-0103129-047	#47 480-193369-L-5		Client	sv	1.000	mL	1.000
480-0103129-048	#48 480-193369-L-5 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	1.000
480-0103129-049	#49 CCV	IC_ANION_LCS_00395	CCV	sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103129-050	#50 CCB		CCB	sv	5.000	mL	1.000
480-0103129-051	#51 LCS	IC_ANION_LCS__00395	LCS	sv	5.000	mL	1.000
480-0103129-052	#52 MB		MB	sv	5.000	mL	1.000
480-0103129-053	#53 480-193548-A-1		Client	sv	5.000	mL	1.000
480-0103129-054	#54 480-193548-A-1		Client	sv	5.000 200	mL	5.000
480-0103129-055	#55 480-193548-A-1 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	5.000
480-0103129-056	#56 480-193548-A-1 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	5.000
480-0103129-057	#57 CCV	IC_ANION_LCS__00395	CCV	sv	5.000	mL	1.000
480-0103129-058	#58 CCB		CCB	sv	5.000	mL	1.000
480-0103129-059	#59 MDLV	IC_6ANION_STD_00003	MDLV	sv	5.000	mL	1.000

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Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 21_36.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 17-Dec-2021 21:36:00 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-025
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:52:59 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:50:36

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.423	3.423	0.000	126130030	5.00	5.26	
2 Chloride						
4.977	4.977	0.000	779136216	50.0	49.8	
3 Nitrite as N						
6.050	6.050	0.000	168803603	NC	NC	
4 Bromide						
8.293	8.293	0.000	28914683	5.00	4.88	
5 Sulfate						
8.980	8.980	0.000	571358533	50.0	50.0	
6 Nitrate as N						
9.560	9.560	0.000	209037418	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00395 Amount Added: 5.00 Units: mL

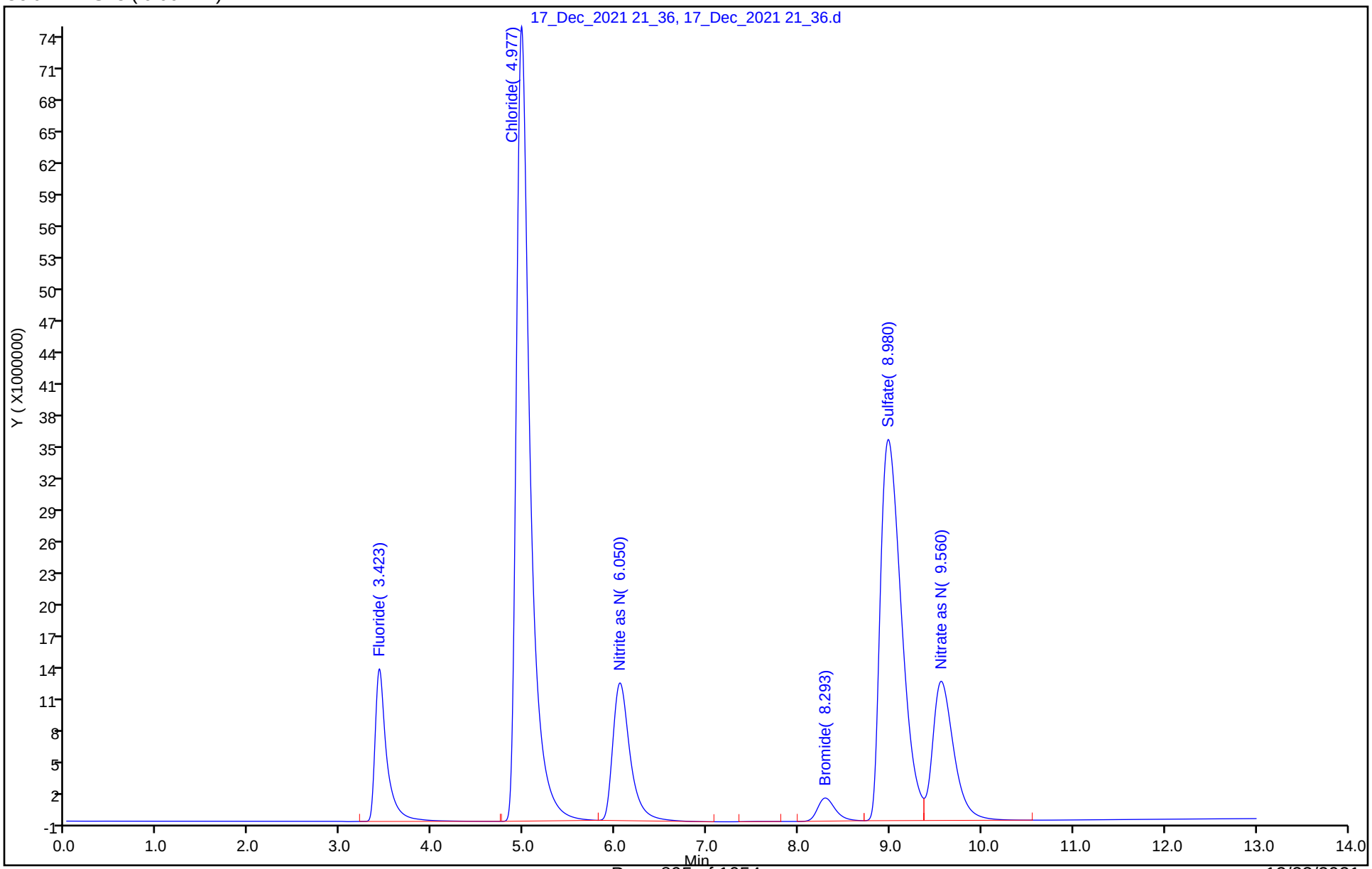
Report Date: 20-Dec-2021 12:52:59 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 21_36.d

Injection Date:	17-Dec-2021 21:36:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 21_56.d				
Lims ID:	CCB				
Client ID:					
Sample Type:	CCB				
Inject. Date:	17-Dec-2021 21:56:00	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103129-026				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:52:59	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:50:39

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.987	4.977	0.010	232070		0.0890	
5 Sulfate						
9.117	8.980	0.137	413914		0.1232	

QC Flag Legend

Processing Flags

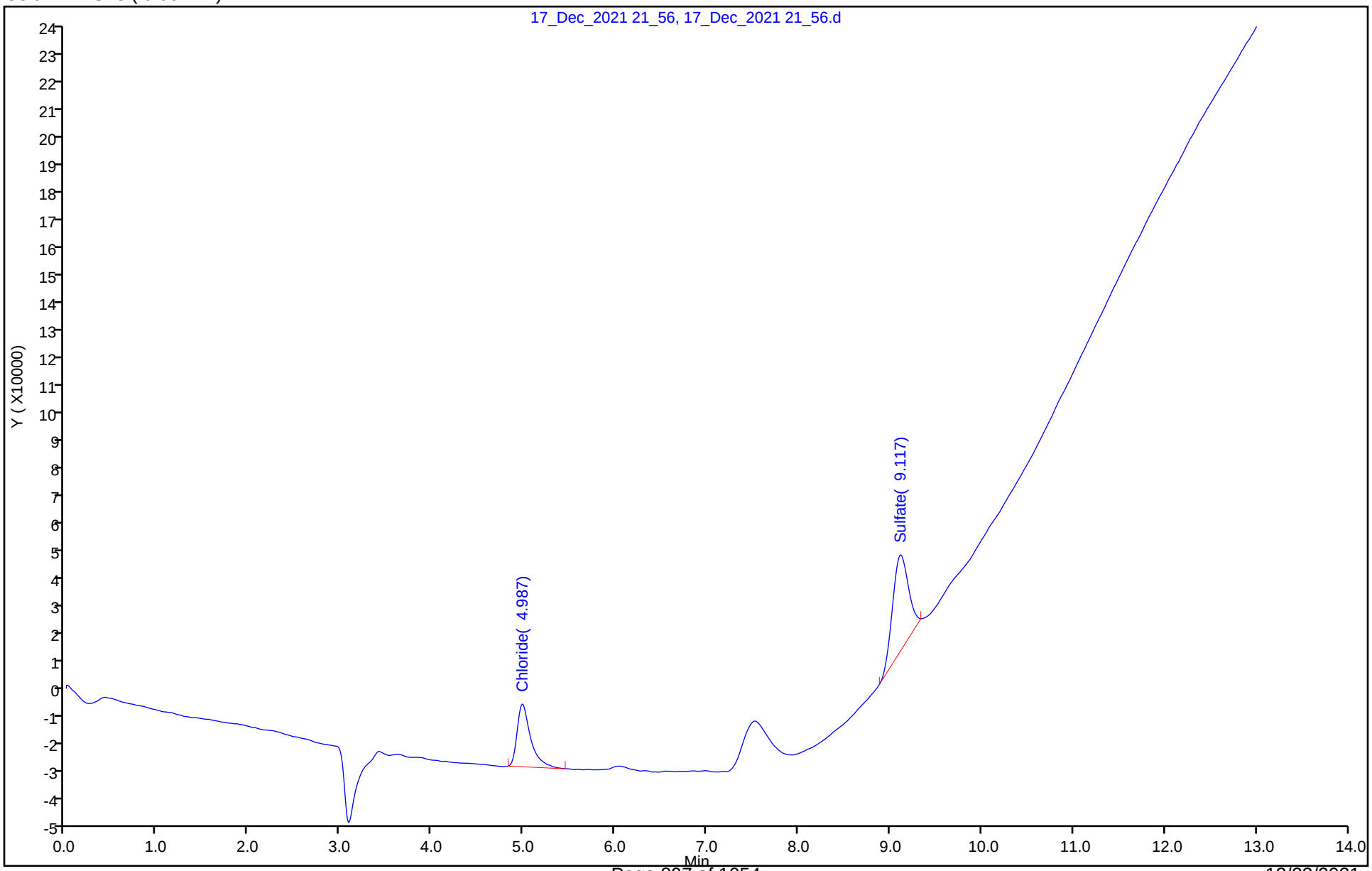
Report Date: 20-Dec-2021 12:53:00 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 21_56.d

Injection Date:	17-Dec-2021 21:56:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 22_16.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Dec-2021 22:16:00 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-027
Operator ID: Instrument ID: IC-6

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:52:59 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:50:42

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.423	3.423	0.000	126509248	5.00	5.28	
2 Chloride						
4.977	4.977	0.000	777498660	50.0	49.7	
3 Nitrite as N						
6.050	6.050	0.000	168028395	NC	NC	
4 Bromide						
8.293	8.293	0.000	28818116	5.00	4.86	
5 Sulfate						
8.980	8.980	0.000	571251602	50.0	50.0	
6 Nitrate as N						
9.560	9.560	0.000	208716704	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00395 Amount Added: 5.00 Units: mL

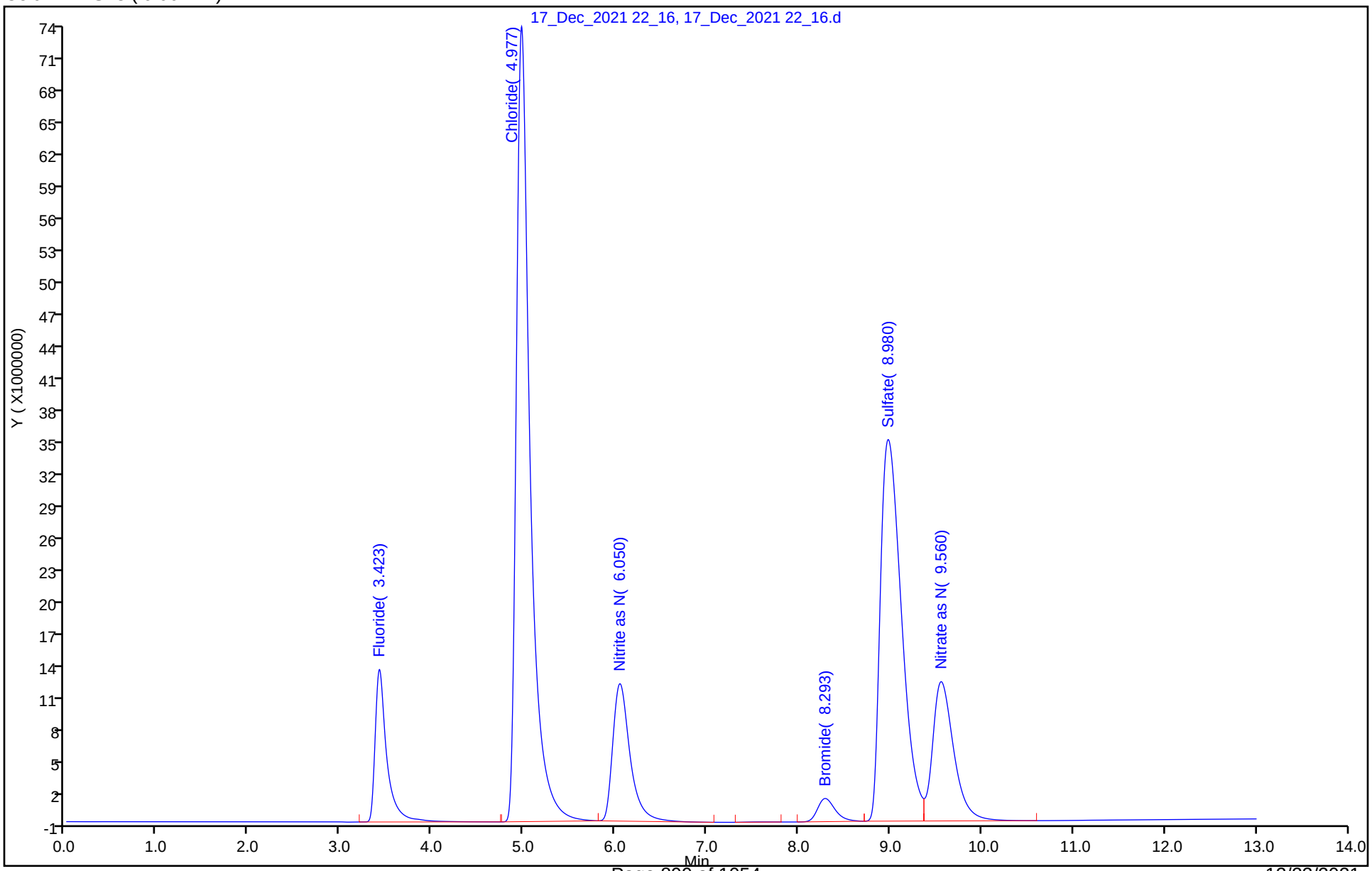
Report Date: 20-Dec-2021 12:53:02 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 22_16.d

Injection Date:	17-Dec-2021 22:16:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 22_35.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Dec-2021 22:35:00 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-028
Operator ID: Instrument ID: IC-6

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:52:59 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:50:46

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.987	4.977	0.010	199363		0.0869	
5 Sulfate						
9.127	8.980	0.147	334720		0.1163	

QC Flag Legend

Processing Flags

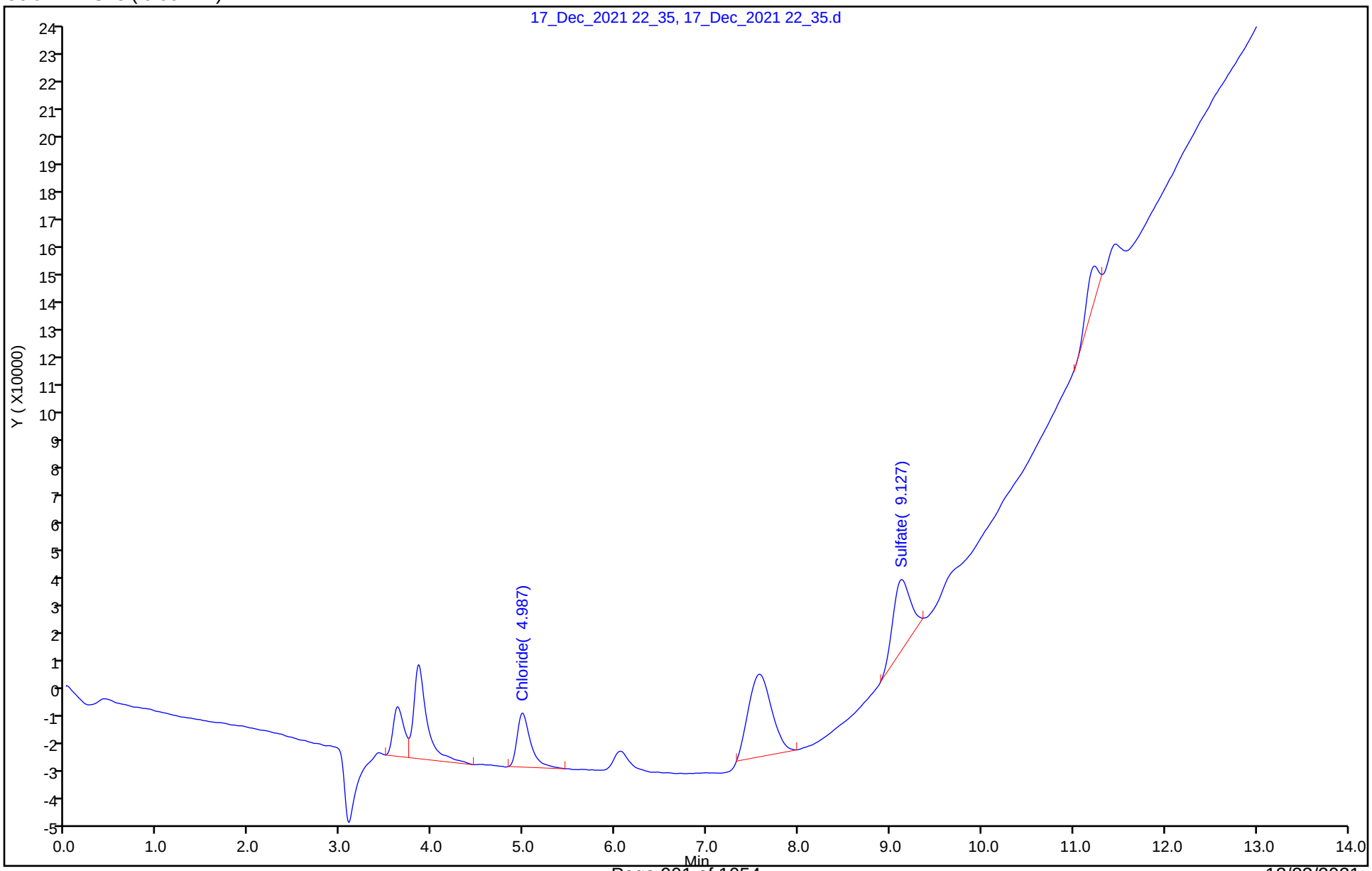
Report Date: 20-Dec-2021 12:53:02 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\17_Dec_2021 22_35.d

Injection Date:	17-Dec-2021 22:35:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	MB			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 01_31.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Dec-2021 01:31:00 ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-037
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:53:05 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:51:14

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.423	3.423	0.000	126173889	5.00	5.26	
2 Chloride						
4.977	4.977	0.000	779048967	50.0	49.8	
3 Nitrite as N						
6.050	6.050	0.000	168837605	NC	NC	
4 Bromide						
8.293	8.293	0.000	28941832	5.00	4.88	
5 Sulfate						
8.980	8.980	0.000	571877428	50.0	50.1	
6 Nitrate as N						
9.557	9.557	0.000	209480460	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00395 Amount Added: 5.00 Units: mL

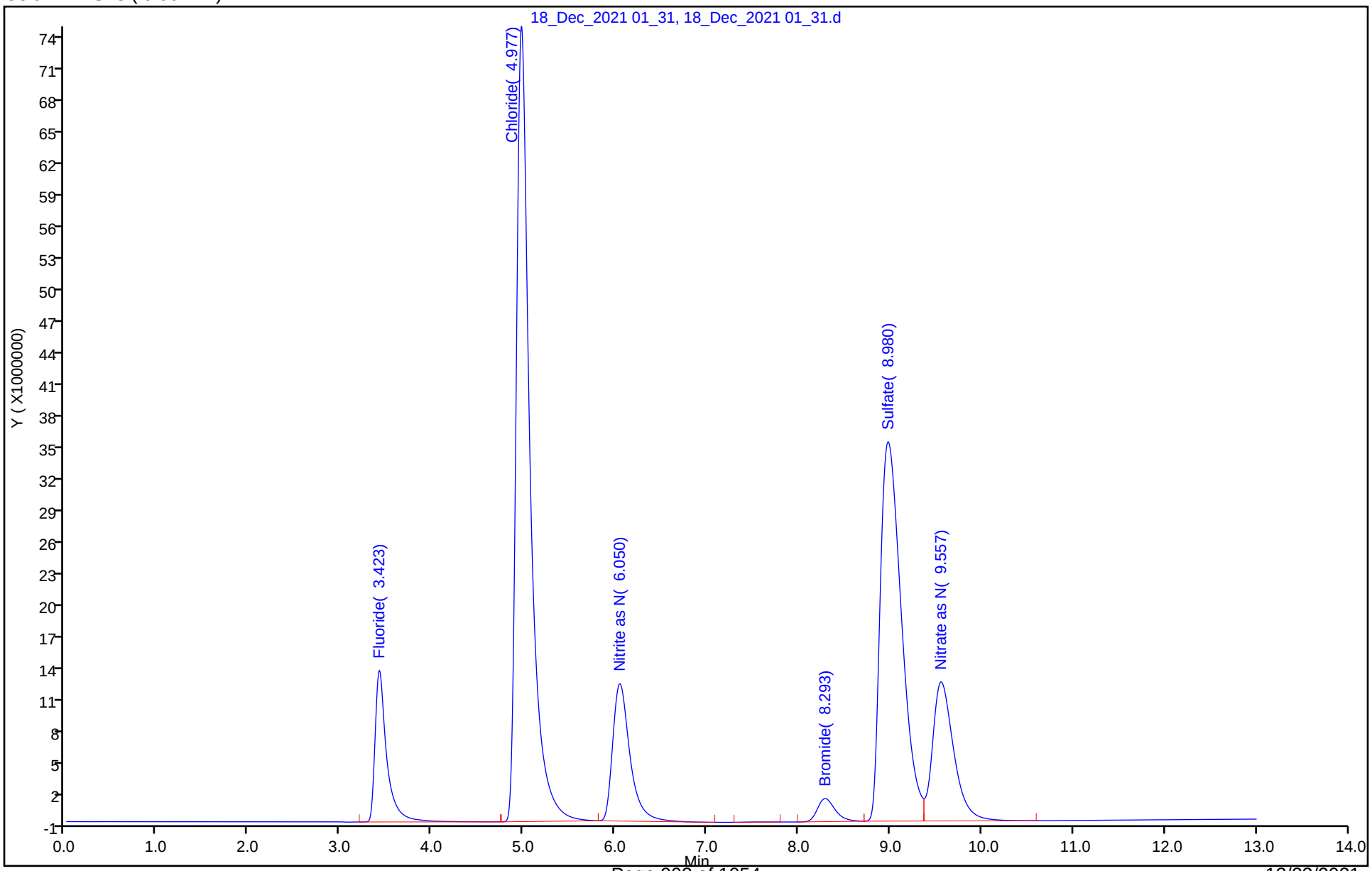
Report Date: 20-Dec-2021 12:53:05 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 01_31.d

Injection Date:	18-Dec-2021 01:31:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	37
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 01_51.d				
Lims ID:	CCB				
Client ID:					
Sample Type:	CCB				
Inject. Date:	18-Dec-2021 01:51:00	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103129-038				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:53:05	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:51:17

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.987	4.977	0.010	233293		0.0891	
5 Sulfate						
9.123	8.980	0.143	446957		0.1261	

QC Flag Legend

Processing Flags

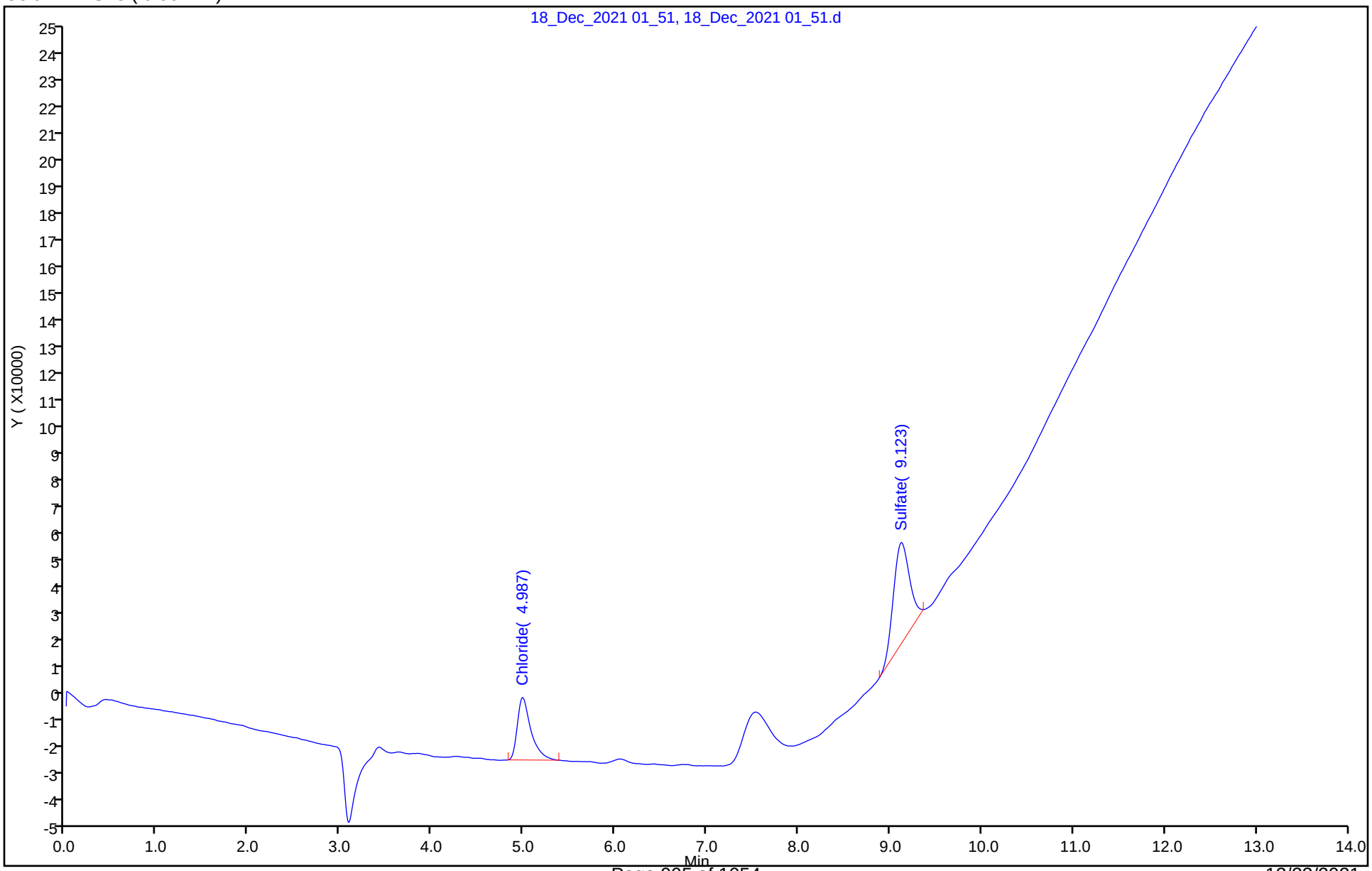
Report Date: 20-Dec-2021 12:53:06 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 01_51.d

Injection Date:	18-Dec-2021 01:51:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 03_28.d				
Lims ID:	480-193369-L-1				
Client ID:	MW-1A				
Sample Type:	Client				
Inject. Date:	18-Dec-2021 03:28:00	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103129-043				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:53:05	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				
First Level Reviewer: zahniseri		Date:	20-Dec-2021 12:51:33		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

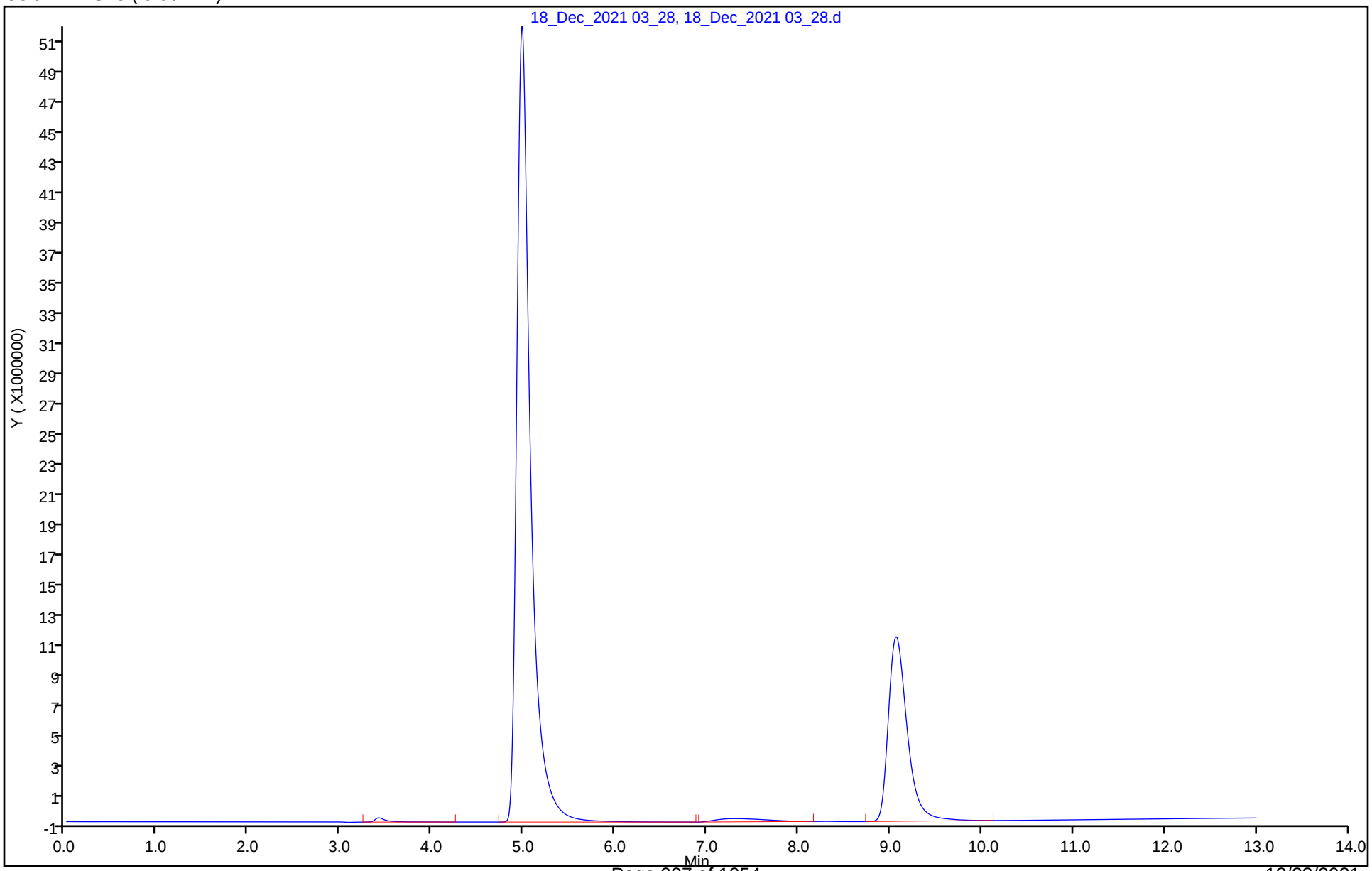
Report Date: 20-Dec-2021 12:53:08 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 03_28.d

Injection Date:	18-Dec-2021 03:28:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	480-193369-L-1	Lab Sample ID:	480-193369-1	Worklist Smp#:	43
Client ID:	MW-1A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 03_48.d				
Lims ID:	480-193369-L-2				
Client ID:	MW-2A				
Sample Type:	Client				
Inject. Date:	18-Dec-2021 03:48:00	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	480-0103129-044				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:53:05	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:51:36

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
4 Bromide					
8.313	8.293	0.020	444157	0.0958	

QC Flag Legend

Processing Flags

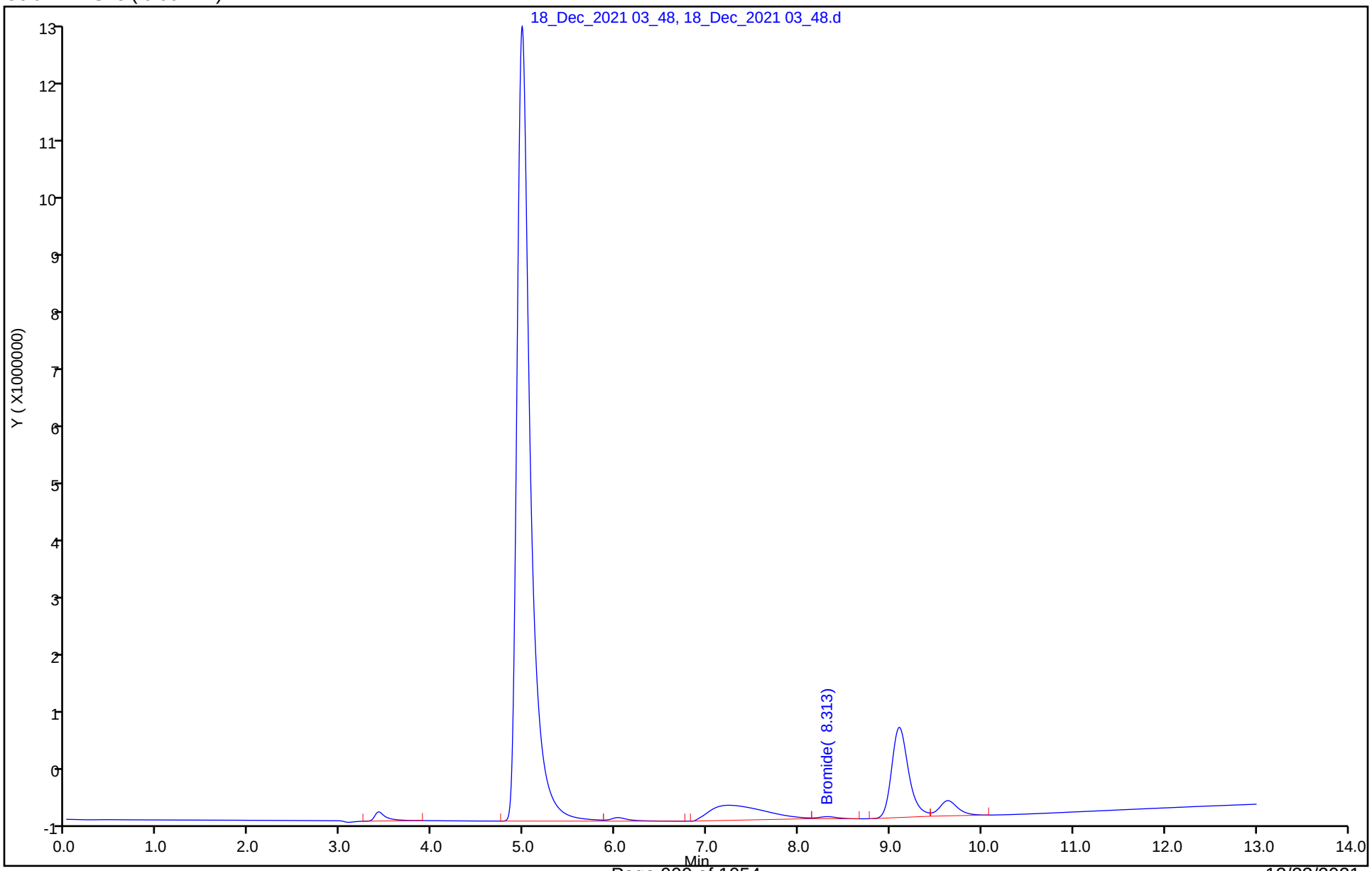
Report Date: 20-Dec-2021 12:53:08 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 03_48.d

Injection Date:	18-Dec-2021 03:48:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	480-193369-L-2	Lab Sample ID:	480-193369-2	Worklist Smp#:	44
Client ID:	MW-2A				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 04_07.d				
Lims ID:	480-193369-L-3				
Client ID:	MW-2B				
Sample Type:	Client				
Inject. Date:	18-Dec-2021 04:07:00	ALS Bottle#:	0	Worklist Smp#:	45
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	480-0103129-045				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:53:05	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:51:39

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
4 Bromide					
8.323	8.293	0.030	1752314	0.3156	

QC Flag Legend

Processing Flags

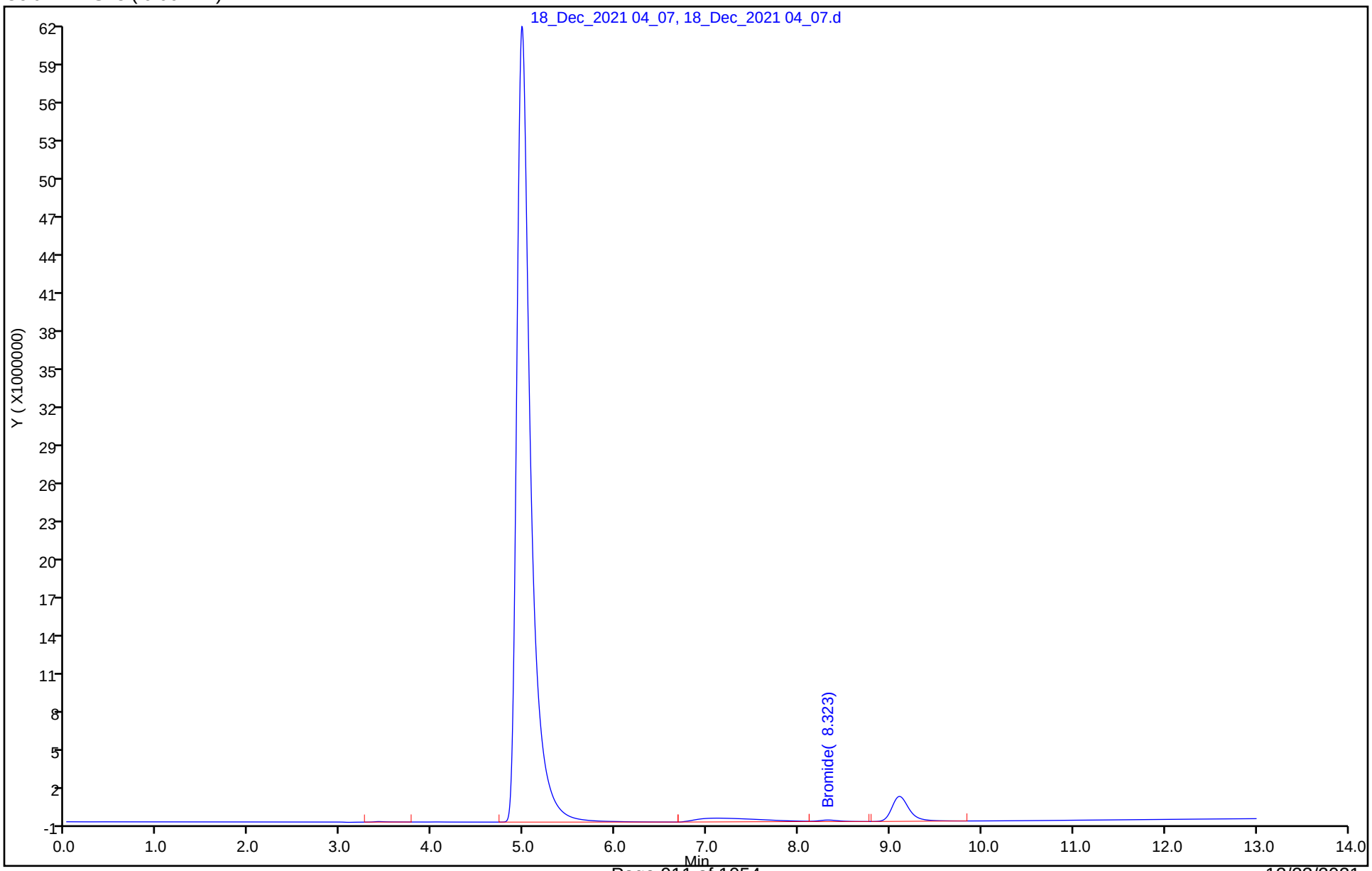
Report Date: 20-Dec-2021 12:53:08 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 04_07.d

Injection Date:	18-Dec-2021 04:07:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	480-193369-L-3	Lab Sample ID:	480-193369-3	Worklist Smp#:	45
Client ID:	MW-2B				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 04_27.d				
Lims ID:	480-193369-L-4				
Client ID:	MW-1B				
Sample Type:	Client				
Inject. Date:	18-Dec-2021 04:27:00	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103129-046				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:53:05	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				
First Level Reviewer: zahniseri		Date:	20-Dec-2021 12:51:43		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

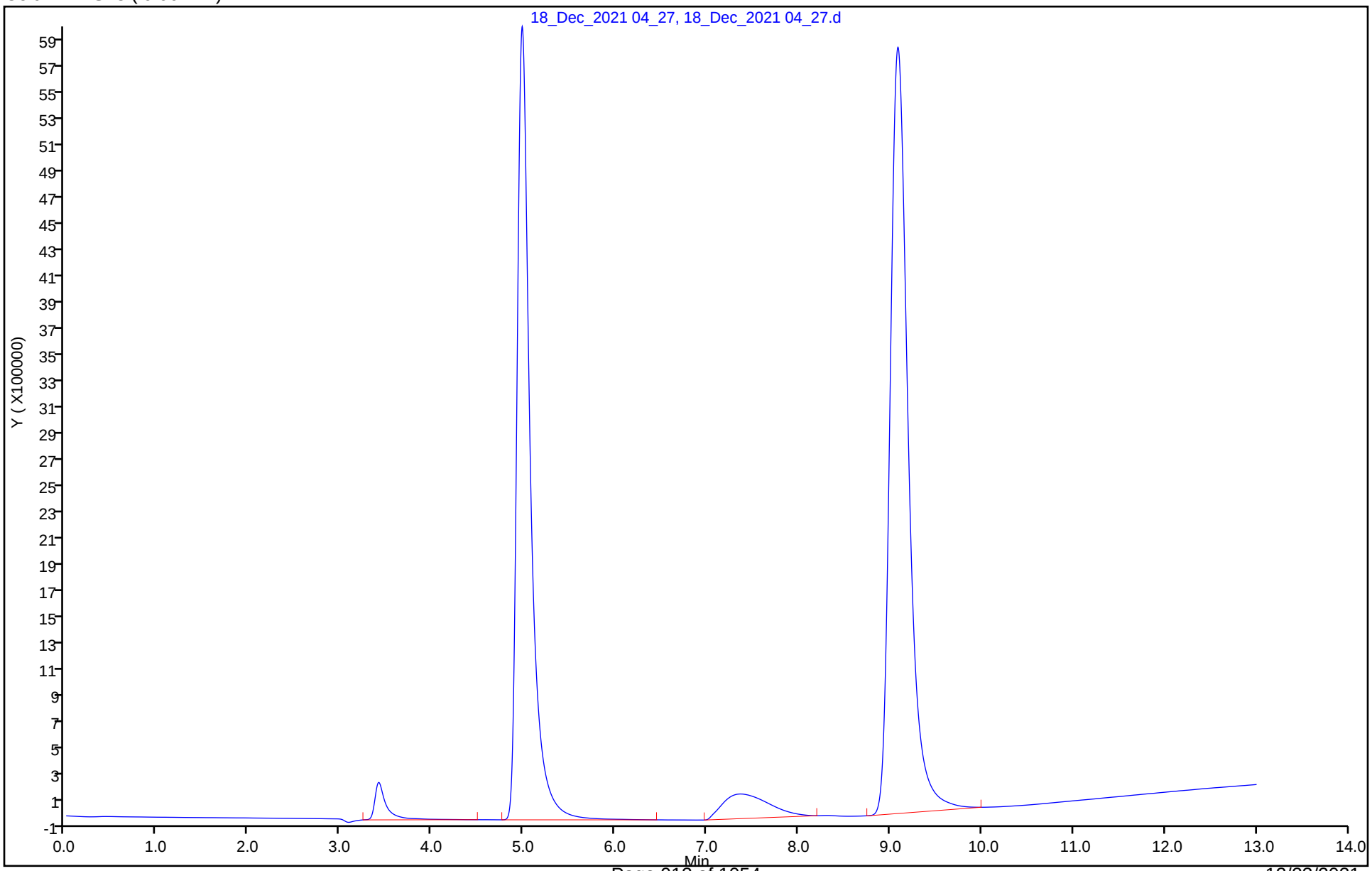
Report Date: 20-Dec-2021 12:53:08 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 04_27.d

Injection Date:	18-Dec-2021 04:27:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	480-193369-L-4	Lab Sample ID:	480-193369-4	Worklist Smp#:	46
Client ID:	MW-1B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 04_46.d				
Lims ID:	480-193369-L-5				
Client ID:	DUP MW-1B				
Sample Type:	Client				
Inject. Date:	18-Dec-2021 04:46:00	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103129-047				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:53:05	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:51:46

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
1 Fluoride					
3.417	3.423	-0.006	2453145	0.1110	
2 Chloride					
4.983	4.977	0.006	60880634	3.96	
5 Sulfate					
9.087	8.980	0.107	78759604	6.97	

QC Flag Legend

Processing Flags

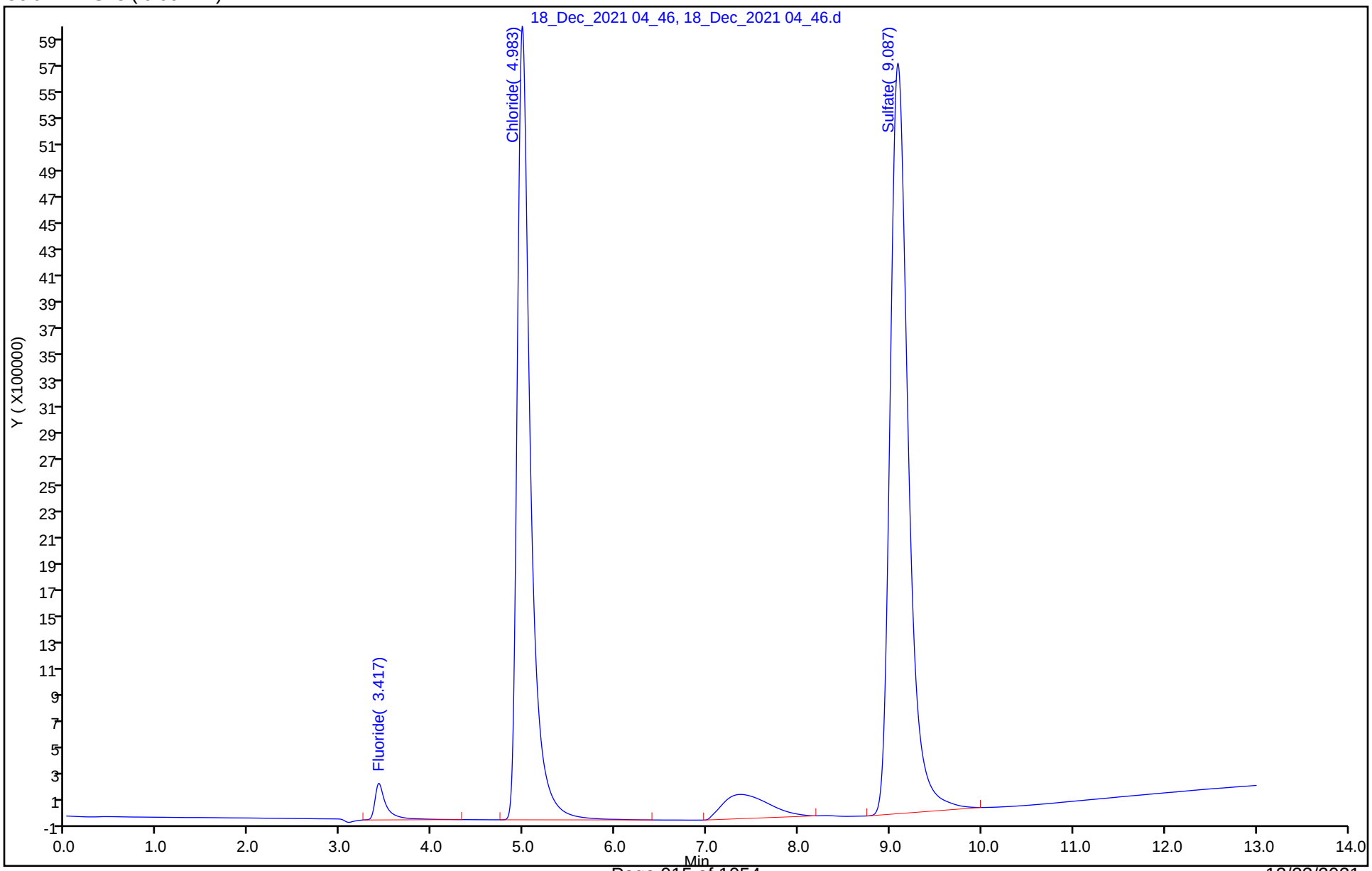
Report Date: 20-Dec-2021 12:53:09 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 04_46.d

Injection Date:	18-Dec-2021 04:46:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	480-193369-L-5	Lab Sample ID:	480-193369-5	Worklist Smp#:	47
Client ID:	DUP MW-1B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 05_06.d
Lims ID: 480-193369-L-5 MS
Client ID:
Sample Type: MS
Inject. Date: 18-Dec-2021 05:06:00 ALS Bottle#: 0 Worklist Smp#: 48
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-048
Operator ID: Instrument ID: IC-6

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:53:05 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:51:49

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.423	3.423	0.000	125758590	5.00	5.25	
2 Chloride						
4.977	4.977	0.000	817187608	50.0	52.2	
3 Nitrite as N						
6.040	6.050	-0.010	164544128	NC	NC	
4 Bromide						
8.293	8.293	0.000	27710300	5.00	4.68	
5 Sulfate						
8.977	8.980	-0.003	628038765	50.0	55.0	
6 Nitrate as N						
9.563	9.557	0.006	203619665	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 50.00 Units: uL

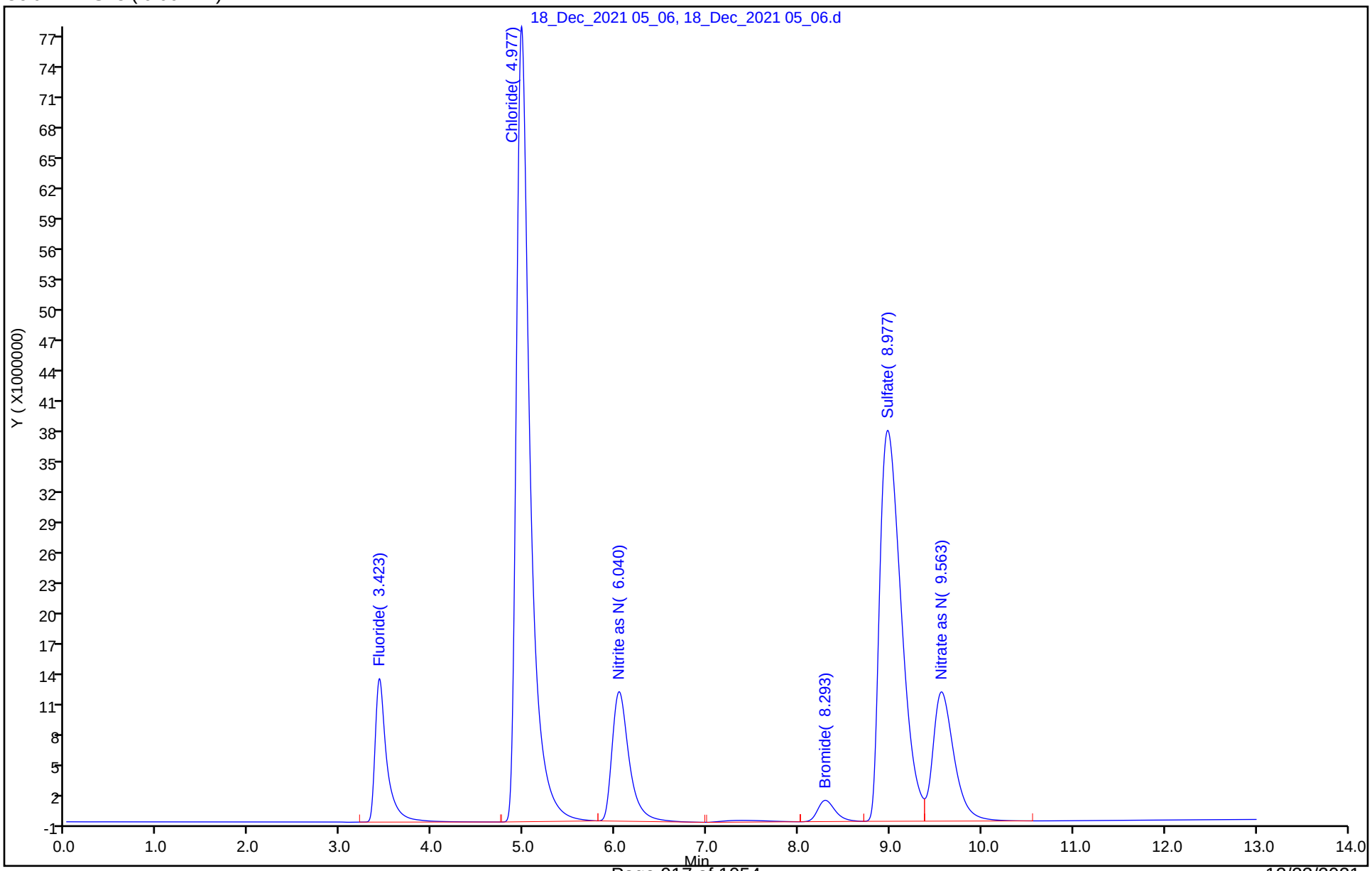
Report Date: 20-Dec-2021 12:53:09 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 05_06.d

Injection Date:	18-Dec-2021 05:06:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	480-193369-L-5 MS			Worklist Smp#:	48
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 05_26.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Dec-2021 05:26:00 ALS Bottle#: 0 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103129-049
Operator ID: Instrument ID: IC-6
Sublist: chrom-IC6-300*sub1

Method: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 20-Dec-2021 12:53:09 Calib Date: 11-Oct-2021 14:34:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1663

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:51:52

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.423	3.423	0.000	126322699	5.00	5.27	
2 Chloride						
4.977	4.977	0.000	778845339	50.0	49.8	
3 Nitrite as N						
6.050	6.050	0.000	168701506	NC	NC	
4 Bromide						
8.293	8.293	0.000	28981717	5.00	4.89	
5 Sulfate						
8.983	8.983	0.000	570941122	50.0	50.0	
6 Nitrate as N						
9.557	9.557	0.000	209961517	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00395 Amount Added: 5.00 Units: mL

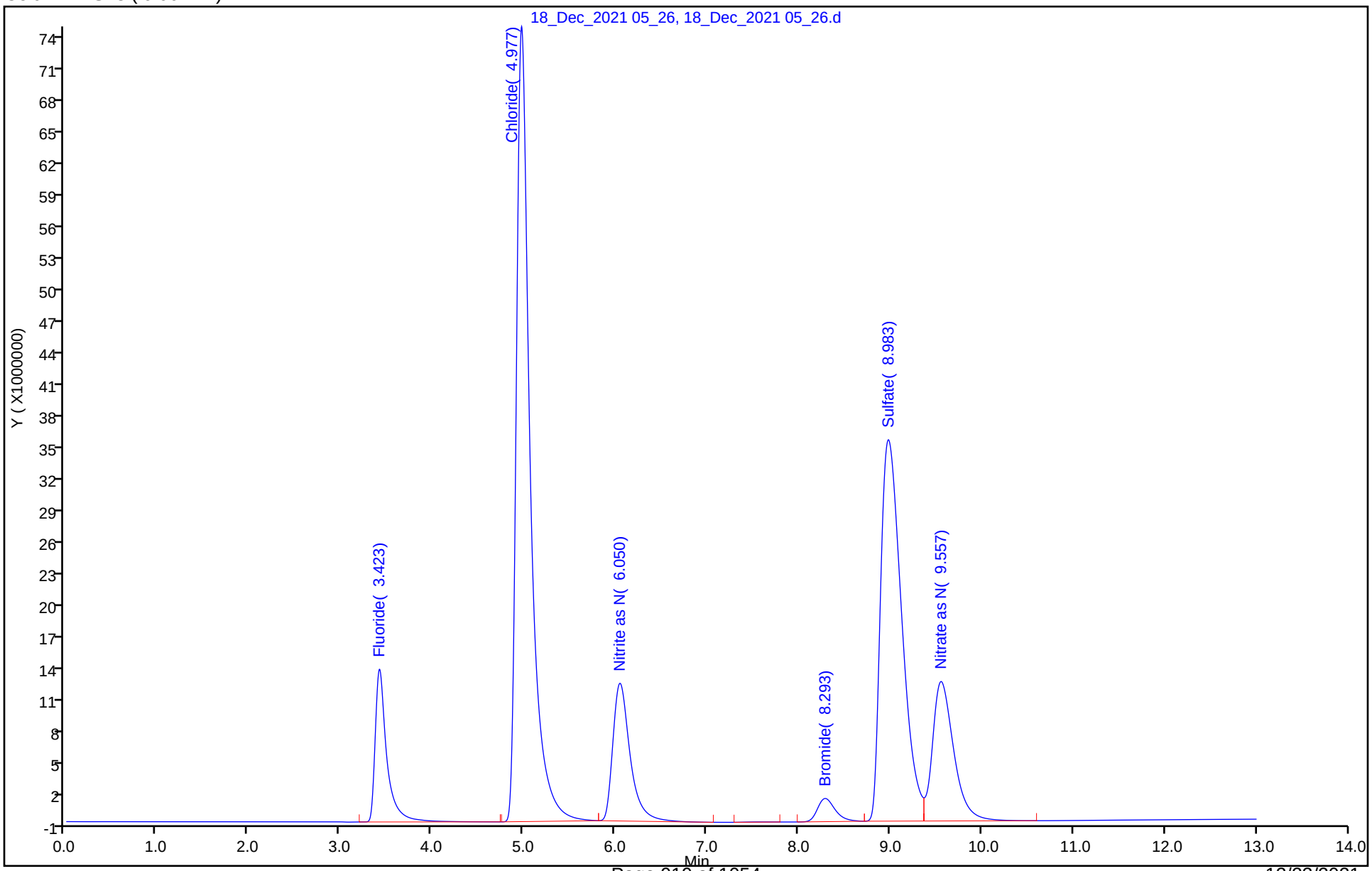
Report Date: 20-Dec-2021 12:53:09 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 05_26.d

Injection Date:	18-Dec-2021 05:26:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	49
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 05_45.d				
Lims ID:	CCB				
Client ID:					
Sample Type:	CCB				
Inject. Date:	18-Dec-2021 05:45:00	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103129-050				
Operator ID:		Instrument ID:	IC-6		
Method:	\\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\IC6-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	20-Dec-2021 12:53:09	Calib Date:	11-Oct-2021 14:34:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-6\20211011-101558.b\11_Oct_2021 14_34.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1663				

First Level Reviewer: zahniseri Date: 20-Dec-2021 12:51:56

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.987	4.977	0.010	231286		0.0889	
5 Sulfate						
9.113	8.983	0.130	440313		0.1255	

QC Flag Legend

Processing Flags

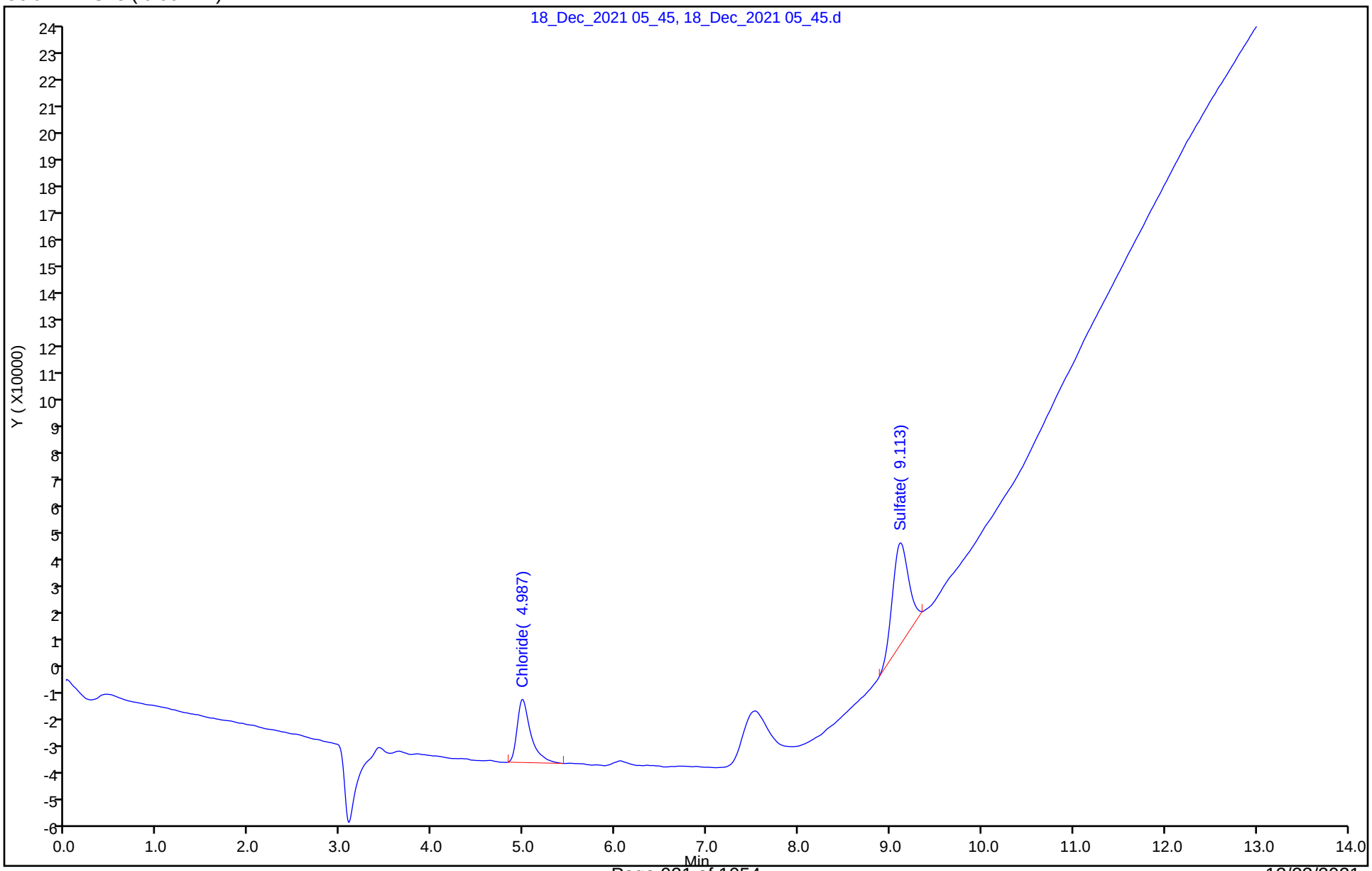
Report Date: 20-Dec-2021 12:53:10 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-6\20211217-103129.b\18_Dec_2021 05_45.d

Injection Date:	18-Dec-2021 05:45:00	Instrument ID:	IC-6	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	50
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC6-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



NO3 608786
NO2 608796
Calc 608837
Not Ran 608838

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

Solutions #		
Nitrate, NO3/NO2 1000mg/L STD: (CAL)	6158428	Exp. 02/10/2022
Nitrate 1000mg/L STD (CCV/LCS/ICV)	6508627	Exp. 10/31/2022
Nitrite 1000mg/L STD (CAL)	6342075	Exp. 10/21/2022
Nitrite 1000mg/L STD (CCV/LCS/ICV)	6125836	Exp. 03/12/2022
Nitrate, Nitrate/Nitrite Int STD (MS)	6815460	Exp. 12/21/2021
Nitrite Int STD(MS)	6815461	Exp. 12/21/2021
Nitrate 1.5ppm CCV/ICV/LCS	6815462	Exp. 12/15/2021
Nitrite 1.5ppm CCV/ICV/LCS	6815473	Exp. 12/15/2021
Ammonium Chloride Buffer	6814083	Exp. 01/13/2022
Color Reagent	6814084	Exp. 01/13/2022
1:4 Ammonium Hydroxide	6791433	Exp. 04/22/2022

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
(1.35 mg/L –1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L
MS/MSD = 1.0mg/L
Control Limits = 90-110%
RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:
3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with Di water
2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
.5ppm –5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up to 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:
3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with Di water
2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
.5ppm –5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up too 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples PR

608786

Date : 12/14/2021

Author: BufLachat3

Original Run Filename: OM_12-14-2021_10-57-14AM.OMN Created: 12/14/2021 10:57:14 AM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_12-14-2021_10-57-14AM.OMN Last Modified: 12/14/2021 12:00:45 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
NO2	1	S11	1.57	3.99	0.383	12/14/2021@10:58:15 AM
	Calibration:		Table/Fig. : 1			
CCV	1	S9	1.53	3.90	0.374	12/14/2021@10:59:37 AM
	Known Conc:		1.50			
CCB	1	S10	-4.42e-3	0.0310	1.69e-3	12/14/2021@11:01:00 AM
	Known Conc:		0.00			
MB	1	S10	-0.0153	3.73e-3	-9.94e-4	12/14/2021@11:02:22 AM
	Known Conc:		0.00			
LCS	1	S9	1.52	3.88	0.373	12/14/2021@11:03:44 AM
	Known Conc:		1.50			
480-193290-h-9^5	1	1	2.26	5.73	0.552	12/14/2021@11:05:08 AM
MS 480-193290-h-9^5	1	2	3.29	8.32	0.802	12/14/2021@11:06:31 AM
480-193310-f-2	1	3	0.180	0.494	0.0433	12/14/2021@11:07:54 AM
480-193310-f-5	1	4	0.906	2.32	0.221	12/14/2021@11:09:18 AM
480-193310-f-7	1	5	0.0285	0.114	9.02e-3	12/14/2021@11:10:41 AM
480-193310-f-8	1	6	0.842	2.16	0.207	12/14/2021@11:12:03 AM
480-193314-a-1	1	7	4.66	11.7	1.13	12/14/2021@11:13:26 AM
480-193326-a-1	1	8	10.5	26.4	2.51	12/14/2021@11:14:49 AM
CCV	1	S9	1.49	3.80	0.365	12/14/2021@11:16:11 AM
	Known Conc:		1.50			
CCB	1	S10	-8.04e-4	0.0401	1.92e-3	12/14/2021@11:17:33 AM
	Known Conc:		0.00			
480-193336-r-5	1	9	0.0806	0.245	0.0213	12/14/2021@11:18:56 AM
DU 480-193336-r-5	1	10	0.0808	0.245	0.0211	12/14/2021@11:20:18 AM
MS 480-193336-r-5	1	11	1.07	2.74	0.261	12/14/2021@11:21:40 AM
480-193336-r-6	1	12	0.0351	0.130	0.0106	12/14/2021@11:23:02 AM
480-193336-r-7	1	13	1.86	4.71	0.447	12/14/2021@11:24:25 AM
480-193367-b-1	1	14	0.615	1.59	0.149	12/14/2021@11:25:46 AM
480-193367-b-2	1	15	0.0954	0.282	0.0245	12/14/2021@11:27:08 AM
480-193367-b-3	1	16	0.261	0.699	0.0580	12/14/2021@11:28:32 AM
480-193367-b-4	1	17	0.182	0.500	0.0412	12/14/2021@11:29:55 AM
480-193367-b-5	1	18	1.98	5.01	0.479	12/14/2021@11:31:18 AM
CCV	1	S9	1.47	3.75	0.358	12/14/2021@11:32:40 AM
	Known Conc:		1.50			
CCB	1	S10	-0.0260	-0.0233	-2.69e-3	12/14/2021@11:34:03 AM
	Known Conc:		0.00			
MB	1	S10	-5.50e-3	0.0283	2.56e-3	12/14/2021@11:35:25 AM
	Known Conc:		0.00			
LCS	1	S9	1.47	3.73	0.356	12/14/2021@11:36:47 AM
	Known Conc:		1.50			
480-193369-i-1	1	19	0.0266	0.109	7.08e-3	12/14/2021@11:38:10 AM
MS 480-193369-i-1	1	20	0.999	2.55	0.240	12/14/2021@11:39:33 AM
480-193369-i-2	1	21	0.105	0.306	0.0245	12/14/2021@11:40:56 AM
480-193369-i-3	1	22	4.10e-3	0.0524	3.47e-3	12/14/2021@11:42:19 AM
480-193369-i-4	1	23	0.0127	0.0740	3.83e-3	12/14/2021@11:43:41 AM
480-193369-i-5	1	24	0.0188	0.0895	5.68e-3	12/14/2021@11:45:04 AM
480-193326-a-1^5	1	25	2.17	5.50	0.523	12/14/2021@11:46:26 AM
CCV	1	S9	1.46	3.71	0.353	12/14/2021@11:47:48 AM
	Known Conc:		1.50			
CCB	1	S10	-4.10e-3	0.0318	2.94e-3	12/14/2021@11:49:10 AM
	Known Conc:		0.00			
MB	1	S10	-0.0147	5.27e-3	2.37e-3	12/14/2021@11:50:32 AM
	Known Conc:		0.00			
LCS	1	S9	1.47	3.74	0.353	12/14/2021@11:51:54 AM
	Known Conc:		1.50			
480-193314-a-1^2	1	37	2.36	5.97	0.565	12/14/2021@11:53:17 AM
MS 480-193314-a-1^2	1	38	3.84	9.69	0.918	12/14/2021@11:54:39 AM
480-193326-a-1^5	1	39	2.07	5.26	0.498	12/14/2021@11:56:02 AM

Date : 12/14/2021

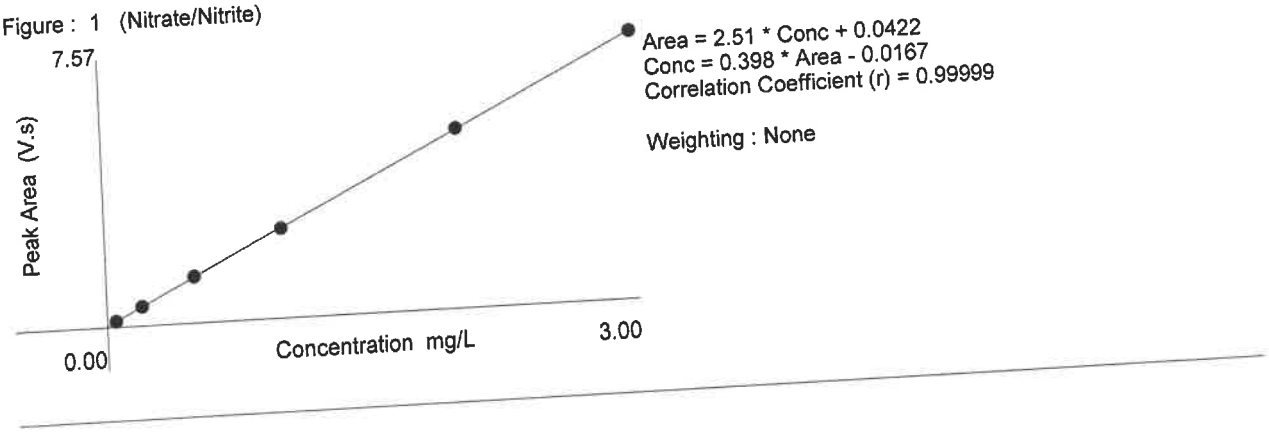
Author: BufLachat3

CCV	1	S9	1.45	3.70	0.348	12/14/2021@11:57:24 AM
	Known Conc:		1.50			
CCB	1	S10	-0.0207	-9.94e-3	-2.99e-3	12/14/2021@11:58:46 AM
	Known Conc:		0.00			

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	7.57	0.669	0.0	0.2	3.00	12/14/2021	6:53:37 AM
2	2.00	1	5.10	0.454	0.0	-0.5	2.01	12/14/2021	6:55:00 AM
3	1.00	1	2.54	0.227	0.0	0.6	0.994	12/14/2021	6:56:22 AM
4	0.500	1	1.31	0.116	0.0	-0.5	0.503	12/14/2021	6:57:45 AM
5	0.200	1	0.545	0.0477	0.0	0.1	0.200	12/14/2021	6:59:08 AM
6	0.0500	1	0.164	0.0131	0.0	2.2	0.0486	12/14/2021	7:00:32 AM

Figure : 1 (Nitrate/Nitrite)



608796

Date : 12/14/2021

Author: BufLachat3

Original Run Filename: OM_12-14-2021_12-13-22PM.OMN Created: 12/14/2021 12:13:22 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_12-14-2021_12-13-22PM.OMN Last Modified: 12/14/2021 12:48:58 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S11	1.55	4.08	0.511	12/14/2021@12:14:33 PM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	-0.0163	-0.0116	9.63e-4	12/14/2021@12:15:56 PM
	Known Conc:		0.00			
MB	1	S10	-2.88e-3	0.0236	2.62e-3	12/14/2021@12:17:18 PM
	Known Conc:		0.00			
LCS	1	S11	1.54	4.06	0.512	12/14/2021@12:18:40 PM
	Known Conc:		1.50			
480-193248-d-2	1	1	-3.16e-3	0.0228	1.82e-3	12/14/2021@12:20:03 PM
MS 480-193248-d-2	1	2	0.973	2.57	0.320	12/14/2021@12:21:26 PM
480-193310-f-2	1	3	4.61e-3	0.0431	4.33e-3	12/14/2021@12:22:49 PM
480-193310-f-5	1	4	0.0390	0.133	0.0152	12/14/2021@12:24:12 PM
480-193310-f-8	1	5	7.34e-3	0.0503	5.12e-3	12/14/2021@12:25:35 PM
480-193314-a-1	1	6	0.870	2.30	0.290	12/14/2021@12:26:57 PM
480-193326-a-1	1	7	-1.21e-3	0.0279	1.84e-3	12/14/2021@12:28:20 PM
480-193336-r-5	1	8	0.0454	0.150	0.0161	12/14/2021@12:29:42 PM
CCV	1	S11	1.54	4.06	0.516	12/14/2021@12:31:05 PM
	Known Conc:		1.50			
CCB	1	S10	1.29e-3	0.0345	2.26e-3	12/14/2021@12:32:27 PM
	Known Conc:		0.00			
480-193336-r-7	1	9	0.0646	0.200	0.0228	12/14/2021@12:33:49 PM
DU 480-193336-r-7	1	10	0.0639	0.198	0.0234	12/14/2021@12:35:12 PM
MS 480-193336-r-7	1	11	1.09	2.89	0.363	12/14/2021@12:36:33 PM
480-193367-b-1	1	12	0.0104	0.0582	4.93e-3	12/14/2021@12:37:55 PM
480-193367-b-2	1	13	0.0152	0.0709	6.84e-3	12/14/2021@12:39:17 PM
480-193367-b-3	1	14	0.0104	0.0582	4.95e-3	12/14/2021@12:40:39 PM
480-193367-b-4	1	15	9.67e-3	0.0564	3.82e-3	12/14/2021@12:42:00 PM
480-193367-b-5	1	16	-0.0182	-0.0164	-2.23e-3	12/14/2021@12:43:23 PM
480-193369-i-2	1	17	0.0363	0.126	0.0120	12/14/2021@12:44:46 PM
CCV	1	S11	1.53	4.04	0.511	12/14/2021@12:46:09 PM
	Known Conc:		1.50			
CCB	1	S10	-0.0144	-6.47e-3	-1.41e-3	12/14/2021@12:47:31 PM
	Known Conc:		0.00			

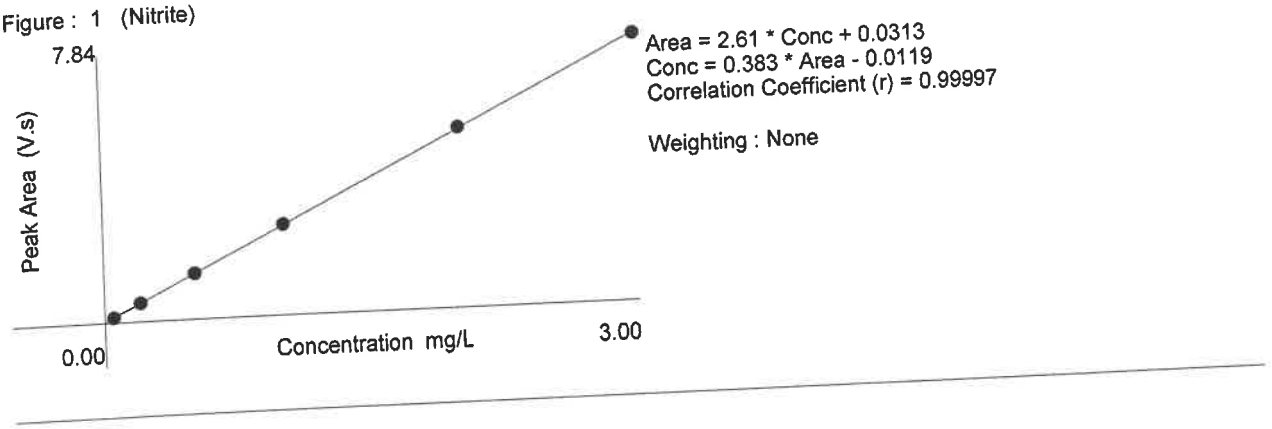
Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	7.84	0.975	0.0	0.4	2.99	12/14/2021	7:11:43 AM
2	2.00	1	5.29	0.660	0.0	-0.7	2.01	12/14/2021	7:13:05 AM
3	1.00	1	2.66	0.329	0.0	-0.6	1.01	12/14/2021	7:14:27 AM
4	0.500	1	1.33	0.165	0.0	0.2	0.499	12/14/2021	7:15:50 AM
5	0.200	1	0.545	0.0668	0.0	1.5	0.197	12/14/2021	7:17:13 AM
6	0.0500	1	0.149	0.0172	0.0	8.1	0.0450	12/14/2021	7:18:37 AM

Date : 12/14/2021

Author: BufLachat3

Figure : 1 (Nitrite)



Date : 12/14/2021

Author: BufLachat3

Original Run Filename: OM_12-14-2021_06-52-27AM.OMN Created: 12/14/2021 6:52:27 AM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_12-14-2021_06-52-27AM.OMN Last Modified: 12/14/2021 7:06:39 AM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

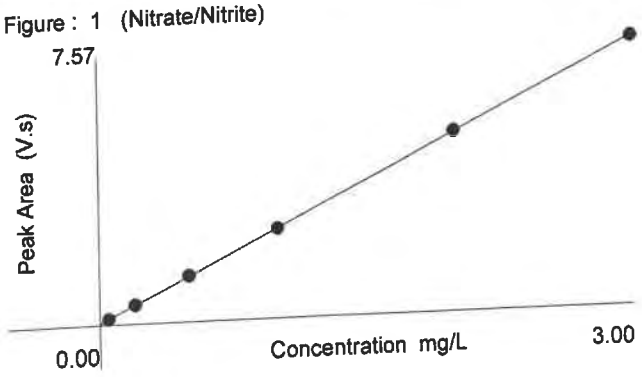
Sample	Rep.	Cup No.	Channel 1 Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
3.0	1	S1	3.00	7.57	0.669	12/14/2021@6:53:37 AM
2.0	1	S2	2.00	5.10	0.454	12/14/2021@6:55:00 AM
1.0	1	S3	1.00	2.54	0.227	12/14/2021@6:56:22 AM
0.5	1	S4	0.500	1.31	0.116	12/14/2021@6:57:45 AM
0.2	1	S5	0.200	0.545	0.0477	12/14/2021@6:59:08 AM
0.05	1	S6	0.0500	0.164	0.0131	12/14/2021@7:00:32 AM
ICV	1	S9	1.50	3.82	0.349	12/14/2021@7:01:54 AM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
ICB	1	S10	-0.0146	5.46e-3	1.32e-3	12/14/2021@7:03:17 AM
	Known Conc:		0.00			
0.05	1	S6	0.0510	0.170	0.0140	12/14/2021@7:04:40 AM

100% recovery

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	7.57	0.669	0.0	0.2	3.00	12/14/2021	6:53:37 AM
2	2.00	1	5.10	0.454	0.0	-0.5	2.01	12/14/2021	6:55:00 AM
3	1.00	1	2.54	0.227	0.0	0.6	0.994	12/14/2021	6:56:22 AM
4	0.500	1	1.31	0.116	0.0	-0.5	0.503	12/14/2021	6:57:45 AM
5	0.200	1	0.545	0.0477	0.0	0.1	0.200	12/14/2021	6:59:08 AM
6	0.0500	1	0.164	0.0131	0.0	2.2	0.0486	12/14/2021	7:00:32 AM

Figure : 1 (Nitrate/Nitrite)



Area = 2.51 * Conc + 0.0422
Conc = 0.398 * Area - 0.0167
Correlation Coefficient (r) = 0.99999

Weighting : None

Date : 12/14/2021

Author: BufLachat3

Original Run Filename: OM_12-14-2021_07-10-33AM.OMN Created: 12/14/2021 7:10:33 AM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_12-14-2021_07-10-33AM.OMN Last Modified: 12/14/2021 7:24:13 AM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

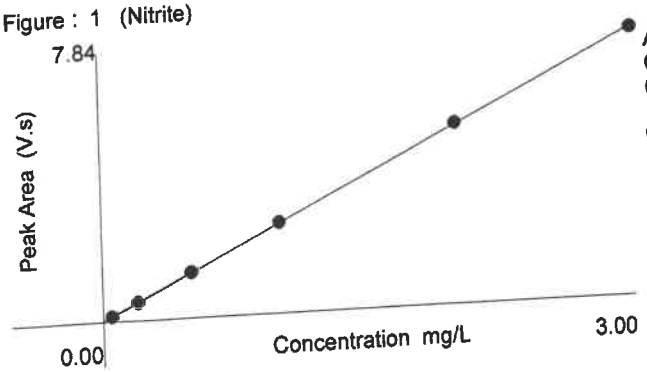
Sample	Rep.	Cup No.	Channel 1 Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
3.0	1	S1	3.00	7.84	0.975	12/14/2021@7:11:43 AM
2.0	1	S2	2.00	5.29	0.660	12/14/2021@7:13:05 AM
1.0	1	S3	1.00	2.66	0.329	12/14/2021@7:14:27 AM
0.5	1	S4	0.500	1.33	0.165	12/14/2021@7:15:50 AM
0.2	1	S5	0.200	0.545	0.0668	12/14/2021@7:17:13 AM
0.05	1	S6	0.0500	0.149	0.0172	12/14/2021@7:18:37 AM
ICV	1	S11	1.53	4.03	0.506	12/14/2021@7:19:59 AM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
ICB	1	S10	-3.69e-3	0.0215	1.76e-3	12/14/2021@7:21:21 AM
	Known Conc:		0.00			
0.05	1	S6	0.0510	0.164	0.0178	12/14/2021@7:22:45 AM

102% recovery

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	7.84	0.975	0.0	0.4	2.99	12/14/2021	7:11:43 AM
2	2.00	1	5.29	0.660	0.0	-0.7	2.01	12/14/2021	7:13:05 AM
3	1.00	1	2.66	0.329	0.0	-0.6	1.01	12/14/2021	7:14:27 AM
4	0.500	1	1.33	0.165	0.0	0.2	0.499	12/14/2021	7:15:50 AM
5	0.200	1	0.545	0.0668	0.0	1.5	0.197	12/14/2021	7:17:13 AM
6	0.0500	1	0.149	0.0172	0.0	8.1	0.0450	12/14/2021	7:18:37 AM

Figure : 1 (Nitrite)



Area = 2.61 * Conc + 0.0313
Conc = 0.383 * Area - 0.0119
Correlation Coefficient (r) = 0.99997

Weighting : None

Historical Data Summary Report

For Batch 608786

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193290-H-9 ^5	MW-6S2	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	5.0	11.3	☐	0.033 - 33.742	☐	6.24 - 31.32
480-193336-R-5	SLC-1A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.081	☐	0 - 0.325	☐	0 - 0.276
480-193336-R-6	PLC-1A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.195	☐	0 - 0.192
480-193336-R-7	LD-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	1.9	☐	0 - 3.609	☐	0.046 - 3.84
480-193367-B-1	MW-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.62	☐	0 - 1.839	☐	0.128 - 1.56
480-193367-B-2	MW-2A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.095	☐	0 - 0.634	☐	0.088 - 0.66
480-193367-B-3	MW-3	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.26	☐	0 - 0.901	☐	0.071 - 0.744
480-193367-B-4	MW-4	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.18	☐	0 - 0.287	☐	0 - 0.24
480-193367-B-5	MW-5	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	2.0	☐	0 - 4.559	☐	0.88 - 4.56
480-193369-I-1	MW-1A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.094	☐	0 - 0.074
480-193369-I-2	MW-2A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.11	☐	0 - 0.539	☐	0 - 0.552
480-193369-I-3	MW-2B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.55	☐	0 - 0.552
480-193369-I-4	MW-1B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-I-5	DUP MW-1B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0

Historical Data Summary Report

For Batch 608796

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193248-D-2	INFLUENT	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193336-R-5	SLC-1A	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.103	☐	0 - 0.11
480-193336-R-7	LD-1	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	0.065	☐	0 - 0.093	☐	0 - 0.1
480-193367-B-1	MW-1	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.069	☐	0 - 0.074
480-193367-B-2	MW-2A	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193367-B-3	MW-3	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.065	☐	0 - 0.07
480-193367-B-4	MW-4	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.095	☐	0 - 0.085
480-193367-B-5	MW-5	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-I-2	MW-2A	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.092	☐	0 - 0.098

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Wet Chemistry Dept

Analysis: Sulfate

Method: 9038

Analyst/Primary Reviewer: SMW

Secondary Reviewer: Chawisa

Date of Analytical Run: 12/16/21

Date of Primary Review: 12/17/21

Date of Secondary Review: 12/20/2021

Prep Batch Number					
Analytical Batch Number	609236				

Criteria for QC	1st Level	2nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, r > or = 0.995, pH meter slope 90-110% (if applicable)	Y	✓		
Was Data Imported X Manually Entered ____ Balance Interface Used ____	Impt	✓		
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Y	✓		
Were the ICB, CCB and MB all <RL?	Y	✓		
Was there a CCV/CCB combination run after every 10 samples or less?	Y	✓		
Was there an LCS run with every batch of 20 samples or less?	Y	✓		
Was there a DU, MS or MSD run with every batch of 20 samples or less?	Y	✓		
Were all MS/MSD results within acceptable limits for QC recovery?	N	✓		
Were all DU or MSD RPDs within acceptable limits for QC recovery?	Y	✓		
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	Y	✓		
Are dilution factors all present and correct?	Y	✓		
Do all entries match raw data?	Y	✓		
Were there any holding time violations in this batch?	N	✓		**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y	✓		
Were any NCMs needed in the batch?	N	✓		NCM #s:
Data scanned in?	Y	✓		

12/23/2021
Chawisa 12/20/2021

Sulfate

9038/D516

1000 PPM	(MS/MSD/CAL)	6560004	EXP: 11/30/2022
30 PPM	(CCV/LCS)	6791930	EXP: 12/20/2021
Precipitating Solution:		6791929	EXP: 12/20/2021
ICV: made from IC standard		6791931	EXP: 02/22/2022

CURVE:

Kone 1: 11/19/2019 Batch: 505599
100 ppm: 5657751

Kone 2: 06/29/2020 Batch: 538610
100 ppm: 5994552

Kone 3: 07/23/2019 Batch: 483387
100 ppm: 5409342

Gallery 1: 12/16/2021 Batch: 609236
100 ppm: 6822609

12/23/2021 Chawisa 12/20/2021

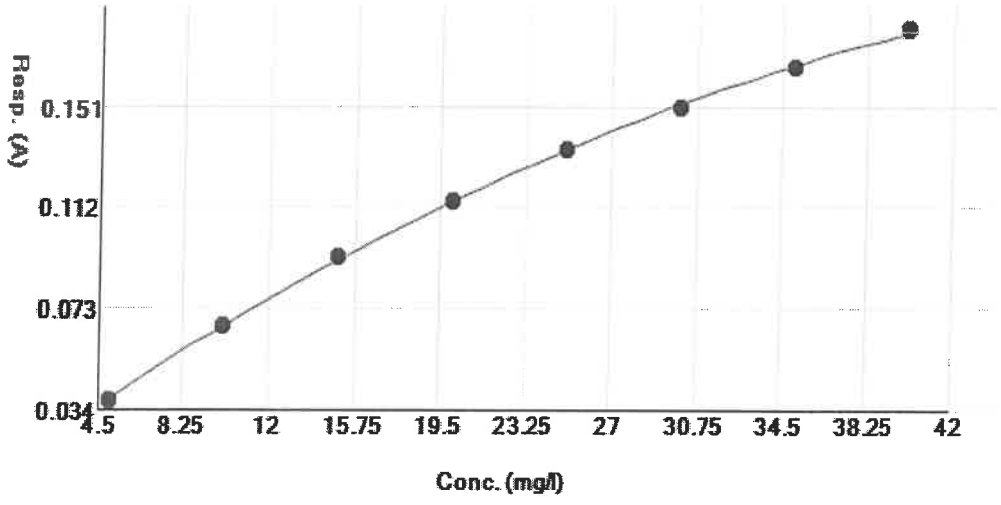
Calibration results

SO4 Version number 1.3

Date	12/16/2021	**User**	BufGallery1
Time	7:26:30PM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	SO4	**Coeff. of deter.**	0.999645
Status	Accepted	**Total factor**	246.737
Accepted	12/16/2021 7:26 PM		
Checked	12/16/2021 7:26 PM	Zero-order factor	0.008
User name	BufGallery1	1st order factor	0.006
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
SO4 5	0.037	4.844	5.000	Default	
SO4 10	0.067	10.097	10.000	Default	
SO4 15	0.093	15.241	15.000	Default	
SO4 20	0.114	20.010	20.000	Default	
SO4 25	0.135	25.054	25.000	Default	
SO4 30	0.151	29.656	30.000	Default	
SO4 35	0.166	34.626	35.000	Default	
SO4 40	0.181	40.512	40.000	Default	
ICB	0.013	0.59	0.00	Default	Outside calibration
SO4 ICV	0.156	31.04	30.00	Default	



Chawisa 12/20/2021

Water blank results

Date 12/17/2021 **User** BufGallery1

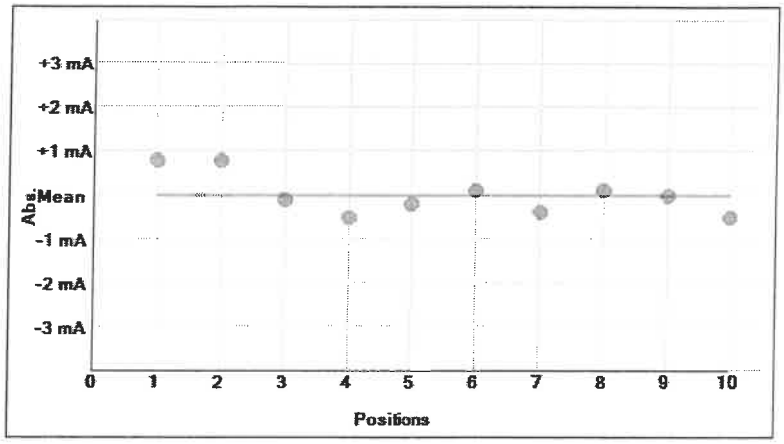
Time 4:13:02AM **Software version: 6.0.2**

Measurement time
12/16/2021 6:45 PM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1003.1**	**0.5**
420	-1036.4	0.2
480	-1046.9	0.2
510	-1050.5	0.2
540	-1054.0	0.1
575	-1057.1	0.2
600	-1058.6	0.2
620	-1060.0	0.2
660	-1062.3	0.1
700	-1063.5	0.1
880	-1047.0	0.2

340



12/23/2021

Chawisa 12/20/2021

609236

Results by Test

Date 12/17/2021 **User** BufGallery1

Time 4:00:07AM **Software version: 6.0.2**

Test name SO4

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	CCB	1.3	0.53	mg/l		0.0	man acc	Outside calibration
2	CCV SO4	1.3	30.24	mg/l		0.0	man acc	
7	CCB	1.3	1.83	mg/l		0.0	man acc	Outside calibration
8	CCV SO4	1.3	30.41	mg/l		0.0	man acc	
11	480-193026-G-4	1.3	20.21	mg/l		0.0	man acc	
12	480-193026-G-5	1.3	7.13	mg/l		0.0	man acc	
13	CCB	1.3	0.54	mg/l		0.0	man acc	Outside calibration
14	CCV SO4	1.3	30.44	mg/l		0.0	man acc	
16	480-193026-G-6	1.3	0.61	mg/l		0.0	man acc	Outside calibration
17	480-193199-G-1	1.3	0.24	mg/l		0.0	man acc	Outside calibration
18	480-193199-G-2	1.3	0.32	mg/l		0.0	man acc	Outside calibration
19	480-193199-G-3	1.3	0.72	mg/l		0.0	man acc	Outside calibration
20	CCB	1.3	1.01	mg/l		0.0	man acc	Outside calibration
21	CCV SO4	1.3	30.61	mg/l		0.0	man acc	
22	480-193199-G-4	1.3	27.35	mg/l		0.0	man acc	
23	480-193199-G-5	1.3	0.29	mg/l		0.0	man acc	Outside calibration
24	480-193026-G-1	1.3	239.26	mg/l		9.0	man acc	
26	CCB	1.3	0.78	mg/l		0.0	man acc	Outside calibration
27	CCV SO4	1.3	30.89	mg/l		0.0	man acc	
28	ms480-193026-G-1	1.3	252.43	mg/l		9.0	man acc	
29	msd480-193026-G-	1.3	258.10	mg/l		9.0	man acc	
31	480-193199-G-7	1.3	58.55	mg/l		2.0	man acc	
37	CCB	1.3	0.45	mg/l		0.0	man acc	Outside calibration
38	CCV SO4	1.3	29.94	mg/l		0.0	man acc	
43	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
44	CCV SO4	1.3	29.24	mg/l		0.0	man acc	
45	ms480-193241-I-2	1.3	31.76	mg/l		0.0	man acc	
46	msd480-193241-I-2	1.3	34.56	mg/l		0.0	man acc	
49	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
50	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
51	480-193241-I-5	1.3	15.80	mg/l		0.0	man acc	
52	480-193241-I-6	1.3	16.02	mg/l		0.0	man acc	

12/23/2021

Chawisa 12/20/2021

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
53	ms480-193241-I-6	1.3	36.21	mg/l		0.0	man acc	
54	msd480-193241-I-6	1.3	36.61	mg/l		0.0	man acc	
55	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
56	CCV SO4	1.3	29.72	mg/l		0.0	man acc	
57	480-193243-I-1	1.3	0.38	mg/l		0.0	man acc	Outside calibration
58	480-193243-I-2	1.3	1.58	mg/l		0.0	man acc	Outside calibration
59	480-193265-G-1	1.3	148.26	mg/l		9.0	man acc	
60	480-193265-G-2	1.3	264.60	mg/l		9.0	man acc	
61	CCB	1.3	0.33	mg/l		0.0	man acc	Outside calibration
62	CCV SO4	1.3	30.05	mg/l		0.0	man acc	
64	480-193265-G-4	1.3	180.61	mg/l		4.0	man acc	
65	480-193265-G-5	1.3	151.66	mg/l		4.0	man acc	
66	480-193265-G-6	1.3	154.37	mg/l		4.0	man acc	
67	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
68	CCV SO4	1.3	29.74	mg/l		0.0	man acc	
73	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
74	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
77	480-193265-G-3	1.3	497.87	mg/l		19.0	man acc	
78	ms480-193290-I-2	1.3	51.11	mg/l		1.0	man acc	
79	CCB	1.3	0.27	mg/l		0.0	man acc	Outside calibration
80	CCV SO4	1.3	29.53	mg/l		0.0	man acc	
84	CCB	1.3	0.59	mg/l		0.0	man acc	Outside calibration
85	CCV SO4	1.3	29.38	mg/l		0.0	man acc	
87	ms480-193290-I-4	1.3	31.64	mg/l		0.0	man acc	
89	msd480-193290-I-4	1.3	31.02	mg/l		0.0	man acc	
91	CCB	1.3	0.36	mg/l		0.0	man acc	Outside calibration
92	CCV SO4	1.3	29.90	mg/l		0.0	man acc	
97	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
98	CCV SO4	1.3	29.39	mg/l		0.0	man acc	
100	ms480-193290-I-9	1.3	160.89	mg/l		4.0	man acc	
101	msd480-193290-I-9	1.3	150.48	mg/l		4.0	man acc	
102	CCB	1.3	0.42	mg/l		0.0	man acc	Outside calibration
104	CCV SO4	1.3	31.98	mg/l		0.0	man acc	
105	ms480-193305-E-1	1.3	525.78	mg/l		24.0	man acc	
106	msd480-193305-E-	1.3	529.05	mg/l		24.0	man acc	
107	480-193310-G-1	1.3	1.72	mg/l		0.0	man acc	Outside calibration
108	480-193310-G-2	1.3	0.39	mg/l		0.0	man acc	Outside calibration
109	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
110	CCV SO4	1.3	29.14	mg/l		0.0	man acc	

12/23/2021

Chawisa 12/20/2021

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
111	480-193310-G-3	1.3	1.01	mg/l		0.0	man acc	Outside calibration
112	480-193310-G-4	1.3	0.41	mg/l		0.0	man acc	Outside calibration
113	480-193310-G-5	1.3	0.50	mg/l		0.0	man acc	Outside calibration
114	480-193310-G-6	1.3	0.67	mg/l		0.0	man acc	Outside calibration
115	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
116	CCV SO4	1.3	28.91	mg/l		0.0	man acc	
117	480-193310-G-7	1.3	13.85	mg/l		0.0	man acc	
118	480-193310-G-8	1.3	0.28	mg/l		0.0	man acc	Outside calibration
119	480-193317-D-1	1.3	29.36	mg/l		0.0	man acc	
120	480-193317-D-2	1.3	27.32	mg/l		0.0	man acc	
121	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
122	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
123	480-193317-D-3	1.3	23.73	mg/l		0.0	man acc	
124	480-193317-D-4	1.3	24.23	mg/l		0.0	man acc	
126	480-193317-D-6	1.3	28.04	mg/l		0.0	man acc	
127	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
128	CCV SO4	1.3	29.11	mg/l		0.0	man acc	
133	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
134	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
137	480-193335-I-2	1.3	30.53	mg/l		0.0	man acc	
138	ms480-193335-I-2	1.3	49.23	mg/l		1.0	man acc	
141	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
142	CCV SO4	1.3	29.63	mg/l		0.0	man acc	
143	msd480-193335-I-2	1.3	49.90	mg/l		1.0	man acc	
144	480-193335-I-3	1.3	20.86	mg/l		0.0	man acc	
145	480-193317-D-5	1.3	48.01	mg/l		1.0	man acc	
146	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
148	CCV SO4	1.3	30.05	mg/l		0.0	man acc	
149	480-193317-D-7	1.3	36.13	mg/l		1.0	man acc	
150	480-193317-D-8	1.3	55.61	mg/l		1.0	man acc	
151	480-193334-J-1	1.3	78.00	mg/l		1.0	man acc	
152	msd480-193335-I-3	1.3	43.94	mg/l		1.0	man acc	
156	CCB	1.3	0.48	mg/l		0.0	man acc	Outside calibration
157	CCV SO4	1.3	28.71	mg/l		0.0	man acc	
158	CCB	1.3	0.43	mg/l		0.0	man acc	Outside calibration
159	CCV SO4	1.3	29.82	mg/l		0.0	man acc	
160	480-193024-G-1	1.3	448.33	mg/l		19.0	man acc	
162	480-193026-G-3	1.3	1.01	mg/l		0.0	man acc	Outside calibration
164	CCB	1.3	0.43	mg/l		0.0	man acc	Outside calibration

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
165	CCV SO4	1.3	29.45	mg/l		0.0	man acc	
166	480-193199-G-8	1.3	0.21	mg/l		0.0	man acc	Outside calibration
167	ms480-193199-G-7	1.3	72.73	mg/l		4.0	man acc	
168	msd480-193199-G-	1.3	82.48	mg/l		4.0	man acc	
169	480-193203-G-1	1.3	0.46	mg/l		0.0	man acc	Outside calibration
170	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
171	CCV SO4	1.3	30.29	mg/l		0.0	man acc	
173	480-193241-I-1	1.3	0.42	mg/l		0.0	man acc	Outside calibration
174	480-193241-I-2	1.3	9.58	mg/l		0.0	man acc	
175	480-193241-I-3	1.3	23.39	mg/l		0.0	man acc	
176	CCB	1.3	0.38	mg/l		0.0	man acc	Outside calibration
177	CCV SO4	1.3	30.02	mg/l		0.0	man acc	
178	480-193241-I-4	1.3	23.85	mg/l		0.0	man acc	
179	480-193265-G-9	1.3	33.04	mg/l		0.0	man acc	
180	480-193265-G-7	1.3	20.82	mg/l		1.0	man acc	
181	480-193265-G-8	1.3	867.42	mg/l		24.0	man acc	Test limit High
182	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
183	CCV SO4	1.3	28.98	mg/l		0.0	man acc	
184	480-193265-G-10	1.3	2.25	mg/l		0.0	man acc	Outside calibration
185	480-193290-I-2	1.3	31.60	mg/l		0.0	man acc	
186	480-193265-G-11	1.3	308.21	mg/l		9.0	man acc	
187	msd480-193290-I-2	1.3	52.31	mg/l		1.0	man acc	
188	CCB	1.3	0.22	mg/l		0.0	man acc	Outside calibration
189	CCV SO4	1.3	30.02	mg/l		0.0	man acc	
190	480-193290-I-4	1.3	9.43	mg/l		0.0	man acc	
191	480-193290-I-5	1.3	14.90	mg/l		0.0	man acc	
192	480-193290-I-3	1.3	40.66	mg/l		1.0	man acc	
193	480-193290-I-6	1.3	15.77	mg/l		0.0	man acc	
194	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
195	CCV SO4	1.3	29.55	mg/l		0.0	man acc	
198	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
201	CCV SO4	1.3	29.54	mg/l		0.0	man acc	
204	480-193331-G-2	1.3	33.47	mg/l		1.0	man acc	
205	ms480-193335-I-3	1.3	42.70	mg/l		1.0	man acc	
206	CCB	1.3	0.08	mg/l		0.0	man acc	Outside calibration
207	CCV SO4	1.3	30.62	mg/l		0.0	man acc	
208	480-193335-I-4	1.3	0.27	mg/l		0.0	man acc	Outside calibration
209	480-193335-I-5	1.3	17.94	mg/l		0.0	man acc	
211	480-193335-I-6	1.3	51.48	mg/l		1.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
212	CCB	1.3	0.33	mg/l		0.0	man acc	Outside calibration
213	CCV SO4	1.3	29.50	mg/l		0.0	man acc	
215	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
216	CCV SO4	1.3	29.34	mg/l		0.0	man acc	
217	CCB	1.3	0.00	mg/l		0.0	man acc	Outside calibration
218	CCV SO4	1.3	28.36	mg/l		0.0	man acc	
220	480-193199-G-6	1.3	25.13	mg/l		1.0	man acc	
221	480-193203-G-2	1.3	57.67	mg/l		1.0	man acc	
222	480-193290-I-7	1.3	-0.12	mg/l		0.0	man acc	Outside calibration
223	CCB	1.3	-0.09	mg/l		0.0	man acc	Outside calibration
224	CCV SO4	1.3	27.52	mg/l		0.0	man acc	
225	480-193331-I-1	1.3	3.97	mg/l		0.0	man acc	Outside calibration
226	480-193290-I-8	1.3	10.98	mg/l		1.0	man acc	
227	480-193290-I-9	1.3	131.06	mg/l		4.0	man acc	
231	480-193335-I-1	1.3	30.22	mg/l		0.0	man acc	
234	CCB	1.3	-0.07	mg/l		0.0	man acc	Outside calibration
235	CCV SO4	1.3	28.01	mg/l		0.0	man acc	
236	480-193026-G-2	1.3	18.17	mg/l		1.0	man acc	
237	480-193305-E-1	1.3	528.97	mg/l		24.0	man acc	
240	CCB	1.3	-0.06	mg/l		0.0	man acc	Outside calibration
241	CCV SO4	1.3	27.65	mg/l		0.0	man acc	
243	480-193336-Q-2	1.3	-1.64	mg/l		0.0	man acc	Outside calibration
244	480-193336-Q-3	1.3	2.73	mg/l		0.0	man acc	Outside calibration
245	480-193336-Q-5	1.3	0.23	mg/l		0.0	man acc	Outside calibration
246	CCB	1.3	-0.12	mg/l		0.0	man acc	Outside calibration
247	CCV SO4	1.3	27.99	mg/l		0.0	man acc	
248	480-193336-Q-6	1.3	3.84	mg/l		0.0	man acc	Outside calibration
249	480-193336-Q-7	1.3	42.69	mg/l		2.0	man acc	
250	480-193337-H-1	1.3	17.27	mg/l		0.0	man acc	
251	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
252	CCV SO4	1.3	27.24	mg/l		0.0	man acc	
253	ms480-193337-H-1	1.3	36.91	mg/l		1.0	man acc	
254	msd480-193337-H-	1.3	37.60	mg/l		1.0	man acc	
255	480-193337-H-2	1.3	17.76	mg/l		0.0	man acc	
256	CCB	1.3	-0.25	mg/l		0.0	man acc	Outside calibration
258	CCV SO4	1.3	28.61	mg/l		0.0	man acc	
260	msd480-193337-H-	1.3	37.48	mg/l		1.0	man acc	
261	480-193369-K-1	1.3	17.94	mg/l		0.0	man acc	
262	480-193369-K-2	1.3	-0.16	mg/l		0.0	man acc	Outside calibration

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
263	CCB	1.3	-0.18	mg/l		0.0	man acc	Outside calibration
264	CCV SO4	1.3	27.82	mg/l		0.0	man acc	
265	480-193369-K-3	1.3	-0.03	mg/l		0.0	man acc	Outside calibration
266	480-193369-K-4	1.3	7.21	mg/l		0.0	man acc	
267	480-193369-K-5	1.3	7.08	mg/l		0.0	man acc	
269	CCB	1.3	-0.19	mg/l		0.0	man acc	Outside calibration
270	CCV SO4	1.3	27.65	mg/l		0.0	man acc	
271	480-193397-D-2	1.3	3.37	mg/l		0.0	man acc	Outside calibration
274	480-193397-D-5	1.3	22.64	mg/l		0.0	man acc	
275	CCB	1.3	-0.21	mg/l		0.0	man acc	Outside calibration
276	CCV SO4	1.3	27.81	mg/l		0.0	man acc	
277	480-193397-D-6	1.3	31.06	mg/l		0.0	man acc	
278	480-193336-Q-1	1.3	93.02	mg/l		4.0	man acc	
280	480-193436-K-2	1.3	0.02	mg/l		0.0	man acc	Outside calibration
281	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
282	CCV SO4	1.3	27.72	mg/l		0.0	man acc	
283	480-193436-K-3	1.3	10.88	mg/l		0.0	man acc	
284	ms480-193436-K-3	1.3	33.25	mg/l		1.0	man acc	
285	480-193397-D-1	1.3	33.10	mg/l		1.0	man acc	
286	480-193397-D-3	1.3	52.14	mg/l		1.0	man acc	
287	CCB	1.3	-0.26	mg/l		0.0	man acc	Outside calibration
288	CCV SO4	1.3	27.49	mg/l		0.0	man acc	
289	msd480-193436-K-	1.3	36.07	mg/l		1.0	man acc	
290	480-193436-K-4	1.3	1.52	mg/l		0.0	man acc	Outside calibration
291	480-193397-D-4	1.3	60.96	mg/l		1.0	man acc	
292	480-193436-K-5	1.3	16.49	mg/l		0.0	man acc	
293	CCB	1.3	-0.11	mg/l		0.0	man acc	Outside calibration
294	CCV SO4	1.3	30.69	mg/l		0.0	man acc	
295	ms480-193436-K-5	1.3	36.09	mg/l		1.0	man acc	
296	msd480-193436-K-	1.3	39.57	mg/l		0.0	man acc	
297	480-193436-K-6	1.3	0.09	mg/l		0.0	man acc	Outside calibration
298	480-193397-D-7	1.3	50.78	mg/l		1.0	man acc	
299	CCB	1.3	-0.04	mg/l		0.0	man acc	Outside calibration
300	CCV SO4	1.3	27.27	mg/l		0.0	man acc	
301	480-193436-K-7	1.3	23.49	mg/l		0.0	man acc	
302	480-193436-K-8	1.3	0.31	mg/l		0.0	man acc	Outside calibration
303	480-193439-H-1	1.3	16.99	mg/l		0.0	man acc	
304	480-193439-H-2	1.3	15.81	mg/l		0.0	man acc	
305	CCB	1.3	0.02	mg/l		0.0	man acc	Outside calibration

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
306	CCV SO4	1.3	27.94	mg/l		0.0	man acc	
307	480-193439-H-3	1.3	17.36	mg/l		0.0	man acc	
308	480-193439-H-4	1.3	16.10	mg/l		0.0	man acc	
309	480-193439-H-5	1.3	15.78	mg/l		0.0	man acc	
310	480-193439-H-6	1.3	1.50	mg/l		0.0	man acc	Outside calibration
311	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
312	CCV SO4	1.3	28.50	mg/l		0.0	man acc	
313	480-193439-H-7	1.3	11.64	mg/l		0.0	man acc	
315	480-193439-H-9	1.3	28.03	mg/l		0.0	man acc	
319	CCB	1.3	-0.01	mg/l		0.0	man acc	Outside calibration
320	CCV SO4	1.3	28.08	mg/l		0.0	man acc	
321	480-193439-H-11	1.3	24.25	mg/l		0.0	man acc	
322	480-193444-I-1	1.3	0.66	mg/l		0.0	man acc	Outside calibration
323	480-193444-I-2	1.3	0.08	mg/l		0.0	man acc	Outside calibration
324	480-193444-I-3	1.3	0.67	mg/l		0.0	man acc	Outside calibration
325	CCB	1.3	0.08	mg/l		0.0	man acc	Outside calibration
326	CCV SO4	1.3	28.05	mg/l		0.0	man acc	
327	ms480-193444-I-3	1.3	21.52	mg/l		1.0	man acc	
328	msd480-193444-I-3	1.3	21.39	mg/l		1.0	man acc	
332	ms480-193444-I-4	1.3	59.66	mg/l		1.0	man acc	
333	msd480-193444-I-4	1.3	60.81	mg/l		1.0	man acc	
334	CCB	1.3	0.66	mg/l		0.0	man acc	Outside calibration
335	CCV SO4	1.3	29.70	mg/l		0.0	man acc	
337	480-193444-I-6	1.3	2.30	mg/l		0.0	man acc	Outside calibration
338	480-193467-I-1	1.3	0.59	mg/l		0.0	man acc	Outside calibration
339	ms480-193467-I-1	1.3	22.02	mg/l		0.0	man acc	
340	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
341	CCV SO4	1.3	29.19	mg/l		0.0	man acc	
342	msd480-193467-I-1	1.3	21.36	mg/l		0.0	man acc	
343	480-193444-I-4	1.3	39.64	mg/l		1.0	man acc	
344	480-193467-I-2	1.3	35.43	mg/l		4.0	man acc	
345	480-193439-H-10	1.3	95.98	mg/l		4.0	man acc	
346	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
347	CCV SO4	1.3	30.34	mg/l		0.0	man acc	
348	480-193439-H-8	1.3	88.12	mg/l		4.0	man acc	
349	480-193467-I-3	1.3	124.49	mg/l		4.0	man acc	
351	480-193467-I-4	1.3	158.35	mg/l		4.0	man acc	
352	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
353	CCV SO4	1.3	30.91	mg/l		0.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
354	480-193467-I-5	1.3	36.31	mg/l		0.0	man acc	
355	480-193467-I-6	1.3	1,611.10	mg/l		49.0	man acc	Test limit High
356	480-193467-I-7	1.3	833.00	mg/l		24.0	man acc	Test limit High
357	480-193481-G-1	1.3	698.32	mg/l		29.0	man acc	
358	CCB	1.3	0.54	mg/l		0.0	man acc	Outside calibration
359	CCV SO4	1.3	29.95	mg/l		0.0	man acc	
360	480-193482-G-1	1.3	0.32	mg/l		0.0	man acc	Outside calibration
361	480-193482-G-2	1.3	0.35	mg/l		0.0	man acc	Outside calibration
362	480-193482-G-3	1.3	628.62	mg/l		19.0	man acc	Test limit High
363	480-193444-I-5	1.3	92.51	mg/l		4.0	man acc	
364	CCB	1.3	0.58	mg/l		0.0	man acc	Outside calibration
365	CCV SO4	1.3	31.06	mg/l		0.0	man acc	
366	480-193482-G-4	1.3	473.13	mg/l		19.0	man acc	
367	480-193482-G-5	1.3	0.33	mg/l		0.0	man acc	Outside calibration
368	480-193482-G-6	1.3	1,623.59	mg/l		49.0	man acc	Test limit High
369	480-193482-G-7	1.3	56.37	mg/l		2.0	man acc	
370	CCB	1.3	0.40	mg/l		0.0	man acc	Outside calibration
371	CCV SO4	1.3	29.40	mg/l		0.0	man acc	
372	480-193482-G-8	1.3	1,201.07	mg/l		39.0	man acc	Test limit High
373	480-193482-G-9	1.3	361.30	mg/l		9.0	man acc	
374	480-193512-K-1	1.3	33.56	mg/l		0.0	man acc	
375	480-193512-K-2	1.3	0.67	mg/l		0.0	man acc	Outside calibration
376	CCB	1.3	0.48	mg/l		0.0	man acc	Outside calibration
377	CCV SO4	1.3	30.16	mg/l		0.0	man acc	
378	480-193512-K-3	1.3	2.66	mg/l		0.0	man acc	Outside calibration
379	480-193512-K-4	1.3	0.52	mg/l		0.0	man acc	Outside calibration
380	480-193526-C-5	1.3	21.67	mg/l		0.0	man acc	
382	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
383	CCV SO4	1.3	30.06	mg/l		0.0	man acc	
385	480-193526-C-6	1.3	21.74	mg/l		0.0	man acc	
387	480-193531-G-2	1.3	1.39	mg/l		0.0	man acc	Outside calibration
396	480-193531-G-7	1.3	32.06	mg/l		0.0	man acc	
399	ms480-193526-C-5	1.3	41.67	mg/l		1.0	man acc	
400	CCB	1.3	0.56	mg/l		0.0	man acc	Outside calibration
401	CCV SO4	1.3	30.14	mg/l		0.0	man acc	
402	msd480-193526-C-	1.3	40.96	mg/l		1.0	man acc	
403	480-193531-G-1	1.3	12.29	mg/l		1.0	man acc	
404	CCB	1.3	0.61	mg/l		0.0	man acc	Outside calibration
405	CCV SO4	1.3	29.85	mg/l		0.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
406	480-193531-G-3	1.3	35.46	mg/l		1.0	man acc	
407	480-193531-G-4	1.3	60.48	mg/l		1.0	man acc	
408	480-193531-G-5	1.3	48.41	mg/l		1.0	man acc	
409	480-193531-G-6	1.3	59.56	mg/l		1.0	man acc	
412	CCB	1.3	0.51	mg/l		0.0	man acc	Outside calibration
413	CCV SO4	1.3	29.96	mg/l		0.0	man acc	
414	ms480-193337-H-2	1.3	40.44	mg/l		1.0	man acc	
415	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
416	CCV SO4	1.3	30.40	mg/l		0.0	man acc	

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Results by Test

Date 12/17/2021 **User** BufGallery1

Time 4:08:01AM **Software version: 6.0.2**

Test name SO4 KIN

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	480-193024-G-1	1.1	-0.0046	mg/l		19.0	man acc	Reaction direction
6	480-193026-G-3	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
7	480-193026-G-4	1.1	-0.0048	mg/l		0.0	man acc	Point(s) out of curve, Reaction directi
8	480-193026-G-5	1.1	0.0001	mg/l		0.0	man acc	Point(s) out of curve
9	480-193026-G-6	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
10	480-193199-G-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
11	480-193199-G-2	1.1	0.0000	mg/l		0.0	man acc	
12	480-193199-G-3	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction
13	480-193199-G-4	1.1	-0.0019	mg/l		0.0	man acc	Reaction direction
14	480-193199-G-5	1.1	0.0001	mg/l		0.0	man acc	
16	480-193199-G-7	1.1	0.0362	mg/l		2.0	man acc	Point(s) out of curve
19	480-193199-G-8	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
20	480-193203-G-1	1.1	0.0013	mg/l		0.0	man acc	
22	480-193241-I-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
23	480-193241-I-2	1.1	0.0025	mg/l		0.0	man acc	
24	ms480-193241-I-2	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
25	msd480-193241-I-2	1.1	0.0001	mg/l		0.0	man acc	
26	480-193241-I-3	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
27	480-193241-I-4	1.1	0.0009	mg/l		0.0	man acc	
28	480-193241-I-5	1.1	0.0022	mg/l		0.0	man acc	
29	480-193241-I-6	1.1	0.0004	mg/l		0.0	man acc	
30	ms480-193241-I-6	1.1	-0.0007	mg/l		0.0	man acc	Reaction direction
31	msd480-193241-I-6	1.1	-0.0009	mg/l		0.0	man acc	Reaction direction
32	480-193243-I-1	1.1	0.0001	mg/l		0.0	man acc	
33	480-193243-I-2	1.1	0.0007	mg/l		0.0	man acc	
34	480-193265-G-1	1.1	0.0145	mg/l		9.0	man acc	
35	480-193265-G-2	1.1	0.0116	mg/l		9.0	man acc	Point(s) out of curve
37	480-193265-G-4	1.1	0.0088	mg/l		4.0	man acc	
38	480-193265-G-5	1.1	0.0040	mg/l		4.0	man acc	
39	480-193265-G-6	1.1	0.0036	mg/l		4.0	man acc	
42	480-193265-G-9	1.1	0.0052	mg/l		0.0	man acc	Point(s) out of curve
43	480-193265-G-10	1.1	0.0002	mg/l		0.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
44	480-193265-G-11	1.1	-0.0010	mg/l		9.0	man acc	Reaction direction
45	480-193290-I-2	1.1	0.0010	mg/l		0.0	man acc	
46	ms480-193290-I-2	1.1	0.0018	mg/l		1.0	man acc	
47	msd480-193290-I-2	1.1	0.0019	mg/l		1.0	man acc	
49	480-193290-I-4	1.1	0.0010	mg/l		0.0	man acc	Blank init abs. low
50	ms480-193290-I-4	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
51	msd480-193290-I-4	1.1	-0.0004	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
52	480-193290-I-5	1.1	0.0006	mg/l		0.0	man acc	
53	480-193290-I-6	1.1	0.0006	mg/l		0.0	man acc	
56	480-193290-I-9	1.1	0.0085	mg/l		4.0	man acc	
57	ms480-193290-I-9	1.1	0.0025	mg/l		4.0	man acc	
58	msd480-193290-I-9	1.1	0.0025	mg/l		4.0	man acc	
59	480-193305-E-1	1.1	0.0444	mg/l		24.0	man acc	
60	ms480-193305-E-1	1.1	0.0408	mg/l		24.0	man acc	
61	msd480-193305-E-	1.1	0.0382	mg/l		24.0	man acc	
62	480-193310-G-1	1.1	0.0004	mg/l		0.0	man acc	
63	480-193310-G-2	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
64	480-193310-G-3	1.1	0.0001	mg/l		0.0	man acc	
65	480-193310-G-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
66	480-193310-G-5	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction
67	480-193310-G-6	1.1	0.0002	mg/l		0.0	man acc	
68	480-193310-G-7	1.1	0.0008	mg/l		0.0	man acc	
69	480-193310-G-8	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
70	480-193317-D-1	1.1	0.0010	mg/l		0.0	man acc	
71	480-193317-D-2	1.1	0.0012	mg/l		0.0	man acc	
72	480-193317-D-3	1.1	0.0015	mg/l		0.0	man acc	
73	480-193317-D-4	1.1	0.0015	mg/l		0.0	man acc	
75	480-193317-D-6	1.1	0.0021	mg/l		0.0	man acc	
78	480-193331-I-1	1.1	-0.0007	mg/l		0.0	man acc	Reaction direction
81	480-193335-I-1	1.1	0.0008	mg/l		0.0	man acc	
82	480-193335-I-2	1.1	0.0012	mg/l		0.0	man acc	
83	ms480-193335-I-2	1.1	0.0016	mg/l		1.0	man acc	
84	msd480-193335-I-2	1.1	0.0017	mg/l		1.0	man acc	
85	480-193335-I-3	1.1	0.0018	mg/l		0.0	man acc	
86	ms480-193335-I-3	1.1	0.0022	mg/l		1.0	man acc	Blank init abs. low
87	msd480-193335-I-3	1.1	0.0025	mg/l		1.0	man acc	
88	480-193335-I-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
89	480-193335-I-5	1.1	0.0016	mg/l		0.0	man acc	
90	480-193335-I-6	1.1	-0.0012	mg/l		1.0	man acc	Point(s) out of curve, Reaction directi

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
91	480-193026-G-1	1.1	-0.0025	mg/l		9.0	man acc	Reaction direction
92	ms480-193026-G-1	1.1	-0.0045	mg/l		9.0	man acc	Reaction direction
93	msd480-193026-G-	1.1	-0.0034	mg/l		9.0	man acc	Reaction direction
94	480-193265-G-3	1.1	-0.0105	mg/l		19.0	man acc	Reaction direction
95	480-193317-D-5	1.1	0.0016	mg/l		1.0	man acc	
96	ms480-193199-G-7	1.1	0.0147	mg/l		4.0	man acc	Point(s) out of curve
97	msd480-193199-G-	1.1	0.0162	mg/l		4.0	man acc	Point(s) out of curve
98	480-193265-G-7	1.1	0.0069	mg/l		1.0	man acc	Point(s) out of curve
99	480-193265-G-8	1.1	-0.0149	mg/l		24.0	man acc	Reaction direction, Blank init abs. low
100	480-193290-I-3	1.1	0.0003	mg/l		1.0	man acc	
101	480-193331-G-2	1.1	0.0043	mg/l		1.0	man acc	
102	480-193199-G-6	1.1	-0.0042	mg/l		1.0	man acc	Reaction direction
103	480-193203-G-2	1.1	0.0044	mg/l		1.0	man acc	Point(s) out of curve
104	480-193290-I-7	1.1	0.0000	mg/l		0.0	man acc	
105	480-193290-I-8	1.1	0.0017	mg/l		1.0	man acc	
106	480-193026-G-2	1.1	0.0186	mg/l		1.0	man acc	Point(s) out of curve
107	480-193317-D-7	1.1	0.0030	mg/l		1.0	man acc	
108	480-193317-D-8	1.1	0.0012	mg/l		1.0	man acc	Blank init abs. low
109	480-193334-J-1	1.1	0.0077	mg/l		1.0	man acc	Point(s) out of curve
111	480-193336-Q-2	1.1	-0.0328	mg/l		0.0	man acc	Point(s) out of curve, Reaction directi
112	480-193336-Q-3	1.1	0.0012	mg/l		0.0	man acc	
113	480-193336-Q-5	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
114	480-193336-Q-6	1.1	0.0016	mg/l		0.0	man acc	
115	480-193336-Q-7	1.1	0.0089	mg/l		2.0	man acc	Point(s) out of curve
116	480-193337-H-1	1.1	0.0022	mg/l		0.0	man acc	Point(s) out of curve
117	ms480-193337-H-1	1.1	0.0032	mg/l		1.0	man acc	
118	msd480-193337-H-	1.1	0.0029	mg/l		1.0	man acc	
119	480-193337-H-2	1.1	0.0021	mg/l		0.0	man acc	Point(s) out of curve
120	ms480-193337-H-2	1.1	0.0026	mg/l		1.0	man acc	
121	msd480-193337-H-	1.1	0.0024	mg/l		1.0	man acc	
122	480-193369-K-1	1.1	0.0020	mg/l		0.0	man acc	
123	480-193369-K-2	1.1	0.0001	mg/l		0.0	man acc	
124	480-193369-K-3	1.1	0.0001	mg/l		0.0	man acc	
125	480-193369-K-4	1.1	0.0041	mg/l		0.0	man acc	Point(s) out of curve
126	480-193369-K-5	1.1	0.0043	mg/l		0.0	man acc	Point(s) out of curve
128	480-193397-D-2	1.1	0.0008	mg/l		0.0	man acc	
131	480-193397-D-5	1.1	0.0024	mg/l		0.0	man acc	Blank init abs. low
132	480-193397-D-6	1.1	0.0016	mg/l		0.0	man acc	
134	480-193436-K-2	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
135	480-193436-K-3	1.1	0.0041	mg/l		0.0	man acc	Point(s) out of curve
136	ms480-193436-K-3	1.1	0.0035	mg/l		1.0	man acc	
137	msd480-193436-K-	1.1	0.0035	mg/l		1.0	man acc	
138	480-193436-K-4	1.1	0.0014	mg/l		0.0	man acc	
139	480-193436-K-5	1.1	0.0026	mg/l		0.0	man acc	Point(s) out of curve
140	ms480-193436-K-5	1.1	0.0034	mg/l		1.0	man acc	
141	msd480-193436-K-	1.1	0.0000	mg/l		0.0	man acc	
142	480-193436-K-6	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
143	480-193436-K-7	1.1	0.0017	mg/l		0.0	man acc	
144	480-193436-K-8	1.1	0.0001	mg/l		0.0	man acc	
145	480-193439-H-1	1.1	0.0007	mg/l		0.0	man acc	
146	480-193439-H-2	1.1	0.0013	mg/l		0.0	man acc	
147	480-193439-H-3	1.1	0.0014	mg/l		0.0	man acc	
148	480-193439-H-4	1.1	0.0019	mg/l		0.0	man acc	
149	480-193439-H-5	1.1	0.0011	mg/l		0.0	man acc	
150	480-193439-H-6	1.1	0.0003	mg/l		0.0	man acc	
151	480-193439-H-7	1.1	0.0008	mg/l		0.0	man acc	
153	480-193439-H-9	1.1	0.0002	mg/l		0.0	man acc	
155	480-193439-H-11	1.1	0.0010	mg/l		0.0	man acc	
156	480-193444-I-1	1.1	0.0004	mg/l		0.0	man acc	
157	480-193444-I-2	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
158	480-193444-I-3	1.1	0.0003	mg/l		0.0	man acc	
159	ms480-193444-I-3	1.1	0.0026	mg/l		1.0	man acc	
160	msd480-193444-I-3	1.1	0.0026	mg/l		1.0	man acc	
162	ms480-193444-I-4	1.1	0.0004	mg/l		1.0	man acc	Point(s) out of curve
163	msd480-193444-I-4	1.1	-0.0002	mg/l		1.0	man acc	Reaction direction
165	480-193444-I-6	1.1	0.0018	mg/l		0.0	man acc	
166	480-193467-I-1	1.1	0.0000	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
167	ms480-193467-I-1	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
168	msd480-193467-I-1	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
169	480-193467-I-2	1.1	0.0099	mg/l		4.0	man acc	
170	480-193467-I-3	1.1	0.0037	mg/l		4.0	man acc	
171	480-193467-I-4	1.1	-0.0001	mg/l		4.0	man acc	Reaction direction
172	480-193467-I-5	1.1	0.0006	mg/l		0.0	man acc	
173	480-193467-I-6	1.1	-0.0368	mg/l		49.0	man acc	Reaction direction, Blank init abs. low
174	480-193467-I-7	1.1	-0.0179	mg/l		24.0	man acc	Reaction direction
175	480-193481-G-1	1.1	-0.0041	mg/l		29.0	man acc	Reaction direction
176	480-193482-G-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
177	480-193482-G-2	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
178	480-193482-G-3	1.1	-0.0102	mg/l		19.0	man acc	Reaction direction
179	480-193482-G-4	1.1	-0.0003	mg/l		19.0	man acc	Reaction direction
180	480-193482-G-5	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction
181	480-193482-G-6	1.1	-0.0545	mg/l		49.0	man acc	Reaction direction
182	480-193482-G-7	1.1	0.0420	mg/l		2.0	man acc	Point(s) out of curve
183	480-193482-G-8	1.1	-0.0211	mg/l		39.0	man acc	Reaction direction, Blank init abs. low
184	480-193482-G-9	1.1	0.0153	mg/l		9.0	man acc	
185	480-193512-K-1	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
186	480-193512-K-2	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
187	480-193512-K-3	1.1	0.0019	mg/l		0.0	man acc	
188	480-193512-K-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
189	480-193526-C-5	1.1	0.0015	mg/l		0.0	man acc	
192	480-193526-C-6	1.1	0.0015	mg/l		0.0	man acc	
194	480-193531-G-2	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
199	480-193531-G-7	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction
200	480-193336-Q-1	1.1	0.0104	mg/l		4.0	man acc	
201	480-193397-D-1	1.1	0.0039	mg/l		1.0	man acc	Point(s) out of curve
202	480-193397-D-3	1.1	0.0013	mg/l		1.0	man acc	
203	480-193397-D-4	1.1	0.0008	mg/l		1.0	man acc	
204	480-193397-D-7	1.1	0.0025	mg/l		1.0	man acc	
205	480-193444-I-4	1.1	0.0040	mg/l		1.0	man acc	
206	480-193439-H-8	1.1	0.0102	mg/l		4.0	man acc	
207	480-193439-H-10	1.1	0.0017	mg/l		4.0	man acc	
208	480-193444-I-5	1.1	0.0121	mg/l		4.0	man acc	Point(s) out of curve
209	ms480-193526-C-5	1.1	0.0011	mg/l		1.0	man acc	
210	msd480-193526-C-	1.1	0.0010	mg/l		1.0	man acc	
211	480-193531-G-1	1.1	0.0043	mg/l		1.0	man acc	
212	480-193531-G-3	1.1	0.0003	mg/l		1.0	man acc	
213	480-193531-G-4	1.1	-0.0007	mg/l		1.0	man acc	Reaction direction
214	480-193531-G-5	1.1	0.0019	mg/l		1.0	man acc	
215	480-193531-G-6	1.1	0.0003	mg/l		1.0	man acc	

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Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193024-G-1	20-183-2R	9038	Sulfate	Total/NA	mg/L	6	20.0	448	☐	315.738 - 796.262	☐	350.4 - 778.8
480-193026-G-1	98-187-2	9038	Sulfate	Total/NA	mg/L	8	10.0	239	☐	0 - 336.988	☐	53.76 - 292.8
480-193026-G-2	98-188-1	9038	Sulfate	Total/NA	mg/L	8	2.0	18.2	☐	0 - 235.061	☐	0 - 212.4
480-193026-G-3	98-188-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193026-G-4	98-188-3	9038	Sulfate	Total/NA	mg/L	8	1.0	20.2	☑	0 - 0	☑	0 - 0
480-193026-G-5	98-193-2	9038	Sulfate	Total/NA	mg/L	8	1.0	7.1	☑	0 - 0	☑	0 - 0
480-193026-G-6	98-194-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-1	03-197-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-2	03-197-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-3	03-198-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-4	03-198-2	9038	Sulfate	Total/NA	mg/L	8	1.0	27.3	☐	0 - 61.922	☐	5.6 - 52.2
480-193199-G-5	03-199-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-6	03-199-2	9038	Sulfate	Total/NA	mg/L	8	2.0	25.1	☐	0 - 283.816	☐	0 - 210
480-193199-G-7	03-200-1	9038	Sulfate	Total/NA	mg/L	8	3.0	58.6	☐	30.057 - 128.668	☐	40 - 120
480-193199-G-8	03-200-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193203-G-1	88-148-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193203-G-2	96-148-2R	9038	Sulfate	Total/NA	mg/L	8	2.0	57.7	☐	0 - 122.217	☐	0 - 124.8
480-193241-I-1	01FB	D516	Sulfate	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 28.041	☐	0 - 30.12
480-193241-I-2	MW04	D516	Sulfate	Total/NA	mg/L as N	8	1.0	9.6	☐	5.942 - 19.183	☐	8.48 - 20.16
480-193241-I-3	MW05	D516	Sulfate	Total/NA	mg/L as N	8	1.0	23.4	☐	16.613 - 32.462	☐	18.16 - 37.2
480-193241-I-4	MW06D	D516	Sulfate	Total/NA	mg/L as N	8	1.0	23.9	☐	13.183 - 25.292	☐	13.84 - 28.44
480-193241-I-5	MW06S	D516	Sulfate	Total/NA	mg/L as N	8	1.0	15.8	☐	9.602 - 20.998	☐	8.72 - 21.72
480-193241-I-6	MW07	D516	Sulfate	Total/NA	mg/L as N	8	1.0	16.0	☐	11.142 - 18.633	☐	10.48 - 20.52
480-193243-I-1	SW001	D516	Sulfate	Total/NA	mg/L	6	1.0	ND	☐	0 - 49.646	☐	0 - 43.8
480-193243-I-2	SW003	D516	Sulfate	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0
480-193265-G-1	89-156-2	9038	Sulfate	Total/NA	mg/L	8	10.0	148	☐	10.6 - 643.4	☑	202.4 - 705.6
480-193265-G-10	357R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193265-G-11	D-19RR	9038	Sulfate	Total/NA	mg/L	8	10.0	308	☐	0 - 532.366	☐	0 - 378
480-193265-G-2	98-156-3	9038	Sulfate	Total/NA	mg/L	8	10.0	265	☐	0 - 958.473	☐	57.44 - 687.6
480-193265-G-3	98-186-2	9038	Sulfate	Total/NA	mg/L	8	20.0	498	☐	10.6 - 643.4	☐	202.4 - 705.6
480-193265-G-4	75R	9038	Sulfate	Total/NA	mg/L	8	5.0	181	☐	96.975 - 268.775	☐	108 - 292.8
480-193265-G-5	76R	9038	Sulfate	Total/NA	mg/L	8	5.0	152	☐	135.831 - 210.169	☐	125.6 - 230.4
480-193265-G-6	DUP@76R	9038	Sulfate	Total/NA	mg/L	1	5.0	154	☑	146 - 146	☐	116.8 - 175.2
480-193265-G-7	94R	9038	Sulfate	Total/NA	mg/L	8	2.0	20.8	☐	0 - 158.527	☐	13.2 - 162
480-193265-G-8	PELA-4	9038	Sulfate	Total/NA	mg/L	8	25.0	867	☐	0 - 1148.456	☐	180 - 948
480-193265-G-9	89-167-3	9038	Sulfate	Total/NA	mg/L	8	1.0	33.0	☐	0 - 85.88	☐	0 - 79.44
480-193290-I-2	MW-13S	9038	Sulfate	Total/NA	mg/L	8	1.0	31.6	☐	20.607 - 44.693	☐	20.08 - 45.96
480-193290-I-3	MW-19D	9038	Sulfate	Total/NA	mg/L	8	2.0	40.7	☐	0 - 47.396	☐	7.92 - 43.56
480-193290-I-4	MW-19S	9038	Sulfate	Total/NA	mg/L	8	1.0	9.4	☐	5.129 - 11.996	☐	5.76 - 12.36

Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193290-I-5	MW-7S	9038	Sulfate	Total/NA	mg/L	8	1.0	14.9	☐	12.755 - 47.72	☑	18.96 - 47.04
480-193290-I-6	MW-DUP	9038	Sulfate	Total/NA	mg/L	8	1.0	15.8	☐	0 - 106.443	☐	0 - 104.4
480-193290-I-7	MW-14S	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 95.4	☐	0 - 102.36
480-193290-I-8	MW-15S	9038	Sulfate	Total/NA	mg/L	8	2.0	11.0	☐	0 - 227.301	☐	0 - 184.8
480-193290-I-9	MW-6S2	9038	Sulfate	Total/NA	mg/L	8	5.0	131	☐	112.873 - 192.627	☐	103.2 - 205.2
480-193305-E-1	MHOLT	D516	Sulfate	Total/NA	mg/L	8	25.0	529	☐	202.379 - 1011.871	☐	303.2 - 939.6
480-193331-G-2	MW-16D	9038	Sulfate	Total/NA	mg/L	8	2.0	33.5	☐	28.997 - 50.128	☐	27.36 - 54.72
480-193331-I-1	MW-16S	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193334-J-1	WMNMH1	D516	Sulfate	Total/NA	mg/L	8	2.0	78.0	☐	0 - 399.614	☐	0 - 397.2
480-193335-I-1	MW-12AA	9038	Sulfate	Total/NA	mg/L	8	1.0	30.2	☐	15.534 - 40.316	☐	16.32 - 38.4
480-193335-I-2	MW-12BBB	9038	Sulfate	Total/NA	mg/L	8	1.0	30.5	☐	20.854 - 38.696	☐	18.48 - 41.04
480-193335-I-3	MW-13A	9038	Sulfate	Total/NA	mg/L	8	1.0	20.9	☐	18.749 - 26.076	☐	16.56 - 28.92
480-193335-I-4	MW-13B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-I-5	MW-17A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.9	☐	0.937 - 40.063	☐	9.52 - 35.88
480-193335-I-6	MW-17B	9038	Sulfate	Total/NA	mg/L	8	2.0	51.5	☐	41.329 - 82.996	☐	42.8 - 87
480-193336-Q-1	SLC-2A	9038	Sulfate	Total/NA	mg/L	8	5.0	93.0	☑	0 - 0	☑	0 - 0
480-193336-Q-2	PLC-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 118.419	☐	0 - 127.2
480-193336-Q-3	PLC-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 6.368	☐	0 - 6.84
480-193336-Q-5	SLC-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193336-Q-6	PLC-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 9.211	☐	0 - 7.92
480-193336-Q-7	LD-1	9038	Sulfate	Total/NA	mg/L	8	3.0	42.7	☐	36.367 - 123.958	☑	50.72 - 122.4
480-193337-H-1	CD-1	9038	Sulfate	Total/NA	mg/L	8	1.0	17.3	☐	10.432 - 28.668	☐	12.64 - 31.32
480-193337-H-2	CD-1RA	9038	Sulfate	Total/NA	mg/L	8	1.0	17.8	☐	5.672 - 28.503	☐	6.24 - 25.68
480-193369-K-1	MW-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.9	☐	0 - 38.339	☐	0 - 27.24
480-193369-K-2	MW-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-K-3	MW-2B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-K-4	MW-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	7.2	☐	0 - 23.524	☐	4.8 - 25.44
480-193369-K-5	DUP MW-1B	9038	Sulfate	Total/NA	mg/L	1	1.0	7.1	☑	7.8 - 7.8	☐	6.24 - 9.36
480-193436-K-2	MW-3A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-3	MW-3B	9038	Sulfate	Total/NA	mg/L	8	1.0	10.9	☐	4.627 - 16.923	☐	5.36 - 15.84
480-193436-K-4	MW-4A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.356	☐	0 - 8.76
480-193436-K-5	MW-5A	9038	Sulfate	Total/NA	mg/L	8	1.0	16.5	☐	3.112 - 26.588	☐	7.04 - 26.28
480-193436-K-6	MW-6A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-7	MW-6B	9038	Sulfate	Total/NA	mg/L	8	1.0	23.5	☐	0 - 41.713	☐	4.16 - 42.6
480-193436-K-8	MW-7A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 41.335	☐	0 - 44.4
480-193444-I-3	DUP-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 75.935	☐	0 - 62.4
480-193444-I-4	SW-2	9038	Sulfate	Total/NA	mg/L	8	2.0	40	☐	0 - 41.783	☑	6.4 - 37.2
480-193467-I-1	01FB	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-I-2	YSC01	9038	Sulfate	Total/NA	mg/L	8	5.0	35.4	☐	0 - 306.195	☐	0 - 216

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12/20/2021

12/23/2021

Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193467-I-3	YSC02	9038	Sulfate	Total/NA	mg/L	8	5.0	124	☐	90.207 - 136.043	☐	81.6 - 148.8
480-193467-I-4	YSP03R	9038	Sulfate	Total/NA	mg/L	8	5.0	158	☐	65.75 - 331.75	☐	108 - 308.4
480-193467-I-5	YSP05	9038	Sulfate	Total/NA	mg/L	8	1.0	36.3	☐	29.717 - 43.133	☐	25.68 - 48.48
480-193467-I-6	YSP08	9038	Sulfate	Total/NA	mg/L	8	50.0	1610	☐	1403.099 - 1804.401	☐	1176 - 2052
480-193467-I-7	YSP09	9038	Sulfate	Total/NA	mg/L	8	25.0	833	☐	722.844 - 882.656	☐	599.2 - 1004.4
480-193481-G-1	MH8L-MLD	9038	Sulfate	Total/NA	mg/L	8	30.0	698	☐	362.619 - 2034.631	☐	618.4 - 1776
480-193482-G-1	172R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-G-2	413R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-G-3	173R	9038	Sulfate	Total/NA	mg/L	8	20.0	629	☐	560.507 - 711.493	☐	478.4 - 807.6
480-193482-G-4	171R	9038	Sulfate	Total/NA	mg/L	8	20.0	473	☐	373.205 - 562.295	☐	345.6 - 643.2
480-193482-G-5	169RR	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 11.06	☐	0 - 11.88
480-193482-G-6	170R	9038	Sulfate	Total/NA	mg/L	8	50.0	1620	☐	1596.505 - 2043.495	☐	1360 - 2352
480-193482-G-7	302R	9038	Sulfate	Total/NA	mg/L	8	3.0	56.4	☐	0 - 306.717	☑	58.48 - 289.2 OK
480-193482-G-8	301RR	9038	Sulfate	Total/NA	mg/L	8	40.0	1200	☐	598.967 - 1638.783	☐	568.8 - 1572
480-193482-G-9	300R	9038	Sulfate	Total/NA	mg/L	8	10.0	361	☐	91.276 - 482.974	☐	145.6 - 441.6
480-193512-K-1	WS-1	9038	Sulfate	Total/NA	mg/L	8	1.0	33.6	☐	0 - 75.901	☐	0 - 47.76
480-193512-K-2	CW-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 70.622	☐	0 - 54.48
480-193512-K-3	CW-15	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 48.258	☐	0 - 38.4
480-193512-K-4	CW-16	9038	Sulfate	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0

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Chauvin 12/23/2021 12/22/2021

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Wet Chemistry Dept

Analysis: Sulfate

Method: 9038

Date of Analytical Run: 12/16/21

Analyst/Primary Reviewer: SMW

Date of Primary Review: 12/17/21

Secondary Reviewer: _____

Date of Secondary Review: _____

Prep Batch Number					
Analytical Batch Number	609236				

Criteria for QC	1st Level	2nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, r > or = 0.995, pH meter slope 90-110% (if applicable)	Y			
Was Data Imported X Manually Entered ____ Balance Interface Used ____	Impt			
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Y			
Were the ICB, CCB and MB all <RL?	Y			
Was there a CCV/CCB combination run after every 10 samples or less?	Y			
Was there an LCS run with every batch of 20 samples or less?	Y			
Was there a DU, MS or MSD run with every batch of 20 samples or less?	Y			
Were all MS/MSD results within acceptable limits for QC recovery?	N			
Were all DU or MSD RPDs within acceptable limits for QC recovery?	Y			
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	Y			
Are dilution factors all present and correct?	Y			
Do all entries match raw data?	Y			
Were there any holding time violations in this batch?	N			**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y			
Were any NCMs needed in the batch?	N			NCM #s:
Data scanned in?	Y			

Sulfate

9038/D516

1000 PPM	(MS/MSD/CAL)	6560004	EXP: 11/30/2022
30 PPM	(CCV/LCS)	6791930	EXP: 12/20/2021
Precipitating Solution:		6791929	EXP: 12/20/2021
ICV: made from IC standard		6791931	EXP: 02/22/2022

CURVE:

Kone 1: 11/19/2019 Batch: 505599
100 ppm: 5657751

Kone 2: 06/29/2020 Batch: 538610
100 ppm: 5994552

Kone 3: 07/23/2019 Batch: 483387
100 ppm: 5409342

Gallery 1: 12/16/2021 Batch: 609236
100 ppm: 6822609

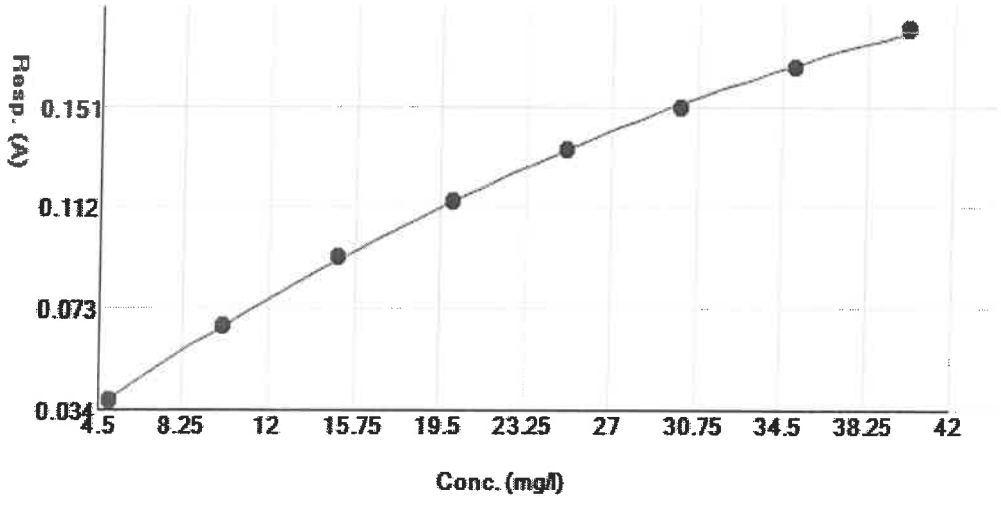
Calibration results

SO4 Version number 1.3

Date	12/16/2021	**User**	BufGallery1
Time	7:26:30PM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	SO4	**Coeff. of deter.**	0.999645
Status	Accepted	**Total factor**	246.737
Accepted	12/16/2021 7:26 PM		
Checked	12/16/2021 7:26 PM	Zero-order factor	0.008
User name	BufGallery1	1st order factor	0.006
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
SO4 5	0.037	4.844	5.000	Default	
SO4 10	0.067	10.097	10.000	Default	
SO4 15	0.093	15.241	15.000	Default	
SO4 20	0.114	20.010	20.000	Default	
SO4 25	0.135	25.054	25.000	Default	
SO4 30	0.151	29.656	30.000	Default	
SO4 35	0.166	34.626	35.000	Default	
SO4 40	0.181	40.512	40.000	Default	
ICB	0.013	0.59	0.00	Default	Outside calibration
SO4 ICV	0.156	31.04	30.00	Default	



Water blank results

Date 12/17/2021 **User** BufGallery1

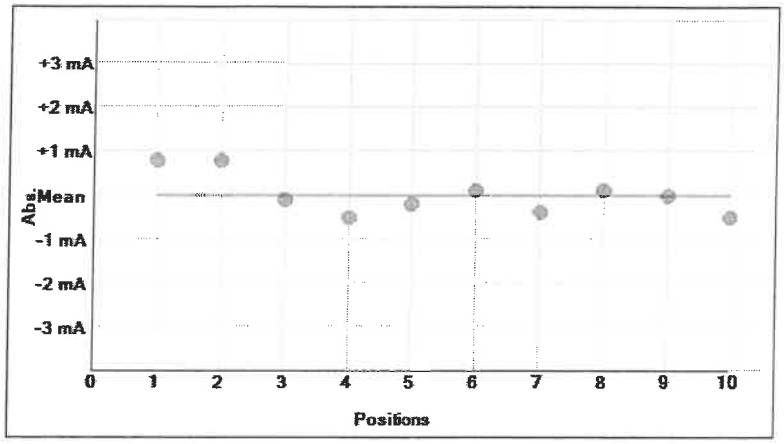
Time 4:13:02AM **Software version: 6.0.2**

Measurement time
12/16/2021 6:45 PM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1003.1**	**0.5**
420	-1036.4	0.2
480	-1046.9	0.2
510	-1050.5	0.2
540	-1054.0	0.1
575	-1057.1	0.2
600	-1058.6	0.2
620	-1060.0	0.2
660	-1062.3	0.1
700	-1063.5	0.1
880	-1047.0	0.2

340



Results by Test

Date 12/17/2021 **User** BufGallery1

Time 4:00:07AM **Software version: 6.0.2**

Test name SO4

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	CCB	1.3	0.53	mg/l		0.0	man acc	Outside calibration
2	CCV SO4	1.3	30.24	mg/l		0.0	man acc	
7	CCB	1.3	1.83	mg/l		0.0	man acc	Outside calibration
8	CCV SO4	1.3	30.41	mg/l		0.0	man acc	
11	480-193026-G-4	1.3	20.21	mg/l		0.0	man acc	
12	480-193026-G-5	1.3	7.13	mg/l		0.0	man acc	
13	CCB	1.3	0.54	mg/l		0.0	man acc	Outside calibration
14	CCV SO4	1.3	30.44	mg/l		0.0	man acc	
16	480-193026-G-6	1.3	0.61	mg/l		0.0	man acc	Outside calibration
17	480-193199-G-1	1.3	0.24	mg/l		0.0	man acc	Outside calibration
18	480-193199-G-2	1.3	0.32	mg/l		0.0	man acc	Outside calibration
19	480-193199-G-3	1.3	0.72	mg/l		0.0	man acc	Outside calibration
20	CCB	1.3	1.01	mg/l		0.0	man acc	Outside calibration
21	CCV SO4	1.3	30.61	mg/l		0.0	man acc	
22	480-193199-G-4	1.3	27.35	mg/l		0.0	man acc	
23	480-193199-G-5	1.3	0.29	mg/l		0.0	man acc	Outside calibration
24	480-193026-G-1	1.3	239.26	mg/l		9.0	man acc	
26	CCB	1.3	0.78	mg/l		0.0	man acc	Outside calibration
27	CCV SO4	1.3	30.89	mg/l		0.0	man acc	
28	ms480-193026-G-1	1.3	252.43	mg/l		9.0	man acc	
29	msd480-193026-G-	1.3	258.10	mg/l		9.0	man acc	
31	480-193199-G-7	1.3	58.55	mg/l		2.0	man acc	
37	CCB	1.3	0.45	mg/l		0.0	man acc	Outside calibration
38	CCV SO4	1.3	29.94	mg/l		0.0	man acc	
43	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
44	CCV SO4	1.3	29.24	mg/l		0.0	man acc	
45	ms480-193241-I-2	1.3	31.76	mg/l		0.0	man acc	
46	msd480-193241-I-2	1.3	34.56	mg/l		0.0	man acc	
49	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
50	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
51	480-193241-I-5	1.3	15.80	mg/l		0.0	man acc	
52	480-193241-I-6	1.3	16.02	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
53	ms480-193241-I-6	1.3	36.21	mg/l		0.0	man acc	
54	msd480-193241-I-6	1.3	36.61	mg/l		0.0	man acc	
55	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
56	CCV SO4	1.3	29.72	mg/l		0.0	man acc	
57	480-193243-I-1	1.3	0.38	mg/l		0.0	man acc	Outside calibration
58	480-193243-I-2	1.3	1.58	mg/l		0.0	man acc	Outside calibration
59	480-193265-G-1	1.3	148.26	mg/l		9.0	man acc	
60	480-193265-G-2	1.3	264.60	mg/l		9.0	man acc	
61	CCB	1.3	0.33	mg/l		0.0	man acc	Outside calibration
62	CCV SO4	1.3	30.05	mg/l		0.0	man acc	
64	480-193265-G-4	1.3	180.61	mg/l		4.0	man acc	
65	480-193265-G-5	1.3	151.66	mg/l		4.0	man acc	
66	480-193265-G-6	1.3	154.37	mg/l		4.0	man acc	
67	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
68	CCV SO4	1.3	29.74	mg/l		0.0	man acc	
73	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
74	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
77	480-193265-G-3	1.3	497.87	mg/l		19.0	man acc	
78	ms480-193290-I-2	1.3	51.11	mg/l		1.0	man acc	
79	CCB	1.3	0.27	mg/l		0.0	man acc	Outside calibration
80	CCV SO4	1.3	29.53	mg/l		0.0	man acc	
84	CCB	1.3	0.59	mg/l		0.0	man acc	Outside calibration
85	CCV SO4	1.3	29.38	mg/l		0.0	man acc	
87	ms480-193290-I-4	1.3	31.64	mg/l		0.0	man acc	
89	msd480-193290-I-4	1.3	31.02	mg/l		0.0	man acc	
91	CCB	1.3	0.36	mg/l		0.0	man acc	Outside calibration
92	CCV SO4	1.3	29.90	mg/l		0.0	man acc	
97	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
98	CCV SO4	1.3	29.39	mg/l		0.0	man acc	
100	ms480-193290-I-9	1.3	160.89	mg/l		4.0	man acc	
101	msd480-193290-I-9	1.3	150.48	mg/l		4.0	man acc	
102	CCB	1.3	0.42	mg/l		0.0	man acc	Outside calibration
104	CCV SO4	1.3	31.98	mg/l		0.0	man acc	
105	ms480-193305-E-1	1.3	525.78	mg/l		24.0	man acc	
106	msd480-193305-E-	1.3	529.05	mg/l		24.0	man acc	
107	480-193310-G-1	1.3	1.72	mg/l		0.0	man acc	Outside calibration
108	480-193310-G-2	1.3	0.39	mg/l		0.0	man acc	Outside calibration
109	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
110	CCV SO4	1.3	29.14	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
111	480-193310-G-3	1.3	1.01	mg/l		0.0	man acc	Outside calibration
112	480-193310-G-4	1.3	0.41	mg/l		0.0	man acc	Outside calibration
113	480-193310-G-5	1.3	0.50	mg/l		0.0	man acc	Outside calibration
114	480-193310-G-6	1.3	0.67	mg/l		0.0	man acc	Outside calibration
115	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
116	CCV SO4	1.3	28.91	mg/l		0.0	man acc	
117	480-193310-G-7	1.3	13.85	mg/l		0.0	man acc	
118	480-193310-G-8	1.3	0.28	mg/l		0.0	man acc	Outside calibration
119	480-193317-D-1	1.3	29.36	mg/l		0.0	man acc	
120	480-193317-D-2	1.3	27.32	mg/l		0.0	man acc	
121	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
122	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
123	480-193317-D-3	1.3	23.73	mg/l		0.0	man acc	
124	480-193317-D-4	1.3	24.23	mg/l		0.0	man acc	
126	480-193317-D-6	1.3	28.04	mg/l		0.0	man acc	
127	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
128	CCV SO4	1.3	29.11	mg/l		0.0	man acc	
133	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
134	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
137	480-193335-I-2	1.3	30.53	mg/l		0.0	man acc	
138	ms480-193335-I-2	1.3	49.23	mg/l		1.0	man acc	
141	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
142	CCV SO4	1.3	29.63	mg/l		0.0	man acc	
143	msd480-193335-I-2	1.3	49.90	mg/l		1.0	man acc	
144	480-193335-I-3	1.3	20.86	mg/l		0.0	man acc	
145	480-193317-D-5	1.3	48.01	mg/l		1.0	man acc	
146	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
148	CCV SO4	1.3	30.05	mg/l		0.0	man acc	
149	480-193317-D-7	1.3	36.13	mg/l		1.0	man acc	
150	480-193317-D-8	1.3	55.61	mg/l		1.0	man acc	
151	480-193334-J-1	1.3	78.00	mg/l		1.0	man acc	
152	msd480-193335-I-3	1.3	43.94	mg/l		1.0	man acc	
156	CCB	1.3	0.48	mg/l		0.0	man acc	Outside calibration
157	CCV SO4	1.3	28.71	mg/l		0.0	man acc	
158	CCB	1.3	0.43	mg/l		0.0	man acc	Outside calibration
159	CCV SO4	1.3	29.82	mg/l		0.0	man acc	
160	480-193024-G-1	1.3	448.33	mg/l		19.0	man acc	
162	480-193026-G-3	1.3	1.01	mg/l		0.0	man acc	Outside calibration
164	CCB	1.3	0.43	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
165	CCV SO4	1.3	29.45	mg/l		0.0	man acc	
166	480-193199-G-8	1.3	0.21	mg/l		0.0	man acc	Outside calibration
167	ms480-193199-G-7	1.3	72.73	mg/l		4.0	man acc	
168	msd480-193199-G-	1.3	82.48	mg/l		4.0	man acc	
169	480-193203-G-1	1.3	0.46	mg/l		0.0	man acc	Outside calibration
170	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
171	CCV SO4	1.3	30.29	mg/l		0.0	man acc	
173	480-193241-I-1	1.3	0.42	mg/l		0.0	man acc	Outside calibration
174	480-193241-I-2	1.3	9.58	mg/l		0.0	man acc	
175	480-193241-I-3	1.3	23.39	mg/l		0.0	man acc	
176	CCB	1.3	0.38	mg/l		0.0	man acc	Outside calibration
177	CCV SO4	1.3	30.02	mg/l		0.0	man acc	
178	480-193241-I-4	1.3	23.85	mg/l		0.0	man acc	
179	480-193265-G-9	1.3	33.04	mg/l		0.0	man acc	
180	480-193265-G-7	1.3	20.82	mg/l		1.0	man acc	
181	480-193265-G-8	1.3	867.42	mg/l		24.0	man acc	Test limit High
182	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
183	CCV SO4	1.3	28.98	mg/l		0.0	man acc	
184	480-193265-G-10	1.3	2.25	mg/l		0.0	man acc	Outside calibration
185	480-193290-I-2	1.3	31.60	mg/l		0.0	man acc	
186	480-193265-G-11	1.3	308.21	mg/l		9.0	man acc	
187	msd480-193290-I-2	1.3	52.31	mg/l		1.0	man acc	
188	CCB	1.3	0.22	mg/l		0.0	man acc	Outside calibration
189	CCV SO4	1.3	30.02	mg/l		0.0	man acc	
190	480-193290-I-4	1.3	9.43	mg/l		0.0	man acc	
191	480-193290-I-5	1.3	14.90	mg/l		0.0	man acc	
192	480-193290-I-3	1.3	40.66	mg/l		1.0	man acc	
193	480-193290-I-6	1.3	15.77	mg/l		0.0	man acc	
194	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
195	CCV SO4	1.3	29.55	mg/l		0.0	man acc	
198	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
201	CCV SO4	1.3	29.54	mg/l		0.0	man acc	
204	480-193331-G-2	1.3	33.47	mg/l		1.0	man acc	
205	ms480-193335-I-3	1.3	42.70	mg/l		1.0	man acc	
206	CCB	1.3	0.08	mg/l		0.0	man acc	Outside calibration
207	CCV SO4	1.3	30.62	mg/l		0.0	man acc	
208	480-193335-I-4	1.3	0.27	mg/l		0.0	man acc	Outside calibration
209	480-193335-I-5	1.3	17.94	mg/l		0.0	man acc	
211	480-193335-I-6	1.3	51.48	mg/l		1.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
212	CCB	1.3	0.33	mg/l		0.0	man acc	Outside calibration
213	CCV SO4	1.3	29.50	mg/l		0.0	man acc	
215	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
216	CCV SO4	1.3	29.34	mg/l		0.0	man acc	
217	CCB	1.3	0.00	mg/l		0.0	man acc	Outside calibration
218	CCV SO4	1.3	28.36	mg/l		0.0	man acc	
220	480-193199-G-6	1.3	25.13	mg/l		1.0	man acc	
221	480-193203-G-2	1.3	57.67	mg/l		1.0	man acc	
222	480-193290-I-7	1.3	-0.12	mg/l		0.0	man acc	Outside calibration
223	CCB	1.3	-0.09	mg/l		0.0	man acc	Outside calibration
224	CCV SO4	1.3	27.52	mg/l		0.0	man acc	
225	480-193331-I-1	1.3	3.97	mg/l		0.0	man acc	Outside calibration
226	480-193290-I-8	1.3	10.98	mg/l		1.0	man acc	
227	480-193290-I-9	1.3	131.06	mg/l		4.0	man acc	
231	480-193335-I-1	1.3	30.22	mg/l		0.0	man acc	
234	CCB	1.3	-0.07	mg/l		0.0	man acc	Outside calibration
235	CCV SO4	1.3	28.01	mg/l		0.0	man acc	
236	480-193026-G-2	1.3	18.17	mg/l		1.0	man acc	
237	480-193305-E-1	1.3	528.97	mg/l		24.0	man acc	
240	CCB	1.3	-0.06	mg/l		0.0	man acc	Outside calibration
241	CCV SO4	1.3	27.65	mg/l		0.0	man acc	
243	480-193336-Q-2	1.3	-1.64	mg/l		0.0	man acc	Outside calibration
244	480-193336-Q-3	1.3	2.73	mg/l		0.0	man acc	Outside calibration
245	480-193336-Q-5	1.3	0.23	mg/l		0.0	man acc	Outside calibration
246	CCB	1.3	-0.12	mg/l		0.0	man acc	Outside calibration
247	CCV SO4	1.3	27.99	mg/l		0.0	man acc	
248	480-193336-Q-6	1.3	3.84	mg/l		0.0	man acc	Outside calibration
249	480-193336-Q-7	1.3	42.69	mg/l		2.0	man acc	
250	480-193337-H-1	1.3	17.27	mg/l		0.0	man acc	
251	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
252	CCV SO4	1.3	27.24	mg/l		0.0	man acc	
253	ms480-193337-H-1	1.3	36.91	mg/l		1.0	man acc	
254	msd480-193337-H-	1.3	37.60	mg/l		1.0	man acc	
255	480-193337-H-2	1.3	17.76	mg/l		0.0	man acc	
256	CCB	1.3	-0.25	mg/l		0.0	man acc	Outside calibration
258	CCV SO4	1.3	28.61	mg/l		0.0	man acc	
260	msd480-193337-H-	1.3	37.48	mg/l		1.0	man acc	
261	480-193369-K-1	1.3	17.94	mg/l		0.0	man acc	
262	480-193369-K-2	1.3	-0.16	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
263	CCB	1.3	-0.18	mg/l		0.0	man acc	Outside calibration
264	CCV SO4	1.3	27.82	mg/l		0.0	man acc	
265	480-193369-K-3	1.3	-0.03	mg/l		0.0	man acc	Outside calibration
266	480-193369-K-4	1.3	7.21	mg/l		0.0	man acc	
267	480-193369-K-5	1.3	7.08	mg/l		0.0	man acc	
269	CCB	1.3	-0.19	mg/l		0.0	man acc	Outside calibration
270	CCV SO4	1.3	27.65	mg/l		0.0	man acc	
271	480-193397-D-2	1.3	3.37	mg/l		0.0	man acc	Outside calibration
274	480-193397-D-5	1.3	22.64	mg/l		0.0	man acc	
275	CCB	1.3	-0.21	mg/l		0.0	man acc	Outside calibration
276	CCV SO4	1.3	27.81	mg/l		0.0	man acc	
277	480-193397-D-6	1.3	31.06	mg/l		0.0	man acc	
278	480-193336-Q-1	1.3	93.02	mg/l		4.0	man acc	
280	480-193436-K-2	1.3	0.02	mg/l		0.0	man acc	Outside calibration
281	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
282	CCV SO4	1.3	27.72	mg/l		0.0	man acc	
283	480-193436-K-3	1.3	10.88	mg/l		0.0	man acc	
284	ms480-193436-K-3	1.3	33.25	mg/l		1.0	man acc	
285	480-193397-D-1	1.3	33.10	mg/l		1.0	man acc	
286	480-193397-D-3	1.3	52.14	mg/l		1.0	man acc	
287	CCB	1.3	-0.26	mg/l		0.0	man acc	Outside calibration
288	CCV SO4	1.3	27.49	mg/l		0.0	man acc	
289	msd480-193436-K-	1.3	36.07	mg/l		1.0	man acc	
290	480-193436-K-4	1.3	1.52	mg/l		0.0	man acc	Outside calibration
291	480-193397-D-4	1.3	60.96	mg/l		1.0	man acc	
292	480-193436-K-5	1.3	16.49	mg/l		0.0	man acc	
293	CCB	1.3	-0.11	mg/l		0.0	man acc	Outside calibration
294	CCV SO4	1.3	30.69	mg/l		0.0	man acc	
295	ms480-193436-K-5	1.3	36.09	mg/l		1.0	man acc	
296	msd480-193436-K-	1.3	39.57	mg/l		0.0	man acc	
297	480-193436-K-6	1.3	0.09	mg/l		0.0	man acc	Outside calibration
298	480-193397-D-7	1.3	50.78	mg/l		1.0	man acc	
299	CCB	1.3	-0.04	mg/l		0.0	man acc	Outside calibration
300	CCV SO4	1.3	27.27	mg/l		0.0	man acc	
301	480-193436-K-7	1.3	23.49	mg/l		0.0	man acc	
302	480-193436-K-8	1.3	0.31	mg/l		0.0	man acc	Outside calibration
303	480-193439-H-1	1.3	16.99	mg/l		0.0	man acc	
304	480-193439-H-2	1.3	15.81	mg/l		0.0	man acc	
305	CCB	1.3	0.02	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
306	CCV SO4	1.3	27.94	mg/l		0.0	man acc	
307	480-193439-H-3	1.3	17.36	mg/l		0.0	man acc	
308	480-193439-H-4	1.3	16.10	mg/l		0.0	man acc	
309	480-193439-H-5	1.3	15.78	mg/l		0.0	man acc	
310	480-193439-H-6	1.3	1.50	mg/l		0.0	man acc	Outside calibration
311	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
312	CCV SO4	1.3	28.50	mg/l		0.0	man acc	
313	480-193439-H-7	1.3	11.64	mg/l		0.0	man acc	
315	480-193439-H-9	1.3	28.03	mg/l		0.0	man acc	
319	CCB	1.3	-0.01	mg/l		0.0	man acc	Outside calibration
320	CCV SO4	1.3	28.08	mg/l		0.0	man acc	
321	480-193439-H-11	1.3	24.25	mg/l		0.0	man acc	
322	480-193444-I-1	1.3	0.66	mg/l		0.0	man acc	Outside calibration
323	480-193444-I-2	1.3	0.08	mg/l		0.0	man acc	Outside calibration
324	480-193444-I-3	1.3	0.67	mg/l		0.0	man acc	Outside calibration
325	CCB	1.3	0.08	mg/l		0.0	man acc	Outside calibration
326	CCV SO4	1.3	28.05	mg/l		0.0	man acc	
327	ms480-193444-I-3	1.3	21.52	mg/l		1.0	man acc	
328	msd480-193444-I-3	1.3	21.39	mg/l		1.0	man acc	
332	ms480-193444-I-4	1.3	59.66	mg/l		1.0	man acc	
333	msd480-193444-I-4	1.3	60.81	mg/l		1.0	man acc	
334	CCB	1.3	0.66	mg/l		0.0	man acc	Outside calibration
335	CCV SO4	1.3	29.70	mg/l		0.0	man acc	
337	480-193444-I-6	1.3	2.30	mg/l		0.0	man acc	Outside calibration
338	480-193467-I-1	1.3	0.59	mg/l		0.0	man acc	Outside calibration
339	ms480-193467-I-1	1.3	22.02	mg/l		0.0	man acc	
340	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
341	CCV SO4	1.3	29.19	mg/l		0.0	man acc	
342	msd480-193467-I-1	1.3	21.36	mg/l		0.0	man acc	
343	480-193444-I-4	1.3	39.64	mg/l		1.0	man acc	
344	480-193467-I-2	1.3	35.43	mg/l		4.0	man acc	
345	480-193439-H-10	1.3	95.98	mg/l		4.0	man acc	
346	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
347	CCV SO4	1.3	30.34	mg/l		0.0	man acc	
348	480-193439-H-8	1.3	88.12	mg/l		4.0	man acc	
349	480-193467-I-3	1.3	124.49	mg/l		4.0	man acc	
351	480-193467-I-4	1.3	158.35	mg/l		4.0	man acc	
352	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
353	CCV SO4	1.3	30.91	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
354	480-193467-I-5	1.3	36.31	mg/l		0.0	man acc	
355	480-193467-I-6	1.3	1,611.10	mg/l		49.0	man acc	Test limit High
356	480-193467-I-7	1.3	833.00	mg/l		24.0	man acc	Test limit High
357	480-193481-G-1	1.3	698.32	mg/l		29.0	man acc	
358	CCB	1.3	0.54	mg/l		0.0	man acc	Outside calibration
359	CCV SO4	1.3	29.95	mg/l		0.0	man acc	
360	480-193482-G-1	1.3	0.32	mg/l		0.0	man acc	Outside calibration
361	480-193482-G-2	1.3	0.35	mg/l		0.0	man acc	Outside calibration
362	480-193482-G-3	1.3	628.62	mg/l		19.0	man acc	Test limit High
363	480-193444-I-5	1.3	92.51	mg/l		4.0	man acc	
364	CCB	1.3	0.58	mg/l		0.0	man acc	Outside calibration
365	CCV SO4	1.3	31.06	mg/l		0.0	man acc	
366	480-193482-G-4	1.3	473.13	mg/l		19.0	man acc	
367	480-193482-G-5	1.3	0.33	mg/l		0.0	man acc	Outside calibration
368	480-193482-G-6	1.3	1,623.59	mg/l		49.0	man acc	Test limit High
369	480-193482-G-7	1.3	56.37	mg/l		2.0	man acc	
370	CCB	1.3	0.40	mg/l		0.0	man acc	Outside calibration
371	CCV SO4	1.3	29.40	mg/l		0.0	man acc	
372	480-193482-G-8	1.3	1,201.07	mg/l		39.0	man acc	Test limit High
373	480-193482-G-9	1.3	361.30	mg/l		9.0	man acc	
374	480-193512-K-1	1.3	33.56	mg/l		0.0	man acc	
375	480-193512-K-2	1.3	0.67	mg/l		0.0	man acc	Outside calibration
376	CCB	1.3	0.48	mg/l		0.0	man acc	Outside calibration
377	CCV SO4	1.3	30.16	mg/l		0.0	man acc	
378	480-193512-K-3	1.3	2.66	mg/l		0.0	man acc	Outside calibration
379	480-193512-K-4	1.3	0.52	mg/l		0.0	man acc	Outside calibration
380	480-193526-C-5	1.3	21.67	mg/l		0.0	man acc	
382	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
383	CCV SO4	1.3	30.06	mg/l		0.0	man acc	
385	480-193526-C-6	1.3	21.74	mg/l		0.0	man acc	
387	480-193531-G-2	1.3	1.39	mg/l		0.0	man acc	Outside calibration
396	480-193531-G-7	1.3	32.06	mg/l		0.0	man acc	
399	ms480-193526-C-5	1.3	41.67	mg/l		1.0	man acc	
400	CCB	1.3	0.56	mg/l		0.0	man acc	Outside calibration
401	CCV SO4	1.3	30.14	mg/l		0.0	man acc	
402	msd480-193526-C-	1.3	40.96	mg/l		1.0	man acc	
403	480-193531-G-1	1.3	12.29	mg/l		1.0	man acc	
404	CCB	1.3	0.61	mg/l		0.0	man acc	Outside calibration
405	CCV SO4	1.3	29.85	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
406	480-193531-G-3	1.3	35.46	mg/l		1.0	man acc	
407	480-193531-G-4	1.3	60.48	mg/l		1.0	man acc	
408	480-193531-G-5	1.3	48.41	mg/l		1.0	man acc	
409	480-193531-G-6	1.3	59.56	mg/l		1.0	man acc	
412	CCB	1.3	0.51	mg/l		0.0	man acc	Outside calibration
413	CCV SO4	1.3	29.96	mg/l		0.0	man acc	
414	ms480-193337-H-2	1.3	40.44	mg/l		1.0	man acc	
415	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
416	CCV SO4	1.3	30.40	mg/l		0.0	man acc	

609236

Results by Test

Date 12/17/2021 **User** BufGallery1

Time 4:08:01AM **Software version: 6.0.2**

Test name SO4 KIN

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	480-193024-G-1	1.1	-0.0046	mg/l		19.0	man acc	Reaction direction
6	480-193026-G-3	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
7	480-193026-G-4	1.1	-0.0048	mg/l		0.0	man acc	Point(s) out of curve, Reaction directi
8	480-193026-G-5	1.1	0.0001	mg/l		0.0	man acc	Point(s) out of curve
9	480-193026-G-6	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
10	480-193199-G-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
11	480-193199-G-2	1.1	0.0000	mg/l		0.0	man acc	
12	480-193199-G-3	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction
13	480-193199-G-4	1.1	-0.0019	mg/l		0.0	man acc	Reaction direction
14	480-193199-G-5	1.1	0.0001	mg/l		0.0	man acc	
16	480-193199-G-7	1.1	0.0362	mg/l		2.0	man acc	Point(s) out of curve
19	480-193199-G-8	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
20	480-193203-G-1	1.1	0.0013	mg/l		0.0	man acc	
22	480-193241-I-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
23	480-193241-I-2	1.1	0.0025	mg/l		0.0	man acc	
24	ms480-193241-I-2	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
25	msd480-193241-I-2	1.1	0.0001	mg/l		0.0	man acc	
26	480-193241-I-3	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
27	480-193241-I-4	1.1	0.0009	mg/l		0.0	man acc	
28	480-193241-I-5	1.1	0.0022	mg/l		0.0	man acc	
29	480-193241-I-6	1.1	0.0004	mg/l		0.0	man acc	
30	ms480-193241-I-6	1.1	-0.0007	mg/l		0.0	man acc	Reaction direction
31	msd480-193241-I-6	1.1	-0.0009	mg/l		0.0	man acc	Reaction direction
32	480-193243-I-1	1.1	0.0001	mg/l		0.0	man acc	
33	480-193243-I-2	1.1	0.0007	mg/l		0.0	man acc	
34	480-193265-G-1	1.1	0.0145	mg/l		9.0	man acc	
35	480-193265-G-2	1.1	0.0116	mg/l		9.0	man acc	Point(s) out of curve
37	480-193265-G-4	1.1	0.0088	mg/l		4.0	man acc	
38	480-193265-G-5	1.1	0.0040	mg/l		4.0	man acc	
39	480-193265-G-6	1.1	0.0036	mg/l		4.0	man acc	
42	480-193265-G-9	1.1	0.0052	mg/l		0.0	man acc	Point(s) out of curve
43	480-193265-G-10	1.1	0.0002	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
44	480-193265-G-11	1.1	-0.0010	mg/l		9.0	man acc	Reaction direction
45	480-193290-I-2	1.1	0.0010	mg/l		0.0	man acc	
46	ms480-193290-I-2	1.1	0.0018	mg/l		1.0	man acc	
47	msd480-193290-I-2	1.1	0.0019	mg/l		1.0	man acc	
49	480-193290-I-4	1.1	0.0010	mg/l		0.0	man acc	Blank init abs. low
50	ms480-193290-I-4	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
51	msd480-193290-I-4	1.1	-0.0004	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
52	480-193290-I-5	1.1	0.0006	mg/l		0.0	man acc	
53	480-193290-I-6	1.1	0.0006	mg/l		0.0	man acc	
56	480-193290-I-9	1.1	0.0085	mg/l		4.0	man acc	
57	ms480-193290-I-9	1.1	0.0025	mg/l		4.0	man acc	
58	msd480-193290-I-9	1.1	0.0025	mg/l		4.0	man acc	
59	480-193305-E-1	1.1	0.0444	mg/l		24.0	man acc	
60	ms480-193305-E-1	1.1	0.0408	mg/l		24.0	man acc	
61	msd480-193305-E-	1.1	0.0382	mg/l		24.0	man acc	
62	480-193310-G-1	1.1	0.0004	mg/l		0.0	man acc	
63	480-193310-G-2	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
64	480-193310-G-3	1.1	0.0001	mg/l		0.0	man acc	
65	480-193310-G-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
66	480-193310-G-5	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction
67	480-193310-G-6	1.1	0.0002	mg/l		0.0	man acc	
68	480-193310-G-7	1.1	0.0008	mg/l		0.0	man acc	
69	480-193310-G-8	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
70	480-193317-D-1	1.1	0.0010	mg/l		0.0	man acc	
71	480-193317-D-2	1.1	0.0012	mg/l		0.0	man acc	
72	480-193317-D-3	1.1	0.0015	mg/l		0.0	man acc	
73	480-193317-D-4	1.1	0.0015	mg/l		0.0	man acc	
75	480-193317-D-6	1.1	0.0021	mg/l		0.0	man acc	
78	480-193331-I-1	1.1	-0.0007	mg/l		0.0	man acc	Reaction direction
81	480-193335-I-1	1.1	0.0008	mg/l		0.0	man acc	
82	480-193335-I-2	1.1	0.0012	mg/l		0.0	man acc	
83	ms480-193335-I-2	1.1	0.0016	mg/l		1.0	man acc	
84	msd480-193335-I-2	1.1	0.0017	mg/l		1.0	man acc	
85	480-193335-I-3	1.1	0.0018	mg/l		0.0	man acc	
86	ms480-193335-I-3	1.1	0.0022	mg/l		1.0	man acc	Blank init abs. low
87	msd480-193335-I-3	1.1	0.0025	mg/l		1.0	man acc	
88	480-193335-I-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
89	480-193335-I-5	1.1	0.0016	mg/l		0.0	man acc	
90	480-193335-I-6	1.1	-0.0012	mg/l		1.0	man acc	Point(s) out of curve, Reaction directi

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
91	480-193026-G-1	1.1	-0.0025	mg/l		9.0	man acc	Reaction direction
92	ms480-193026-G-1	1.1	-0.0045	mg/l		9.0	man acc	Reaction direction
93	msd480-193026-G-	1.1	-0.0034	mg/l		9.0	man acc	Reaction direction
94	480-193265-G-3	1.1	-0.0105	mg/l		19.0	man acc	Reaction direction
95	480-193317-D-5	1.1	0.0016	mg/l		1.0	man acc	
96	ms480-193199-G-7	1.1	0.0147	mg/l		4.0	man acc	Point(s) out of curve
97	msd480-193199-G-	1.1	0.0162	mg/l		4.0	man acc	Point(s) out of curve
98	480-193265-G-7	1.1	0.0069	mg/l		1.0	man acc	Point(s) out of curve
99	480-193265-G-8	1.1	-0.0149	mg/l		24.0	man acc	Reaction direction, Blank init abs. low
100	480-193290-I-3	1.1	0.0003	mg/l		1.0	man acc	
101	480-193331-G-2	1.1	0.0043	mg/l		1.0	man acc	
102	480-193199-G-6	1.1	-0.0042	mg/l		1.0	man acc	Reaction direction
103	480-193203-G-2	1.1	0.0044	mg/l		1.0	man acc	Point(s) out of curve
104	480-193290-I-7	1.1	0.0000	mg/l		0.0	man acc	
105	480-193290-I-8	1.1	0.0017	mg/l		1.0	man acc	
106	480-193026-G-2	1.1	0.0186	mg/l		1.0	man acc	Point(s) out of curve
107	480-193317-D-7	1.1	0.0030	mg/l		1.0	man acc	
108	480-193317-D-8	1.1	0.0012	mg/l		1.0	man acc	Blank init abs. low
109	480-193334-J-1	1.1	0.0077	mg/l		1.0	man acc	Point(s) out of curve
111	480-193336-Q-2	1.1	-0.0328	mg/l		0.0	man acc	Point(s) out of curve, Reaction directi
112	480-193336-Q-3	1.1	0.0012	mg/l		0.0	man acc	
113	480-193336-Q-5	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
114	480-193336-Q-6	1.1	0.0016	mg/l		0.0	man acc	
115	480-193336-Q-7	1.1	0.0089	mg/l		2.0	man acc	Point(s) out of curve
116	480-193337-H-1	1.1	0.0022	mg/l		0.0	man acc	Point(s) out of curve
117	ms480-193337-H-1	1.1	0.0032	mg/l		1.0	man acc	
118	msd480-193337-H-	1.1	0.0029	mg/l		1.0	man acc	
119	480-193337-H-2	1.1	0.0021	mg/l		0.0	man acc	Point(s) out of curve
120	ms480-193337-H-2	1.1	0.0026	mg/l		1.0	man acc	
121	msd480-193337-H-	1.1	0.0024	mg/l		1.0	man acc	
122	480-193369-K-1	1.1	0.0020	mg/l		0.0	man acc	
123	480-193369-K-2	1.1	0.0001	mg/l		0.0	man acc	
124	480-193369-K-3	1.1	0.0001	mg/l		0.0	man acc	
125	480-193369-K-4	1.1	0.0041	mg/l		0.0	man acc	Point(s) out of curve
126	480-193369-K-5	1.1	0.0043	mg/l		0.0	man acc	Point(s) out of curve
128	480-193397-D-2	1.1	0.0008	mg/l		0.0	man acc	
131	480-193397-D-5	1.1	0.0024	mg/l		0.0	man acc	Blank init abs. low
132	480-193397-D-6	1.1	0.0016	mg/l		0.0	man acc	
134	480-193436-K-2	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
135	480-193436-K-3	1.1	0.0041	mg/l		0.0	man acc	Point(s) out of curve
136	ms480-193436-K-3	1.1	0.0035	mg/l		1.0	man acc	
137	msd480-193436-K-	1.1	0.0035	mg/l		1.0	man acc	
138	480-193436-K-4	1.1	0.0014	mg/l		0.0	man acc	
139	480-193436-K-5	1.1	0.0026	mg/l		0.0	man acc	Point(s) out of curve
140	ms480-193436-K-5	1.1	0.0034	mg/l		1.0	man acc	
141	msd480-193436-K-	1.1	0.0000	mg/l		0.0	man acc	
142	480-193436-K-6	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
143	480-193436-K-7	1.1	0.0017	mg/l		0.0	man acc	
144	480-193436-K-8	1.1	0.0001	mg/l		0.0	man acc	
145	480-193439-H-1	1.1	0.0007	mg/l		0.0	man acc	
146	480-193439-H-2	1.1	0.0013	mg/l		0.0	man acc	
147	480-193439-H-3	1.1	0.0014	mg/l		0.0	man acc	
148	480-193439-H-4	1.1	0.0019	mg/l		0.0	man acc	
149	480-193439-H-5	1.1	0.0011	mg/l		0.0	man acc	
150	480-193439-H-6	1.1	0.0003	mg/l		0.0	man acc	
151	480-193439-H-7	1.1	0.0008	mg/l		0.0	man acc	
153	480-193439-H-9	1.1	0.0002	mg/l		0.0	man acc	
155	480-193439-H-11	1.1	0.0010	mg/l		0.0	man acc	
156	480-193444-I-1	1.1	0.0004	mg/l		0.0	man acc	
157	480-193444-I-2	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
158	480-193444-I-3	1.1	0.0003	mg/l		0.0	man acc	
159	ms480-193444-I-3	1.1	0.0026	mg/l		1.0	man acc	
160	msd480-193444-I-3	1.1	0.0026	mg/l		1.0	man acc	
162	ms480-193444-I-4	1.1	0.0004	mg/l		1.0	man acc	Point(s) out of curve
163	msd480-193444-I-4	1.1	-0.0002	mg/l		1.0	man acc	Reaction direction
165	480-193444-I-6	1.1	0.0018	mg/l		0.0	man acc	
166	480-193467-I-1	1.1	0.0000	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
167	ms480-193467-I-1	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
168	msd480-193467-I-1	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
169	480-193467-I-2	1.1	0.0099	mg/l		4.0	man acc	
170	480-193467-I-3	1.1	0.0037	mg/l		4.0	man acc	
171	480-193467-I-4	1.1	-0.0001	mg/l		4.0	man acc	Reaction direction
172	480-193467-I-5	1.1	0.0006	mg/l		0.0	man acc	
173	480-193467-I-6	1.1	-0.0368	mg/l		49.0	man acc	Reaction direction, Blank init abs. low
174	480-193467-I-7	1.1	-0.0179	mg/l		24.0	man acc	Reaction direction
175	480-193481-G-1	1.1	-0.0041	mg/l		29.0	man acc	Reaction direction
176	480-193482-G-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
177	480-193482-G-2	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
178	480-193482-G-3	1.1	-0.0102	mg/l		19.0	man acc	Reaction direction
179	480-193482-G-4	1.1	-0.0003	mg/l		19.0	man acc	Reaction direction
180	480-193482-G-5	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction
181	480-193482-G-6	1.1	-0.0545	mg/l		49.0	man acc	Reaction direction
182	480-193482-G-7	1.1	0.0420	mg/l		2.0	man acc	Point(s) out of curve
183	480-193482-G-8	1.1	-0.0211	mg/l		39.0	man acc	Reaction direction, Blank init abs. low
184	480-193482-G-9	1.1	0.0153	mg/l		9.0	man acc	
185	480-193512-K-1	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
186	480-193512-K-2	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
187	480-193512-K-3	1.1	0.0019	mg/l		0.0	man acc	
188	480-193512-K-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
189	480-193526-C-5	1.1	0.0015	mg/l		0.0	man acc	
192	480-193526-C-6	1.1	0.0015	mg/l		0.0	man acc	
194	480-193531-G-2	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
199	480-193531-G-7	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction
200	480-193336-Q-1	1.1	0.0104	mg/l		4.0	man acc	
201	480-193397-D-1	1.1	0.0039	mg/l		1.0	man acc	Point(s) out of curve
202	480-193397-D-3	1.1	0.0013	mg/l		1.0	man acc	
203	480-193397-D-4	1.1	0.0008	mg/l		1.0	man acc	
204	480-193397-D-7	1.1	0.0025	mg/l		1.0	man acc	
205	480-193444-I-4	1.1	0.0040	mg/l		1.0	man acc	
206	480-193439-H-8	1.1	0.0102	mg/l		4.0	man acc	
207	480-193439-H-10	1.1	0.0017	mg/l		4.0	man acc	
208	480-193444-I-5	1.1	0.0121	mg/l		4.0	man acc	Point(s) out of curve
209	ms480-193526-C-5	1.1	0.0011	mg/l		1.0	man acc	
210	msd480-193526-C-	1.1	0.0010	mg/l		1.0	man acc	
211	480-193531-G-1	1.1	0.0043	mg/l		1.0	man acc	
212	480-193531-G-3	1.1	0.0003	mg/l		1.0	man acc	
213	480-193531-G-4	1.1	-0.0007	mg/l		1.0	man acc	Reaction direction
214	480-193531-G-5	1.1	0.0019	mg/l		1.0	man acc	
215	480-193531-G-6	1.1	0.0003	mg/l		1.0	man acc	

Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193024-G-1	20-183-2R	9038	Sulfate	Total/NA	mg/L	6	20.0	448	☐	315.738 - 796.262	☐	350.4 - 778.8
480-193026-G-1	98-187-2	9038	Sulfate	Total/NA	mg/L	8	10.0	239	☐	0 - 336.988	☐	53.76 - 292.8
480-193026-G-2	98-188-1	9038	Sulfate	Total/NA	mg/L	8	2.0	18.2	☐	0 - 235.061	☐	0 - 212.4
480-193026-G-3	98-188-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193026-G-4	98-188-3	9038	Sulfate	Total/NA	mg/L	8	1.0	20.2	☑	0 - 0	☑	0 - 0
480-193026-G-5	98-193-2	9038	Sulfate	Total/NA	mg/L	8	1.0	7.1	☑	0 - 0	☑	0 - 0
480-193026-G-6	98-194-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-1	03-197-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-2	03-197-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-3	03-198-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-4	03-198-2	9038	Sulfate	Total/NA	mg/L	8	1.0	27.3	☐	0 - 61.922	☐	5.6 - 52.2
480-193199-G-5	03-199-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-6	03-199-2	9038	Sulfate	Total/NA	mg/L	8	2.0	25.1	☐	0 - 283.816	☐	0 - 210
480-193199-G-7	03-200-1	9038	Sulfate	Total/NA	mg/L	8	3.0	58.6	☐	30.057 - 128.668	☐	40 - 120
480-193199-G-8	03-200-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193203-G-1	88-148-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193203-G-2	96-148-2R	9038	Sulfate	Total/NA	mg/L	8	2.0	57.7	☐	0 - 122.217	☐	0 - 124.8
480-193241-I-1	01FB	D516	Sulfate	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 28.041	☐	0 - 30.12
480-193241-I-2	MW04	D516	Sulfate	Total/NA	mg/L as N	8	1.0	9.6	☐	5.942 - 19.183	☐	8.48 - 20.16
480-193241-I-3	MW05	D516	Sulfate	Total/NA	mg/L as N	8	1.0	23.4	☐	16.613 - 32.462	☐	18.16 - 37.2
480-193241-I-4	MW06D	D516	Sulfate	Total/NA	mg/L as N	8	1.0	23.9	☐	13.183 - 25.292	☐	13.84 - 28.44
480-193241-I-5	MW06S	D516	Sulfate	Total/NA	mg/L as N	8	1.0	15.8	☐	9.602 - 20.998	☐	8.72 - 21.72
480-193241-I-6	MW07	D516	Sulfate	Total/NA	mg/L as N	8	1.0	16.0	☐	11.142 - 18.633	☐	10.48 - 20.52
480-193243-I-1	SW001	D516	Sulfate	Total/NA	mg/L	6	1.0	ND	☐	0 - 49.646	☐	0 - 43.8
480-193243-I-2	SW003	D516	Sulfate	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0
480-193265-G-1	89-156-2	9038	Sulfate	Total/NA	mg/L	8	10.0	148	☐	10.6 - 643.4	☑	202.4 - 705.6
480-193265-G-10	357R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193265-G-11	D-19RR	9038	Sulfate	Total/NA	mg/L	8	10.0	308	☐	0 - 532.366	☐	0 - 378
480-193265-G-2	98-156-3	9038	Sulfate	Total/NA	mg/L	8	10.0	265	☐	0 - 958.473	☐	57.44 - 687.6
480-193265-G-3	98-186-2	9038	Sulfate	Total/NA	mg/L	8	20.0	498	☐	10.6 - 643.4	☐	202.4 - 705.6
480-193265-G-4	75R	9038	Sulfate	Total/NA	mg/L	8	5.0	181	☐	96.975 - 268.775	☐	108 - 292.8
480-193265-G-5	76R	9038	Sulfate	Total/NA	mg/L	8	5.0	152	☐	135.831 - 210.169	☐	125.6 - 230.4
480-193265-G-6	DUP@76R	9038	Sulfate	Total/NA	mg/L	1	5.0	154	☑	146 - 146	☐	116.8 - 175.2
480-193265-G-7	94R	9038	Sulfate	Total/NA	mg/L	8	2.0	20.8	☐	0 - 158.527	☐	13.2 - 162
480-193265-G-8	PELA-4	9038	Sulfate	Total/NA	mg/L	8	25.0	867	☐	0 - 1148.456	☐	180 - 948
480-193265-G-9	89-167-3	9038	Sulfate	Total/NA	mg/L	8	1.0	33.0	☐	0 - 85.88	☐	0 - 79.44
480-193290-I-2	MW-13S	9038	Sulfate	Total/NA	mg/L	8	1.0	31.6	☐	20.607 - 44.693	☐	20.08 - 45.96
480-193290-I-3	MW-19D	9038	Sulfate	Total/NA	mg/L	8	2.0	40.7	☐	0 - 47.396	☐	7.92 - 43.56
480-193290-I-4	MW-19S	9038	Sulfate	Total/NA	mg/L	8	1.0	9.4	☐	5.129 - 11.996	☐	5.76 - 12.36

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Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193290-I-5	MW-7S	9038	Sulfate	Total/NA	mg/L	8	1.0	14.9	☐	12.755 - 47.72	☑	18.96 - 47.04
480-193290-I-6	MW-DUP	9038	Sulfate	Total/NA	mg/L	8	1.0	15.8	☐	0 - 106.443	☐	0 - 104.4
480-193290-I-7	MW-14S	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 95.4	☐	0 - 102.36
480-193290-I-8	MW-15S	9038	Sulfate	Total/NA	mg/L	8	2.0	11.0	☐	0 - 227.301	☐	0 - 184.8
480-193290-I-9	MW-6S2	9038	Sulfate	Total/NA	mg/L	8	5.0	131	☐	112.873 - 192.627	☐	103.2 - 205.2
480-193305-E-1	MHOLT	D516	Sulfate	Total/NA	mg/L	8	25.0	529	☐	202.379 - 1011.871	☐	303.2 - 939.6
480-193331-G-2	MW-16D	9038	Sulfate	Total/NA	mg/L	8	2.0	33.5	☐	28.997 - 50.128	☐	27.36 - 54.72
480-193331-I-1	MW-16S	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193334-J-1	WMNMH1	D516	Sulfate	Total/NA	mg/L	8	2.0	78.0	☐	0 - 399.614	☐	0 - 397.2
480-193335-I-1	MW-12AA	9038	Sulfate	Total/NA	mg/L	8	1.0	30.2	☐	15.534 - 40.316	☐	16.32 - 38.4
480-193335-I-2	MW-12BBB	9038	Sulfate	Total/NA	mg/L	8	1.0	30.5	☐	20.854 - 38.696	☐	18.48 - 41.04
480-193335-I-3	MW-13A	9038	Sulfate	Total/NA	mg/L	8	1.0	20.9	☐	18.749 - 26.076	☐	16.56 - 28.92
480-193335-I-4	MW-13B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-I-5	MW-17A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.9	☐	0.937 - 40.063	☐	9.52 - 35.88
480-193335-I-6	MW-17B	9038	Sulfate	Total/NA	mg/L	8	2.0	51.5	☐	41.329 - 82.996	☐	42.8 - 87
480-193336-Q-1	SLC-2A	9038	Sulfate	Total/NA	mg/L	8	5.0	93.0	☑	0 - 0	☑	0 - 0
480-193336-Q-2	PLC-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 118.419	☐	0 - 127.2
480-193336-Q-3	PLC-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 6.368	☐	0 - 6.84
480-193336-Q-5	SLC-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193336-Q-6	PLC-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 9.211	☐	0 - 7.92
480-193336-Q-7	LD-1	9038	Sulfate	Total/NA	mg/L	8	3.0	42.7	☐	36.367 - 123.958	☑	50.72 - 122.4
480-193337-H-1	CD-1	9038	Sulfate	Total/NA	mg/L	8	1.0	17.3	☐	10.432 - 28.668	☐	12.64 - 31.32
480-193337-H-2	CD-1RA	9038	Sulfate	Total/NA	mg/L	8	1.0	17.8	☐	5.672 - 28.503	☐	6.24 - 25.68
480-193369-K-1	MW-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.9	☐	0 - 38.339	☐	0 - 27.24
480-193369-K-2	MW-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-K-3	MW-2B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-K-4	MW-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	7.2	☐	0 - 23.524	☐	4.8 - 25.44
480-193369-K-5	DUP MW-1B	9038	Sulfate	Total/NA	mg/L	1	1.0	7.1	☑	7.8 - 7.8	☐	6.24 - 9.36
480-193436-K-2	MW-3A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-3	MW-3B	9038	Sulfate	Total/NA	mg/L	8	1.0	10.9	☐	4.627 - 16.923	☐	5.36 - 15.84
480-193436-K-4	MW-4A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.356	☐	0 - 8.76
480-193436-K-5	MW-5A	9038	Sulfate	Total/NA	mg/L	8	1.0	16.5	☐	3.112 - 26.588	☐	7.04 - 26.28
480-193436-K-6	MW-6A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-7	MW-6B	9038	Sulfate	Total/NA	mg/L	8	1.0	23.5	☐	0 - 41.713	☐	4.16 - 42.6
480-193436-K-8	MW-7A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 41.335	☐	0 - 44.4
480-193444-I-3	DUP-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 75.935	☐	0 - 62.4
480-193444-I-4	SW-2	9038	Sulfate	Total/NA	mg/L	8	2.0	40	☐	0 - 41.783	☑	6.4 - 37.2
480-193467-I-1	01FB	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-I-2	YSC01	9038	Sulfate	Total/NA	mg/L	8	5.0	35.4	☐	0 - 306.195	☐	0 - 216

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Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193467-I-3	YSC02	9038	Sulfate	Total/NA	mg/L	8	5.0	124	☐	90.207 - 136.043	☐	81.6 - 148.8
480-193467-I-4	YSP03R	9038	Sulfate	Total/NA	mg/L	8	5.0	158	☐	65.75 - 331.75	☐	108 - 308.4
480-193467-I-5	YSP05	9038	Sulfate	Total/NA	mg/L	8	1.0	36.3	☐	29.717 - 43.133	☐	25.68 - 48.48
480-193467-I-6	YSP08	9038	Sulfate	Total/NA	mg/L	8	50.0	1610	☐	1403.099 - 1804.401	☐	1176 - 2052
480-193467-I-7	YSP09	9038	Sulfate	Total/NA	mg/L	8	25.0	833	☐	722.844 - 882.656	☐	599.2 - 1004.4
480-193481-G-1	MH8L-MLD	9038	Sulfate	Total/NA	mg/L	8	30.0	698	☐	362.619 - 2034.631	☐	618.4 - 1776
480-193482-G-1	172R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-G-2	413R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-G-3	173R	9038	Sulfate	Total/NA	mg/L	8	20.0	629	☐	560.507 - 711.493	☐	478.4 - 807.6
480-193482-G-4	171R	9038	Sulfate	Total/NA	mg/L	8	20.0	473	☐	373.205 - 562.295	☐	345.6 - 643.2
480-193482-G-5	169RR	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 11.06	☐	0 - 11.88
480-193482-G-6	170R	9038	Sulfate	Total/NA	mg/L	8	50.0	1620	☐	1596.505 - 2043.495	☐	1360 - 2352
480-193482-G-7	302R	9038	Sulfate	Total/NA	mg/L	8	3.0	56.4	☐	0 - 306.717	☑	58.48 - 289.2 OK
480-193482-G-8	301RR	9038	Sulfate	Total/NA	mg/L	8	40.0	1200	☐	598.967 - 1638.783	☐	568.8 - 1572
480-193482-G-9	300R	9038	Sulfate	Total/NA	mg/L	8	10.0	361	☐	91.276 - 482.974	☐	145.6 - 441.6
480-193512-K-1	WS-1	9038	Sulfate	Total/NA	mg/L	8	1.0	33.6	☐	0 - 75.901	☐	0 - 47.76
480-193512-K-2	CW-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 70.622	☐	0 - 54.48
480-193512-K-3	CW-15	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 48.258	☐	0 - 38.4
480-193512-K-4	CW-16	9038	Sulfate	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0

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General Chemistry Worksheet

608781

Batch Number: 480-608781
Method: SM 2540C
Analyst: Olson, Jeffrey G

Date Open: Dec 14 2021 11:17AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	CrucibleID	Tare Weight	Initial weight/volume of sample	Third Weighing	Fourth Weighing	Percent different between 1st & 2nd
MB~480-608781/1		2540C_Calcd		MB	109.8018 g	100 mL	0 g	0 g	N/A No Unit
LCS~480-608781/2		2540C_Calcd		LCS	108.7280 g	100 mL	0 g	0 g	N/A No Unit
480-193265-B-10	357R	2540C_Calcd	T	3	113.7726 g	25 mL	0 g	0 g	N/A No Unit
480-193265-B-10~DU		2540C_Calcd	T	4	107.2897 g	25 mL	0 g	0 g	N/A No Unit
480-193265-C-11	D-19RR	2540C_Calcd	T	5	112.1638 g	25 mL	0 g	0 g	N/A No Unit
480-193290-A-2	MW-13S	2540C_Calcd	T	6	117.6124 g	100 mL	0 g	0 g	N/A No Unit
480-193310-A-4	MW-11B	2540C_Calcd	T	7	116.8007 g	100 mL	0 g	0 g	N/A No Unit
480-193331-A-1	MW-16S	2540C_Calcd	T	8	113.9724 g	100 mL	0 g	0 g	N/A No Unit
480-193331-A-2	MW-16D	2540C_Calcd	T	9	119.5293 g	100 mL	0 g	0 g	N/A No Unit
480-193332-A-1	DUP	2540C_Calcd	T	10	117.4690 g	100 mL	0 g	0 g	N/A No Unit
480-193332-A-3	WS-1D	2540C_Calcd	T	11	123.2461 g	100 mL	0 g	0 g	N/A No Unit
480-193332-A-4	WS-1S	2540C_Calcd	T	12	114.8826 g	100 mL	0 g	0 g	N/A No Unit
480-193334-C-1	WMNMH1	2540C_Calcd	T	13	115.5826 g	25 mL	0 g	0 g	N/A No Unit
480-193335-B-3	MW-13A	2540C_Calcd	T	14	123.3252 g	100 mL	0 g	0 g	N/A No Unit
480-193335-B-4	MW-13B	2540C_Calcd	T	15	115.7625 g	100 mL	0 g	0 g	N/A No Unit
480-193335-B-5	MW-17A	2540C_Calcd	T	16	110.9114 g	100 mL	0 g	0 g	N/A No Unit
480-193335-B-6	MW-17B	2540C_Calcd	T	17	117.8669 g	100 mL	0 g	0 g	N/A No Unit
480-193369-A-4	MW-1B	2540C_Calcd	T	18	113.2149 g	100 mL	0 g	0 g	N/A No Unit
480-193369-A-5	DUP MW-1B	2540C_Calcd	T	19	104.8665 g	100 mL	0 g	0 g	N/A No Unit
480-193337-B-1	CD-1	2540C_Calcd	T	20	108.2474 g	100 mL	0 g	0 g	N/A No Unit
480-193337-B-2	CD-1RA	2540C_Calcd	T	21	107.0014 g	100 mL	0 g	0 g	N/A No Unit
480-193337-B-2~DU		2540C_Calcd	T	22	106.3389 g	100 mL	0 g	0 g	N/A No Unit

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Historical Data Summary Report

For Batch 608781

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193265-B-10	357R	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2870	☐	1586.914 - 4805.586	☐	2000 - 4752
480-193265-C-11	D-19RR	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	1680	☐	697.361 - 4090.139	☐	1424 - 4164
480-193290-A-2	MW-13S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	434	☐	10.721 - 957.779	☐	124 - 824.4
480-193331-A-1	MW-16S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	351	☐	257.059 - 425.941	☐	244 - 484.8
480-193331-A-2	MW-16D	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	724	☐	453.032 - 822.468	☐	428.8 - 878.4
480-193332-A-1	DUP	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	286	☐	0 - 546.751	☐	103.2 - 601.2
480-193332-A-3	WS-1D	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	225	☑	109.024 - 222.726	☐	108.8 - 230.4
480-193332-A-4	WS-1S	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	282	☐	123.869 - 300.131	☐	121.6 - 312
480-193334-C-1	WMNMH1	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2030	☐	953.143 - 5119.357	☐	1792 - 5400
480-193335-B-3	MW-13A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	246	☐	96.332 - 380.668	☐	132.8 - 374.4
480-193335-B-4	MW-13B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	401	☐	220.576 - 711.674	☐	279.2 - 738
480-193335-B-5	MW-17A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	200	☐	0 - 423.671	☐	0 - 321.6
480-193335-B-6	MW-17B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	280	☐	146.483 - 407.767	☐	168.8 - 440.4
480-193337-B-1	CD-1	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	206	☐	75.611 - 313.389	☐	120.8 - 344.4
480-193337-B-2	CD-1RA	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	212	☐	79.161 - 380.089	☐	130.4 - 385.2
480-193369-A-4	MW-1B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	143	☐	39.664 - 260.086	☐	83.2 - 255.6
480-193369-A-5	DUP MW-1B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	1	1.0	192	☑	295 - 295	☑	236 - 354 GK-DP

General Chemistry Worksheet

608941

Batch Number: 480-608941
Method: SM 2540C
Analyst: Laxton, Eric J

Date Open: Dec 15 2021 9:42AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	CrucibleID	Tare Weight	Initial weight/volume of sample	Third Weighing	Fourth Weighing	Percent different between 1st & 2nd
MB~480-608941/1		2540C_Calcd		MB	112.7578 g	100 mL	0 g	0 g	N/A No Unit
LCS~480-608941/2		2540C_Calcd		LCS	122.2935 g	100 mL	0 g	0 g	N/A No Unit
480-193336-D-1	SLC-2A	2540C_Calcd	T	3	111.0431 g	50 mL	0 g	0 g	N/A No Unit
480-193336-D-1~DU		2540C_Calcd	T	4	107.0003 g	50 mL	0 g	0 g	N/A No Unit
480-193336-D-2	PLC-2A	2540C_Calcd	T	5	114.5830 g	25 mL	0 g	0 g	N/A No Unit
480-193336-D-3	PLC-1B	2540C_Calcd	T	6	108.7579 g	25 mL	0 g	0 g	N/A No Unit
480-193336-D-5	SLC-1A	2540C_Calcd	T	7	110.8154 g	50 mL	0 g	0 g	N/A No Unit
480-193336-C-6	PLC-1A	2540C_Calcd	T	8	113.1205 g	25 mL	0 g	0 g	N/A No Unit
480-193336-D-7	LD-1	2540C_Calcd	T	9	124.6358 g	100 mL	0 g	0 g	N/A No Unit
480-193367-A-1	MW-1	2540C_Calcd	T	10	110.8422 g	100 mL	0 g	0 g	N/A No Unit
480-193367-A-2	MW-2A	2540C_Calcd	T	11	112.6778 g	100 mL	0 g	0 g	N/A No Unit
480-193367-A-3	MW-3	2540C_Calcd	T	12	122.5602 g	100 mL	0 g	0 g	N/A No Unit
480-193367-A-4	MW-4	2540C_Calcd	T	13	113.1561 g	100 mL	0 g	0 g	N/A No Unit
480-193367-A-5	MW-5	2540C_Calcd	T	14	106.3961 g	100 mL	0 g	0 g	N/A No Unit
480-193369-A-1	MW-1A	2540C_Calcd	T	15	107.1639 g	100 mL	0 g	0 g	N/A No Unit
480-193369-A-2	MW-2A	2540C_Calcd	T	16	110.6089 g	100 mL	0 g	0 g	N/A No Unit
480-193369-A-3	MW-2B	2540C_Calcd	T	17	108.6047 g	100 mL	0 g	0 g	N/A No Unit
480-193384-A-1	STF-1	2540C_Calcd	T	18	111.4519 g	100 mL	0 g	0 g	N/A No Unit
480-193384-A-2	STF-2	2540C_Calcd	T	19	110.7034 g	100 mL	0 g	0 g	N/A No Unit
480-193384-A-3	STF-5	2540C_Calcd	T	20	111.8019 g	100 mL	0 g	0 g	N/A No Unit
480-193382-C-1	INFLUENT	2540C_Calcd	T	21	108.6579 g	10 mL	0 g	0 g	N/A No Unit
480-193382-C-1~DU		2540C_Calcd	T	22	107.9973 g	10 mL	0 g	0 g	N/A No Unit

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Historical Data Summary Report

For Batch 608941

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193336-C-6	PLC-1A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2520	☐	2324.914 - 3882.586	☐	2016 - 4128
480-193336-D-1	SLC-2A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	990	☐	0 - 2443.452	☐	464.8 - 2664
480-193336-D-2	PLC-2A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	3380	☐	1889.353 - 6673.147	☐	2088 - 6816
480-193336-D-3	PLC-1B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2410	☐	594.27 - 5708.23	☐	880 - 4596
480-193336-D-5	SLC-1A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	680	☐	0 - 2443.452	☐	464.8 - 2664
480-193336-D-7	LD-1	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	843	☐	605.367 - 1258.133	☐	641.6 - 1392
480-193367-A-1	MW-1	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	29	☐	0 - 157.08	☐	15.2 - 144
480-193367-A-2	MW-2A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	550	☐	357.706 - 752.294	☐	352 - 780
480-193367-A-3	MW-3	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	100	☐	0 - 201.527	☐	28 - 192
480-193367-A-4	MW-4	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	100	☐	0 - 279.773	☐	0 - 228
480-193367-A-5	MW-5	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	110	☐	0 - 165.124	☐	20.8 - 168
480-193369-A-1	MW-1A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	242	☐	72.605 - 351.645	☐	93.6 - 313.2
480-193369-A-2	MW-2A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	350	☐	107.834 - 562.666	☐	164.8 - 550.8
480-193369-A-3	MW-2B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	696	☐	0 - 1230.682	☐	112.8 - 1045.2
480-193382-C-1	INFLUENT	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	10100	☐	1416.746 - 10898.254	☐	3184 - 10884
480-193384-A-1	STF-1	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	109	☐	22.641 - 138.859	☐	42.4 - 132
480-193384-A-2	STF-2	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	108	☐	20.2 - 145.05	☐	40 - 128.4
480-193384-A-3	STF-5	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	109	☐	26.626 - 177.374	☐	51.2 - 177.6

608717

Chloride

325.2/SM4500_CL_E/9251

1000 PPM (MS/MSD/CAL)	5222530	EXP: 04/12/2024
25 PPM (CCV/LCS)	6815292	EXP: 01/10/2022
Color reagent:	6344179	EXP: 02/28/2022
ERA Minerals (ICV): Actual = 61.9 MG/L Range = 56.3 – 66.9 MG/L	6318066	EXP: 04/01/2023

CURVE:

Kone 1: 06-13-2019 Batch: 478009
50ppm: 5352373

Kone 2: 06-24-2020 Batch: 537874
50ppm: 5988654

Kone 3: 05-11-2020 Batch: 531059
50 ppm: 5915012

Gallery 1: 12-13-2021 Batch: 608717
50 ppm: 6815388

608717

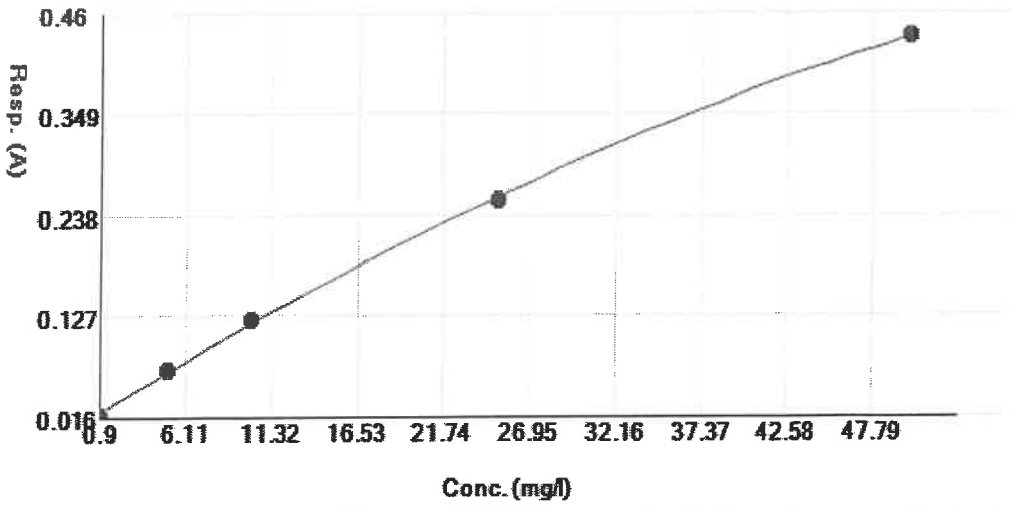
Calibration results

CL Version number 1.13

Date	12/14/2021	**User**	BufGallery1
Time	8:34:53AM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	CL	**Coeff. of deter.**	0.999537
Status	Accepted	**Total factor**	118.959
Accepted	12/13/2021 6:16 PM		
Checked	12/13/2021 6:16 PM	Zero-order factor	0.010
User name	BufGallery1	1st order factor	0.011
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
CL-50	0.018	0.683	1.000	Default	
CL-50	0.067	5.118	5.000	Default	
CL-50	0.123	10.497	10.000	Default	
CL-50	0.255	24.597	25.000	Default	
CL-50	0.434	50.115	50.000	Default	
CL CCVL	0.021	0.93	1.00	Default	QC, Outside calibration
CL-ICV	0.312	31.60	25.00	Default	QC, Rule 1 violated
ICB	0.006	-0.35	0.00	Default	QC, Outside calibration



Water blank results

Date 12/14/2021 **User** BufGallery1

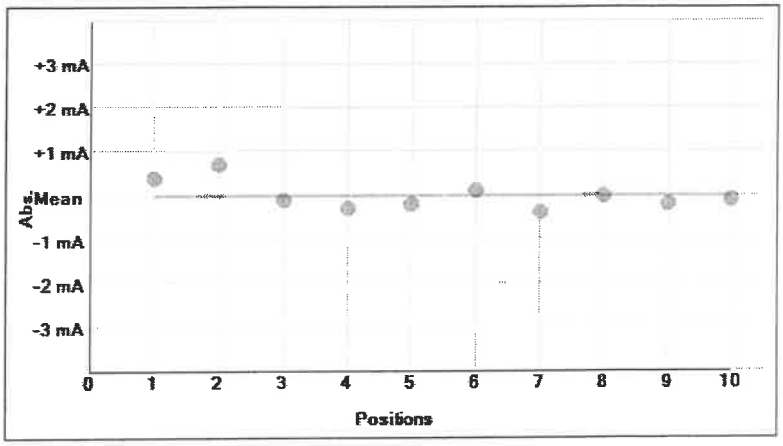
Time 8:35:10AM **Software version: 6.0.2**

Measurement time
12/13/2021 5:40 PM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1003.3**	**0.3**
420	-1036.4	0.2
480	-1046.9	0.1
510	-1050.5	0.2
540	-1054.0	0.1
575	-1057.1	0.3
600	-1058.5	0.1
620	-1060.0	0.2
660	-1062.3	0.1
700	-1063.5	0.3
880	-1046.9	0.3

340



Results by Test

Date 12/14/2021 **User** BufGallery1

Time 8:35:24AM **Software version: 6.0.2**

Test name CL

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
9	CCB	1.13	-0.28	mg/l		0.0	man acc	Outside calibration
10	CCV CL	1.13	26.05	mg/l		0.0	man acc	
11	LCS CL	1.13	26.53	mg/l		0.0	man acc	
12	MB	1.13	-0.02	mg/l		0.0	man acc	Outside calibration
13	480-192746-I-1	1.13	363.51	mg/l		9.0	man acc	
14	480-192842-L-3	1.13	24.74	mg/l		0.0	man acc	
15	ms480-192842-L-3	1.13	44.73	mg/l		0.0	man acc	
16	msd480-192842-L-3	1.13	44.06	mg/l		0.0	man acc	
19	480-193026-G-1	1.13	205.98	mg/l		4.0	man acc	
20	480-193026-G-2	1.13	308.60	mg/l		9.0	man acc	
21	CCB	1.13	-0.20	mg/l		0.0	man acc	Outside calibration
22	CCV CL	1.13	25.51	mg/l		0.0	man acc	
23	LCS CL	1.13	26.26	mg/l		0.0	man acc	
24	MB	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
25	480-193026-G-3	1.13	258.82	mg/l		9.0	man acc	
26	480-193026-G-4	1.13	244.89	mg/l		9.0	man acc	
27	480-193026-G-5	1.13	174.55	mg/l		4.0	man acc	
28	480-193033-K-1	1.13	21.42	mg/l		0.0	man acc	
29	ms480-193033-K-1	1.13	41.06	mg/l		0.0	man acc	
30	CCB	1.13	-0.23	mg/l		0.0	man acc	Outside calibration
31	CCV CL	1.13	26.18	mg/l		0.0	man acc	
32	LCS CL	1.13	26.40	mg/l		0.0	man acc	
33	MB	1.13	-0.12	mg/l		0.0	man acc	Outside calibration
34	msd480-193033-K-	1.13	40.78	mg/l		0.0	man acc	
35	480-193033-K-2	1.13	25.88	mg/l		0.0	man acc	
36	480-193034-K-1	1.13	12.17	mg/l		0.0	man acc	
37	480-193034-K-2	1.13	7.94	mg/l		0.0	man acc	
38	480-193034-K-3	1.13	17.56	mg/l		0.0	man acc	
40	480-193026-G-6	1.13	219.94	mg/l		4.0	man acc	
41	480-193027-G-1	1.13	607.49	mg/l		14.0	man acc	
42	480-193027-G-2	1.13	738.36	mg/l		14.0	man acc	
43	CCB	1.13	-0.43	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
44	CCV CL	1.13	26.03	mg/l		0.0	man acc	
45	LCS CL	1.13	26.59	mg/l		0.0	man acc	
46	MB	1.13	-0.26	mg/l		0.0	man acc	Outside calibration
47	480-193035-H-4	1.13	1.47	mg/l		0.0	man acc	
48	480-193035-F-5	1.13	1.91	mg/l		0.0	man acc	
49	480-193035-F-6	1.13	27.82	mg/l		0.0	man acc	
50	480-193035-F-7	1.13	6.86	mg/l		0.0	man acc	
51	ms480-193035-F-7	1.13	29.29	mg/l		0.0	man acc	
52	msd480-193035-F-7	1.13	28.87	mg/l		0.0	man acc	
53	CCB	1.13	-0.31	mg/l		0.0	man acc	Outside calibration
56	CCV CL	1.13	26.09	mg/l		0.0	man acc	
57	LCS CL	1.13	26.20	mg/l		0.0	man acc	
58	MB	1.13	-0.34	mg/l		0.0	man acc	Outside calibration
59	480-193035-F-8	1.13	4.30	mg/l		0.0	man acc	
61	480-193024-G-1	1.13	899.36	mg/l		19.0	man acc	
62	ms480-193035-F-8	1.13	26.11	mg/l		0.0	man acc	
63	msd480-193035-F-8	1.13	26.69	mg/l		0.0	man acc	
73	480-193099-L-7	1.13	9.41	mg/l		0.0	man acc	
83	480-193178-B-3	1.13	408.97	mg/l		9.0	man acc	
84	CCB	1.13	0.05	mg/l		0.0	man acc	Outside calibration
86	CCV CL	1.13	26.70	mg/l		0.0	man acc	
87	LCS CL	1.13	26.73	mg/l		0.0	man acc	
88	MB	1.13	-0.03	mg/l		0.0	man acc	Outside calibration
89	480-193199-G-3	1.13	181.31	mg/l		4.0	man acc	
90	ms480-193199-G-3	1.13	193.45	mg/l		4.0	man acc	
91	msd480-193199-G-3	1.13	198.20	mg/l		4.0	man acc	
92	480-193199-G-4	1.13	188.66	mg/l		4.0	man acc	
93	ms480-193199-G-4	1.13	204.57	mg/l		4.0	man acc	
94	msd480-193199-G-4	1.13	203.13	mg/l		4.0	man acc	
95	480-193021-C-3	1.13	168.61	mg/l		4.0	man acc	
96	480-193199-G-5	1.13	649.27	mg/l		14.0	man acc	
98	CCB	1.13	0.09	mg/l		0.0	man acc	Outside calibration
99	CCV CL	1.13	26.21	mg/l		0.0	man acc	
100	LCS CL	1.13	26.42	mg/l		0.0	man acc	
101	MB	1.13	-0.23	mg/l		0.0	man acc	Outside calibration
109	480-193206-K-1	1.13	1.06	mg/l		0.0	man acc	
112	480-193199-G-6	1.13	443.06	mg/l		9.0	man acc	
113	CCB	1.13	-0.34	mg/l		0.0	man acc	Outside calibration
114	CCV CL	1.13	26.00	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
115	LCS CL	1.13	26.17	mg/l		0.0	man acc	
116	MB	1.13	-0.30	mg/l		0.0	man acc	Outside calibration
117	ms480-193206-K-1	1.13	23.78	mg/l		0.0	man acc	
118	msd480-193206-K-	1.13	24.15	mg/l		0.0	man acc	
119	480-193199-G-7	1.13	888.36	mg/l		19.0	man acc	
120	480-193206-K-2	1.13	0.31	mg/l		0.0	man acc	Outside calibration
122	480-193203-G-1	1.13	1,017.89	mg/l		29.0	man acc	
123	480-193203-G-2	1.13	682.63	mg/l		14.0	man acc	
124	ms480-193206-K-2	1.13	23.52	mg/l		0.0	man acc	
125	msd480-193206-K-	1.13	23.42	mg/l		0.0	man acc	
129	CCB	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
130	CCV CL	1.13	26.13	mg/l		0.0	man acc	
131	LCS CL	1.13	26.43	mg/l		0.0	man acc	
132	MB	1.13	-0.10	mg/l		0.0	man acc	Outside calibration
133	480-193035-F-1	1.13	8.69	mg/l		0.0	man acc	
138	480-193035-F-2	1.13	56.43	mg/l		1.0	man acc	
139	480-193035-F-3	1.13	132.81	mg/l		2.0	man acc	
145	480-193206-K-8	1.13	5.68	mg/l		0.0	man acc	
148	480-193174-E-1	1.13	155.23	mg/l		4.0	man acc	
149	480-193174-E-2	1.13	196.17	mg/l		4.0	man acc	
150	CCB	1.13	-0.35	mg/l		0.0	man acc	Outside calibration
151	CCV CL	1.13	26.09	mg/l		0.0	man acc	
152	LCS CL	1.13	26.08	mg/l		0.0	man acc	
153	MB	1.13	-0.35	mg/l		0.0	man acc	Outside calibration
154	480-193206-K-9	1.13	1.57	mg/l		0.0	man acc	
155	480-193206-K-11	1.13	36.66	mg/l		0.0	man acc	
156	480-193206-K-12	1.13	9.14	mg/l		0.0	man acc	
157	480-193199-G-1	1.13	162.31	mg/l		4.0	man acc	
158	480-193199-G-2	1.13	162.77	mg/l		4.0	man acc	
159	480-193241-I-1	1.13	-0.56	mg/l		0.0	man acc	Outside calibration
160	480-193206-K-6	1.13	55.48	mg/l		1.0	man acc	
161	480-193241-I-2	1.13	22.15	mg/l		0.0	man acc	
165	CCB	1.13	-0.32	mg/l		0.0	man acc	Outside calibration
166	CCV CL	1.13	26.24	mg/l		0.0	man acc	
167	LCS CL	1.13	26.22	mg/l		0.0	man acc	
168	MB	1.13	-0.27	mg/l		0.0	man acc	Outside calibration
169	480-193241-I-6	1.13	13.60	mg/l		0.0	man acc	
170	ms480-193241-I-6	1.13	34.42	mg/l		0.0	man acc	
171	msd480-193241-I-6	1.13	33.49	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
172	480-193243-I-1	1.13	10.97	mg/l		0.0	man acc	
173	ms480-193243-I-1	1.13	32.11	mg/l		0.0	man acc	
174	msd480-193243-I-1	1.13	32.94	mg/l		0.0	man acc	
175	480-193243-I-2	1.13	25.14	mg/l		0.0	man acc	
180	480-193206-K-5	1.13	1.76	mg/l		0.0	man acc	
181	CCB	1.13	-0.05	mg/l		0.0	man acc	Outside calibration
182	CCV CL	1.13	26.64	mg/l		0.0	man acc	
184	LCS CL	1.13	26.60	mg/l		0.0	man acc	
185	MB	1.13	0.02	mg/l		0.0	man acc	Outside calibration
186	480-193206-K-7	1.13	9.53	mg/l		0.0	man acc	
187	480-193099-L-3	1.13	479.43	mg/l		9.0	man acc	
192	480-193099-L-9	1.13	486.15	mg/l		9.0	man acc	
193	480-193199-G-8	1.13	439.32	mg/l		9.0	man acc	
198	480-193264-G-5	1.13	285.41	mg/l		9.0	man acc	
199	480-193264-G-6	1.13	1,520.37	mg/l		39.0	man acc	
211	480-193099-L-6	1.13	793.61	mg/l		19.0	man acc	
213	CCB	1.13	-0.17	mg/l		0.0	man acc	Outside calibration
214	CCV CL	1.13	26.03	mg/l		0.0	man acc	
215	LCS CL	1.13	26.18	mg/l		0.0	man acc	
216	MB	1.13	-0.40	mg/l		0.0	man acc	Outside calibration
218	480-193264-G-7	1.13	484.10	mg/l		19.0	man acc	
228	480-193099-L-4	1.13	1,875.31	mg/l		49.0	man acc	
229	480-193099-L-5	1.13	1,336.34	mg/l		39.0	man acc	
231	480-193241-I-3	1.13	49.41	mg/l		0.0	man acc	
232	480-193241-I-4	1.13	32.85	mg/l		0.0	man acc	
233	480-193241-I-5	1.13	43.98	mg/l		0.0	man acc	
234	480-193264-G-1	1.13	1,565.16	mg/l		49.0	man acc	
235	CCB	1.13	-0.10	mg/l		0.0	man acc	Outside calibration
236	CCV CL	1.13	26.41	mg/l		0.0	man acc	
237	LCS CL	1.13	26.70	mg/l		0.0	man acc	
238	MB	1.13	-0.15	mg/l		0.0	man acc	Outside calibration
239	480-193264-G-2	1.13	763.46	mg/l		29.0	man acc	
240	480-193264-G-3	1.13	695.25	mg/l		29.0	man acc	
241	480-193264-G-4	1.13	4,625.24	mg/l		99.0	man acc	
246	480-193099-L-2	1.13	553.87	mg/l		19.0	man acc	
251	480-193099-L-8	1.13	4,466.01	mg/l		119.0	man acc	
256	CCB	1.13	-0.10	mg/l		0.0	man acc	Outside calibration
257	CCV CL	1.13	26.68	mg/l		0.0	man acc	
258	LCS CL	1.13	26.57	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
259	MB	1.13	-0.01	mg/l		0.0	man acc	Outside calibration
262	480-193265-G-2	1.13	909.18	mg/l		19.0	man acc	
263	480-193265-G-3	1.13	108.20	mg/l		9.0	man acc	
265	480-193265-G-5	1.13	609.50	mg/l		19.0	man acc	
266	480-193265-G-6	1.13	618.03	mg/l		19.0	man acc	
267	ms480-193265-G-6	1.13	580.47	mg/l		19.0	man acc	
272	msd480-193265-G-	1.13	628.32	mg/l		19.0	man acc	
273	480-193265-G-7	1.13	331.12	mg/l		19.0	man acc	
274	480-193265-G-8	1.13	706.67	mg/l		19.0	man acc	
275	CCB	1.13	-0.28	mg/l		0.0	man acc	Outside calibration
276	CCV CL	1.13	26.58	mg/l		0.0	man acc	
277	LCS CL	1.13	26.87	mg/l		0.0	man acc	
278	MB	1.13	0.08	mg/l		0.0	man acc	Outside calibration
285	480-193265-G-9	1.13	273.80	mg/l		9.0	man acc	
286	480-193265-G-10	1.13	596.99	mg/l		19.0	man acc	
287	ms480-193265-G-1	1.13	603.95	mg/l		19.0	man acc	
288	msd480-193265-G-	1.13	605.29	mg/l		19.0	man acc	
289	480-193265-G-11	1.13	755.46	mg/l		19.0	man acc	
306	480-193288-F-1	1.13	46,341.45	mg/l		1999.0	man acc	
307	480-193290-I-5	1.13	351.10	mg/l		14.0	man acc	
308	CCB	1.13	-0.05	mg/l		0.0	man acc	Outside calibration
309	CCV CL	1.13	26.58	mg/l		0.0	man acc	
310	LCS CL	1.13	26.96	mg/l		0.0	man acc	
311	MB	1.13	-0.10	mg/l		0.0	man acc	Outside calibration
317	480-193266-D-5	1.13	87.50	mg/l		1.0	man acc	
319	480-193290-I-7	1.13	128.62	mg/l		4.0	man acc	
320	CCB	1.13	-0.06	mg/l		0.0	man acc	Outside calibration
321	CCV CL	1.13	26.72	mg/l		0.0	man acc	
322	LCS CL	1.13	26.89	mg/l		0.0	man acc	
323	MB	1.13	-0.06	mg/l		0.0	man acc	Outside calibration
326	480-193266-D-9	1.13	81.43	mg/l		1.0	man acc	
327	480-193266-D-10	1.13	85.24	mg/l		1.0	man acc	
330	480-193266-D-11	1.13	78.99	mg/l		1.0	man acc	
333	480-193290-I-6	1.13	331.45	mg/l		9.0	man acc	
334	480-193266-D-1	1.13	121.21	mg/l		4.0	man acc	
336	480-193266-D-3	1.13	114.75	mg/l		4.0	man acc	
337	480-193266-D-4	1.13	132.91	mg/l		4.0	man acc	
338	480-193266-D-6	1.13	114.36	mg/l		4.0	man acc	
339	CCB	1.13	-0.30	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
341	CCV CL	1.13	26.44	mg/l		0.0	man acc	
342	LCS CL	1.13	26.38	mg/l		0.0	man acc	
343	MB	1.13	-0.10	mg/l		0.0	man acc	Outside calibration
344	480-193266-D-8	1.13	152.25	mg/l		4.0	man acc	
345	ms480-193266-D-1	1.13	109.74	mg/l		4.0	man acc	
346	msd480-193266-D-	1.13	109.35	mg/l		4.0	man acc	
348	CCB	1.13	-0.31	mg/l		0.0	man acc	Outside calibration
349	CCV CL	1.13	26.15	mg/l		0.0	man acc	
351	LCS CL	1.13	26.70	mg/l		0.0	man acc	
352	MB	1.13	-0.24	mg/l		0.0	man acc	Outside calibration
353	480-193306-C-1	1.13	2.92	mg/l		0.0	man acc	
354	ms480-193306-C-1	1.13	24.79	mg/l		0.0	man acc	
355	msd480-193306-C-	1.13	24.38	mg/l		0.0	man acc	
356	480-193310-G-1	1.13	7.65	mg/l		0.0	man acc	
357	480-193310-G-2	1.13	13.54	mg/l		0.0	man acc	
358	ms480-193290-I-9	1.13	199.39	mg/l		4.0	man acc	
359	480-193290-I-8	1.13	290.52	mg/l		9.0	man acc	
360	480-193310-G-3	1.13	10.45	mg/l		0.0	man acc	
361	CCB	1.13	-0.12	mg/l		0.0	man acc	Outside calibration
362	CCV CL	1.13	26.42	mg/l		0.0	man acc	
363	LCS CL	1.13	27.27	mg/l		0.0	man acc	
364	MB	1.13	-0.36	mg/l		0.0	man acc	Outside calibration
365	ms480-193290-I-8	1.13	305.74	mg/l		9.0	man acc	
366	msd480-193290-I-9	1.13	199.23	mg/l		4.0	man acc	
367	480-193310-G-4	1.13	9.24	mg/l		0.0	man acc	
368	480-193310-G-5	1.13	23.58	mg/l		0.0	man acc	
374	480-193310-G-7	1.13	31.11	mg/l		0.0	man acc	
375	480-193310-G-8	1.13	40.09	mg/l		0.0	man acc	
381	480-193266-D-2	1.13	282.87	mg/l		9.0	man acc	
382	CCB	1.13	0.06	mg/l		0.0	man acc	Outside calibration
383	CCV CL	1.13	26.67	mg/l		0.0	man acc	
384	LCS CL	1.13	26.63	mg/l		0.0	man acc	
385	MB	1.13	-0.23	mg/l		0.0	man acc	Outside calibration
388	msd480-193290-I-8	1.13	305.97	mg/l		9.0	man acc	
390	480-193323-A-1	1.13	-0.37	mg/l		0.0	man acc	Outside calibration
391	480-193323-A-2	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
392	480-193323-A-3	1.13	0.09	mg/l		0.0	man acc	Outside calibration
397	480-193332-H-1	1.13	43.68	mg/l		0.0	man acc	
398	480-193332-H-3	1.13	43.63	mg/l		0.0	man acc	

	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
399	CCB	1.13	0.10	mg/l		0.0	man acc	Outside calibration
402	CCV CL	1.13	26.70	mg/l		0.0	man acc	
403	LCS CL	1.13	26.92	mg/l		0.0	man acc	
404	MB	1.13	-0.12	mg/l		0.0	man acc	Outside calibration
405	480-193265-G-4	1.13	176.89	mg/l		9.0	man acc	
406	480-193266-D-7	1.13	131.05	mg/l		4.0	man acc	
407	480-193290-I-9	1.13	188.66	mg/l		4.0	man acc	
409	480-193331-I-1	1.13	95.29	mg/l		2.0	man acc	
410	480-193331-G-2	1.13	187.71	mg/l		4.0	man acc	
411	CCB	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
413	CCV CL	1.13	26.67	mg/l		0.0	man acc	
414	LCS CL	1.13	26.72	mg/l		0.0	man acc	
415	MB	1.13	-0.01	mg/l		0.0	man acc	Outside calibration
416	480-193335-I-1	1.13	3.35	mg/l		0.0	man acc	
417	480-193335-I-2	1.13	1.37	mg/l		0.0	man acc	
418	ms480-193335-I-2	1.13	24.08	mg/l		0.0	man acc	
425	480-193317-D-8	1.13	80.70	mg/l		1.0	man acc	
426	msd480-193335-I-2	1.13	23.92	mg/l		0.0	man acc	
427	480-193335-I-3	1.13	7.59	mg/l		0.0	man acc	
428	ms480-193335-I-3	1.13	29.16	mg/l		0.0	man acc	
429	msd480-193335-I-3	1.13	28.65	mg/l		0.0	man acc	
431	CCB	1.13	-0.14	mg/l		0.0	man acc	Outside calibration
432	CCV CL	1.13	26.90	mg/l		0.0	man acc	
433	LCS CL	1.13	26.58	mg/l		0.0	man acc	
434	MB	1.13	-0.09	mg/l		0.0	man acc	Outside calibration
435	480-193335-I-5	1.13	31.06	mg/l		0.0	man acc	
437	480-193336-Q-5	1.13	22.25	mg/l		0.0	man acc	
442	480-193337-H-1	1.13	1.98	mg/l		0.0	man acc	
443	480-193337-H-2	1.13	2.03	mg/l		0.0	man acc	
446	480-193369-K-1	1.13	35.29	mg/l		0.0	man acc	
447	480-193336-Q-2	1.13	862.13	mg/l		29.0	man acc	
448	480-193336-Q-3	1.13	537.24	mg/l		19.0	man acc	
449	480-193336-Q-6	1.13	663.97	mg/l		19.0	man acc	
450	CCB	1.13	-0.28	mg/l		0.0	man acc	Outside calibration
451	CCV CL	1.13	26.50	mg/l		0.0	man acc	
454	LCS CL	1.13	26.49	mg/l		0.0	man acc	
455	MB	1.13	-0.18	mg/l		0.0	man acc	Outside calibration
456	480-193317-D-2	1.13	109.72	mg/l		4.0	man acc	
457	480-193335-I-4	1.13	0.79	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
458	480-193317-D-3	1.13	125.11	mg/l		4.0	man acc	
459	480-193317-D-4	1.13	122.11	mg/l		4.0	man acc	
460	480-193369-K-2	1.13	19.98	mg/l		0.0	man acc	
461	CCB	1.13	-0.03	mg/l		0.0	man acc	Outside calibration
462	CCV CL	1.13	26.92	mg/l		0.0	man acc	
463	LCS CL	1.13	27.02	mg/l		0.0	man acc	
464	MB	1.13	0.01	mg/l		0.0	man acc	Outside calibration
465	480-193264-G-8	1.13	1,480.91	mg/l		39.0	man acc	
466	480-193265-G-1	1.13	101.36	mg/l		2.0	man acc	
467	480-193317-D-5	1.13	120.75	mg/l		4.0	man acc	
468	480-193317-D-6	1.13	164.96	mg/l		4.0	man acc	
469	480-193317-D-7	1.13	62.20	mg/l		1.0	man acc	
471	480-193369-K-4	1.13	4.33	mg/l		0.0	man acc	
472	480-193369-K-5	1.13	4.47	mg/l		0.0	man acc	
473	480-193336-Q-1	1.13	69.60	mg/l		1.0	man acc	
474	CCB	1.13	0.01	mg/l		0.0	man acc	Outside calibration
475	CCV CL	1.13	26.70	mg/l		0.0	man acc	
476	LCS CL	1.13	26.37	mg/l		0.0	man acc	
477	MB	1.13	-0.29	mg/l		0.0	man acc	Outside calibration
479	CCB	1.13	-0.33	mg/l		0.0	man acc	Outside calibration
480	CCV CL	1.13	26.44	mg/l		0.0	man acc	
481	LCS CL	1.13	26.55	mg/l		0.0	man acc	
482	MB	1.13	-0.11	mg/l		0.0	man acc	Outside calibration
483	480-193310-G-6	1.13	736.57	mg/l		19.0	man acc	
484	480-193317-D-1	1.13	118.82	mg/l		4.0	man acc	
485	480-193335-I-6	1.13	8.94	mg/l		0.0	man acc	
486	480-193336-Q-7	1.13	202.22	mg/l		9.0	man acc	
487	480-193369-K-3	1.13	80.67	mg/l		1.0	man acc	
488	CCB	1.13	-0.17	mg/l		0.0	man acc	Outside calibration
489	CCV CL	1.13	26.46	mg/l		0.0	man acc	
490	LCS CL	1.13	26.54	mg/l		0.0	man acc	
491	MB	1.13	-0.34	mg/l		0.0	man acc	Outside calibration

Historical Data Summary Report

For Batch 608717

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-192746-I-1	G103	SM4500_Cl_I	Chloride, Dissolved	Dissolved	mg/L	8	10.0	364 365	☑	0 - 216.827	☑	53.44 - 241.2 OK: 608316
480-192842-L-3	G1L6	SM4500_Cl_I	Chloride, Dissolved	Dissolved	mg/L	8	1.0	24.7 24.5	☑	1.174 - 19.526	☑	4.96 - 18 OK: 608316
480-193024-G-1	20-183-2R	9251	Chloride	Total/NA	mg/L	6	20.0	899	☐	0 - 1598.949	☐	351.2 - 1380
480-193026-G-1	98-187-2	9251	Chloride	Total/NA	mg/L	8	5.0	206	☐	145.866 - 253.884	☐	135.2 - 262.8
480-193026-G-2	98-188-1	9251	Chloride	Total/NA	mg/L	8	10.0	309	☐	193.506 - 348.244	☐	184 - 372
480-193026-G-3	98-188-2	9251	Chloride	Total/NA	mg/L	8	10.0	259	☐	240.715 - 297.035	☐	202.4 - 340.8
480-193026-G-4	98-188-3	9251	Chloride	Total/NA	mg/L	8	10.0	245	☐	217.407 - 275.093	☐	184.8 - 312
480-193026-G-5	98-193-2	9251	Chloride	Total/NA	mg/L	8	5.0	175	☐	123.196 - 259.554	☐	139.2 - 297.6
480-193026-G-6	98-194-2	9251	Chloride	Total/NA	mg/L	8	5.0	220	☐	189.359 - 252.391	☐	168 - 295.2
480-193027-G-1	93-181-2	9251	Chloride	Total/NA	mg/L	8	15.0	607	☐	458.498 - 718.252	☐	437.6 - 832.8
480-193027-G-2	93-181-3	9251	Chloride	Total/NA	mg/L	8	15.0	738	☐	523.993 - 791.757	☐	468 - 892.8
480-193033-K-1	UD-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	21.4	☐	0 - 44.874	☐	7.68 - 45.24
480-193033-K-2	UD-2	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	25.9	☐	0 - 71.506	☐	11.2 - 71.76
480-193034-K-1	SW-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	12.2	☐	0 - 28.259	☐	5.2 - 24.96
480-193034-K-2	SW-2	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	7.9	☐	0.577 - 25.148	☐	5.76 - 25.8
480-193034-K-3	SW-3	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	17.6	☐	0 - 29.234	☐	5.92 - 31.2
480-193035-F-1	DO-2	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	8.7	☐	2.39 - 9.61	☐	3.92 - 9.24
480-193035-F-2	PGW-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	2.0	56.4	☐	16.116 - 74.204	☐	27.36 - 72.84
480-193035-F-3	PLT-2	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	3.0	133	☐	21.769 - 197.231	☐	45.2 - 169.2
480-193035-F-5	RE-5	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	1.9	☐	0.706 - 6.934	☐	1.84 - 6
480-193035-F-6	RE-6	SM4500_Cl_I	Chloride	Total/NA	mg/L	3	1.0	27.8	☑	12.916 - 19.284	☑	12.88 - 19.32 OK: ≤3 pts
480-193035-F-7	RE-7	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	6.9	☐	5.074 - 7.486	☐	4.64 - 8.28
480-193035-F-8	RE-8	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	4.3	☐	3.574 - 6.666	☐	3.36 - 6.84
480-193035-H-4	RE-4	SM4500_Cl_I	Chloride	Total/NA	mg/L	5	1.0	1.5	☐	1.485 - 3.915	☑	1.76 - 3.84 OK
480-193178-B-3	R112	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	10.0	409	☐	0 - 797.611	☐	21.76 - 684
480-193199-G-1	03-197-1	9251	Chloride	Total/NA	mg/L	8	5.0	162	☐	123.237 - 188.513	☐	113.6 - 206.4
480-193199-G-2	03-197-2	9251	Chloride	Total/NA	mg/L	8	5.0	163	☐	113.998 - 174.502	☐	104 - 190.8
480-193199-G-3	03-198-1	9251	Chloride	Total/NA	mg/L	8	5.0	181	☐	134.829 - 193.421	☐	120 - 217.2
480-193199-G-4	03-198-2	9251	Chloride	Total/NA	mg/L	8	5.0	189	☐	155.642 - 230.608	☐	136.8 - 255.6
480-193199-G-5	03-199-1	9251	Chloride	Total/NA	mg/L	8	15.0	649	☐	490.599 - 772.151	☐	438.4 - 861.6
480-193199-G-6	03-199-2	9251	Chloride	Total/NA	mg/L	8	10.0	443	☐	305.599 - 504.651	☐	272 - 552
480-193199-G-7	03-200-1	9251	Chloride	Total/NA	mg/L	8	20.0	888	☐	643.162 - 948.838	☐	580.8 - 1054.8
480-193199-G-8	03-200-2	9251	Chloride	Total/NA	mg/L	8	10.0	439	☑	317.478 - 412.272	☐	267.2 - 465.6
480-193203-G-1	88-148-1	9251	Chloride	Total/NA	mg/L	8	30.0	1020	☐	848.402 - 1262.598	☐	783.2 - 1428
480-193203-G-2	96-148-2R	9251	Chloride	Total/NA	mg/L	8	15.0	683	☑	442.507 - 635.243	☐	392.8 - 704.4
480-193206-K-1	MW-11A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.1	☐	0 - 22.711	☐	0 - 24.36
480-193206-K-11	MW-18B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	36.7	☐	31.634 - 47.091	☐	28.32 - 53.04
480-193206-K-2	MW-11B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193206-K-5	MW-14A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.8	☐	0 - 36.277	☐	0.88 - 26.88

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Historical Data Summary Report

For Batch 608717

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits	
480-193206-K-6	MW-14B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	2.0	55.5	☐	0 - 110.684	☐	0 - 81	
480-193206-K-7	MW-15A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	9.5	☐	7.009 - 11.016	☐	6.32 - 12.12	
480-193206-K-8	MW-15B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	5.7	☐	0 - 14.185	☐	2.16 - 12.48	
480-193206-K-9	MW-16A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.6	☐	0 - 164.574	☑	1.92 - 105.6	OK
480-193241-I-1	01FB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 23.22	☐	0 - 24.96	
480-193241-I-2	MW04	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	22.1	☐	0 - 40.303	☐	8.8 - 35.64	
480-193241-I-3	MW05	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	49.4	☑	23.109 - 46.366	☐	23.84 - 50.88	
480-193241-I-4	MW06D	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	32.8	☐	16.245 - 67.105	☐	20 - 65.04	
480-193241-I-5	MW06S	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	44.0	☐	11.181 - 47.669	☐	17.84 - 47.4	
480-193241-I-6	MW07	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	13.6	☐	4.686 - 13.664	☐	6.08 - 14.64	
480-193243-I-1	SW001	SM4500_Cl_I	Chloride	Total/NA	mg/L	6	1.0	11.0	☐	0 - 37.91	☐	6.8 - 36.48	
480-193243-I-2	SW003	SM4500_Cl_I	Chloride	Total/NA	mg/L	2	1.0	25.1	☐	19.9 - 25.9	☐	18.32 - 27.48	
480-193264-G-1	08-147-1R	9251	Chloride	Total/NA	mg/L	8	50.0	1570	☑	0 - 1484.73	☑	157.6 - 1320	OK: Dup w/8
480-193264-G-2	20-147-2R	9251	Chloride	Total/NA	mg/L	8	30.0	763	☐	0 - 3685.859	☐	115.2 - 2496	
480-193264-G-3	08-147-3	9251	Chloride	Total/NA	mg/L	8	30.0	695	☐	0 - 3261.472	☐	193.6 - 2496	
480-193264-G-4	10-152-1R	9251	Chloride	Total/NA	mg/L	8	100.0	4630	☐	0 - 6383.939	☐	333.6 - 5340	
480-193264-G-5	10-152-2R	9251	Chloride	Total/NA	mg/L	8	10.0	285	☐	84.646 - 653.854	☐	182.4 - 633.6	
480-193264-G-6	10-185-1	9251	Chloride	Total/NA	mg/L	8	40.0	1520	☐	0 - 2697.401	☐	193.6 - 2076	
480-193264-G-7	96-185-2	9251	Chloride	Total/NA	mg/L	8	20.0	484	☐	0 - 2606.935	☐	115.2 - 2184	
480-193264-G-8	DUP@08-147-1R	9251	Chloride	Total/NA	mg/L	8	40.0	1480	☑	236.35 - 500.4	☑	232.8 - 502.8	OK: Dup/1
480-193265-G-1	89-156-2	9251	Chloride	Total/NA	mg/L	8	3.0	101	☐	0 - 768.01	☑	144 - 687.6	OK
480-193265-G-10	357R	9251	Chloride	Total/NA	mg/L	8	20.0	597	☐	411.718 - 711.282	☐	374.4 - 744	
480-193265-G-11	D-19RR	9251	Chloride	Total/NA	mg/L	8	20.0	755	☐	142.715 - 958.785	☐	273.6 - 847.2	
480-193265-G-2	98-156-3	9251	Chloride	Total/NA	mg/L	8	20.0	909	☐	0 - 1378.331	☐	291.2 - 1308	
480-193265-G-3	98-186-2	9251	Chloride	Total/NA	mg/L	8	10.0	108	☐	0 - 768.01	☑	144 - 687.6	OK
480-193265-G-4	75R	9251	Chloride	Total/NA	mg/L	8	10.0	177	☐	0 - 1007.455	☐	168 - 973.2	
480-193265-G-5	76R	9251	Chloride	Total/NA	mg/L	8	20.0	609	☐	295.153 - 682.347	☐	341.6 - 771.6	
480-193265-G-6	DUP@76R	9251	Chloride	Total/NA	mg/L	1	20.0	618	☑	578 - 578	☐	462.4 - 693.6	
480-193265-G-7	94R	9251	Chloride	Total/NA	mg/L	8	20.0	331	☐	0 - 2026.03	☑	336.8 - 1980	OK
480-193265-G-8	PELA-4	9251	Chloride	Total/NA	mg/L	8	20.0	707	☐	471.358 - 827.142	☐	443.2 - 865.2	
480-193265-G-9	89-167-3	9251	Chloride	Total/NA	mg/L	8	10.0	274	☐	0 - 1554.549	☐	150.4 - 1668	
480-193288-F-1	21-08481 Acid	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	2000.0	46000	☐	0 - 110099.4	☐	14400 - 104400	
480-193290-I-5	MW-7S	9251	Chloride	Total/NA	mg/L	8	15.0	351	☐	157.217 - 765.283	☐	208.8 - 710.4	
480-193290-I-6	MW-DUP	9251	Chloride	Total/NA	mg/L	8	10.0	331	☐	0 - 606.015	☐	5.92 - 595.2	
480-193290-I-7	MW-14S	9251	Chloride	Total/NA	mg/L	8	5.0	129	☐	0 - 253.045	☐	51.68 - 229.2	
480-193290-I-8	MW-15S	9251	Chloride	Total/NA	mg/L	8	10.0	291	☐	0 - 348.929	☑	11.04 - 289.2	OK
480-193290-I-9	MW-6S2	9251	Chloride	Total/NA	mg/L	8	5.0	189	☐	126.495 - 295.255	☐	132.8 - 318	
480-193306-C-1	MH01	9251	Chloride	Total/NA	mg/L	8	1.0	2.9	☐	0 - 6.705	☐	0.8 - 5.64	
480-193331-G-2	MW-16D	9251	Chloride	Total/NA	mg/L	8	5.0	188	☐	145.022 - 269.728	☐	147.2 - 283.2	

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2/23/2021

Historical Data Summary Report

For Batch 608717

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits	
480-193331-I-1	MW-16S	9251	Chloride	Total/NA	mg/L	8	3.0	95.3	☐	87.764 - 126.986	☐	75.2 - 139.2	
480-193332-H-1	DUP	9251	Chloride	Total/NA	mg/L	8	1.0	43.7	☐	19.99 - 60.86	☐	25.52 - 63.72	
480-193332-H-3	WS-1D	9251	Chloride	Total/NA	mg/L	8	1.0	43.6	☐	37.324 - 52.476	☐	32.8 - 58.08	
480-193335-I-1	MW-12AA	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	3.3	☐	0 - 74.601	☐	1.2 - 49.08	
480-193335-I-2	MW-12BBB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	1.4	☐	0 - 2.346	☐	0 - 2.52	
480-193335-I-3	MW-13A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	7.6	☐	5.148 - 11.177	☐	5.2 - 12.36	
480-193335-I-4	MW-13B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 4.017	☐	0 - 3.36	
480-193335-I-5	MW-17A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	31.1	☑	18.69 - 25.11	☑	16.16 - 28.92	RE:
480-193335-I-6	MW-17B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	8.9	☐	5.456 - 10.644	☐	4.8 - 10.56	
480-193336-Q-1	SLC-2A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	2.0	69.6	☐	0 - 511.949	☐	5.76 - 547.2	
480-193336-Q-2	PLC-2A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	30.0	862	☐	519.845 - 1521.905	☐	534.4 - 1428	
480-193336-Q-3	PLC-1B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	20.0	537	☐	471.587 - 1207.913	☐	504 - 1236	
480-193336-Q-5	SLC-1A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	22.3	☐	0 - 511.949	☐	5.76 - 547.2	
480-193336-Q-6	PLC-1A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	20.0	664	☐	447.528 - 1083.972	☐	439.2 - 1059.6	
480-193336-Q-7	LD-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	10.0	202	☐	101.979 - 413.271	☐	144 - 385.2	
480-193337-H-1	CD-1	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	2.0	☐	0 - 3.486	☐	0 - 2.76	
480-193337-H-2	CD-1RA	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	2.0	☐	0 - 9.206	☐	0 - 9.84	
480-193369-K-1	MW-1A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	35.3	☐	0 - 64.007	☐	2.48 - 45.24	
480-193369-K-2	MW-2A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	20.0	☐	5.809 - 27.766	☐	8.96 - 26.88	
480-193369-K-3	MW-2B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	2.0	80.7	☐	0 - 149.414	☐	12.24 - 105.6	
480-193369-K-4	MW-1B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	4.3	☐	0 - 38.448	☐	2.48 - 40.8	
480-193369-K-5	DUP MW-1B	SM4500_Cl_I	Chloride	Total/NA	mg/L	1	1.0	4.5	☑	8.2 - 8.2	☑	6.56 - 9.84	OK: ≤ 3 pts

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12/23/2021

Eurofins TestAmerica Buffalo
BOD Documentation for BOD

Logbook # A21-19

BOD # 2 Peaut

Batch # 608699

Analyst SM

Date & Time run set up 12/13/21 1956

Initial DO Air Calibration 1003 @ 23.7°C 8.44 → 8.37

Barometer ID SN192706711

Date & Time of read 12/18/21 10:30

Final DO Air Calibration 994.2 @ 23.5°C 8.47 → 8.32

Barometer ID SN192706711

pH check of samples (6.0-8.0) ✓ See Bench Sheet

Residual Chlorine check of samples ✓

Temperature Check of samples ✓

Measured Temperature=

***Corrected Temperature=**

*** (20+/- 3°C)** (after Correction factor has been applied)

Temperature Check of Dilution Water carboy # 8 @ 22.8°C

Measured Temperature=

***Corrected Temperature=** (after Correction factor has been applied)

Solutions

BOD SEED: 656632 **CBOD SEED:** —

GLUCOSE: 6646331 **GLUTAMIC ACID:** 6294365

H2SO4: — **NaOH:** 6306289

Sodium Sulfite: —

CARBOY NUTIENT BUFFER PILLOWS: 6614223

BOD BOTTLE NUTRIENT BUFFER PILLOWS: ↓

Check, MS, MSD CONCENTRATION: ACTUAL VALUE: 198 mg/L. RANGE: 167.5 – 228.5 mg/L

Incubator # 1

GGA: GLUCOSE: 0.1500g GLUTAMIC ACID: 0.1505g

Reviewed by: RM **Date:** 12/18/21

162/200

Historical Data Summary Report

For Batch 608699

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193173-A-1	SSR01E	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	7	500	177000	☐	0 - 8703992.375	☐	12.32 - 8760000
480-193173-A-2	SSR08E	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	3	50	13100	☑	0 - 4286.464	☑	790.213 - 1185.32
480-193336-C-5	SLC-1A	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	59.9	☐	0 - 88.264	☐	0 - 81.6
480-193336-C-6	PLC-1A	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	24.2	☐	0 - 64.635	☐	13.12 - 67.8
480-193336-C-7	LD-1	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 3.128	☐	0 - 3.36
480-193362-B-1	WWE Eff.Comp.	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	2	280	☐	0 - 460.936	☐	24 - 372
480-193369-A-1	MW-1A	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-A-2	MW-2A	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	2.2	☐	0 - 14.616	☐	0 - 12.96
480-193369-A-3	MW-2B	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 7.976	☐	0 - 8.16
480-193369-A-4	MW-1B	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 3.351	☐	0 - 3.6
480-193369-A-5	DUP MW-1B	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0

PC-BOD Post Run Final Report

Intials Operator: SRW
Finals Operator:

Run Number: 10358
OrderNumber: PC_BOD_20211213-1

Start Time: 7:56 PM
Start Date: 12/13/2021

Finish Time: 11:57 AM
Finish Date: 12/18/2021

BOD Seed Correction: (per ml of seed) .16
CBOD Seed Correction: (per ml of seed) .00
BOD Blank Average Depletion: .51
CBOD Blank Average Depletion: .00
Correction Factor: 1.00

Flag Definitions

SR Standard - Outside of range
SAR Standard average out of range

bSS Blank supersaturated
bDe Blank - Depletion

cD Seed - Depletion
cF Seed - Final DO
cR Seed - Range
kD Spike - Depletion
kF Spike - Final DO
kR Spike - Range

sD
sF Sample Limit - Depletion
Sample Limit - Final DO

gF
gD Group Failure - Final DO
gT Group Failure - Depletion
Group Failure - Toxicity

In+
In-
iT
fT

Reading
96.20

AtmoPressure
731.00

AtmosUnits
mmHg

Readingfinal
96.20

AtmoPressurefinal
731.00

AtmosUnitsfinal
mmHg

Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
1	Rinse		1.00	.00	.00	7.71	22.60	6.79	20.60	.92	< .00	.00	sD
2	Rinse		1.00	.00	.00	7.82	22.50	7.48	20.30	.34	< .00	.00	sD
3	Rinse		1.00	.00	.00	7.82	22.50	7.55	20.20	.27	< .00	.00	sD
4	Rinse		1.00	.00	.00	7.80	22.50	7.54	20.10	.26	< .00	< 2.00	sDgD
5	Blank		1.00	.00	.00	7.72	22.50	7.21	20.30	.51	.00	.00	bDe
6	Seed		1.00	.00	20.00	7.34	22.10	3.89	20.20	3.45	.00	.00	
7	Seed		1.00	.00	20.00	7.55	22.10	4.38	20.10	3.17	.00	.00	
8	Seed		1.00	.00	20.00	7.65	22.00	4.51	20.10	3.14	.00	.00	
9	Check		1.00	6.00	4.00	7.82	22.30	3.03	20.40	4.79	206.97	.00	
10	Check		1.00	6.00	4.00	7.91	22.20	3.26	20.20	4.65	199.97	.00	
11	Check		1.00	6.00	4.00	7.90	22.30	3.32	20.00	4.58	196.47	201.13	
12	192991-A1		50.00	100.00	4.00	7.34	22.40	.15	20.20	7.19	> 980.90	.00	sF
13	192991-A1		50.00	50.00	4.00	7.73	22.40	.13	20.30	7.60	> 2,084.80	.00	sF

Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
14	192991-A1		50.00	25.00	4.00	7.89	22.30	.14	20.20	7.75	> 4,259.60	.00	sF
15	192991-A1		50.00	10.00	4.00	7.91	22.30	.12	20.10	7.79	> 10,709.0(	.00	sF
16	192991-A1		50.00	5.00	4.00	7.94	22.30	1.96	20.10	5.98	15,988.0(	.00	
17	192991-A1		50.00	3.00	4.00	7.97	22.30	4.27	20.20	3.70	15,246.67	15,617.33	gT
18	192991-A1-DISS		50.00	100.00	4.00	7.38	22.40	.15	20.20	7.23	> 986.90	.00	sF
19	192991-A1-DISS		50.00	50.00	4.00	7.74	22.40	.12	20.20	7.62	> 2,090.80	.00	sF
20	192991-A1-DISS		50.00	25.00	4.00	7.90	22.30	.11	20.20	7.79	> 4,283.60	.00	sF
21	192991-A1-DISS		50.00	10.00	4.00	7.95	22.30	.14	20.40	7.81	> 10,739.0(	.00	sF
22	192991-A1-DISS		50.00	5.00	4.00	7.98	22.20	2.01	20.30	5.97	15,958.0(	.00	
23	192991-A1-DISS		50.00	3.00	4.00	7.98	22.20	4.06	20.20	3.92	16,346.67	16,152.33	gT
24	193173-A1		500.00	100.00	4.00	7.45	22.20	.16	20.30	7.29	> 9,959.00	.00	sF
1	193173-A1		500.00	50.00	4.00	7.86	22.20	.17	20.80	7.69	> 21,118.0(	.00	sF
2	193173-A1		500.00	25.00	4.00	7.70	22.20	.12	20.40	7.58	> 41,576.0(	.00	sF
3	193173-A1		500.00	10.00	4.00	7.69	22.20	3.02	20.30	4.67	60,290.0(	.00	
4	193173-A1		500.00	5.00	4.00	7.78	22.20	4.67	20.20	3.11	73,780.0(	.00	
5	193173-A1		500.00	3.00	4.00	7.84	22.20	5.63	20.20	2.21	77,966.67	70,678.89	gT
6	193173-A2		50.00	100.00	4.00	7.48	22.20	.15	20.20	7.33	> 1,001.90	.00	sF
7	193173-A2		50.00	50.00	4.00	7.79	22.20	.13	20.20	7.66	> 2,102.80	.00	sF
8	193173-A2		50.00	25.00	4.00	7.83	22.20	.12	20.30	7.71	> 4,235.60	.00	sF
9	193173-A2		50.00	10.00	4.00	7.85	22.30	.15	20.20	7.70	> 10,574.0(	.00	sF
10	193173-A2		50.00	5.00	4.00	7.88	22.20	3.01	20.20	4.87	12,658.0(	.00	
11	193173-A2		50.00	3.00	4.00	7.89	22.20	4.54	20.20	3.35	13,496.67	13,077.33	gT
12	193336-C5		1.00	100.00	4.00	7.81	22.10	.40	20.40	7.41	> 20.28	.00	sF
13	193336-C5		1.00	50.00	4.00	7.23	21.80	2.43	20.40	4.80	24.90	.00	
14	193336-C5		1.00	25.00	4.00	8.03	21.80	4.08	20.30	3.95	39.59	.00	
15	193336-C5		1.00	10.00	4.00	7.74	22.10	4.81	20.10	2.93	68.38	.00	
16	193336-C5		1.00	5.00	4.00	7.89	22.10	5.46	20.20	2.43	106.76	.00	

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Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
17	193336-C5		1.00	3.00	4.00	7.89	22.20	6.11	20.20	1.78	< 112.93	59.91 /6	sDgT
18	193336-C6		1.00	100.00	4.00	7.54	22.00	.16	20.30	7.38	> 20.19	.00	sF
19	193336-C6		1.00	50.00	4.00	7.59	22.10	2.83	20.30	4.76	24.66	.00	
20	193336-C6		1.00	25.00	4.00	7.82	22.10	5.19	20.30	2.63	23.75	.00	
21	193336-C6		1.00	10.00	4.00	7.86	22.20	6.45	20.30	1.41	< 22.78	.00	sD
22	193336-C6		1.00	5.00	4.00	7.87	22.10	6.72	20.30	1.15	< 29.96	.00	sD
23	193336-C6		1.00	3.00	4.00	7.87	22.20	6.92	20.30	.95	< 29.93	24.20 /6	sD
24	193336-C7		1.00	300.00	4.00	7.49	22.00	6.55	20.60	.94	< .29	.00	sD
1	193336-C7		1.00	200.00	4.00	7.88	22.30	6.94	21.00	.94	< .43	.00	sD
2	193336-C7		1.00	100.00	4.00	7.73	22.50	6.72	20.70	1.01	< 1.08	< .29	sDgDgT
3	193362-B1		2.00	100.00	4.00	7.71	22.20	.14	20.50	7.57	> 41.52	.00	sF
4	193362-B1		2.00	50.00	4.00	7.39	22.20	.13	20.40	7.26	> 79.31	.00	sF
5	193362-B1		2.00	25.00	4.00	7.76	22.30	.14	20.40	7.62	> 167.26	.00	sF
6	193362-B1		2.00	10.00	4.00	7.90	22.20	2.72	20.30	5.18	271.76	.00	
7	193362-B1		2.00	5.00	4.00	7.90	22.30	4.95	20.10	2.95	275.92	.00	
8	193362-B1		2.00	3.00	4.00	7.92	22.30	5.87	20.10	2.05	279.87	275.85 /60	gT
9	193362-B1-DU		2.00	10.00	4.00	7.83	22.40	2.80	20.40	5.03	262.76	262.76 /60	
10	193368-A1		1.00	100.00	4.00	7.77	22.20	6.57	20.30	1.20	< 1.65	.00	sD
11	193368-A1		1.00	50.00	4.00	7.90	22.10	6.86	20.10	1.04	< 2.34	.00	sD
12	193368-A1		1.00	25.00	4.00	7.77	22.10	6.86	20.20	.91	< 3.11	.00	sD
13	193368-A1		1.00	10.00	4.00	7.71	22.20	6.84	20.50	.87	< 6.58	.00	sD
14	193368-A1		1.00	5.00	4.00	7.73	22.10	6.79	20.10	.94	< 17.36	.00	sD
15	193368-A1		1.00	3.00	4.00	7.70	22.20	6.93	20.10	.77	< 11.93	< 1.65 /3	sDgDgT
16	193368-A2		1.00	100.00	4.00	7.65	22.00	6.69	20.20	.96	< .93	.00	sD
17	193368-A2		1.00	50.00	4.00	7.66	22.10	6.65	20.30	1.01	< 2.16	.00	sD
18	193368-A2		1.00	25.00	4.00	7.63	22.30	6.78	20.00	.85	< 2.39	.00	sD
19	193368-A2		1.00	10.00	4.00	7.63	22.30	6.91	20.10	.72	< 2.08	.00	sD

Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
20	193368-A2		1.00	5.00	4.00	7.62	22.30	6.90	20.10	.72	< 4.16	.00	sD
21	193368-A2		1.00	3.00	4.00	7.62	22.30	6.74	20.10	.88	< 22.93	< 1.00	sDgDgT
22	193369-A1		1.00	300.00	4.00	7.62	21.80	6.87	20.20	.75	< .10	.00	sD
23	193369-A1		1.00	200.00	4.00	7.56	22.00	6.87	20.20	.69	< .06	.00	sD
24	193369-A1		1.00	100.00	4.00	7.63	22.10	7.01	20.40	.62	< -.09	< .10	sDgDgT
1	193369-A2		1.00	300.00	4.00	7.42	22.00	4.88	20.20	2.54	1.89	.00	
2	193369-A2		1.00	200.00	4.00	7.69	22.30	5.41	19.80	2.28	2.44	.00	
3	193369-A2		1.00	100.00	4.00	7.06	22.50	5.44	19.80	1.62	< 2.91	2.17	sD
4	193369-A3		1.00	300.00	4.00	7.43	22.00	6.17	19.90	1.26	< .61	.00	sD
5	193369-A3		1.00	200.00	4.00	7.34	22.20	6.21	19.80	1.13	< .72	.00	sD
6	193369-A3		1.00	100.00	4.00	7.50	22.40	6.70	19.60	.80	< .45	< .61	sDgD
7	193369-A4		1.00	300.00	4.00	7.57	22.00	6.82	19.60	.75	< .10	.00	sD
8	193369-A4		1.00	200.00	4.00	7.43	22.20	6.89	19.70	.54	< -.17	.00	sD
9	193369-A4		1.00	100.00	4.00	7.51	22.30	6.86	19.70	.65	< .00	< .10	sDgDgT
10	193369-A5		1.00	300.00	4.00	7.46	21.70	6.76	19.70	.70	< .05	.00	sD
11	193369-A5		1.00	200.00	4.00	7.41	22.10	6.78	19.60	.63	< -.03	.00	sD
12	193369-A5		1.00	100.00	4.00	7.56	22.20	6.92	19.70	.64	< -.03	< .05	sDgDgT
13	620-2237-B1		2.00	100.00	4.00	7.49	22.00	.21	20.20	7.28	> 39.78	.00	sF
14	620-2237-B1		2.00	50.00	4.00	7.07	22.20	.16	19.80	6.91	> 75.11	.00	sF
15	620-2237-B1		2.00	25.00	4.00	7.41	22.30	2.73	19.70	4.68	96.70	.00	
16	620-2237-B1		2.00	10.00	4.00	7.60	22.20	5.43	19.70	2.17	91.16	.00	
17	620-2237-B1		2.00	5.00	4.00	7.67	22.20	6.38	19.80	1.29	< 76.72	.00	sD
18	620-2237-B1		2.00	3.00	4.00	7.71	22.20	6.59	19.70	1.12	< 93.87	93.93	sDgT
19	620-2239-B1		2.00	100.00	4.00	7.57	22.10	.20	19.90	7.37	> 40.32	.00	sF
20	620-2239-B1		2.00	50.00	4.00	7.27	22.10	1.54	19.90	5.73	60.95	.00	
21	620-2239-B1		2.00	25.00	4.00	7.57	22.10	3.95	20.00	3.62	71.26	.00	
22	620-2239-B1		2.00	10.00	4.00	7.72	22.10	5.77	19.90	1.95	< 77.96	.00	sD

12/23/2021

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Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
23	620-2239-B1		2.00	5.00	4.00	7.72	22.10	6.45	20.00	1.27	< 74.32	.00	sD
24	620-2239-B1		2.00	3.00	4.00	7.72	22.10	6.69	20.10	1.03	< 75.87	66.11 / 12	sDgT

5.509

12/23/2021

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608699

Operator: SRW

Test America Buffalo
PC-BOD Initial Report

Start Date: 12/13/2021

Start Time: 7:56 PM

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
1	1	Rinse		1.00	.00	.00	.00	7.71	22.60
1	2	Rinse		1.00	.00	.00	.00	7.82	22.50
1	3	Rinse		1.00	.00	.00	.00	7.82	22.50
1	4	Rinse		1.00	.00	.00	.00	7.80	22.50
1	5	Blank		1.00	.00	.00	.00	7.72	22.50
1	6	Seed		1.00	.00	20.00	.00	7.34	22.10
1	7	Seed		1.00	.00	20.00	.00	7.55	22.10
1	8	Seed		1.00	.00	20.00	.00	7.65	22.00
1	9	Check		1.00	6.00	4.00	.00	7.82	22.30
1	10	Check		1.00	6.00	4.00	.00	7.91	22.20
1	11	Check		1.00	6.00	4.00	.00	7.90	22.30
1	12	192991-A1		50.00	100.00	4.00	.00	7.34	22.40
1	13	192991-A1		50.00	50.00	4.00	.00	7.73	22.40
1	14	192991-A1		50.00	25.00	4.00	.00	7.89	22.30
1	15	192991-A1		50.00	10.00	4.00	.00	7.91	22.30
1	16	192991-A1		50.00	5.00	4.00	.00	7.94	22.30
1	17	192991-A1		50.00	3.00	4.00	.00	7.97	22.30
1	18	192991-A1-DISS		50.00	100.00	4.00	.00	7.38	22.40
1	19	192991-A1-DISS		50.00	50.00	4.00	.00	7.74	22.40
1	20	192991-A1-DISS		50.00	25.00	4.00	.00	7.90	22.30
1	21	192991-A1-DISS		50.00	10.00	4.00	.00	7.95	22.30

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
1	22	192991-A1-DISS		50.00	5.00	4.00	.00	7.98	22.20
1	23	192991-A1-DISS		50.00	3.00	4.00	.00	7.98	22.20
1	24	193173-A1		500.00	100.00	4.00	.00	7.45	22.20
2	1	193173-A1		500.00	50.00	4.00	.00	7.86	22.20
2	2	193173-A1		500.00	25.00	4.00	.00	7.70	22.20
2	3	193173-A1		500.00	10.00	4.00	.00	7.69	22.20
2	4	193173-A1		500.00	5.00	4.00	.00	7.78	22.20
2	5	193173-A1		500.00	3.00	4.00	.00	7.84	22.20
2	6	193173-A2		50.00	100.00	4.00	.00	7.48	22.20
2	7	193173-A2		50.00	50.00	4.00	.00	7.79	22.20
2	8	193173-A2		50.00	25.00	4.00	.00	7.83	22.20
2	9	193173-A2		50.00	10.00	4.00	.00	7.85	22.30
2	10	193173-A2		50.00	5.00	4.00	.00	7.88	22.20
2	11	193173-A2		50.00	3.00	4.00	.00	7.89	22.20
2	12	193336-C5		1.00	100.00	4.00	.00	7.81	22.10
2	13	193336-C5		1.00	50.00	4.00	.00	7.23	21.80
2	14	193336-C5		1.00	25.00	4.00	.00	8.03	21.80
2	15	193336-C5		1.00	10.00	4.00	.00	7.74	22.10
2	16	193336-C5		1.00	5.00	4.00	.00	7.89	22.10
2	17	193336-C5		1.00	3.00	4.00	.00	7.89	22.20
2	18	193336-C6		1.00	100.00	4.00	.00	7.54	22.00
2	19	193336-C6		1.00	50.00	4.00	.00	7.59	22.10
2	20	193336-C6		1.00	25.00	4.00	.00	7.82	22.10
2	21	193336-C6		1.00	10.00	4.00	.00	7.86	22.20
2	22	193336-C6		1.00	5.00	4.00	.00	7.87	22.10

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
2	23	193336-C6		1.00	3.00	4.00	.00	7.87	22.20
2	24	193336-C7		1.00	300.00	4.00	.00	7.49	22.00
3	1	193336-C7		1.00	200.00	4.00	.00	7.88	22.30
3	2	193336-C7		1.00	100.00	4.00	.00	7.73	22.50
3	3	193362-B1		2.00	100.00	4.00	.00	7.71	22.20
3	4	193362-B1		2.00	50.00	4.00	.00	7.39	22.20
3	5	193362-B1		2.00	25.00	4.00	.00	7.76	22.30
3	6	193362-B1		2.00	10.00	4.00	.00	7.90	22.20
3	7	193362-B1		2.00	5.00	4.00	.00	7.90	22.30
3	8	193362-B1		2.00	3.00	4.00	.00	7.92	22.30
3	9	193362-B1-DU		2.00	10.00	4.00	.00	7.83	22.40
3	10	193368-A1		1.00	100.00	4.00	.00	7.77	22.20
3	11	193368-A1		1.00	50.00	4.00	.00	7.90	22.10
3	12	193368-A1		1.00	25.00	4.00	.00	7.77	22.10
3	13	193368-A1		1.00	10.00	4.00	.00	7.71	22.20
3	14	193368-A1		1.00	5.00	4.00	.00	7.73	22.10
3	15	193368-A1		1.00	3.00	4.00	.00	7.70	22.20
3	16	193368-A2		1.00	100.00	4.00	.00	7.65	22.00
3	17	193368-A2		1.00	50.00	4.00	.00	7.66	22.10
3	18	193368-A2		1.00	25.00	4.00	.00	7.63	22.30
3	19	193368-A2		1.00	10.00	4.00	.00	7.63	22.30
3	20	193368-A2		1.00	5.00	4.00	.00	7.62	22.30
3	21	193368-A2		1.00	3.00	4.00	.00	7.62	22.30
3	22	193369-A1		1.00	300.00	4.00	.00	7.62	21.80
3	23	193369-A1		1.00	200.00	4.00	.00	7.56	22.00

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
3	24	193369-A1		1.00	100.00	4.00	.00	7.63	22.10
4	1	193369-A2		1.00	300.00	4.00	.00	7.42	22.00
4	2	193369-A2		1.00	200.00	4.00	.00	7.69	22.30
4	3	193369-A2		1.00	100.00	4.00	.00	7.06	22.50
4	4	193369-A3		1.00	300.00	4.00	.00	7.43	22.00
4	5	193369-A3		1.00	200.00	4.00	.00	7.34	22.20
4	6	193369-A3		1.00	100.00	4.00	.00	7.50	22.40
4	7	193369-A4		1.00	300.00	4.00	.00	7.57	22.00
4	8	193369-A4		1.00	200.00	4.00	.00	7.43	22.20
4	9	193369-A4		1.00	100.00	4.00	.00	7.51	22.30
4	10	193369-A5		1.00	300.00	4.00	.00	7.46	21.70
4	11	193369-A5		1.00	200.00	4.00	.00	7.41	22.10
4	12	193369-A5		1.00	100.00	4.00	.00	7.56	22.20
4	13	620-2237-B1		2.00	100.00	4.00	.00	7.49	22.00
4	14	620-2237-B1		2.00	50.00	4.00	.00	7.07	22.20
4	15	620-2237-B1		2.00	25.00	4.00	.00	7.41	22.30
4	16	620-2237-B1		2.00	10.00	4.00	.00	7.60	22.20
4	17	620-2237-B1		2.00	5.00	4.00	.00	7.67	22.20
4	18	620-2237-B1		2.00	3.00	4.00	.00	7.71	22.20
4	19	620-2239-B1		2.00	100.00	4.00	.00	7.57	22.10
4	20	620-2239-B1		2.00	50.00	4.00	.00	7.27	22.10
4	21	620-2239-B1		2.00	25.00	4.00	.00	7.57	22.10
4	22	620-2239-B1		2.00	10.00	4.00	.00	7.72	22.10
4	23	620-2239-B1		2.00	5.00	4.00	.00	7.72	22.10
4	24	620-2239-B1		2.00	3.00	4.00	.00	7.72	22.10

BOD BENCH SHEET

BATCH # 608699

ANALYST: SRW
DATE: 12/13/21

	SAMPLE ID	SAMPLE TEMP	SAMPLE pH	DILUTION FACTOR	SAMPLE RANGE	BOTTLE NUMBERS	CHLORINE
	192994-A1	22.2	9.37 / 7.19	50x	100-3	12-17	0
	↓ Filtrd	22.1	4.36 / 7.14	↓	↓	18-23	↓
	193173-A1	18.1	5.45 / 7.03	500x	↓	24-29	↓
	↓ A2	18.8	4.52 / 7.16	50x	↓	30-35	↓
	193336-C5	19.5	6.06	1x	↓	36-41	↓
	↓ C6	20.7	7.62	↓	↓	42-47	↓
	↓ C7	21.0	6.90	↓	300-100	48-50	↓
	193362-B1	22.1	7.14	2x	100-3	51-56	↓
DU ↓	~~193588-A1~~	↓	↓	↓	10	57	↓
193368A1	~~↓ A2~~	22.2	6.96	1x	100-3	58-63	↓
↓	A2	22.2	7.04	↓	↓	64-69	↓
	193389-A1	22.3	7.45	↓	300-100	70-72	↓
	↓ A2	22.2	6.05	↓	↓	73-75	↓
	A3	22.2	6.26	↓	↓	76-78	↓
	A4	22.2	7.50	↓	↓	79-81	↓
	↓ A5	22.2	7.10	↓	↓	82-84	↓
620	2237-B1	22.2	6.76	2x	100-3	85-90	↓
	2239-B1	22.3	6.86	↓	↓	91-96	↓

BATCH # 608965 / 608987

Instrument # A

SRF # 57496

TOC Wheel Worksheet

Method 5310

File Name 20211214A

	Sample ID	Dil	pH	Comment
1	Rinse			
2	CCV			
3	CCB			
4	MB			
5	LCS			
6	193335-P-1			
7	-Q-1 MS			
8	-Q-1 MSD			> SPLIT
9	193335-P-2			
10	-Q-2 INF			
11	-P-3			
12	P-4			
13	P-5			
14	CCV			
15	CCB			
16	193335-P-6			
17	193181-G-3	10X		4 mL > 40 mL
18	193336-Y-1			
19	Y-2	4X		10 mL > 40 mL
20	Y-3	4X		
21	Y-5	4X		
22	Y-6	4X		
23	Y-7			
24	193337-Q-1			
25	-Q-2			
26	CCV			
27	CCB			
28	MB			
29	LCS			
30	193369-P-1			
31	Q-1 MS			
32	Q-1 MSD			
33	P-2			
34	P-3			
35	P-4			
36	P-5			
37	193194-H-2			
38	CCV			
39	CCB			
40	193194-H-3			
41	H-4			
42	H-5			
43	H-6			
44	H-7			
45	H-8			
46	H-9			

	Sample ID	Dil	pH	Comment
47	193194-H-10			
48	H-12			
49	193195-F-1			
50	CCV			
51	CCB			
52	MB			
53	LCS			
54	193195-H-2			
55	I-2 MS			> SPLIT
56	I-2 MSD			
57	193388-G-1	8		5mL to 40mL
58	180-130740-F-1			
59	F-2			
60	F-3			
61	F-4			
62	CCV			
63	CCB			
64	180-130740-F-5			
65	F-6			
66	F-7			
67	193245-E-1			
68	E-2			
69	E-3			
70				
71				
72				
73				
74	CCV			
75	CCB			
76	MB			
77	LCS			
78				
79				
80				
81				
82				
83				
84				
85				
86	CCV			
87	CCB			

Date 12/14/21

Analyst JV

TIC 6503246

MS 6783095

CCV 6809848

LCS 6809849

All pH <2 JV

pipette (1000 uL) M430726

acid 6775594

sodium persulfate 6783193

phosphoric acid 6782760

BF-WC-TOCWW-016 Rev.1 8/7/2019

User ID:toc Name:Total Organic Carbon
Title:Mr Dept:OIC-TOC

Calibration - Quick View -TOC

Revision: 1-20211122cal - Nov 22, 2021; 12-33-57 PM
Modified By: toc
Date Created: 2021/11/22; 12:33 PM
Last Modified: 2021/11/22; 03:24 PM
Last Calibrated: 2021/11/22; 03:11 PM

RF(ugC/k-cnt): 0.3748
R2: 0.9988
Reagent Blank(cts): 1,449
Offset Area(cts): 2,403
Offset Mass(ugC): -0.90

0-450 ppm cf 0.483 MDL

Std #	Conc (PPM)	Volume (mL)	# Reps	Area	Std. Dev	%RSD	Date Analysed
RW	0.000	2.000	2	2,352	44	1.87	2021-11-22; 01:34PM
1	1.000	2.000	2	8,710	262	3.01	2021-11-22; 01:49PM
2	2.000	2.000	2	14,357	265	1.85	2021-11-22; 02:04PM
3	5.000	2.000	2	30,522	230	0.75	2021-11-22; 02:19PM
4	10.000	2.000	2	58,431	1,051	1.80	2021-11-22; 02:35PM
5	50.000	2.000	2	275,256	32	0.01	2021-11-22; 02:50PM
6	100.000	2.000	2	525,050	17,144	3.27	2021-11-22; 03:05PM

ICV
ICB > in batch 606308

stds 6747760

$(NaSO_4)_2$ 6737363

H_3PO_4 6691875

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
2	Rinse	12/14/2021 4:08:33PM	1	2201	0.000	0.000
		12/14/2021 4:13:56PM	2	2069	0.000	0.000
			Avg	2135	0.000	0.000
			Std. Dev	94		
			%RSD	4.38		
3	CCV	12/14/2021 4:23:11PM	1	344445	128.205	64.103
		12/14/2021 4:28:59PM	2	335080	124.695	62.347
			Avg	339762	126.450	63.225
			Std. Dev	6622		
			%RSD	1.95		
4	CCB	12/14/2021 4:38:45PM	1	2543	0.052	0.026
		12/14/2021 4:44:38PM	2	2840	0.164	0.082
			Avg	2691	0.110	0.054
			Std. Dev	210		
			%RSD	7.82		
5	MB	12/14/2021 4:53:24PM	1	1693	0.000	0.000
		12/14/2021 4:59:52PM	2	2187	0.000	0.000
			Avg	1940	0.000	0.000
			Std. Dev	349		
			%RSD	18.01		
6	LCS	12/14/2021 5:09:02PM	1	335182	124.733	62.366
		12/14/2021 5:14:46PM	2	344495	128.224	64.112
			Avg	339838	126.480	63.239
			Std. Dev	6585		
			%RSD	1.94		
7	480-193335-P-1	12/14/2021 5:24:04PM	1	4753	0.881	0.440
		12/14/2021 5:30:26PM	2	5818	1.280	0.640
			Avg	5285	1.080	0.540
			Std. Dev	753		
			%RSD	14.25		
8	480-193335-Q-1 ms	12/14/2021 5:39:07PM	1	152053	56.092	28.046
		12/14/2021 5:45:01PM	2	155620	57.429	28.715
			Avg	153837	56.760	28.381
			Std. Dev	2522		
			%RSD	1.64		
9	480-193335-Q-1 msd	12/14/2021 5:54:22PM	1	154154	56.880	28.440
		12/14/2021 6:00:14PM	2	156301	57.684	28.842
			Avg	155228	57.280	28.641
			Std. Dev	1518		
			%RSD	0.98		
10	480-193335-P-2	12/14/2021 6:09:45PM	1	4646	0.841	0.420
		12/14/2021 6:16:09PM	2	5438	1.138	0.569

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	5042	0.990	0.495
			Std. Dev	560		
			%RSD	11.11		
11	480-193335-Q-2 inf	12/14/2021 6:24:53PM	1	5539	1.175	0.588
		12/14/2021 6:30:55PM	2	6037	1.362	0.681
			Avg	5788	1.270	0.635
			Std. Dev	352		
			%RSD	6.08		
12	480-193335-P-3	12/14/2021 6:40:06PM	1	4902	0.937	0.468
		12/14/2021 6:46:43PM	2	5241	1.064	0.532
			Avg	5072	1.000	0.500
			Std. Dev	240		
			%RSD	4.73		
13	480-193335-P-4	12/14/2021 6:55:27PM	1	31179	10.786	5.393
		12/14/2021 7:01:23PM	2	32561	11.304	5.651
			Avg	31870	11.040	5.522
			Std. Dev	977		
			%RSD	3.07		
14	480-193335-P-5	12/14/2021 7:11:25PM	1	5077	1.002	0.501
		12/14/2021 7:17:04PM	2	5850	1.292	0.645
			Avg	5464	1.150	0.573
			Std. Dev	546		
			%RSD	10.00		
15	CCV	12/14/2021 7:26:34PM	1	334976	124.656	62.328
		12/14/2021 7:32:15PM	2	338501	125.977	62.989
			Avg	336738	125.320	62.659
			Std. Dev	2493		
			%RSD	0.74		
16	CCB	12/14/2021 7:42:05PM	1	2298	0.000	0.000
		12/14/2021 7:47:57PM	2	3192	0.296	0.148
			Avg	2745	0.150	0.074
			Std. Dev	632		
			%RSD	23.03		
17	480-193335-P-6	12/14/2021 7:56:55PM	1	3586	0.444	0.222
		12/14/2021 8:03:12PM	2	4455	0.769	0.385
			Avg	4020	0.610	0.304
			Std. Dev	614		
			%RSD	15.27		
18	480-193131-G-3^10	12/14/2021 8:12:13PM	1	160531	59.270	29.635
		12/14/2021 8:18:08PM	2	163259	60.292	30.146
			Avg	161895	59.780	29.891
			Std. Dev	1929		
			%RSD	1.19		

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
19	480-193336-Y-1	12/14/2021 8:27:20PM	1	57208	20.542	10.271
		12/14/2021 8:33:19PM	2	60871	21.915	10.958
			Avg	59040	21.230	10.615
			Std. Dev	2590		
			%RSD	4.39		
20	480-193336-Y-2 ^4	12/14/2021 8:43:13PM	1	289371	107.562	53.780
		12/14/2021 8:49:05PM	2	289220	107.505	53.753
			Avg	289295	107.530	53.766
			Std. Dev	107		
			%RSD	0.04		
21	480-193336-Y-3^4	12/14/2021 8:58:31PM	1	133501	49.138	24.569
		12/14/2021 9:04:25PM	2	139434	51.362	25.681
			Avg	136467	50.250	25.125
			Std. Dev	4195		
			%RSD	3.07		
22	480-193336-Y-5^4	12/14/2021 9:13:50PM	1	14178	4.413	2.207
		12/14/2021 9:19:44PM	2	14569	4.560	2.279
			Avg	14373	4.490	2.243
			Std. Dev	276		
			%RSD	1.92		
23	480-193336-Y-6^4	12/14/2021 9:29:11PM	1	191665	70.940	35.470
		12/14/2021 9:35:03PM	2	193142	71.493	35.747
			Avg	192404	71.220	35.608
			Std. Dev	1044		
			%RSD	0.54		
24	480-193336-Y-7	12/14/2021 9:44:26PM	1	32280	11.199	5.599
		12/14/2021 9:50:04PM	2	32401	11.244	5.622
			Avg	32341	11.220	5.610
			Std. Dev	86		
			%RSD	0.26		
25	480-193337-Q-1	12/14/2021 9:59:51PM	1	5006	0.976	0.488
		12/14/2021 10:05:44PI	2	5154	1.031	0.516
			Avg	5080	1.000	0.502
			Std. Dev	104		
			%RSD	2.06		
26	480-193337-Q-2	12/14/2021 10:15:11PI	1	4927	0.946	0.473
		12/14/2021 10:21:07PI	2	5149	1.029	0.515
			Avg	5038	0.990	0.494
			Std. Dev	157		
			%RSD	3.12		
27	CCV	12/14/2021 10:30:16PI	1	337676	125.668	62.834
		12/14/2021 10:36:01PI	2	345399	128.563	64.281

Denotes First Failed Samples

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	341537	127.120	63.558
			Std. Dev	5461		
			%RSD	1.60		
28	CCB	12/14/2021 10:45:46PI	1	2712	0.116	0.058
		12/14/2021 10:51:40PI	2	2871	0.175	0.088
			Avg	2791	0.150	0.073
			Std. Dev	113		
			%RSD	4.03		
29	MB	12/14/2021 11:01:07PI	1	2328	0.000	0.000
		12/14/2021 11:06:58PI	2	2399	0.000	0.000
			Avg	2363	0.000	0.000
			Std. Dev	50		
			%RSD	2.12		
30	LCS	12/14/2021 11:16:12PI	1	334593	124.512	62.256
		12/14/2021 11:22:05PI	2	347864	129.486	64.743
			Avg	341229	127.000	63.499
			Std. Dev	9384		
			%RSD	2.75		
31	480-193369-P-1	12/14/2021 11:31:45PI	1	5124	1.020	0.510
		12/14/2021 11:37:37PI	2	5720	1.243	0.622
			Avg	5422	1.130	0.566
			Std. Dev	422		
			%RSD	7.78		
32	480-193369-Q-1 ms	12/14/2021 11:46:24PI	1	149852	55.267	27.634
		12/14/2021 11:52:20PI	2	153040	56.462	28.231
			Avg	151446	55.860	27.933
			Std. Dev	2254		
			%RSD	1.49		
33	480-193369-Q-1 msd	12/15/2021 12:01:47AI	1	148521	54.768	27.384
		12/15/2021 12:07:39AI	2	151644	55.939	27.969
			Avg	150082	55.350	27.677
			Std. Dev	2208		
			%RSD	1.47		
34	480-193369-P-2	12/15/2021 12:17:04AI	1	42058	14.864	7.432
		12/15/2021 12:23:02AI	2	42646	15.084	7.542
			Avg	42352	14.970	7.487
			Std. Dev	415		
			%RSD	0.98		
35	480-193369-P-3	12/15/2021 12:32:28AI	1	26189	8.916	4.458
		12/15/2021 12:38:15AI	2	27810	9.523	4.762
			Avg	26999	9.220	4.610
			Std. Dev	1146		
			%RSD	4.24		

Instrument ID: A547730578 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
36	480-193369-P-4	12/15/2021 12:47:38AM	1	3530	0.422	0.211
		12/15/2021 12:54:04AM	2	3550	0.430	0.215
			Avg	3540	0.430	0.213
			Std. Dev	15		
			%RSD	0.41		
37	480-193369-P-5	12/15/2021 1:02:56AM	1	3299	0.336	0.167
		12/15/2021 1:09:13AM	2	3978	0.590	0.295
			Avg	3639	0.460	0.231
			Std. Dev	480		
			%RSD	13.20		
38	480-193194-H-2	12/15/2021 1:18:27AM	1	11242	3.313	1.657
		12/15/2021 1:24:47AM	2	11933	3.572	1.786
			Avg	11587	3.440	1.722
			Std. Dev	489		
			%RSD	4.22		
39	CCV	12/15/2021 1:34:11AM	1	333406	124.067	62.034
		12/15/2021 1:39:55AM	2	348500	129.725	64.862
			Avg	340953	126.900	63.448
			Std. Dev	10673		
			%RSD	3.13		
40	CCB	12/15/2021 1:49:48AM	1	2621	0.082	0.041
		12/15/2021 1:55:40AM	2	2664	0.098	0.049
			Avg	2643	0.090	0.045
			Std. Dev	30		
			%RSD	1.14		
41	480-193194-H-3	12/15/2021 2:04:35AM	1	13625	4.206	2.103
		12/15/2021 2:10:38AM	2	15006	4.724	2.361
			Avg	14316	4.470	2.232
			Std. Dev	977		
			%RSD	6.82		
42	480-193194-H-4	12/15/2021 2:19:40AM	1	16461	5.269	2.635
		12/15/2021 2:25:40AM	2	17745	5.751	2.875
			Avg	17103	5.510	2.755
			Std. Dev	908		
			%RSD	5.31		
43	480-193194-H-5	12/15/2021 2:35:03AM	1	30009	10.347	5.174
		12/15/2021 2:40:58AM	2	31166	10.781	5.391
			Avg	30588	10.560	5.283
			Std. Dev	819		
			%RSD	2.68		
44	480-193194-H-6	12/15/2021 2:50:21AM	1	30248	10.437	5.218
		12/15/2021 2:56:18AM	2	30823	10.652	5.326

User ID:toc Name: Total Organic Carbon
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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	30535	10.540	5.272
			Std. Dev	407		
			%RSD	1.33		
45	480-193194-H-7	12/15/2021 3:05:53AM	1	28558	9.804	4.902
		12/15/2021 3:11:44AM	2	29676	10.222	5.111
			Avg	29117	10.010	5.006
			Std. Dev	790		
			%RSD	2.71		
46	480-193194-H-8	12/15/2021 3:21:13AM	1	29448	10.137	5.069
		12/15/2021 3:27:09AM	2	29792	10.266	5.133
			Avg	29620	10.200	5.101
			Std. Dev	243		
			%RSD	0.82		
47	480-193194-H-9	12/15/2021 3:36:29AM	1	32808	11.396	5.698
		12/15/2021 3:42:22AM	2	34396	11.992	5.996
			Avg	33602	11.690	5.847
			Std. Dev	1123		
			%RSD	3.34		
48	480-193194-H-10	12/15/2021 3:51:48AM	1	30952	10.701	5.350
		12/15/2021 3:57:44AM	2	32153	11.151	5.576
			Avg	31553	10.930	5.463
			Std. Dev	849		
			%RSD	2.69		
49	480-193194-H-12	12/15/2021 4:07:08AM	1	17031	5.483	2.741
		12/15/2021 4:12:57AM	2	17698	5.733	2.867
			Avg	17364	5.610	2.804
			Std. Dev	472		
			%RSD	2.72		
50	480-193195-I-1	12/15/2021 4:22:20AM	1	17024	5.480	2.740
		12/15/2021 4:28:20AM	2	18990	6.217	3.109
			Avg	18007	5.850	2.924
			Std. Dev	1390		
			%RSD	7.72		
51	CCV	12/15/2021 4:38:09AM	1	340523	126.735	63.367
		12/15/2021 4:43:56AM	2	340062	126.562	63.280
			Avg	340292	126.650	63.324
			Std. Dev	326		
			%RSD	0.10		
52	CCB	12/15/2021 4:53:43AM	1	2448	0.017	0.008
		12/15/2021 4:59:36AM	2	2533	0.049	0.024
			Avg	2491	0.030	0.016
			Std. Dev	61		
			%RSD	2.43		

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
53	MB	12/15/2021 5:09:06AM	1	2055	0.000	0.000
		12/15/2021 5:14:55AM	2	2127	0.000	0.000
			Avg	2091	0.000	0.000
			Std. Dev	51		
			%RSD	2.43		
54	LCS	12/15/2021 5:24:11AM	1	344159	128.098	64.049
		12/15/2021 5:30:00AM	2	340677	126.793	63.396
			Avg	342418	127.450	63.723
			Std. Dev	2462		
			%RSD	0.72		
55	480-193195-H-2	12/15/2021 5:39:46AM	1	11287	3.330	1.665
		12/15/2021 5:45:41AM	2	12460	3.770	1.885
			Avg	11874	3.550	1.775
			Std. Dev	829		
			%RSD	6.98		
56	480-193195-I-2 ms	12/15/2021 5:54:25AM	1	156382	57.715	28.857
		12/15/2021 6:00:20AM	2	157125	57.993	28.997
			Avg	156753	57.850	28.927
			Std. Dev	526		
			%RSD	0.34		
57	480-193195-I-2 msd	12/15/2021 6:09:48AM	1	154815	57.127	28.564
		12/15/2021 6:15:44AM	2	157562	58.157	29.079
			Avg	156189	57.640	28.822
			Std. Dev	1943		
			%RSD	1.24		
58	480-193388-G-1^8	12/15/2021 6:25:53AM	1	226965	84.171	42.085
		12/15/2021 6:31:47AM	2	253078	93.958	46.979
			Avg	240021	89.060	44.532
			Std. Dev	18464		
			%RSD	7.69		
59	180-130740-I-1	12/15/2021 6:41:18AM	1	12472	3.774	1.886
		12/15/2021 6:47:11AM	2	12738	3.874	1.937
			Avg	12605	3.820	1.912
			Std. Dev	189		
			%RSD	1.50		
60	180-130740-I-2	12/15/2021 6:56:43AM	1	13577	4.188	2.094
		12/15/2021 7:02:38AM	2	14654	4.592	2.296
			Avg	14115	4.390	2.195
			Std. Dev	761		
			%RSD	5.39		
61	180-130740-I-3	12/15/2021 7:12:08AM	1	18023	5.855	2.927
		12/15/2021 7:17:32AM	2	18754	6.129	3.064

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	18389	5.990	2.996
			Std. Dev	517		
			%RSD	2.81		
62	180-130740-I-4	12/15/2021 7:27:35AM	1	8075	2.126	1.062
		12/15/2021 7:33:35AM	2	9006	2.475	1.237
			Avg	8540	2.300	1.150
			Std. Dev	658		
			%RSD	7.70		
63	CCV	12/15/2021 7:42:45AM	1	332375	123.681	61.840
		12/15/2021 7:48:30AM	2	348199	129.612	64.806
			Avg	340287	126.650	63.323
			Std. Dev	11189		
			%RSD	3.29		
64	CCB	12/15/2021 7:58:27AM	1	2527	0.047	0.023
		12/15/2021 8:04:20AM	2	2522	0.045	0.022
			Avg	2525	0.050	0.023
			Std. Dev	4		
			%RSD	0.16		
65	180-130740-I-5	12/15/2021 8:13:50AM	1	7010	1.727	0.864
		12/15/2021 8:19:17AM	2	7991	2.094	1.047
			Avg	7501	1.910	0.955
			Std. Dev	693		
			%RSD	9.24		
66	180-130740-I-6	12/15/2021 8:29:16AM	1	9896	2.809	1.404
		12/15/2021 8:34:32AM	2	10382	2.991	1.495
			Avg	10139	2.900	1.449
			Std. Dev	343		
			%RSD	3.39		
67	180-130740-I-7	12/15/2021 8:44:35AM	1	8309	2.214	1.107
		12/15/2021 8:50:08AM	2	8618	2.329	1.165
			Avg	8463	2.270	1.136
			Std. Dev	218		
			%RSD	2.58		
68	480-193245-E-1	12/15/2021 9:00:02AM	1	37144	13.022	6.511
		12/15/2021 9:05:26AM	2	38128	13.391	6.695
			Avg	37636	13.210	6.603
			Std. Dev	696		
			%RSD	1.85		
69	480-193245-E-2	12/15/2021 9:15:07AM	1	6465	1.522	0.761
		12/15/2021 9:20:47AM	2	6976	1.714	0.857
			Avg	6721	1.620	0.809
			Std. Dev	362		
			%RSD	5.38		

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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
70	480-193245-E-3	12/15/2021 9:30:52AM	1	7942	2.076	1.038
		12/15/2021 9:36:18AM	2	8167	2.160	1.080
			Avg	8055	2.120	1.059
			Std. Dev	159		
			%RSD	1.97		
71	CCV	12/15/2021 9:45:57AM	1	334850	124.609	62.304
		12/15/2021 9:51:44AM	2	336764	125.326	62.663
			Avg	335807	124.970	62.484
			Std. Dev	1353		
			%RSD	0.40		
72	CCB	12/15/2021 10:01:46AI	1	2899	0.186	0.093
		12/15/2021 10:07:37AI	2	2470	0.025	0.013
			Avg	2684	0.110	0.053
			Std. Dev	304		
			%RSD	11.31		
73	CCVL	12/15/2021 10:17:09AI	1	8726	2.370	1.184
		12/15/2021 10:23:02AI	2	9356	2.606	1.303
			Avg	9041	2.490	1.243
			Std. Dev	446		
			%RSD	4.93		

Historical Data Summary Report

For Batch 608987

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193245-E-1	MW210A	SM5310_DOC	Dissolved Organic Carbon	Dissolved	mg/L	8	1.0	6.6	☑	2.022 - 6.428	☐	2.56 - 6.6
480-193245-E-2	BW229	SM5310_DOC	Dissolved Organic Carbon	Dissolved	mg/L	8	1.0	0.81	☐	0 - 3.644	☐	0 - 3.48
480-193245-E-3	BW229A	SM5310_DOC	Dissolved Organic Carbon	Dissolved	mg/L	8	1.0	1.1	☐	0 - 2.907	☐	0.352 - 3

Historical Data Summary Report

For Batch 608965

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193194-H-10	MW306	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.5	☐	0 - 8.752	☐	0 - 6.24
480-193194-H-12	MW307	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	2.8	☐	0.031 - 4.044	☐	0.8 - 4.08
480-193194-H-2	MW210	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	1.7	☐	0 - 3.929	☐	0.504 - 4.2
480-193194-H-3	MW211	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	2.2	☐	0 - 3.89	☐	0.88 - 4.08
480-193194-H-4	MW212	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	2.8	☐	0.418 - 3.532	☐	0.88 - 3.24
480-193194-H-5	MW213	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.3	☐	0 - 8.442	☐	0 - 6.12
480-193194-H-6	MW214	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.3	☐	0 - 9.812	☐	0 - 6.96
480-193194-H-7	MW215	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.0	☐	0 - 8.009	☐	0 - 5.76
480-193194-H-8	MW216	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.1	☐	0 - 8.27	☐	0 - 6.12
480-193194-H-9	MW217	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.8	☐	0 - 9.086	☐	0 - 6.72
480-193195-H-2	MW105	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	1.8	☐	0 - 3.688	☐	0.64 - 3.96
480-193195-I-1	MW-102	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	2.9	☐	0.786 - 3.564	☐	1.28 - 3.48
480-193335-P-1	MW-12AA	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.712	☐	0 - 1.44
480-193335-P-1	MW-12AA	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.452	☐	0 - 1.56
480-193335-P-1	MW-12AA	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.712	☐	0 - 1.44
480-193335-P-2	MW-12BBB	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.341	☐	0 - 1.44
480-193335-P-2	MW-12BBB	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.564	☐	0 - 1.68
480-193335-P-2	MW-12BBB	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.452	☐	0 - 1.56
480-193335-P-3	MW-13A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 3.731	☐	0 - 3.72
480-193335-P-3	MW-13A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 4.17	☐	0 - 4.2
480-193335-P-3	MW-13A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 3.965	☐	0 - 3.96
480-193335-P-4	MW-13B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	5.4	☐	0 - 11.919	☐	2.64 - 12.24
480-193335-P-4	MW-13B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	5.7	☐	0 - 11.978	☐	2.72 - 12.48
480-193335-P-4	MW-13B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	5.5	☐	0 - 11.929	☐	2.72 - 12.36
480-193335-P-5	MW-17A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.336	☐	0 - 1.68
480-193335-P-5	MW-17A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.355	☐	0 - 1.8
480-193335-P-5	MW-17A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.355	☐	0 - 1.8
480-193335-P-6	MW-17B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-P-6	MW-17B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-P-6	MW-17B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193336-Y-1	SLC-2A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	10.3	☐	0 - 90.737	☐	0 - 97.44
480-193336-Y-1	SLC-2A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	11.0	☐	0 - 89.963	☐	0 - 96.6
480-193336-Y-1	SLC-2A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	10.6	☐	0 - 90.287	☐	0 - 96.96
480-193336-Y-2 ^4	PLC-2A	5310C	TOC Result 1	Total/NA	mg/L	8	4.0	215	☐	43.46 - 435.29	☐	112.8 - 386.4
480-193336-Y-2 ^4	PLC-2A	5310C	TOC Result 2	Total/NA	mg/L	8	4.0	215	☐	42.816 - 438.934	☐	115.2 - 400.8

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Historical Data Summary Report

For Batch 608965

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193336-Y-2 ^4	PLC-2A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	4.0	215	☐	44.049 - 436.451	☐	116 - 393.6
480-193336-Y-3 ^4	PLC-1B	5310C	TOC Result 1	Total/NA	mg/L	8	4.0	98.3	☑	99.016 - 250.984	☐	93.6 - 242.4
480-193336-Y-3 ^4	PLC-1B	5310C	TOC Result 2	Total/NA	mg/L	8	4.0	103	☐	98.215 - 256.035	☐	96.8 - 242.4
480-193336-Y-3 ^4	PLC-1B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	4.0	101	☐	98.826 - 253.174	☐	95.2 - 242.4
480-193336-Y-5 ^4	SLC-1A	5310C	TOC Result 1	Total/NA	mg/L	8	4.0	8.8	☐	0 - 90.737	☐	0 - 97.44
480-193336-Y-5 ^4	SLC-1A	5310C	TOC Result 2	Total/NA	mg/L	8	4.0	9.1	☐	0 - 89.963	☐	0 - 96.6
480-193336-Y-5 ^4	SLC-1A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	4.0	9.0	☐	0 - 90.287	☐	0 - 96.96
480-193336-Y-6 ^4	PLC-1A	5310C	TOC Result 1	Total/NA	mg/L	8	4.0	142	☐	67.334 - 213.591	☐	70.16 - 206.4
480-193336-Y-6 ^4	PLC-1A	5310C	TOC Result 2	Total/NA	mg/L	8	4.0	143	☐	66.605 - 223.27	☐	70.8 - 214.8
480-193336-Y-6 ^4	PLC-1A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	4.0	142	☐	67.63 - 217.645	☐	70.48 - 210
480-193336-Y-7	LD-1	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	5.6	☐	0 - 21.839	☐	2.32 - 23.76
480-193336-Y-7	LD-1	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	5.6	☐	0 - 22.023	☐	2.48 - 24
480-193336-Y-7	LD-1	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	5.6	☐	0 - 21.934	☐	2.4 - 23.88
480-193337-Q-1	CD-1	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.229	☐	0 - 1.32
480-193337-Q-1	CD-1	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.341	☐	0 - 1.44
480-193337-Q-1	CD-1	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.229	☐	0 - 1.32
480-193337-Q-2	CD-1RA	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.117	☐	0 - 1.2
480-193337-Q-2	CD-1RA	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.117	☐	0 - 1.2
480-193337-Q-2	CD-1RA	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.117	☐	0 - 1.2
480-193369-P-1	MW-1A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.787	☐	0 - 1.92
480-193369-P-1	MW-1A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.787	☐	0 - 1.92
480-193369-P-1	MW-1A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.787	☐	0 - 1.92
480-193369-P-2	MW-2A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	7.4	☐	2.539 - 7.811	☐	3.28 - 8.28
480-193369-P-2	MW-2A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	7.5	☐	2.381 - 8.194	☐	3.2 - 8.76
480-193369-P-2	MW-2A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	7.5	☐	2.445 - 7.98	☐	3.2 - 8.52
480-193369-P-3	MW-2B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	4.5	☐	2.067 - 7.983	☐	2.96 - 8.28
480-193369-P-3	MW-2B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	4.8	☐	1.919 - 8.331	☐	3.04 - 8.76
480-193369-P-3	MW-2B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	4.6	☐	2.011 - 8.114	☐	3.04 - 8.52
480-193369-P-4	MW-1B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.676	☐	0 - 1.8
480-193369-P-4	MW-1B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.887	☐	0 - 1.68
480-193369-P-4	MW-1B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.564	☐	0 - 1.68
480-193369-P-5	DUP MW-1B	5310C	TOC Result 1	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-P-5	DUP MW-1B	5310C	TOC Result 2	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0

Historical Data Summary Report

For Batch 608965

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193369-P-5	DUP MW-1B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	1	1.0	ND	☐	0 - 0	☐	0 - 0
480-193388-G-1 ^8	Leachate	5310C	Total Organic Carbon	Total/NA	mg/L	8	8.0	356	☐	28.371 - 731.379	☐	151.2 - 606

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 609054 Batch Start Date: 11/22/21 19:44 Batch Analyst: Weglarski, Scott R

Batch Method: 310.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Minerals 00024	WC_50ppmALK 00180		
ICV 480-609054/9		310.2		2 mL	2 mL	# mL			
CCB 480-609054/42		310.2		2 mL	2 mL				
CCV 480-609054/43		310.2		2 mL	2 mL		# mL		
MB 480-609054/45		310.2		2 mL	2 mL				
CCB 480-609054/52		310.2		2 mL	2 mL				
CCV 480-609054/53		310.2		2 mL	2 mL		# mL		
LCS 480-609054/54		310.2		2 mL	2 mL		# mL		
MB 480-609054/55		310.2		2 mL	2 mL				
CCB 480-609054/61		310.2		2 mL	2 mL				
CCV 480-609054/62		310.2		2 mL	2 mL		# mL		
CCB 480-609054/116		310.2		2 mL	2 mL				
CCV 480-609054/117		310.2		2 mL	2 mL		# mL		
MB 480-609054/119		310.2		2 mL	2 mL				
CCB 480-609054/124		310.2		2 mL	2 mL				
CCV 480-609054/125		310.2		2 mL	2 mL		# mL		
LCS 480-609054/126		310.2		2 mL	2 mL		# mL		
MB 480-609054/127		310.2		2 mL	2 mL				
CCB 480-609054/136		310.2		2 mL	2 mL				
CCV 480-609054/137		310.2		2 mL	2 mL		# mL		
LCS 480-609054/138		310.2		2 mL	2 mL		# mL		
MB 480-609054/139		310.2		2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 609054 Batch Start Date: 11/22/21 19:44 Batch Analyst: Weglarski, Scott R

Batch Method: 310.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Minerals 00024	WC_50ppmALK 00180		
CCB 480-609054/148		310.2		2 mL	2 mL				
CCV 480-609054/149		310.2		2 mL	2 mL		# mL		
CCB 480-609054/224		310.2		2 mL	2 mL				
CCV 480-609054/225		310.2		2 mL	2 mL		# mL		
MB 480-609054/227		310.2		2 mL	2 mL				
CCB 480-609054/233		310.2		2 mL	2 mL				
CCV 480-609054/234		310.2		2 mL	2 mL		# mL		
LCS 480-609054/235		310.2		2 mL	2 mL		# mL		
MB 480-609054/236		310.2		2 mL	2 mL				
480-193369-K-1	MW-1A	310.2	T	2 mL	2 mL				
480-193369-K-2	MW-2A	310.2	T	2 mL	2 mL				
CCB 480-609054/245		310.2		2 mL	2 mL				
CCV 480-609054/246		310.2		2 mL	2 mL		# mL		
LCS 480-609054/247		310.2		2 mL	2 mL		# mL		
MB 480-609054/248		310.2		2 mL	2 mL				
480-193369-K-3	MW-2B	310.2	T	2 mL	2 mL				
480-193369-K-4	MW-1B	310.2	T	2 mL	2 mL				
480-193369-K-5	DUP MW-1B	310.2	T	2 mL	2 mL				
CCB 480-609054/255		310.2		2 mL	2 mL				
CCV 480-609054/256		310.2		2 mL	2 mL		# mL		

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 609054 Batch Start Date: 11/22/21 19:44 Batch Analyst: Weglarski, Scott R

Batch Method: 310.2 Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608774 Batch Start Date: 12/14/21 10:51 Batch Analyst: Mooney, Ryan J

Batch Method: Distill/CN Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN LCS 250 00233			
MB 480-608774/1		Distill/CN, 335.4		6 mL	6 mL				
LCS 480-608774/2		Distill/CN, 335.4		6 mL	6 mL	6 mL			
480-193369-E-2	MW-2A	Distill/CN, 335.4	T	6 mL	6 mL				
480-193369-E-1	MW-1A	Distill/CN, 335.4	T	6 mL	6 mL				
480-193369-E-3	MW-2B	Distill/CN, 335.4	T	6 mL	6 mL				
480-193369-E-4	MW-1B	Distill/CN, 335.4	T	6 mL	6 mL				
480-193369-E-5	DUP MW-1B	Distill/CN, 335.4	T	6 mL	6 mL				

Batch Notes	
Distillation Start Time	12/14/2021 10:45
Distillation End Time	12/14/2021 11:15
Chlorination Start Time	12/14/2021 10:45
Chlorination End Time	12/14/2021 11:15

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608835 Batch Start Date: 12/14/21 13:11 Batch Analyst: Olson, Jeffrey G

Batch Method: 335.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CCV 01608			
CCV 480-608835/1		335.4		5 mL	5 mL	# mL			
CCB 480-608835/2		335.4		5 mL	5 mL				
MB 480-608774/1-A		335.4		5 mL	5 mL				
LCS 480-608774/2-A		335.4		5 mL	5 mL				
CCV 480-608835/13		335.4		5 mL	5 mL	# mL			
CCB 480-608835/14		335.4		5 mL	5 mL				
480-193369-E-2-A	MW-2A	335.4	T	5 mL	5 mL				
480-193369-E-1-A	MW-1A	335.4	T	5 mL	5 mL				
480-193369-E-3-A	MW-2B	335.4	T	5 mL	5 mL				
480-193369-E-4-A	MW-1B	335.4	T	5 mL	5 mL				
480-193369-E-5-A	DUP MW-1B	335.4	T	5 mL	5 mL				
CCV 480-608835/25		335.4		5 mL	5 mL	# mL			
CCB 480-608835/26		335.4		5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608780 Batch Start Date: 12/14/21 10:50 Batch Analyst: Thomas, Christine L

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	NH3 CCV 01458	WC_NH3_MS 00465		
CCV 480-608780/1		350.1		5 mL	5 mL	# mL			
CCB 480-608780/2		350.1		5 mL	5 mL				
MB 480-608780/3		350.1		5 mL	5 mL				
LCS 480-608780/4		350.1		5 mL	5 mL	# mL			
480-193369-C-1	MW-1A	350.1	T	5 mL	5 mL				
480-193369-C-1 MS	MW-1A	350.1	T	5 mL	5 mL		10 uL		
480-193369-C-3	MW-2B	350.1	T	5 mL	5 mL				
480-193369-C-4	MW-1B	350.1	T	5 mL	5 mL				
CCV 480-608780/13		350.1		5 mL	5 mL	# mL			
CCB 480-608780/14		350.1		5 mL	5 mL				
480-193369-C-5	DUP MW-1B	350.1	T	5 mL	5 mL				
480-193369-C-5 DU	DUP MW-1B	350.1	T	5 mL	5 mL				
480-193369-C-5 MS	DUP MW-1B	350.1	T	5 mL	5 mL		10 uL		
480-193369-C-2 ^5	MW-2A	350.1	T	5 mL	5 mL				
CCV 480-608780/20		350.1		5 mL	5 mL	# mL			
CCB 480-608780/21		350.1		5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608866 Batch Start Date: 12/14/21 16:03 Batch Analyst: Bauer, Katherine E

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TKN1000ppmSTD 00016			
MB 480-608866/1		351.2, 351.2		25 mL	25 mL				
LCS 480-608866/2		351.2, 351.2		25 mL	25 mL	0.0625 mL			
480-193369-C-1	MW-1A	351.2, 351.2	T	25 mL	25 mL				
480-193369-C-2	MW-2A	351.2, 351.2	T	25 mL	25 mL				
480-193369-C-2 MS	MW-2A	351.2, 351.2	T	25 mL	25 mL	0.025 mL			
480-193369-C-3	MW-2B	351.2, 351.2	T	25 mL	25 mL				
480-193369-C-4	MW-1B	351.2, 351.2	T	25 mL	25 mL				
480-193369-C-5	DUP MW-1B	351.2, 351.2	T	25 mL	25 mL				

Batch Notes	
Block Digestor ID	-
Block Digestion Start time	-
Oven, Bath or Block Temperature 1	- Degrees C
Block Digestion End time	-
Oven, Bath or Block Temperature 2	- Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608899 Batch Start Date: 12/15/21 05:20 Batch Analyst: Thomas, Christine L

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TKN CCV 01306				
CCV 480-608899/1		351.2		2 mL	# mL				
CCB 480-608899/2		351.2		2 mL					
MB 480-608866/1-A		351.2		2 mL					
LCS 480-608866/2-A		351.2		2 mL					
CCV 480-608899/5		351.2		2 mL	# mL				
CCB 480-608899/6		351.2		2 mL					
480-193369-C-1-A	MW-1A	351.2	T	2 mL					
CCV 480-608899/16		351.2		2 mL	# mL				
CCB 480-608899/17		351.2		2 mL					
480-193369-C-3-A	MW-2B	351.2	T	2 mL					
480-193369-C-4-A	MW-1B	351.2	T	2 mL					
480-193369-C-5-A	DUP MW-1B	351.2	T	2 mL					
CCV 480-608899/24		351.2		2 mL	# mL				
CCB 480-608899/25		351.2		2 mL					
480-193369-C-2-A	MW-2A	351.2	T	2 mL					
480-193369-C-2-B MS	MW-2A	351.2	T	2 mL					
CCV 480-608899/28		351.2		2 mL	# mL				
CCB 480-608899/29		351.2		2 mL					

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608899 Batch Start Date: 12/15/21 05:20 Batch Analyst: Thomas, Christine L

Batch Method: 351.2 Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 609392 Batch Start Date: 12/17/21 19:30 Batch Analyst: Stone, Chandler S

Batch Method: 410.4 Batch End Date: 12/18/21 13:29

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ChlorideScrn	COD 25 PPM 00082	COD 75 PPM 00045	
CCV 480-609392/2		410.4		2 mL	2 mL	N		2 mL	
CCB 480-609392/3		410.4		2 mL	2 mL	N			
MB 480-609392/4		410.4		2 mL	2 mL	N			
LCS 480-609392/5		410.4		2 mL	2 mL	N	2 mL		
CCV 480-609392/14		410.4		2 mL	2 mL	N		2 mL	
CCB 480-609392/15		410.4		2 mL	2 mL	N			
480-193369-C-1	MW-1A	410.4	T	2 mL	2 mL	N			
480-193369-C-2	MW-2A	410.4	T	2 mL	2 mL	N			
480-193369-C-3	MW-2B	410.4	T	2 mL	2 mL	N			
480-193369-C-4	MW-1B	410.4	T	2 mL	2 mL	N			
480-193369-C-5	DUP MW-1B	410.4	T	2 mL	2 mL	N			
CCV 480-609392/26		410.4		2 mL	2 mL	N		2 mL	
CCB 480-609392/27		410.4		2 mL	2 mL	N			

Batch Notes	
Temperature - Uncorrected - Start	150.8 Degrees C
Temperature - Corrected - Start	150.3 Degrees C
Digestion Start Time	12/17/2021 19:30
Digestion End Time	12/18/2021 04:30
Temperature - Uncorrected - End	150.8 Degrees C
Temperature - Corrected - End	150.3 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608721 Batch Start Date: 12/14/21 05:37 Batch Analyst: Thomas, Christine L

Batch Method: 420.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Phenol ICV 00335	WC_Phenol_CCV 00468		
ICV 480-608721/10		420.4		2 mL	2 mL	# mL			
ICB 480-608721/11		420.4		2 mL	2 mL				
CCV 480-608721/14		420.4		2 mL	2 mL		# mL		
CCB 480-608721/15		420.4		2 mL	2 mL				
MB 480-608721/16		420.4		2 mL	2 mL				
LCS 480-608721/17		420.4		2 mL	2 mL		# mL		
480-193369-F-1	MW-1A	420.4	T	2 mL	2 mL				
480-193369-F-2	MW-2A	420.4	T	2 mL	2 mL				
480-193369-F-4	MW-1B	420.4	T	2 mL	2 mL				
CCV 480-608721/26		420.4		2 mL	2 mL		# mL		
CCB 480-608721/27		420.4		2 mL	2 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608788 Batch Start Date: 12/14/21 09:37 Batch Analyst: Thomas, Christine L

Batch Method: 420.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Phenol ICV 00335	WC_Phenol_CCV 00468	WC_Phenol10W3 01252	
ICV 480-608788/10		420.4		2 mL	2 mL	# mL			
ICB 480-608788/11		420.4		2 mL	2 mL				
CCV 480-608788/14		420.4		2 mL	2 mL		# mL		
CCB 480-608788/15		420.4		2 mL	2 mL				
MB 480-608788/16		420.4		2 mL	2 mL				
LCS 480-608788/17		420.4		2 mL	2 mL		# mL		
480-193369-F-3	MW-2B	420.4	T	2 mL	2 mL				
480-193369-F-3 DU	MW-2B	420.4	T	2 mL	2 mL				
480-193369-F-3 MS	MW-2B	420.4	T	2 mL	2 mL			20 uL	
480-193369-F-5	DUP MW-1B	420.4	T	2 mL	2 mL				
CCV 480-608788/27		420.4		2 mL	2 mL		# mL		
CCB 480-608788/28		420.4		2 mL	2 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 598173 Batch Start Date: 09/28/21 08:55 Batch Analyst: Bauer, Katherine E

Batch Method: 7196A Batch End Date: 09/28/21 09:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	Initial pH	Final pH
IC 480-598173/1		7196A		25 mL	25 mL	0 Absorbance	0 Absorbance	2 SU	2 SU
IC 480-598173/2		7196A		25 mL	25 mL	0 Absorbance	0.008 Absorbance	2 SU	2 SU
IC 480-598173/3		7196A		25 mL	25 mL	0 Absorbance	0.018 Absorbance	2 SU	2 SU
IC 480-598173/4		7196A		25 mL	25 mL	0 Absorbance	0.037 Absorbance	2 SU	2 SU
IC 480-598173/5		7196A		25 mL	25 mL	0 Absorbance	0.079 Absorbance	2 SU	2 SU
IC 480-598173/6		7196A		25 mL	25 mL	0 Absorbance	0.153 Absorbance	2 SU	2 SU
IC 480-598173/7		7196A		25 mL	25 mL	0 Absorbance	0.232 Absorbance	2 SU	2 SU
IC 480-598173/8		7196A		25 mL	25 mL	0 Absorbance	0.306 Absorbance	2 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	0.01 hex 00027	0.02 hex 00027	0.05 hex 00028	0.1 hex 00027	0.2 hex 00029	0.3 hex 00027
IC 480-598173/1		7196A							
IC 480-598173/2		7196A		0.125 mL					
IC 480-598173/3		7196A			0.125 mL				
IC 480-598173/4		7196A				0.125 mL			
IC 480-598173/5		7196A					0.125 mL		
IC 480-598173/6		7196A						0.125 mL	
IC 480-598173/7		7196A							0.125 mL
IC 480-598173/8		7196A							

Lab Sample ID	Client Sample ID	Method Chain	Basis	0.4 hex 00027					
IC 480-598173/1		7196A							
IC 480-598173/2		7196A							
IC 480-598173/3		7196A							
IC 480-598173/4		7196A							
IC 480-598173/5		7196A							
IC 480-598173/6		7196A							
IC 480-598173/7		7196A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 598173 Batch Start Date: 09/28/21 08:55 Batch Analyst: Bauer, Katherine E

Batch Method: 7196A Batch End Date: 09/28/21 09:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	0.4 hex 00027					
IC 480-598173/8		7196A		0.125 mL					

Batch Notes	
Color Reagent ID	-

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608674 Batch Start Date: 12/13/21 14:10 Batch Analyst: Bauer, Matthew J

Batch Method: 7196A Batch End Date: 12/13/21 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	HEX INT STD 00109	
CCV 480-608674/1		7196A		25 mL	25 mL	0.000 Absorbance	0.044 Absorbance	125 uL	
CCB 480-608674/2		7196A		25 mL	25 mL	0.000 Absorbance	0.000 Absorbance		
MB 480-608674/3		7196A		25 mL	25 mL	0.000 Absorbance	0.000 Absorbance		
LCS 480-608674/4		7196A		25 mL	25 mL	0.000 Absorbance	0.041 Absorbance	125 uL	
480-193369-J-1	MW-1A	7196A	T	25 mL	25 mL	0.000 Absorbance	0.000 Absorbance		
480-193369-J-2	MW-2A	7196A	T	25 mL	25 mL	0.000 Absorbance	0.000 Absorbance		
480-193369-J-3	MW-2B	7196A	T	25 mL	25 mL	0.000 Absorbance	0.000 Absorbance		
CCV 480-608674/13		7196A		25 mL	25 mL	0.000 Absorbance	0.043 Absorbance	125 uL	
CCB 480-608674/14		7196A		25 mL	25 mL	0.000 Absorbance	0.000 Absorbance		
480-193369-J-4	MW-1B	7196A	T	25 mL	25 mL	0.000 Absorbance	0.000 Absorbance		
480-193369-J-4 MS	MW-1B	7196A	T	25 mL	25 mL	0.000 Absorbance	0.040 Absorbance	125 uL	
480-193369-J-5	DUP MW-1B	7196A	T	25 mL	25 mL	0.000 Absorbance	0.000 Absorbance		
480-193369-J-5 DU	DUP MW-1B	7196A	T	25 mL	25 mL	0.000 Absorbance	0.000 Absorbance		
CCV 480-608674/19		7196A		25 mL	25 mL	0.000 Absorbance	0.042 Absorbance	125 uL	
CCB 480-608674/20		7196A		25 mL	25 mL	0.000 Absorbance	0.000 Absorbance		

Batch Notes	
Color Reagent ID	6805695

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608673 Batch Start Date: 12/13/21 16:06 Batch Analyst: Bauer, Matthew J

Batch Method: SM 2120B Batch End Date: 12/13/21 16:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	Color Std-2 00020		
CCV 480-608673/1		SM 2120B		1 SU	50 mL	50 mL	3 mL		
CCB 480-608673/2		SM 2120B		5 SU	50 mL	50 mL			
MB 480-608673/3		SM 2120B		5 SU	50 mL	50 mL			
LCS 480-608673/4		SM 2120B		1 SU	50 mL	50 mL	3 mL		
480-193369-J-1	MW-1A	SM 2120B	T	6 SU	50 mL	50 mL			
480-193369-J-2	MW-2A	SM 2120B	T	6 SU	50 mL	50 mL			
480-193369-J-3	MW-2B	SM 2120B	T	6 SU	50 mL	50 mL			
480-193369-J-4	MW-1B	SM 2120B	T	6 SU	50 mL	50 mL			
CCV 480-608673/13		SM 2120B		1 SU	50 mL	50 mL	3 mL		
CCB 480-608673/14		SM 2120B		5 SU	50 mL	50 mL			
480-193369-J-5	DUP MW-1B	SM 2120B	T	6 SU	50 mL	50 mL			
480-193369-J-5 DU	DUP MW-1B	SM 2120B	T	6 SU	50 mL	50 mL			
CCV 480-608673/17		SM 2120B		1 SU	50 mL	50 mL	3 mL		
CCB 480-608673/18		SM 2120B		5 SU	50 mL	50 mL			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 599886 Batch Start Date: 10/11/21 12:37 Batch Analyst: Zahniser, Ian M

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_6ANION_STD 00001				
IC 480-599886/2		300.0		5 mL	2.5 uL				
IC 480-599886/3		300.0		5 mL	10 uL				
IC 480-599886/4		300.0		5 mL	25 uL				
IC 480-599886/5		300.0		5 mL	100 uL				
IC 480-599886/6		300.0		5 mL	250 uL				
IC 480-599886/7		300.0		5 mL	500 uL				
IC 480-599886/8		300.0		5 mL	1000 uL				

Batch Notes	
Filter ID	17201245
Eluent 1 ID	210672425313

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 609280 Batch Start Date: 12/17/21 13:48 Batch Analyst: Zahniser, Ian M

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_6ANION_STD 00003	IC_ANION_LCS_ 00395			
CCV 480-609280/25		300.0		5 mL		5 mL			
CCB 480-609280/26		300.0		5 mL					
LCS 480-609280/27		300.0		5 mL		5 mL			
MB 480-609280/28		300.0		5 mL					
CCV 480-609280/37		300.0		5 mL		5 mL			
CCB 480-609280/38		300.0		5 mL					
480-193369-L-1	MW-1A	300.0	T	1 mL					
480-193369-L-2	MW-2A	300.0	T	1 mL					
480-193369-L-3	MW-2B	300.0	T	1 mL					
480-193369-L-4	MW-1B	300.0	T	1 mL					
480-193369-L-5	DUP MW-1B	300.0	T	1 mL					
480-193369-L-5 MS	DUP MW-1B	300.0	T	1 mL	50 uL				
CCV 480-609280/49		300.0		5 mL		5 mL			
CCB 480-609280/50		300.0		5 mL					

Batch Notes	
Filter ID	17201245
Eluent 1 ID	210982424316

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608837 Batch Start Date: 12/14/21 14:07 Batch Analyst: Debergalis, Paul R

Batch Method: 353.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
480-193369-I-1	MW-1A	353.2	T	5 mL	5 mL				
480-193369-I-2	MW-2A	353.2	T	5 mL	5 mL				
480-193369-I-3	MW-2B	353.2	T	5 mL	5 mL				
480-193369-I-4	MW-1B	353.2	T	5 mL	5 mL				
480-193369-I-5	DUP MW-1B	353.2	T	5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 609236 Batch Start Date: 12/16/21 19:00 Batch Analyst: Weglarski, Scott R

Batch Method: 9038 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Sulf 30ppm 00184	Sulf 30ppm 00185		
ICB 480-609236/9		9038		2 mL	2 mL				
ICV 480-609236/10		9038		2 mL	2 mL		# mL		
CCB 480-609236/160		9038		2 mL	2 mL				
CCV 480-609236/161		9038		2 mL	2 mL	# mL			
MB 480-609236/162		9038		2 mL	2 mL				
LCS 480-609236/163		9038		2 mL	2 mL	# mL			
CCB 480-609236/164		9038		2 mL	2 mL				
CCV 480-609236/165		9038		2 mL	2 mL	# mL			
CCB 480-609236/189		9038		2 mL	2 mL				
CCV 480-609236/190		9038		2 mL	2 mL	# mL			
CCB 480-609236/194		9038		2 mL	2 mL				
CCV 480-609236/195		9038		2 mL	2 mL	# mL			
480-193369-K-1	MW-1A	9038	T	2 mL	2 mL				
480-193369-K-2	MW-2A	9038	T	2 mL	2 mL				
CCB 480-609236/199		9038		2 mL	2 mL				
CCV 480-609236/200		9038		2 mL	2 mL	# mL			
480-193369-K-3	MW-2B	9038	T	2 mL	2 mL				
480-193369-K-4	MW-1B	9038	T	2 mL	2 mL				
480-193369-K-5	DUP MW-1B	9038	T	2 mL	2 mL				
CCB 480-609236/204		9038		2 mL	2 mL				
CCV 480-609236/205		9038		2 mL	2 mL	# mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 609236 Batch Start Date: 12/16/21 19:00 Batch Analyst: Weglarski, Scott R

Batch Method: 9038 Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608781 Batch Start Date: 12/14/21 11:17 Batch Analyst: Olson, Jeffrey G

Batch Method: SM 2540C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	Weight3
MB 480-608781/1		SM 2540C		MB	109.8018 g	100 mL	109.8019 g	109.8021 g	0 g
LCS 480-608781/2		SM 2540C		LCS	108.7280 g	100 mL	108.7808 g	108.7806 g	0 g
480-193369-A-4	MW-1B	SM 2540C	T	18	113.2149 g	100 mL	113.2292 g	113.2292 g	0 g
480-193369-A-5	DUP MW-1B	SM 2540C	T	19	104.8665 g	100 mL	104.8856 g	104.8857 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight4	WeightOne%Diff	WeightTwo%Diff	Weight4OK	Residue	Residue2
MB 480-608781/1		SM 2540C		0 g	Pass No Unit	N/A No Unit	N/A	0.0001 g	0.0003 g
LCS 480-608781/2		SM 2540C		0 g	Pass No Unit	N/A No Unit	N/A	0.0528 g	0.0526 g
480-193369-A-4	MW-1B	SM 2540C	T	0 g	Pass No Unit	N/A No Unit	N/A	0.0143 g	0.0143 g
480-193369-A-5	DUP MW-1B	SM 2540C	T	0 g	Pass No Unit	N/A No Unit	N/A	0.0191 g	0.0192 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue3	Residue4	FinalAmount	CalcMsg	NaCl Std 02 00420	
MB 480-608781/1		SM 2540C		N/A g	N/A g	100 mL	OK		
LCS 480-608781/2		SM 2540C		N/A g	N/A g	100 mL	OK	100 mL	
480-193369-A-4	MW-1B	SM 2540C	T	N/A g	N/A g	100 mL	OK		
480-193369-A-5	DUP MW-1B	SM 2540C	T	N/A g	N/A g	100 mL	OK		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608781 Batch Start Date: 12/14/21 11:17 Batch Analyst: Olson, Jeffrey G

Batch Method: SM 2540C Batch End Date:

Batch Notes	
Nominal Amount Used	100 mL
Balance ID	3
Oven ID - Low Temperature	105-1
Thermometer ID - Low Temperature	105
Date/Time - In	12/14/2021 09:32
Temperature - Start - Uncorrected	105 Celsius
Temperature - Start - Corrected	105 Celsius
Date/Time - Out	12/15/2021 15:32
Temperature - End - Uncorrected	105 Celsius
Temperature - End - Corrected	105 Celsius
Oven ID	180-1
Thermometer ID	180
Weight(WT1) Start Date/Time	12/15/2021 15:32 No Unit
Uncorrected Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Date/Time Out	12/17/2021 08:15
Uncorrected Weight(WT1) Temp Out	180 Celsius
Weight(WT1) Temp Out	180 Celsius
Date/Time - In - CW (WT2)	12/17/2021 09:33
Temperature - Start-CW(WT2) -Uncorrected	180 Celsius
Temperature - Start - CW (WT2) - Correct	180 Celsius
Date/Time - Out - CW (WT2)	12/21/2021 09:45
Temperature - End-CW(WT2) -Uncorrected	180 Celsius
Temperature - End - CW (WT2) - Correct	180 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608941 Batch Start Date: 12/15/21 09:42 Batch Analyst: Laxton, Eric J

Batch Method: SM 2540C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	Weight3
MB 480-608941/1		SM 2540C		MB	112.7578 g	100 mL	112.7583 g	112.7581 g	0 g
LCS 480-608941/2		SM 2540C		LCS	122.2935 g	100 mL	122.3424 g	122.3421 g	0 g
480-193369-A-1	MW-1A	SM 2540C	T	15	107.1639 g	100 mL	107.1876 g	107.1881 g	0 g
480-193369-A-2	MW-2A	SM 2540C	T	16	110.6089 g	100 mL	110.6441 g	110.6439 g	0 g
480-193369-A-3	MW-2B	SM 2540C	T	17	108.6047 g	100 mL	108.6745 g	108.6743 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight4	WeightOne%Diff	WeightTwo%Diff	Weight4OK	Residue	Residue2
MB 480-608941/1		SM 2540C		0 g	Pass No Unit	N/A No Unit	N/A	0.0005 g	0.0003 g
LCS 480-608941/2		SM 2540C		0 g	Pass No Unit	N/A No Unit	N/A	0.0489 g	0.0486 g
480-193369-A-1	MW-1A	SM 2540C	T	0 g	Pass No Unit	N/A No Unit	N/A	0.0237 g	0.0242 g
480-193369-A-2	MW-2A	SM 2540C	T	0 g	Pass No Unit	N/A No Unit	N/A	0.0352 g	0.035 g
480-193369-A-3	MW-2B	SM 2540C	T	0 g	Pass No Unit	N/A No Unit	N/A	0.0698 g	0.0696 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Residue3	Residue4	FinalAmount	CalcMsg	NaCl Std 02 00420	
MB 480-608941/1		SM 2540C		N/A g	N/A g	100 mL	OK		
LCS 480-608941/2		SM 2540C		N/A g	N/A g	100 mL	OK	100 mL	
480-193369-A-1	MW-1A	SM 2540C	T	N/A g	N/A g	100 mL	OK		
480-193369-A-2	MW-2A	SM 2540C	T	N/A g	N/A g	100 mL	OK		
480-193369-A-3	MW-2B	SM 2540C	T	N/A g	N/A g	100 mL	OK		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608941 Batch Start Date: 12/15/21 09:42 Batch Analyst: Laxton, Eric J

Batch Method: SM 2540C Batch End Date:

Batch Notes	
Nominal Amount Used	100 mL
Balance ID	3
Oven ID - Low Temperature	105-1
Thermometer ID - Low Temperature	1
Date/Time - In	12/13/2021 11:43
Temperature - Start - Uncorrected	105 Celsius
Temperature - Start - Corrected	105 Celsius
Date/Time - Out	12/15/2021 08:24
Temperature - End - Uncorrected	105 Celsius
Temperature - End - Corrected	105 Celsius
Oven ID	180-4
Thermometer ID	180
Weight(WT1) Start Date/Time	12/15/2021 08:25 No Unit
Uncorrected Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Date/Time Out	12/15/2021 13:26
Uncorrected Weight(WT1) Temp Out	180 Celsius
Weight(WT1) Temp Out	180 Celsius
Date/Time - In - CW (WT2)	12/15/2021 15:17
Temperature - Start-CW(WT2) -Uncorrected	180 Celsius
Temperature - Start - CW (WT2) - Correct	180 Celsius
Date/Time - Out - CW (WT2)	12/17/2021 08:18
Temperature - End-CW(WT2) -Uncorrected	180 Celsius
Temperature - End - CW (WT2) - Correct	180 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608717 Batch Start Date: 12/13/21 17:57 Batch Analyst: Bauer, Katherine E

Batch Method: SM 4500 Cl- E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC25ppmChlInt 00155			
ICB 480-608717/8		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-608717/236		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-608717/237		SM 4500 Cl- E		2 mL	2 mL	# mL			
MB 480-608717/239		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-608717/245		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-608717/246		SM 4500 Cl- E		2 mL	2 mL	# mL			
LCS 480-608717/247		SM 4500 Cl- E		2 mL	2 mL	# mL			
MB 480-608717/248		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-608717/257		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-608717/258		SM 4500 Cl- E		2 mL	2 mL	# mL			
LCS 480-608717/259		SM 4500 Cl- E		2 mL	2 mL	# mL			
MB 480-608717/260		SM 4500 Cl- E		2 mL	2 mL				
480-193369-K-1	MW-1A	SM 4500 Cl- E	T	2 mL	2 mL				
CCB 480-608717/269		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-608717/270		SM 4500 Cl- E		2 mL	2 mL	# mL			
LCS 480-608717/271		SM 4500 Cl- E		2 mL	2 mL	# mL			
MB 480-608717/272		SM 4500 Cl- E		2 mL	2 mL				
480-193369-K-2	MW-2A	SM 4500 Cl- E	T	2 mL	2 mL				
CCB 480-608717/278		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-608717/279		SM 4500 Cl- E		2 mL	2 mL	# mL			
LCS 480-608717/280		SM 4500 Cl- E		2 mL	2 mL	# mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608717 Batch Start Date: 12/13/21 17:57 Batch Analyst: Bauer, Katherine E

Batch Method: SM 4500 Cl- E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC25ppmChlInt 00155			
MB 480-608717/281		SM 4500 Cl- E		2 mL	2 mL				
480-193369-K-4	MW-1B	SM 4500 Cl- E	T	2 mL	2 mL				
480-193369-K-5	DUP MW-1B	SM 4500 Cl- E	T	2 mL	2 mL				
CCB 480-608717/290		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-608717/291		SM 4500 Cl- E		2 mL	2 mL	# mL			
MB 480-608717/293		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-608717/294		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-608717/295		SM 4500 Cl- E		2 mL	2 mL	# mL			
LCS 480-608717/296		SM 4500 Cl- E		2 mL	2 mL	# mL			
MB 480-608717/297		SM 4500 Cl- E		2 mL	2 mL				
480-193369-K-3	MW-2B	SM 4500 Cl- E	T	2 mL	2 mL				
CCB 480-608717/303		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-608717/304		SM 4500 Cl- E		2 mL	2 mL	# mL			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608699 Batch Start Date: 12/13/21 19:56 Batch Analyst: Weglarski, Scott R

Batch Method: SM 5210B Batch End Date: 12/18/21 11:57

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	ResidualChloCheck	NaSulfiteAmtAdd	InitialTemp	Final pH	InitialAmount
USB 480-608699/1		SM 5210B		n/a SU	0	0 mL	22.8 Celsius	n/a SU	300 mL
LCS 480-608699/2		SM 5210B		n/a SU	0	0 mL	22.8 Celsius	n/a SU	300 mL
480-193369-A-1	MW-1A	SM 5210B	T	7.45 SU	0	0 mL	22.3 Celsius	7.45 SU	300 mL
480-193369-A-2	MW-2A	SM 5210B	T	6.05 SU	0	0 mL	22.2 Celsius	6.05 SU	300 mL
480-193369-A-3	MW-2B	SM 5210B	T	6.26 SU	0	0 mL	22.2 Celsius	6.26 SU	300 mL
480-193369-A-4	MW-1B	SM 5210B	T	7.50 SU	0	0 mL	22.2 Celsius	7.50 SU	300 mL
480-193369-A-5	DUP MW-1B	SM 5210B	T	7.10 SU	0	0 mL	22.2 Celsius	7.10 SU	300 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	GGA 00013				
USB 480-608699/1		SM 5210B		300 mL					
LCS 480-608699/2		SM 5210B		300 mL	6 mL				
480-193369-A-1	MW-1A	SM 5210B	T	300 mL					
480-193369-A-2	MW-2A	SM 5210B	T	300 mL					
480-193369-A-3	MW-2B	SM 5210B	T	300 mL					
480-193369-A-4	MW-1B	SM 5210B	T	300 mL					
480-193369-A-5	DUP MW-1B	SM 5210B	T	300 mL					

Batch Notes	
Seed ID	6561632
Nutrient Buffer Pillow ID	6614223
Sodium Hydroxide ID	6306289
Incubator ID	1
Uncorrected Incubator Temp - Initial	20.5 Celsius
Corrected Incubator Temp - Initial	20.2 Celsius
Uncorrected Incubator Temp - Final	20.6 Celsius
Corrected Incubator Temp - Final	20.3 Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608699 Batch Start Date: 12/13/21 19:56 Batch Analyst: Weglarski, Scott R

Batch Method: SM 5210B Batch End Date: 12/18/21 11:57

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608965 Batch Start Date: 12/14/21 16:08 Batch Analyst: Zahniser, Ian M

Batch Method: SM 5310C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Res1&2RPD	RPDOK	Org carb std 00057	TOC_CCV 00190
CCV 480-608965/26		SM 5310C				2 %	TOC Pass		# mL
CCB 480-608965/27		SM 5310C				41 %	TOC Fail		
MB 480-608965/28		SM 5310C					TOC Pass		
LCS 480-608965/29		SM 5310C				4 %	TOC Pass		
480-193369-P-1	MW-1A	SM 5310C	T			20 %	TOC Fail		
480-193369-Q-1 MS	MW-1A	SM 5310C	T	21.5 mL	22 mL	2 %	TOC Pass	0.5 mL	
480-193369-Q-1 MSD	MW-1A	SM 5310C	T	21.5 mL	22 mL	2 %	TOC Pass	0.5 mL	
480-193369-P-2	MW-2A	SM 5310C	T			1 %	TOC Pass		
480-193369-P-3	MW-2B	SM 5310C	T			7 %	TOC Pass		
480-193369-P-4	MW-1B	SM 5310C	T			2 %	TOC Pass		
480-193369-P-5	DUP MW-1B	SM 5310C	T			55 %	TOC Fail		
CCV 480-608965/38		SM 5310C				4 %	TOC Pass		# mL
CCB 480-608965/39		SM 5310C				18 %	TOC Fail		

Lab Sample ID	Client Sample ID	Method Chain	Basis	TOC_LCS 00187					
CCV 480-608965/26		SM 5310C							
CCB 480-608965/27		SM 5310C							
MB 480-608965/28		SM 5310C							
LCS 480-608965/29		SM 5310C		# mL					
480-193369-P-1	MW-1A	SM 5310C	T						
480-193369-Q-1 MS	MW-1A	SM 5310C	T						
480-193369-Q-1 MSD	MW-1A	SM 5310C	T						
480-193369-P-2	MW-2A	SM 5310C	T						
480-193369-P-3	MW-2B	SM 5310C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193369-1

SDG No.: 193337

Batch Number: 608965 Batch Start Date: 12/14/21 16:08 Batch Analyst: Zahniser, Ian M

Batch Method: SM 5310C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	TOC_LCS 00187					
480-193369-P-4	MW-1B	SM 5310C	T						
480-193369-P-5	DUP MW-1B	SM 5310C	T						
CCV 480-608965/38		SM 5310C							
CCB 480-608965/39		SM 5310C							

Batch Notes	
Acid ID	6775594
Phosphoric Acid ID	6792760
Sodium Persulfate ID	6783103
Pipette/Syringe/Dispenser ID	M43072G

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: K McGrath	Lab PM: Johnson, Orlette S	Carrier Tracking No(s): Syracuse #225	COC No: 480-167798-13274.1
Client Contact: Ms. Kathleen McGrath	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 1 of 2
Company: Cortland Cty Soil & Water Cons District	PWSID:			Job #:
Address: 100 Grange Place Rm 202	Due Date Requested:			
City: Cortland	TAT Requested (days): Normal			
State, Zip: NY, 13045	Compliance Project: Δ Yes Δ No			
Phone: 607-345-4624(Tel)	PO #: Purchase Order not required			
Email: kathleen.mcgrath@cortlandswcd.org	WO #:			
Project Name: Cortland Landfill/ Event Desc: Towslee Landfill - Baseline	Project #: 48009337			
Site: New York	SSOW#:			

SHORT HOLD

480-193337 Chain of Custody

Analysis Requested

Preservation Codes: A - HCl M - Hexane L - EDA Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	350.1, 351.2, 410.4	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb	2120B, 353.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	5310C - Total Organic Carbon	335.4 - Cyanide	420.4_NP - Total Phenolics	Total Number of containe	Special Instructions/Note:
				Preservation Code:			N	S	D	A	N	N	N	N	N	N	A	B	S		
CD-1	12/9/21	11:45	G	Water	N	N	X	X	X	X	X	X		X	X	X	X	X	X		+6010C diss + 7470A dissolved
CD-1RA	12/9/21	11:15	G	Water	N	N	X	X	X	X	X	X		X	X	X	X	X	X		+6010C diss metals + 7470A
MW-1A				Water																	
MW-1B	12/9/21	12:20	G	Water	N	Y	X	X	X	X	X	X		X	X	X	X	X	X		
MW-2A				Water																	
MW-2B				Water																	
MW-3A				Water																	
MW-3B				Water																	
MW-4A				Water																	
MW-5A				Water																	
MW-6A				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	K McGrath	12/9/21 5:00			12/9/21 1700	ES-Syr
2	Relinquished by:	Date/Time: 12-9-21, 1500	Company	Received by:	Date/Time: 12/10/21 1:30	Company TAB
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 2.4, 3.8

Ver: 06/08/2021

12/23/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: K McGrath	Lab PM: Johnson, Orlette S	Carrier Tracking No(s): Syracuse #225	COC No: 480-167798-13274.2
Client Contact: Ms. Kathleen McGrath	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 2 of 2
Company: Cortland Cty Soil & Water Cons District	PWSID:			Job #:
Address: 100 Grange Place Rm 202	Due Date Requested:			
City: Cortland	TAT Requested (days): Normal			
State, Zip: NY, 13045	Compliance Project: Δ Yes Δ No			
Phone: 607-345-4624(Tel)	PO #: Purchase Order not required			
Email: kathleen.mcgrath@cortlandswcd.org	WO #:			
Project Name: Cortland Landfill/ Event Desc: Towslee Landfill - Baseline	Project #: 48009337			
Site: New York	SSOW#:			

SHORT HOLD

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	360.1, 351.2, 410.4	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb	2120B, 353.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	5310C - Total Organic Carbon	335.4 - Cyanide	420.4_NP - Total Phenolics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	D	A	N	N	N	N	N	N	A	B	S		
MW-6B				Water																	
MW-7A				Water																	
DUP MW1B	12/9/21	1:45	G	Water	N	N	X	X	X	X	X	X		X	X	X	X	X	X		
Trip Blank 1				Water																	
Trip Blank 2				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	K McGrath	12/9/21 5:00			12/9/21 1700	ES-SYR
2	Relinquished	12-9-21, 1900	Tya		12/11/21 11:30	TAS
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Syracuse

Client Information	Sampler: KMcGrath	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-167798-13274.1
Client Contact: Ms. Kathleen McGrath	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin: #225	Page: Page 1 of 2
Company: Cortland Cty Soil & Water Cons District	PWSID:			Job #:

Address: 100 Grange Place Rm 202	Due Date Requested:	Analysis Requested
City: Cortland	TAT Requested (days): Normal	
State, Zip: NY, 13045	Compliance Project: Δ Yes Δ No	
Phone: 607-345-4624(Tel)	PO #: Purchase Order not required	
Email: kathleen.mcgrath@cortlandswcd.org	WO #:	
Project Name: Cortland Landfill/ Event Desc: Towslee Landfill - Baseline	Project #: 48009337	
Site: New York	SSOW#:	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	350.1, 351.2, 410.4	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb	2120B, 363.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	5310C - Total Organic Carbon	335.4 - Cyanide	420.4_NP - Total Phenolics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	D	A	N	N	N	N	N	N	A	B	S		
CD-1				Water																	
CD-1RA				Water																	
MW-1A	12/10/21	8:45	G	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-1B				Water																	
MW-2A	12/10/21	7:45	G	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-2B	12/10/21	8:05	G	Water	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-3A				Water																	
MW-3B				Water																	
MW-4A				Water																	
MW-5A				Water																	
MW-6A				Water																	

480-193369 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
KMcGrath	12/10/21 3:30			12/10/21 1530	ES-SYR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
R.E.Nigl.14	12-10-21, 1900	Tye			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				12/13/21 1000	JA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		1.6, 1.9 #1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-193369-1
SDG Number: 193337

Login Number: 193369
List Number: 1
Creator: Sabuda, Brendan D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6 1.9 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	False	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

ANALYTICAL REPORT

Job Number: 480-193436-1

SDG Number: 193337

Job Description: Towslee Landfill - Baseline

For:
Cortland Cty Soil & Water Cons District
100 Grange Place
Rm 202
Cortland, NY 13045

Attention: Ms. Kathleen McGrath

Approved for release.
Rebecca M Jones
Project Management Assistant I
12/30/2021 9:15 AM

Designee for
Orlette S Johnson, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0864
Orlette.Johnson@Eurofinset.com
12/30/2021

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NYDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Job Narrative
480-193436-1

Comments
No additional comments.

Receipt
The samples were received on 12/15/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.6º C, 2.8º C, 3.0º C and 3.1º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-609322 recovered outside acceptance criteria, low biased, for 2-Hexanone. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte, the data are reported. The associated samples are impacted: MW-3A (480-193436-2), MW-3B (480-193436-3), MW-4A (480-193436-4), MW-5A (480-193436-5), MW-6A (480-193436-6), MW-6B (480-193436-7) and MW-7A (480-193436-8).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-609322 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-3A (480-193436-2), MW-3B (480-193436-3), MW-4A (480-193436-4), MW-5A (480-193436-5), MW-6A (480-193436-6), MW-6B (480-193436-7) and MW-7A (480-193436-8).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-609322 recovered outside control limits for the following analyte: Tetrachloroethene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The associated samples are impacted: MW-3A (480-193436-2), MW-3B (480-193436-3), MW-4A (480-193436-4), MW-5A (480-193436-5), MW-6A (480-193436-6), MW-6B (480-193436-7) and MW-7A (480-193436-8).

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

HPLC/IC
Method 300.0: The following samples were diluted due to the abundance of non-target analytes: MW-4A (480-193436-4) and MW-7A (480-193436-8). Elevated reporting limits (RLs) are provided.

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

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

General Chemistry
Method SM 2120B: The following samples were filtered prior to analysis, therefore the analytical results are being report as "True Color": MW-6A (480-193436-6), MW-6B (480-193436-7), MW-7A (480-193436-8) and (480-193436-J-8 DU)

Method SM 5210B: The following sample(s) was received with minimum amount of time remaining on the test. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MW-3A (480-193436-2).

Method 7196A: The following samples were received outside of holding time: MW-3A (480-193436-2), MW-3B (480-193436-3), MW-4A (480-193436-4), MW-5A (480-193436-5) and MW-6A (480-193436-6).

Method 7196A: The following sample(s) was received with minimum amount of time remaining on the test. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MW-6B (480-193436-7) and MW-7A (480-193436-8).

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

Sample Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193436-1
SDG: 193337

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-193436-2	MW-3A	Water	12/14/21 08:45	12/15/21 10:30
480-193436-3	MW-3B	Water	12/14/21 09:00	12/15/21 10:30
480-193436-4	MW-4A	Water	12/14/21 09:30	12/15/21 10:30
480-193436-5	MW-5A	Water	12/14/21 09:50	12/15/21 10:30
480-193436-6	MW-6A	Water	12/14/21 10:20	12/15/21 10:30
480-193436-7	MW-6B	Water	12/14/21 10:45	12/15/21 10:30
480-193436-8	MW-7A	Water	12/14/21 11:15	12/15/21 10:30

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193436-1
SDG: 193337

Client Sample ID: MW-3A — Lab Sample ID: 480-193436-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.48		0.20		mg/L	1		6010C	Total/NA
Barium	0.44		0.0020		mg/L	1		6010C	Total/NA
Calcium	24.3		0.50		mg/L	1		6010C	Total/NA
Iron	0.42		0.050		mg/L	1		6010C	Total/NA
Magnesium	3.6		0.20		mg/L	1		6010C	Total/NA
Manganese	0.78		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.0		0.50		mg/L	1		6010C	Total/NA
Sodium	1.6		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	75.6		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	85.4		20.0		mg/L	2		310.2	Total/NA
Total Kjeldahl Nitrogen	0.53	F1	0.20		mg/L	1		351.2	Total/NA
Chemical Oxygen Demand	14.1		10.0		mg/L	1		410.4	Total/NA
Color	40.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	124		10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon - Duplicates	4.3		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	4.4		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	4.2		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-3B — Lab Sample ID: 480-193436-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.20		0.0020		mg/L	1		6010C	Total/NA
Boron	0.030		0.020		mg/L	1		6010C	Total/NA
Calcium	47.2		0.50		mg/L	1		6010C	Total/NA
Iron	0.13		0.050		mg/L	1		6010C	Total/NA
Magnesium	13.7		0.20		mg/L	1		6010C	Total/NA
Manganese	0.022		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.1		0.50		mg/L	1		6010C	Total/NA
Sodium	8.0		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	174		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	158		30.0		mg/L	3		310.2	Total/NA
Cyanide, Total	0.010		0.010		mg/L	1		335.4	Total/NA
Chemical Oxygen Demand	10.3		10.0		mg/L	1		410.4	Total/NA
Sulfate	10.9		5.0		mg/L	1		9038	Total/NA
Color	10.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	264		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	21.3		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-4A — Lab Sample ID: 480-193436-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.29		0.20		mg/L	1		6010C	Total/NA
Barium	1.0		0.0020		mg/L	1		6010C	Total/NA
Boron	0.078		0.020		mg/L	1		6010C	Total/NA
Calcium	124		0.50		mg/L	1		6010C	Total/NA
Iron	0.13		0.050		mg/L	1		6010C	Total/NA
Magnesium	26.9		0.20		mg/L	1		6010C	Total/NA
Manganese	0.11		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.5		0.50		mg/L	1		6010C	Total/NA
Sodium	15.4		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	420		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	429		50.0		mg/L	5		310.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-4A (Continued) — Lab Sample ID: 480-193436-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Kjeldahl Nitrogen	0.23		0.20		mg/L	1		351.2	Total/NA
Color	15.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	468		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	9.9	F1	1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	2.1		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	2.2		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	1.9		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-5A — Lab Sample ID: 480-193436-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.23		0.20		mg/L	1		6010C	Total/NA
Barium	0.57		0.0020		mg/L	1		6010C	Total/NA
Calcium	41.1		0.50		mg/L	1		6010C	Total/NA
Iron	0.12		0.050		mg/L	1		6010C	Total/NA
Magnesium	11.8		0.20		mg/L	1		6010C	Total/NA
Manganese	0.024		0.0030		mg/L	1		6010C	Total/NA
Potassium	0.82		0.50		mg/L	1		6010C	Total/NA
Sodium	8.5		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	151		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	156		30.0		mg/L	3		310.2	Total/NA
Cyanide, Total	0.013		0.010		mg/L	1		335.4	Total/NA
Total Kjeldahl Nitrogen	0.25		0.20		mg/L	1		351.2	Total/NA
Chemical Oxygen Demand	11.2		10.0		mg/L	1		410.4	Total/NA
Sulfate	16.5		5.0		mg/L	1		9038	Total/NA
Color	15.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	183		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	4.8		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-6A — Lab Sample ID: 480-193436-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	21.7		0.20		mg/L	1		6010C	Total/NA
Barium	0.42		0.0020		mg/L	1		6010C	Total/NA
Boron	0.020		0.020		mg/L	1		6010C	Total/NA
Calcium	82.5		0.50		mg/L	1		6010C	Total/NA
Chromium	0.030		0.0040		mg/L	1		6010C	Total/NA
Cobalt	0.018		0.0040		mg/L	1		6010C	Total/NA
Copper	0.023		0.010		mg/L	1		6010C	Total/NA
Iron	29.8		0.050		mg/L	1		6010C	Total/NA
Lead	0.010		0.010		mg/L	1		6010C	Total/NA
Magnesium	13.8		0.20		mg/L	1		6010C	Total/NA
Manganese	0.83		0.0030		mg/L	1		6010C	Total/NA
Nickel	0.032		0.010		mg/L	1		6010C	Total/NA
Potassium	6.9		0.50		mg/L	1		6010C	Total/NA
Sodium	3.2		1.0		mg/L	1		6010C	Total/NA
Vanadium	0.031		0.0050		mg/L	1		6010C	Total/NA
Zinc	0.060		0.010		mg/L	1		6010C	Total/NA
Calcium	77.2		0.50		mg/L	1		6010C	Dissolved
Magnesium	8.0		0.20		mg/L	1		6010C	Dissolved
Potassium	1.7		0.50		mg/L	1		6010C	Dissolved
Sodium	2.9		1.0		mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-6A (Continued) — Lab Sample ID: 480-193436-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hardness as calcium carbonate	263		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	221		30.0		mg/L	3		310.2	Total/NA
Total Kjeldahl Nitrogen	2.4		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.43		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	26.1		10.0		mg/L	1		410.4	Total/NA
Color	20.0		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	259		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	2.1		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	4.2		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	4.3		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	4.2		1.0		mg/L	1		SM 5310C	Total/NA

Client Sample ID: MW-6B — Lab Sample ID: 480-193436-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1.2		0.20		mg/L	1		6010C	Total/NA
Barium	0.33		0.0020		mg/L	1		6010C	Total/NA
Boron	0.020		0.020		mg/L	1		6010C	Total/NA
Calcium	38.5		0.50		mg/L	1		6010C	Total/NA
Iron	0.58		0.050		mg/L	1		6010C	Total/NA
Magnesium	9.9		0.20		mg/L	1		6010C	Total/NA
Manganese	0.24		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.0		0.50		mg/L	1		6010C	Total/NA
Sodium	14.2		1.0		mg/L	1		6010C	Total/NA
Zinc	0.013		0.010		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	137		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	142		30.0		mg/L	3		310.2	Total/NA
Nitrate as N	0.063		0.050		mg/L	1		353.2	Total/NA
Sulfate	23.5		5.0		mg/L	1		9038	Total/NA
Color	5.00		5.00		Color Units	1		SM 2120B	Total/NA
Total Dissolved Solids	180		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	18.3		1.0		mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-7A — Lab Sample ID: 480-193436-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.22		0.20		mg/L	1		6010C	Total/NA
Barium	0.19		0.0020		mg/L	1		6010C	Total/NA
Boron	0.12		0.020		mg/L	1		6010C	Total/NA
Calcium	75.8		0.50		mg/L	1		6010C	Total/NA
Iron	0.32		0.050		mg/L	1		6010C	Total/NA
Magnesium	15.0		0.20		mg/L	1		6010C	Total/NA
Manganese	2.3		0.0030		mg/L	1		6010C	Total/NA
Potassium	2.2		0.50		mg/L	1		6010C	Total/NA
Sodium	20.8		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	251		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	279		50.0		mg/L	5		310.2	Total/NA
Cyanide, Total	0.011		0.010		mg/L	1		335.4	Total/NA
Total Kjeldahl Nitrogen	0.49		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.12		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	20.1		10.0		mg/L	1		410.4	Total/NA
Color	15.0		5.00		Color Units	1		SM 2120B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-7A (Continued)

Lab Sample ID: 480-193436-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	295		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	9.8		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	6.4		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	6.5		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	6.3		1.0		mg/L	1		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193436-1
SDG: 193337

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
420.4	Phenolics, Total Recoverable	MCAWW	TAL BUF
7196A	Chromium, Hexavalent	SW846	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
SM 2120B	Color, Colorimetric	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 4500 Cl- E	Chloride, Total	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL BUF
FILTRATION	Sample Filtration	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample ID: MW-3A
Date Collected: 12/14/21 08:45
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 15:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/17/21 15:24	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 15:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/17/21 15:24	1
1,1-Dichloroethane	ND		1.0		ug/L			12/17/21 15:24	1
1,1-Dichloroethene	ND		1.0		ug/L			12/17/21 15:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/17/21 15:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/17/21 15:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/17/21 15:24	1
1,2-Dichloroethane	ND		1.0		ug/L			12/17/21 15:24	1
1,2-Dichloropropane	ND		1.0		ug/L			12/17/21 15:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/17/21 15:24	1
2-Butanone (MEK)	ND		10		ug/L			12/17/21 15:24	1
2-Hexanone	ND		5.0		ug/L			12/17/21 15:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/17/21 15:24	1
Acetone	ND		10		ug/L			12/17/21 15:24	1
Acrylonitrile	ND		5.0		ug/L			12/17/21 15:24	1
Benzene	ND		1.0		ug/L			12/17/21 15:24	1
Chlorobromomethane	ND		1.0		ug/L			12/17/21 15:24	1
Bromodichloromethane	ND		1.0		ug/L			12/17/21 15:24	1
Bromoform	ND		1.0		ug/L			12/17/21 15:24	1
Bromomethane	ND		1.0		ug/L			12/17/21 15:24	1
Carbon disulfide	ND		1.0		ug/L			12/17/21 15:24	1
Carbon tetrachloride	ND		1.0		ug/L			12/17/21 15:24	1
Chlorobenzene	ND		1.0		ug/L			12/17/21 15:24	1
Dibromochloromethane	ND		1.0		ug/L			12/17/21 15:24	1
Chloroethane	ND		1.0		ug/L			12/17/21 15:24	1
Chloroform	ND		1.0		ug/L			12/17/21 15:24	1
Chloromethane	ND		1.0		ug/L			12/17/21 15:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 15:24	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 15:24	1
Dibromomethane	ND		1.0		ug/L			12/17/21 15:24	1
Ethylbenzene	ND		1.0		ug/L			12/17/21 15:24	1
1,2-Dibromoethane	ND		1.0		ug/L			12/17/21 15:24	1
Iodomethane	ND		1.0		ug/L			12/17/21 15:24	1
Methylene Chloride	ND		1.0		ug/L			12/17/21 15:24	1
Styrene	ND		1.0		ug/L			12/17/21 15:24	1
Tetrachloroethene	ND	*+	1.0		ug/L			12/17/21 15:24	1
Trichlorofluoromethane	ND		1.0		ug/L			12/17/21 15:24	1
Trichloroethene	ND		1.0		ug/L			12/17/21 15:24	1
Toluene	ND		1.0		ug/L			12/17/21 15:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 15:24	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 15:24	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/17/21 15:24	1
Vinyl acetate	ND		5.0		ug/L			12/17/21 15:24	1
Vinyl chloride	ND		1.0		ug/L			12/17/21 15:24	1
Xylenes, Total	ND		2.0		ug/L			12/17/21 15:24	1
m,p-Xylene	ND		2.0		ug/L			12/17/21 15:24	1
o-Xylene	ND		1.0		ug/L			12/17/21 15:24	1

Client Sample ID: MW-3A

Date Collected: 12/14/21 08:45
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*12/17/21 15:24*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*12/17/21 15:24*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*12/17/21 15:24*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.48**		0.20		mg/L		12/16/21 08:40	12/16/21 18:24	1
Antimony	ND		0.020		mg/L		12/16/21 08:40	12/16/21 18:24	1
Arsenic	ND		0.015		mg/L		12/16/21 08:40	12/16/21 18:24	1
Barium	**0.44**		0.0020		mg/L		12/16/21 08:40	12/16/21 18:24	1
Beryllium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 18:24	1
Boron	ND		0.020		mg/L		12/16/21 08:40	12/17/21 12:45	1
Cadmium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 18:24	1
Calcium	**24.3**		0.50		mg/L		12/16/21 08:40	12/16/21 18:24	1
Chromium	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 18:24	1
Cobalt	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 18:24	1
Copper	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:24	1
Iron	**0.42**		0.050		mg/L		12/16/21 08:40	12/16/21 18:24	1
Lead	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:24	1
Magnesium	**3.6**		0.20		mg/L		12/16/21 08:40	12/16/21 18:24	1
Manganese	**0.78**		0.0030		mg/L		12/16/21 08:40	12/16/21 18:24	1
Nickel	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:24	1
Potassium	**1.0**		0.50		mg/L		12/16/21 08:40	12/16/21 18:24	1
Selenium	ND		0.025		mg/L		12/16/21 08:40	12/16/21 18:24	1
Silver	ND		0.0060		mg/L		12/16/21 08:40	12/16/21 18:24	1
Sodium	**1.6**		1.0		mg/L		12/16/21 08:40	12/16/21 18:24	1
Thallium	ND		0.020		mg/L		12/16/21 08:40	12/16/21 18:24	1
Vanadium	ND		0.0050		mg/L		12/16/21 08:40	12/16/21 18:24	1
Zinc	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:24	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/16/21 13:46	12/16/21 17:42	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**75.6**		0.50		mg/L			12/27/21 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/21/21 16:46	1
Alkalinity, Total	**85.4**		20.0		mg/L			12/21/21 02:42	2
Cyanide, Total	ND		0.010		mg/L		12/20/21 10:38	12/20/21 11:30	1
Ammonia	ND		0.020		mg/L			12/16/21 09:40	1
Total Kjeldahl Nitrogen	**0.53**	**F1**	0.20		mg/L		12/16/21 11:28	12/17/21 07:54	1
Nitrate as N	ND		0.050		mg/L			12/15/21 17:53	1
Chemical Oxygen Demand	**14.1**		10.0		mg/L			12/17/21 19:30	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/16/21 09:18	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			12/15/21 13:28	1
Sulfate	ND		5.0		mg/L			12/17/21 03:01	1
Total Dissolved Solids	**124**		10.0		mg/L			12/16/21 11:55	1

Client Sample ID: MW-3A
Lab Sample ID: 480-193436-2

Date Collected: 12/14/21 08:45
Matrix: Water
Date Received: 12/15/21 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/17/21 18:58	1
Biochemical Oxygen Demand	ND	H	2.0		mg/L			12/16/21 08:54	1
Total Organic Carbon - Duplicates	**4.3**		1.0		mg/L			12/20/21 17:35	1
TOC Result 1	**4.4**		1.0		mg/L			12/20/21 17:35	1
TOC Result 2	**4.2**		1.0		mg/L			12/20/21 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**40.0**		5.00		Color Units			12/15/21 16:48	1

Client Sample ID: MW-3B
Lab Sample ID: 480-193436-3

Date Collected: 12/14/21 09:00
Matrix: Water
Date Received: 12/15/21 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 15:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/17/21 15:47	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 15:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/17/21 15:47	1
1,1-Dichloroethane	ND		1.0		ug/L			12/17/21 15:47	1
1,1-Dichloroethene	ND		1.0		ug/L			12/17/21 15:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/17/21 15:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/17/21 15:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/17/21 15:47	1
1,2-Dichloroethane	ND		1.0		ug/L			12/17/21 15:47	1
1,2-Dichloropropane	ND		1.0		ug/L			12/17/21 15:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/17/21 15:47	1
2-Butanone (MEK)	ND		10		ug/L			12/17/21 15:47	1
2-Hexanone	ND		5.0		ug/L			12/17/21 15:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/17/21 15:47	1
Acetone	ND		10		ug/L			12/17/21 15:47	1
Acrylonitrile	ND		5.0		ug/L			12/17/21 15:47	1
Benzene	ND		1.0		ug/L			12/17/21 15:47	1
Chlorobromomethane	ND		1.0		ug/L			12/17/21 15:47	1
Bromodichloromethane	ND		1.0		ug/L			12/17/21 15:47	1
Bromoform	ND		1.0		ug/L			12/17/21 15:47	1
Bromomethane	ND		1.0		ug/L			12/17/21 15:47	1
Carbon disulfide	ND		1.0		ug/L			12/17/21 15:47	1
Carbon tetrachloride	ND		1.0		ug/L			12/17/21 15:47	1
Chlorobenzene	ND		1.0		ug/L			12/17/21 15:47	1
Dibromochloromethane	ND		1.0		ug/L			12/17/21 15:47	1
Chloroethane	ND		1.0		ug/L			12/17/21 15:47	1
Chloroform	ND		1.0		ug/L			12/17/21 15:47	1
Chloromethane	ND		1.0		ug/L			12/17/21 15:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 15:47	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 15:47	1
Dibromomethane	ND		1.0		ug/L			12/17/21 15:47	1
Ethylbenzene	ND		1.0		ug/L			12/17/21 15:47	1
1,2-Dibromoethane	ND		1.0		ug/L			12/17/21 15:47	1
Iodomethane	ND		1.0		ug/L			12/17/21 15:47	1
Methylene Chloride	ND		1.0		ug/L			12/17/21 15:47	1

Client Sample ID: MW-3B
Date Collected: 12/14/21 09:00
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			12/17/21 15:47	1
Tetrachloroethene	ND	*+	1.0		ug/L			12/17/21 15:47	1
Trichlorofluoromethane	ND		1.0		ug/L			12/17/21 15:47	1
Trichloroethene	ND		1.0		ug/L			12/17/21 15:47	1
Toluene	ND		1.0		ug/L			12/17/21 15:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 15:47	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 15:47	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/17/21 15:47	1
Vinyl acetate	ND		5.0		ug/L			12/17/21 15:47	1
Vinyl chloride	ND		1.0		ug/L			12/17/21 15:47	1
Xylenes, Total	ND		2.0		ug/L			12/17/21 15:47	1
m,p-Xylene	ND		2.0		ug/L			12/17/21 15:47	1
o-Xylene	ND		1.0		ug/L			12/17/21 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*12/17/21 15:47*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*12/17/21 15:47*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*12/17/21 15:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		12/16/21 08:40	12/16/21 18:28	1
Antimony	ND		0.020		mg/L		12/16/21 08:40	12/16/21 18:28	1
Arsenic	ND		0.015		mg/L		12/16/21 08:40	12/16/21 18:28	1
Barium	**0.20**		0.0020		mg/L		12/16/21 08:40	12/16/21 18:28	1
Beryllium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 18:28	1
Boron	**0.030**		0.020		mg/L		12/16/21 08:40	12/17/21 12:49	1
Cadmium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 18:28	1
Calcium	**47.2**		0.50		mg/L		12/16/21 08:40	12/16/21 18:28	1
Chromium	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 18:28	1
Cobalt	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 18:28	1
Copper	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:28	1
Iron	**0.13**		0.050		mg/L		12/16/21 08:40	12/16/21 18:28	1
Lead	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:28	1
Magnesium	**13.7**		0.20		mg/L		12/16/21 08:40	12/16/21 18:28	1
Manganese	**0.022**		0.0030		mg/L		12/16/21 08:40	12/16/21 18:28	1
Nickel	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:28	1
Potassium	**1.1**		0.50		mg/L		12/16/21 08:40	12/16/21 18:28	1
Selenium	ND		0.025		mg/L		12/16/21 08:40	12/16/21 18:28	1
Silver	ND		0.0060		mg/L		12/16/21 08:40	12/16/21 18:28	1
Sodium	**8.0**		1.0		mg/L		12/16/21 08:40	12/16/21 18:28	1
Thallium	ND		0.020		mg/L		12/16/21 08:40	12/16/21 18:28	1
Vanadium	ND		0.0050		mg/L		12/16/21 08:40	12/16/21 18:28	1
Zinc	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/16/21 13:46	12/16/21 17:44	1

Client Sample ID: MW-3B
Lab Sample ID: 480-193436-3

Date Collected: 12/14/21 09:00
Matrix: Water
Date Received: 12/15/21 10:30

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**174**		0.50		mg/L			12/27/21 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/21/21 18:21	1
Alkalinity, Total	**158**		30.0		mg/L			12/21/21 02:43	3
Cyanide, Total	**0.010**		0.010		mg/L		12/20/21 10:38	12/20/21 11:33	1
Ammonia	ND		0.020		mg/L			12/16/21 09:46	1
Total Kjeldahl Nitrogen	ND		0.20		mg/L		12/16/21 11:28	12/17/21 07:54	1
Nitrate as N	ND		0.050		mg/L			12/15/21 18:01	1
Chemical Oxygen Demand	**10.3**		10.0		mg/L			12/17/21 19:30	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/16/21 09:22	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			12/15/21 13:28	1
Sulfate	**10.9**		5.0		mg/L			12/17/21 03:01	1
Total Dissolved Solids	**264**		10.0		mg/L			12/16/21 11:55	1
Chloride	**21.3**		1.0		mg/L			12/17/21 18:58	1
Biochemical Oxygen Demand	ND		2.0		mg/L			12/16/21 08:54	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			12/20/21 17:51	1
TOC Result 1	ND		1.0		mg/L			12/20/21 17:51	1
TOC Result 2	ND		1.0		mg/L			12/20/21 17:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**10.0**		5.00		Color Units			12/15/21 16:48	1

Client Sample ID: MW-4A
Lab Sample ID: 480-193436-4

Date Collected: 12/14/21 09:30
Matrix: Water
Date Received: 12/15/21 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 16:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/17/21 16:10	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 16:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/17/21 16:10	1
1,1-Dichloroethane	ND		1.0		ug/L			12/17/21 16:10	1
1,1-Dichloroethene	ND		1.0		ug/L			12/17/21 16:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/17/21 16:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/17/21 16:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/17/21 16:10	1
1,2-Dichloroethane	ND		1.0		ug/L			12/17/21 16:10	1
1,2-Dichloropropane	ND		1.0		ug/L			12/17/21 16:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/17/21 16:10	1
2-Butanone (MEK)	ND		10		ug/L			12/17/21 16:10	1
2-Hexanone	ND		5.0		ug/L			12/17/21 16:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/17/21 16:10	1
Acetone	ND		10		ug/L			12/17/21 16:10	1
Acrylonitrile	ND		5.0		ug/L			12/17/21 16:10	1
Benzene	ND		1.0		ug/L			12/17/21 16:10	1
Chlorobromomethane	ND		1.0		ug/L			12/17/21 16:10	1
Bromodichloromethane	ND		1.0		ug/L			12/17/21 16:10	1
Bromoform	ND		1.0		ug/L			12/17/21 16:10	1

Client Sample ID: MW-4A
Date Collected: 12/14/21 09:30
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0		ug/L			12/17/21 16:10	1
Carbon disulfide	ND		1.0		ug/L			12/17/21 16:10	1
Carbon tetrachloride	ND		1.0		ug/L			12/17/21 16:10	1
Chlorobenzene	ND		1.0		ug/L			12/17/21 16:10	1
Dibromochloromethane	ND		1.0		ug/L			12/17/21 16:10	1
Chloroethane	ND		1.0		ug/L			12/17/21 16:10	1
Chloroform	ND		1.0		ug/L			12/17/21 16:10	1
Chloromethane	ND		1.0		ug/L			12/17/21 16:10	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 16:10	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 16:10	1
Dibromomethane	ND		1.0		ug/L			12/17/21 16:10	1
Ethylbenzene	ND		1.0		ug/L			12/17/21 16:10	1
1,2-Dibromoethane	ND		1.0		ug/L			12/17/21 16:10	1
Iodomethane	ND		1.0		ug/L			12/17/21 16:10	1
Methylene Chloride	ND		1.0		ug/L			12/17/21 16:10	1
Styrene	ND		1.0		ug/L			12/17/21 16:10	1
Tetrachloroethene	ND	*+	1.0		ug/L			12/17/21 16:10	1
Trichlorofluoromethane	ND		1.0		ug/L			12/17/21 16:10	1
Trichloroethene	ND		1.0		ug/L			12/17/21 16:10	1
Toluene	ND		1.0		ug/L			12/17/21 16:10	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 16:10	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 16:10	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/17/21 16:10	1
Vinyl acetate	ND		5.0		ug/L			12/17/21 16:10	1
Vinyl chloride	ND		1.0		ug/L			12/17/21 16:10	1
Xylenes, Total	ND		2.0		ug/L			12/17/21 16:10	1
m,p-Xylene	ND		2.0		ug/L			12/17/21 16:10	1
o-Xylene	ND		1.0		ug/L			12/17/21 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*12/17/21 16:10*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/17/21 16:10*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*12/17/21 16:10*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.29**		0.20		mg/L		12/16/21 08:40	12/16/21 18:47	1
Antimony	ND		0.020		mg/L		12/16/21 08:40	12/16/21 18:47	1
Arsenic	ND		0.015		mg/L		12/16/21 08:40	12/16/21 18:47	1
Barium	**1.0**		0.0020		mg/L		12/16/21 08:40	12/16/21 18:47	1
Beryllium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 18:47	1
Boron	**0.078**		0.020		mg/L		12/16/21 08:40	12/17/21 13:07	1
Cadmium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 18:47	1
Calcium	**124**		0.50		mg/L		12/16/21 08:40	12/16/21 18:47	1
Chromium	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 18:47	1
Cobalt	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 18:47	1
Copper	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:47	1
Iron	**0.13**		0.050		mg/L		12/16/21 08:40	12/16/21 18:47	1
Lead	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:47	1
Magnesium	**26.9**		0.20		mg/L		12/16/21 08:40	12/16/21 18:47	1

Client Sample ID: MW-4A
Lab Sample ID: 480-193436-4

Date Collected: 12/14/21 09:30
Matrix: Water
Date Received: 12/15/21 10:30

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.11**		0.0030		mg/L		12/16/21 08:40	12/16/21 18:47	1
Nickel	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:47	1
Potassium	**1.5**		0.50		mg/L		12/16/21 08:40	12/16/21 18:47	1
Selenium	ND		0.025		mg/L		12/16/21 08:40	12/16/21 18:47	1
Silver	ND		0.0060		mg/L		12/16/21 08:40	12/16/21 18:47	1
Sodium	**15.4**		1.0		mg/L		12/16/21 08:40	12/16/21 18:47	1
Thallium	ND		0.020		mg/L		12/16/21 08:40	12/16/21 18:47	1
Vanadium	ND		0.0050		mg/L		12/16/21 08:40	12/16/21 18:47	1
Zinc	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/16/21 13:46	12/16/21 17:45	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**420**		0.50		mg/L			12/27/21 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.40		mg/L			12/21/21 18:40	2
Alkalinity, Total	**429**		50.0		mg/L			12/21/21 02:14	5
Cyanide, Total	ND		0.010		mg/L		12/20/21 10:38	12/20/21 11:36	1
Ammonia	ND		0.020		mg/L			12/16/21 09:47	1
Total Kjeldahl Nitrogen	**0.23**		0.20		mg/L		12/16/21 11:28	12/17/21 07:54	1
Nitrate as N	ND		0.050		mg/L			12/15/21 18:03	1
Chemical Oxygen Demand	ND		10.0		mg/L			12/17/21 19:30	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/16/21 09:26	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			12/15/21 13:28	1
Sulfate	ND		5.0		mg/L			12/17/21 03:05	1
Total Dissolved Solids	**468**		10.0		mg/L			12/16/21 13:25	1
Chloride	**9.9**	**F1**	1.0		mg/L			12/17/21 18:59	1
Biochemical Oxygen Demand	ND		2.0		mg/L			12/16/21 08:54	1
Total Organic Carbon - Duplicates	**2.1**		1.0		mg/L			12/20/21 18:06	1
TOC Result 1	**2.2**		1.0		mg/L			12/20/21 18:06	1
TOC Result 2	**1.9**		1.0		mg/L			12/20/21 18:06	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**15.0**		5.00		Color Units			12/15/21 16:48	1

Client Sample ID: MW-5A
Lab Sample ID: 480-193436-5

Date Collected: 12/14/21 09:50
Matrix: Water
Date Received: 12/15/21 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 16:33	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/17/21 16:33	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 16:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/17/21 16:33	1
1,1-Dichloroethane	ND		1.0		ug/L			12/17/21 16:33	1

Client Sample ID: MW-5A
Date Collected: 12/14/21 09:50
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0		ug/L			12/17/21 16:33	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/17/21 16:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/17/21 16:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/17/21 16:33	1
1,2-Dichloroethane	ND		1.0		ug/L			12/17/21 16:33	1
1,2-Dichloropropane	ND		1.0		ug/L			12/17/21 16:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/17/21 16:33	1
2-Butanone (MEK)	ND		10		ug/L			12/17/21 16:33	1
2-Hexanone	ND		5.0		ug/L			12/17/21 16:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/17/21 16:33	1
Acetone	ND		10		ug/L			12/17/21 16:33	1
Acrylonitrile	ND		5.0		ug/L			12/17/21 16:33	1
Benzene	ND		1.0		ug/L			12/17/21 16:33	1
Chlorobromomethane	ND		1.0		ug/L			12/17/21 16:33	1
Bromodichloromethane	ND		1.0		ug/L			12/17/21 16:33	1
Bromoform	ND		1.0		ug/L			12/17/21 16:33	1
Bromomethane	ND		1.0		ug/L			12/17/21 16:33	1
Carbon disulfide	ND		1.0		ug/L			12/17/21 16:33	1
Carbon tetrachloride	ND		1.0		ug/L			12/17/21 16:33	1
Chlorobenzene	ND		1.0		ug/L			12/17/21 16:33	1
Dibromochloromethane	ND		1.0		ug/L			12/17/21 16:33	1
Chloroethane	ND		1.0		ug/L			12/17/21 16:33	1
Chloroform	ND		1.0		ug/L			12/17/21 16:33	1
Chloromethane	ND		1.0		ug/L			12/17/21 16:33	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 16:33	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 16:33	1
Dibromomethane	ND		1.0		ug/L			12/17/21 16:33	1
Ethylbenzene	ND		1.0		ug/L			12/17/21 16:33	1
1,2-Dibromoethane	ND		1.0		ug/L			12/17/21 16:33	1
Iodomethane	ND		1.0		ug/L			12/17/21 16:33	1
Methylene Chloride	ND		1.0		ug/L			12/17/21 16:33	1
Styrene	ND		1.0		ug/L			12/17/21 16:33	1
Tetrachloroethene	ND	*+	1.0		ug/L			12/17/21 16:33	1
Trichlorofluoromethane	ND		1.0		ug/L			12/17/21 16:33	1
Trichloroethene	ND		1.0		ug/L			12/17/21 16:33	1
Toluene	ND		1.0		ug/L			12/17/21 16:33	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 16:33	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 16:33	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/17/21 16:33	1
Vinyl acetate	ND		5.0		ug/L			12/17/21 16:33	1
Vinyl chloride	ND		1.0		ug/L			12/17/21 16:33	1
Xylenes, Total	ND		2.0		ug/L			12/17/21 16:33	1
m,p-Xylene	ND		2.0		ug/L			12/17/21 16:33	1
o-Xylene	ND		1.0		ug/L			12/17/21 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*77 - 120*		*12/17/21 16:33*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/17/21 16:33*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*12/17/21 16:33*	*1*

Client Sample ID: MW-5A
Date Collected: 12/14/21 09:50
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-5
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.23**		0.20		mg/L		12/16/21 08:40	12/16/21 18:51	1
Antimony	ND		0.020		mg/L		12/16/21 08:40	12/16/21 18:51	1
Arsenic	ND		0.015		mg/L		12/16/21 08:40	12/16/21 18:51	1
Barium	**0.57**		0.0020		mg/L		12/16/21 08:40	12/16/21 18:51	1
Beryllium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 18:51	1
Boron	ND		0.020		mg/L		12/16/21 08:40	12/17/21 13:22	1
Cadmium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 18:51	1
Calcium	**41.1**		0.50		mg/L		12/16/21 08:40	12/16/21 18:51	1
Chromium	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 18:51	1
Cobalt	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 18:51	1
Copper	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:51	1
Iron	**0.12**		0.050		mg/L		12/16/21 08:40	12/16/21 18:51	1
Lead	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:51	1
Magnesium	**11.8**		0.20		mg/L		12/16/21 08:40	12/16/21 18:51	1
Manganese	**0.024**		0.0030		mg/L		12/16/21 08:40	12/16/21 18:51	1
Nickel	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:51	1
Potassium	**0.82**		0.50		mg/L		12/16/21 08:40	12/16/21 18:51	1
Selenium	ND		0.025		mg/L		12/16/21 08:40	12/16/21 18:51	1
Silver	ND		0.0060		mg/L		12/16/21 08:40	12/16/21 18:51	1
Sodium	**8.5**		1.0		mg/L		12/16/21 08:40	12/16/21 18:51	1
Thallium	ND		0.020		mg/L		12/16/21 08:40	12/16/21 18:51	1
Vanadium	ND		0.0050		mg/L		12/16/21 08:40	12/16/21 18:51	1
Zinc	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/16/21 13:46	12/16/21 17:50	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**151**		0.50		mg/L			12/27/21 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/21/21 18:59	1
Alkalinity, Total	**156**		30.0		mg/L			12/21/21 02:14	3
Cyanide, Total	**0.013**		0.010		mg/L		12/20/21 10:38	12/20/21 11:37	1
Ammonia	ND		0.020		mg/L			12/16/21 09:48	1
Total Kjeldahl Nitrogen	**0.25**		0.20		mg/L		12/16/21 11:28	12/17/21 07:54	1
Nitrate as N	ND		0.050		mg/L			12/15/21 18:04	1
Chemical Oxygen Demand	**11.2**		10.0		mg/L			12/17/21 19:30	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/16/21 09:29	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			12/15/21 13:28	1
Sulfate	**16.5**		5.0		mg/L			12/17/21 03:05	1
Total Dissolved Solids	**183**		10.0		mg/L			12/16/21 13:25	1
Chloride	**4.8**		1.0		mg/L			12/17/21 19:01	1
Biochemical Oxygen Demand	ND		2.0		mg/L			12/16/21 08:54	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			12/20/21 18:21	1
TOC Result 1	ND		1.0		mg/L			12/20/21 18:21	1
TOC Result 2	ND		1.0		mg/L			12/20/21 18:21	1

Client Sample ID: MW-5A
Lab Sample ID: 480-193436-5

Date Collected: 12/14/21 09:50
Matrix: Water
Date Received: 12/15/21 10:30

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	15.0		5.00		Color Units			12/15/21 16:48	1

Client Sample ID: MW-6A
Lab Sample ID: 480-193436-6

Date Collected: 12/14/21 10:20
Matrix: Water
Date Received: 12/15/21 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 16:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/17/21 16:56	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 16:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/17/21 16:56	1
1,1-Dichloroethane	ND		1.0		ug/L			12/17/21 16:56	1
1,1-Dichloroethene	ND		1.0		ug/L			12/17/21 16:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/17/21 16:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/17/21 16:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/17/21 16:56	1
1,2-Dichloroethane	ND		1.0		ug/L			12/17/21 16:56	1
1,2-Dichloropropane	ND		1.0		ug/L			12/17/21 16:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/17/21 16:56	1
2-Butanone (MEK)	ND		10		ug/L			12/17/21 16:56	1
2-Hexanone	ND		5.0		ug/L			12/17/21 16:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/17/21 16:56	1
Acetone	ND		10		ug/L			12/17/21 16:56	1
Acrylonitrile	ND		5.0		ug/L			12/17/21 16:56	1
Benzene	ND		1.0		ug/L			12/17/21 16:56	1
Chlorobromomethane	ND		1.0		ug/L			12/17/21 16:56	1
Bromodichloromethane	ND		1.0		ug/L			12/17/21 16:56	1
Bromoform	ND		1.0		ug/L			12/17/21 16:56	1
Bromomethane	ND		1.0		ug/L			12/17/21 16:56	1
Carbon disulfide	ND		1.0		ug/L			12/17/21 16:56	1
Carbon tetrachloride	ND		1.0		ug/L			12/17/21 16:56	1
Chlorobenzene	ND		1.0		ug/L			12/17/21 16:56	1
Dibromochloromethane	ND		1.0		ug/L			12/17/21 16:56	1
Chloroethane	ND		1.0		ug/L			12/17/21 16:56	1
Chloroform	ND		1.0		ug/L			12/17/21 16:56	1
Chloromethane	ND		1.0		ug/L			12/17/21 16:56	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 16:56	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 16:56	1
Dibromomethane	ND		1.0		ug/L			12/17/21 16:56	1
Ethylbenzene	ND		1.0		ug/L			12/17/21 16:56	1
1,2-Dibromoethane	ND		1.0		ug/L			12/17/21 16:56	1
Iodomethane	ND		1.0		ug/L			12/17/21 16:56	1
Methylene Chloride	ND		1.0		ug/L			12/17/21 16:56	1
Styrene	ND		1.0		ug/L			12/17/21 16:56	1
Tetrachloroethene	ND	*+	1.0		ug/L			12/17/21 16:56	1
Trichlorofluoromethane	ND		1.0		ug/L			12/17/21 16:56	1
Trichloroethene	ND		1.0		ug/L			12/17/21 16:56	1
Toluene	ND		1.0		ug/L			12/17/21 16:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 16:56	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 16:56	1

Client Sample ID: MW-6A
Date Collected: 12/14/21 10:20
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/17/21 16:56	1
Vinyl acetate	ND		5.0		ug/L			12/17/21 16:56	1
Vinyl chloride	ND		1.0		ug/L			12/17/21 16:56	1
Xylenes, Total	ND		2.0		ug/L			12/17/21 16:56	1
m,p-Xylene	ND		2.0		ug/L			12/17/21 16:56	1
o-Xylene	ND		1.0		ug/L			12/17/21 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*12/17/21 16:56*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/17/21 16:56*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*12/17/21 16:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**21.7**		0.20		mg/L		12/16/21 08:40	12/16/21 19:07	1
Antimony	ND		0.020		mg/L		12/16/21 08:40	12/16/21 19:07	1
Arsenic	ND		0.015		mg/L		12/16/21 08:40	12/16/21 19:07	1
Barium	**0.42**		0.0020		mg/L		12/16/21 08:40	12/16/21 19:07	1
Beryllium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 19:07	1
Boron	**0.020**		0.020		mg/L		12/16/21 08:40	12/16/21 19:07	1
Cadmium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 19:07	1
Calcium	**82.5**		0.50		mg/L		12/16/21 08:40	12/16/21 19:07	1
Chromium	**0.030**		0.0040		mg/L		12/16/21 08:40	12/16/21 19:07	1
Cobalt	**0.018**		0.0040		mg/L		12/16/21 08:40	12/16/21 19:07	1
Copper	**0.023**		0.010		mg/L		12/16/21 08:40	12/16/21 19:07	1
Iron	**29.8**		0.050		mg/L		12/16/21 08:40	12/16/21 19:07	1
Lead	**0.010**		0.010		mg/L		12/16/21 08:40	12/16/21 19:07	1
Magnesium	**13.8**		0.20		mg/L		12/16/21 08:40	12/16/21 19:07	1
Manganese	**0.83**		0.0030		mg/L		12/16/21 08:40	12/16/21 19:07	1
Nickel	**0.032**		0.010		mg/L		12/16/21 08:40	12/16/21 19:07	1
Potassium	**6.9**		0.50		mg/L		12/16/21 08:40	12/16/21 19:07	1
Selenium	ND		0.025		mg/L		12/16/21 08:40	12/16/21 19:07	1
Silver	ND		0.0060		mg/L		12/16/21 08:40	12/16/21 19:07	1
Sodium	**3.2**		1.0		mg/L		12/16/21 08:40	12/16/21 19:07	1
Thallium	ND		0.020		mg/L		12/16/21 08:40	12/16/21 19:07	1
Vanadium	**0.031**		0.0050		mg/L		12/16/21 08:40	12/16/21 19:07	1
Zinc	**0.060**		0.010		mg/L		12/16/21 08:40	12/16/21 19:07	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		12/27/21 08:36	12/27/21 16:09	1
Calcium	**77.2**		0.50		mg/L		12/27/21 08:36	12/27/21 16:09	1
Iron	ND		0.050		mg/L		12/27/21 08:36	12/27/21 16:09	1
Lead	ND		0.010		mg/L		12/27/21 08:36	12/27/21 16:09	1
Magnesium	**8.0**		0.20		mg/L		12/27/21 08:36	12/27/21 16:09	1
Manganese	ND		0.0030		mg/L		12/27/21 08:36	12/27/21 16:09	1
Potassium	**1.7**		0.50		mg/L		12/27/21 08:36	12/27/21 16:09	1
Sodium	**2.9**		1.0		mg/L		12/27/21 08:36	12/27/21 16:09	1

Client Sample ID: MW-6A
Lab Sample ID: 480-193436-6
Date Collected: 12/14/21 10:20
Matrix: Water
Date Received: 12/15/21 10:30

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/16/21 13:46	12/16/21 17:52	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**263**		0.50		mg/L			12/27/21 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/21/21 19:18	1
Alkalinity, Total	**221**		30.0		mg/L			12/21/21 02:14	3
Cyanide, Total	ND		0.010		mg/L		12/20/21 10:38	12/20/21 11:42	1
Ammonia	ND		0.020		mg/L			12/16/21 09:49	1
Total Kjeldahl Nitrogen	**2.4**		0.20		mg/L		12/16/21 11:28	12/17/21 07:54	1
Nitrate as N	**0.43**		0.050		mg/L			12/15/21 21:25	1
Chemical Oxygen Demand	**26.1**		10.0		mg/L			12/17/21 19:30	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/16/21 09:33	1
Chromium, hexavalent	ND	H H3	0.010		mg/L			12/15/21 13:28	1
Sulfate	ND		5.0		mg/L			12/17/21 03:07	1
Total Dissolved Solids	**259**		10.0		mg/L			12/16/21 13:25	1
Chloride	**2.1**		1.0		mg/L			12/17/21 19:02	1
Biochemical Oxygen Demand	ND		2.0		mg/L			12/16/21 08:54	1
Total Organic Carbon - Duplicates	**4.2**		1.0		mg/L			12/20/21 18:36	1
TOC Result 1	**4.3**		1.0		mg/L			12/20/21 18:36	1
TOC Result 2	**4.2**		1.0		mg/L			12/20/21 18:36	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**20.0**		5.00		Color Units			12/15/21 16:48	1

Client Sample ID: MW-6B
Lab Sample ID: 480-193436-7
Date Collected: 12/14/21 10:45
Matrix: Water
Date Received: 12/15/21 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 17:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/17/21 17:19	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 17:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/17/21 17:19	1
1,1-Dichloroethane	ND		1.0		ug/L			12/17/21 17:19	1
1,1-Dichloroethene	ND		1.0		ug/L			12/17/21 17:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/17/21 17:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/17/21 17:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/17/21 17:19	1
1,2-Dichloroethane	ND		1.0		ug/L			12/17/21 17:19	1
1,2-Dichloropropane	ND		1.0		ug/L			12/17/21 17:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/17/21 17:19	1
2-Butanone (MEK)	ND		10		ug/L			12/17/21 17:19	1
2-Hexanone	ND		5.0		ug/L			12/17/21 17:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/17/21 17:19	1
Acetone	ND		10		ug/L			12/17/21 17:19	1
Acrylonitrile	ND		5.0		ug/L			12/17/21 17:19	1

Client Sample ID: MW-6B
Date Collected: 12/14/21 10:45
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			12/17/21 17:19	1
Chlorobromomethane	ND		1.0		ug/L			12/17/21 17:19	1
Bromodichloromethane	ND		1.0		ug/L			12/17/21 17:19	1
Bromoform	ND		1.0		ug/L			12/17/21 17:19	1
Bromomethane	ND		1.0		ug/L			12/17/21 17:19	1
Carbon disulfide	ND		1.0		ug/L			12/17/21 17:19	1
Carbon tetrachloride	ND		1.0		ug/L			12/17/21 17:19	1
Chlorobenzene	ND		1.0		ug/L			12/17/21 17:19	1
Dibromochloromethane	ND		1.0		ug/L			12/17/21 17:19	1
Chloroethane	ND		1.0		ug/L			12/17/21 17:19	1
Chloroform	ND		1.0		ug/L			12/17/21 17:19	1
Chloromethane	ND		1.0		ug/L			12/17/21 17:19	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 17:19	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 17:19	1
Dibromomethane	ND		1.0		ug/L			12/17/21 17:19	1
Ethylbenzene	ND		1.0		ug/L			12/17/21 17:19	1
1,2-Dibromoethane	ND		1.0		ug/L			12/17/21 17:19	1
Iodomethane	ND		1.0		ug/L			12/17/21 17:19	1
Methylene Chloride	ND		1.0		ug/L			12/17/21 17:19	1
Styrene	ND		1.0		ug/L			12/17/21 17:19	1
Tetrachloroethene	ND	*+	1.0		ug/L			12/17/21 17:19	1
Trichlorofluoromethane	ND		1.0		ug/L			12/17/21 17:19	1
Trichloroethene	ND		1.0		ug/L			12/17/21 17:19	1
Toluene	ND		1.0		ug/L			12/17/21 17:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 17:19	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 17:19	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/17/21 17:19	1
Vinyl acetate	ND		5.0		ug/L			12/17/21 17:19	1
Vinyl chloride	ND		1.0		ug/L			12/17/21 17:19	1
Xylenes, Total	ND		2.0		ug/L			12/17/21 17:19	1
m,p-Xylene	ND		2.0		ug/L			12/17/21 17:19	1
o-Xylene	ND		1.0		ug/L			12/17/21 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*12/17/21 17:19*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*12/17/21 17:19*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*12/17/21 17:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.2**		0.20		mg/L		12/16/21 08:40	12/16/21 19:11	1
Antimony	ND		0.020		mg/L		12/16/21 08:40	12/16/21 19:11	1
Arsenic	ND		0.015		mg/L		12/16/21 08:40	12/16/21 19:11	1
Barium	**0.33**		0.0020		mg/L		12/16/21 08:40	12/16/21 19:11	1
Beryllium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 19:11	1
Boron	**0.020**		0.020		mg/L		12/16/21 08:40	12/16/21 19:11	1
Cadmium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 19:11	1
Calcium	**38.5**		0.50		mg/L		12/16/21 08:40	12/16/21 19:11	1
Chromium	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 19:11	1
Cobalt	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 19:11	1

Client Sample ID: MW-6B
Lab Sample ID: 480-193436-7

Date Collected: 12/14/21 10:45
Matrix: Water
Date Received: 12/15/21 10:30

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.010		mg/L		12/16/21 08:40	12/16/21 19:11	1
Iron	**0.58**		0.050		mg/L		12/16/21 08:40	12/16/21 19:11	1
Lead	ND		0.010		mg/L		12/16/21 08:40	12/16/21 19:11	1
Magnesium	**9.9**		0.20		mg/L		12/16/21 08:40	12/16/21 19:11	1
Manganese	**0.24**		0.0030		mg/L		12/16/21 08:40	12/16/21 19:11	1
Nickel	ND		0.010		mg/L		12/16/21 08:40	12/16/21 19:11	1
Potassium	**1.0**		0.50		mg/L		12/16/21 08:40	12/16/21 19:11	1
Selenium	ND		0.025		mg/L		12/16/21 08:40	12/16/21 19:11	1
Silver	ND		0.0060		mg/L		12/16/21 08:40	12/16/21 19:11	1
Sodium	**14.2**		1.0		mg/L		12/16/21 08:40	12/16/21 19:11	1
Thallium	ND		0.020		mg/L		12/16/21 08:40	12/16/21 19:11	1
Vanadium	ND		0.0050		mg/L		12/16/21 08:40	12/16/21 19:11	1
Zinc	**0.013**		0.010		mg/L		12/16/21 08:40	12/16/21 19:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/16/21 13:46	12/16/21 17:55	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**137**		0.50		mg/L			12/27/21 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/21/21 19:37	1
Alkalinity, Total	**142**		30.0		mg/L			12/21/21 02:15	3
Cyanide, Total	ND		0.010		mg/L		12/20/21 10:38	12/20/21 11:43	1
Ammonia	ND		0.020		mg/L			12/16/21 09:51	1
Total Kjeldahl Nitrogen	ND		0.20		mg/L		12/16/21 11:28	12/17/21 07:54	1
Nitrate as N	**0.063**		0.050		mg/L			12/15/21 21:26	1
Chemical Oxygen Demand	ND		10.0		mg/L			12/17/21 19:30	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/16/21 09:36	1
Chromium, hexavalent	ND	H	0.010		mg/L			12/15/21 13:28	1
Sulfate	**23.5**		5.0		mg/L			12/17/21 03:08	1
Total Dissolved Solids	**180**		10.0		mg/L			12/16/21 13:25	1
Chloride	**18.3**		1.0		mg/L			12/17/21 19:02	1
Biochemical Oxygen Demand	ND		2.0		mg/L			12/16/21 08:54	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			12/20/21 18:52	1
TOC Result 1	ND		1.0		mg/L			12/20/21 18:52	1
TOC Result 2	ND		1.0		mg/L			12/20/21 18:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**5.00**		5.00		Color Units			12/15/21 16:48	1

Client Sample ID: MW-7A
Lab Sample ID: 480-193436-8

Date Collected: 12/14/21 11:15
Matrix: Water
Date Received: 12/15/21 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 17:42	1

Client Sample ID: MW-7A
Date Collected: 12/14/21 11:15
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0		ug/L			12/17/21 17:42	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 17:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/17/21 17:42	1
1,1-Dichloroethane	ND		1.0		ug/L			12/17/21 17:42	1
1,1-Dichloroethene	ND		1.0		ug/L			12/17/21 17:42	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/17/21 17:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/17/21 17:42	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/17/21 17:42	1
1,2-Dichloroethane	ND		1.0		ug/L			12/17/21 17:42	1
1,2-Dichloropropane	ND		1.0		ug/L			12/17/21 17:42	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/17/21 17:42	1
2-Butanone (MEK)	ND		10		ug/L			12/17/21 17:42	1
2-Hexanone	ND		5.0		ug/L			12/17/21 17:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/17/21 17:42	1
Acetone	ND		10		ug/L			12/17/21 17:42	1
Acrylonitrile	ND		5.0		ug/L			12/17/21 17:42	1
Benzene	ND		1.0		ug/L			12/17/21 17:42	1
Chlorobromomethane	ND		1.0		ug/L			12/17/21 17:42	1
Bromodichloromethane	ND		1.0		ug/L			12/17/21 17:42	1
Bromoform	ND		1.0		ug/L			12/17/21 17:42	1
Bromomethane	ND		1.0		ug/L			12/17/21 17:42	1
Carbon disulfide	ND		1.0		ug/L			12/17/21 17:42	1
Carbon tetrachloride	ND		1.0		ug/L			12/17/21 17:42	1
Chlorobenzene	ND		1.0		ug/L			12/17/21 17:42	1
Dibromochloromethane	ND		1.0		ug/L			12/17/21 17:42	1
Chloroethane	ND		1.0		ug/L			12/17/21 17:42	1
Chloroform	ND		1.0		ug/L			12/17/21 17:42	1
Chloromethane	ND		1.0		ug/L			12/17/21 17:42	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 17:42	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 17:42	1
Dibromomethane	ND		1.0		ug/L			12/17/21 17:42	1
Ethylbenzene	ND		1.0		ug/L			12/17/21 17:42	1
1,2-Dibromoethane	ND		1.0		ug/L			12/17/21 17:42	1
Iodomethane	ND		1.0		ug/L			12/17/21 17:42	1
Methylene Chloride	ND		1.0		ug/L			12/17/21 17:42	1
Styrene	ND		1.0		ug/L			12/17/21 17:42	1
Tetrachloroethene	ND	*+	1.0		ug/L			12/17/21 17:42	1
Trichlorofluoromethane	ND		1.0		ug/L			12/17/21 17:42	1
Trichloroethene	ND		1.0		ug/L			12/17/21 17:42	1
Toluene	ND		1.0		ug/L			12/17/21 17:42	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 17:42	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 17:42	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/17/21 17:42	1
Vinyl acetate	ND		5.0		ug/L			12/17/21 17:42	1
Vinyl chloride	ND		1.0		ug/L			12/17/21 17:42	1
Xylenes, Total	ND		2.0		ug/L			12/17/21 17:42	1
m,p-Xylene	ND		2.0		ug/L			12/17/21 17:42	1
o-Xylene	ND		1.0		ug/L			12/17/21 17:42	1

Client Sample ID: MW-7A

Date Collected: 12/14/21 11:15
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*12/17/21 17:42*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*12/17/21 17:42*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*12/17/21 17:42*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.22**		0.20		mg/L		12/16/21 08:40	12/16/21 19:15	1
Antimony	ND		0.020		mg/L		12/16/21 08:40	12/16/21 19:15	1
Arsenic	ND		0.015		mg/L		12/16/21 08:40	12/16/21 19:15	1
Barium	**0.19**		0.0020		mg/L		12/16/21 08:40	12/16/21 19:15	1
Beryllium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 19:15	1
Boron	**0.12**		0.020		mg/L		12/16/21 08:40	12/16/21 19:15	1
Cadmium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 19:15	1
Calcium	**75.8**		0.50		mg/L		12/16/21 08:40	12/16/21 19:15	1
Chromium	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 19:15	1
Cobalt	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 19:15	1
Copper	ND		0.010		mg/L		12/16/21 08:40	12/16/21 19:15	1
Iron	**0.32**		0.050		mg/L		12/16/21 08:40	12/16/21 19:15	1
Lead	ND		0.010		mg/L		12/16/21 08:40	12/16/21 19:15	1
Magnesium	**15.0**		0.20		mg/L		12/16/21 08:40	12/16/21 19:15	1
Manganese	**2.3**		0.0030		mg/L		12/16/21 08:40	12/16/21 19:15	1
Nickel	ND		0.010		mg/L		12/16/21 08:40	12/16/21 19:15	1
Potassium	**2.2**		0.50		mg/L		12/16/21 08:40	12/16/21 19:15	1
Selenium	ND		0.025		mg/L		12/16/21 08:40	12/16/21 19:15	1
Silver	ND		0.0060		mg/L		12/16/21 08:40	12/16/21 19:15	1
Sodium	**20.8**		1.0		mg/L		12/16/21 08:40	12/16/21 19:15	1
Thallium	ND		0.020		mg/L		12/16/21 08:40	12/16/21 19:15	1
Vanadium	ND		0.0050		mg/L		12/16/21 08:40	12/16/21 19:15	1
Zinc	ND		0.010		mg/L		12/16/21 08:40	12/16/21 19:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/16/21 13:46	12/16/21 17:57	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	**251**		0.50		mg/L			12/27/21 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.40		mg/L			12/21/21 19:56	2
Alkalinity, Total	**279**		50.0		mg/L			12/21/21 02:15	5
Cyanide, Total	**0.011**		0.010		mg/L		12/20/21 10:38	12/20/21 11:45	1
Ammonia	ND		0.020		mg/L			12/16/21 09:52	1
Total Kjeldahl Nitrogen	**0.49**		0.20		mg/L		12/16/21 11:28	12/17/21 07:54	1
Nitrate as N	**0.12**		0.050		mg/L			12/15/21 21:28	1
Chemical Oxygen Demand	**20.1**		10.0		mg/L			12/17/21 19:30	1
Phenolics, Total Recoverable	ND		0.010		mg/L			12/16/21 10:02	1
Chromium, hexavalent	ND	H	0.010		mg/L			12/15/21 13:28	1
Sulfate	ND		5.0		mg/L			12/17/21 03:08	1
Total Dissolved Solids	**295**		10.0		mg/L			12/16/21 13:25	1

Client Sample ID: MW-7A
Date Collected: 12/14/21 11:15
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-8
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.8**		1.0		mg/L			12/17/21 19:02	1
Biochemical Oxygen Demand	ND		2.0		mg/L			12/16/21 08:54	1
Total Organic Carbon - Duplicates	**6.4**		1.0		mg/L			12/20/21 19:07	1
TOC Result 1	**6.5**		1.0		mg/L			12/20/21 19:07	1
TOC Result 2	**6.3**		1.0		mg/L			12/20/21 19:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	**15.0**		5.00		Color Units			12/15/21 16:48	1

Surrogate Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193436-1
SDG: 193337

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	TOL	BFB
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)
480-193436-2	MW-3A	107	103	102
480-193436-3	MW-3B	108	104	102
480-193436-4	MW-4A	103	100	98
480-193436-5	MW-5A	118	102	105
480-193436-6	MW-6A	106	99	93
480-193436-7	MW-6B	105	105	102
480-193436-8	MW-7A	112	105	104
LCS 480-609322/5	Lab Control Sample	101	106	102
MB 480-609322/7	Method Blank	104	104	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-609322/7
Matrix: Water
Analysis Batch: 609322

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 14:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			12/17/21 14:54	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			12/17/21 14:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			12/17/21 14:54	1
1,1-Dichloroethane	ND		1.0		ug/L			12/17/21 14:54	1
1,1-Dichloroethene	ND		1.0		ug/L			12/17/21 14:54	1
1,2,3-Trichloropropane	ND		1.0		ug/L			12/17/21 14:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			12/17/21 14:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			12/17/21 14:54	1
1,2-Dichloroethane	ND		1.0		ug/L			12/17/21 14:54	1
1,2-Dichloropropane	ND		1.0		ug/L			12/17/21 14:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			12/17/21 14:54	1
2-Butanone (MEK)	ND		10		ug/L			12/17/21 14:54	1
2-Hexanone	ND		5.0		ug/L			12/17/21 14:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			12/17/21 14:54	1
Acetone	ND		10		ug/L			12/17/21 14:54	1
Acrylonitrile	ND		5.0		ug/L			12/17/21 14:54	1
Benzene	ND		1.0		ug/L			12/17/21 14:54	1
Chlorobromomethane	ND		1.0		ug/L			12/17/21 14:54	1
Bromodichloromethane	ND		1.0		ug/L			12/17/21 14:54	1
Bromoform	ND		1.0		ug/L			12/17/21 14:54	1
Bromomethane	ND		1.0		ug/L			12/17/21 14:54	1
Carbon disulfide	ND		1.0		ug/L			12/17/21 14:54	1
Carbon tetrachloride	ND		1.0		ug/L			12/17/21 14:54	1
Chlorobenzene	ND		1.0		ug/L			12/17/21 14:54	1
Dibromochloromethane	ND		1.0		ug/L			12/17/21 14:54	1
Chloroethane	ND		1.0		ug/L			12/17/21 14:54	1
Chloroform	ND		1.0		ug/L			12/17/21 14:54	1
Chloromethane	ND		1.0		ug/L			12/17/21 14:54	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 14:54	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 14:54	1
Dibromomethane	ND		1.0		ug/L			12/17/21 14:54	1
Ethylbenzene	ND		1.0		ug/L			12/17/21 14:54	1
1,2-Dibromoethane	ND		1.0		ug/L			12/17/21 14:54	1
Iodomethane	ND		1.0		ug/L			12/17/21 14:54	1
Methylene Chloride	ND		1.0		ug/L			12/17/21 14:54	1
Styrene	ND		1.0		ug/L			12/17/21 14:54	1
Tetrachloroethene	ND		1.0		ug/L			12/17/21 14:54	1
Trichlorofluoromethane	ND		1.0		ug/L			12/17/21 14:54	1
Trichloroethene	ND		1.0		ug/L			12/17/21 14:54	1
Toluene	ND		1.0		ug/L			12/17/21 14:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			12/17/21 14:54	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			12/17/21 14:54	1
trans-1,4-Dichloro-2-butene	ND		1.0		ug/L			12/17/21 14:54	1
Vinyl acetate	ND		5.0		ug/L			12/17/21 14:54	1
Vinyl chloride	ND		1.0		ug/L			12/17/21 14:54	1
Xylenes, Total	ND		2.0		ug/L			12/17/21 14:54	1
m,p-Xylene	ND		2.0		ug/L			12/17/21 14:54	1

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

Lab Sample ID: MB 480-609322/7
Matrix: Water
Analysis Batch: 609322

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			12/17/21 14:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*12/17/21 14:54*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*12/17/21 14:54*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*12/17/21 14:54*	*1*

Lab Sample ID: LCS 480-609322/5
Matrix: Water
Analysis Batch: 609322

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L		101	80 - 120
1,1,1-Trichloroethane	25.0	25.7		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.8		ug/L		103	76 - 120
1,1,2-Trichloroethane	25.0	27.8		ug/L		111	76 - 122
1,1-Dichloroethane	25.0	24.6		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	26.5		ug/L		106	66 - 127
1,2,3-Trichloropropane	25.0	23.9		ug/L		96	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	17.2		ug/L		69	56 - 134
1,2-Dichlorobenzene	25.0	26.4		ug/L		106	80 - 124
1,2-Dichloroethane	25.0	25.4		ug/L		102	75 - 120
1,2-Dichloropropane	25.0	25.7		ug/L		103	76 - 120
1,4-Dichlorobenzene	25.0	28.0		ug/L		112	80 - 120
2-Butanone (MEK)	125	114		ug/L		91	57 - 140
2-Hexanone	125	109		ug/L		87	65 - 127
4-Methyl-2-pentanone (MIBK)	125	108		ug/L		87	71 - 125
Acetone	125	95.8		ug/L		77	56 - 142
Acrylonitrile	250	199		ug/L		80	63 - 125
Benzene	25.0	27.1		ug/L		108	71 - 124
Chlorobromomethane	25.0	25.5		ug/L		102	72 - 130
Bromodichloromethane	25.0	27.0		ug/L		108	80 - 122
Bromoform	25.0	25.0		ug/L		100	61 - 132
Bromomethane	25.0	28.0		ug/L		112	55 - 144
Carbon disulfide	25.0	24.8		ug/L		99	59 - 134
Carbon tetrachloride	25.0	26.9		ug/L		108	72 - 134
Chlorobenzene	25.0	27.0		ug/L		108	80 - 120
Dibromochloromethane	25.0	28.1		ug/L		112	75 - 125
Chloroethane	25.0	26.2		ug/L		105	69 - 136
Chloroform	25.0	25.1		ug/L		100	73 - 127
Chloromethane	25.0	25.2		ug/L		101	68 - 124
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
cis-1,3-Dichloropropene	25.0	28.4		ug/L		114	74 - 124
Dibromomethane	25.0	24.8		ug/L		99	76 - 127
Ethylbenzene	25.0	27.0		ug/L		108	77 - 123
1,2-Dibromoethane	25.0	27.6		ug/L		111	77 - 120
Iodomethane	25.0	23.0		ug/L		92	78 - 123
Methylene Chloride	25.0	24.8		ug/L		99	75 - 124

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

Lab Sample ID: LCS 480-609322/5
Matrix: Water
Analysis Batch: 609322

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	26.4		ug/L		106	80 - 120
Tetrachloroethene	25.0	31.7	*+	ug/L		127	74 - 122
Trichlorofluoromethane	25.0	29.3		ug/L		117	62 - 150
Trichloroethene	25.0	28.7		ug/L		115	74 - 123
Toluene	25.0	28.5		ug/L		114	80 - 122
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	73 - 127
trans-1,3-Dichloropropene	25.0	30.0		ug/L		120	80 - 120
trans-1,4-Dichloro-2-butene	25.0	27.6		ug/L		110	41 - 131
Vinyl acetate	50.0	57.2		ug/L		114	50 - 144
Vinyl chloride	25.0	25.7		ug/L		103	65 - 133
m,p-Xylene	25.0	27.2		ug/L		109	76 - 122
o-Xylene	25.0	26.5		ug/L		106	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-609016/1-A
Matrix: Water
Analysis Batch: 609279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20		mg/L		12/16/21 08:40	12/16/21 18:05	1
Antimony	ND		0.020		mg/L		12/16/21 08:40	12/16/21 18:05	1
Arsenic	ND		0.015		mg/L		12/16/21 08:40	12/16/21 18:05	1
Barium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 18:05	1
Beryllium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 18:05	1
Cadmium	ND		0.0020		mg/L		12/16/21 08:40	12/16/21 18:05	1
Calcium	ND		0.50		mg/L		12/16/21 08:40	12/16/21 18:05	1
Chromium	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 18:05	1
Cobalt	ND		0.0040		mg/L		12/16/21 08:40	12/16/21 18:05	1
Copper	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:05	1
Iron	ND		0.050		mg/L		12/16/21 08:40	12/16/21 18:05	1
Lead	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:05	1
Magnesium	ND		0.20		mg/L		12/16/21 08:40	12/16/21 18:05	1
Manganese	ND		0.0030		mg/L		12/16/21 08:40	12/16/21 18:05	1
Nickel	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:05	1
Potassium	ND		0.50		mg/L		12/16/21 08:40	12/16/21 18:05	1
Selenium	ND		0.025		mg/L		12/16/21 08:40	12/16/21 18:05	1
Silver	ND		0.0060		mg/L		12/16/21 08:40	12/16/21 18:05	1
Sodium	ND		1.0		mg/L		12/16/21 08:40	12/16/21 18:05	1
Thallium	ND		0.020		mg/L		12/16/21 08:40	12/16/21 18:05	1
Vanadium	ND		0.0050		mg/L		12/16/21 08:40	12/16/21 18:05	1
Zinc	ND		0.010		mg/L		12/16/21 08:40	12/16/21 18:05	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-609016/1-A
Matrix: Water
Analysis Batch: 609447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.020		mg/L		12/16/21 08:40	12/17/21 12:38	1

Lab Sample ID: LCS 480-609016/2-A
Matrix: Water
Analysis Batch: 609279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.84		mg/L		98	80 - 120
Antimony	0.200	0.215		mg/L		108	80 - 120
Arsenic	0.200	0.208		mg/L		104	80 - 120
Barium	0.200	0.211		mg/L		105	80 - 120
Beryllium	0.200	0.209		mg/L		104	80 - 120
Cadmium	0.200	0.202		mg/L		101	80 - 120
Calcium	10.0	10.05		mg/L		101	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.200	0.193		mg/L		96	80 - 120
Copper	0.200	0.196		mg/L		98	80 - 120
Iron	10.0	10.17		mg/L		102	80 - 120
Lead	0.200	0.199		mg/L		100	80 - 120
Magnesium	10.0	10.23		mg/L		102	80 - 120
Manganese	0.200	0.206		mg/L		103	80 - 120
Nickel	0.200	0.193		mg/L		97	80 - 120
Potassium	10.0	9.92		mg/L		99	80 - 120
Selenium	0.200	0.194		mg/L		97	80 - 120
Silver	0.0500	0.0481		mg/L		96	80 - 120
Sodium	10.0	9.71		mg/L		97	80 - 120
Thallium	0.200	0.204		mg/L		102	80 - 120
Vanadium	0.200	0.200		mg/L		100	80 - 120
Zinc	0.200	0.206		mg/L		103	80 - 120

Lab Sample ID: LCS 480-609016/2-A
Matrix: Water
Analysis Batch: 609447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.200	0.205		mg/L		102	80 - 120

Lab Sample ID: 480-193436-3 MS
Matrix: Water
Analysis Batch: 609279

Client Sample ID: MW-3B
Prep Type: Total/NA
Prep Batch: 609016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	10.03		mg/L		99	75 - 125
Antimony	ND		0.200	0.214		mg/L		107	75 - 125
Arsenic	ND		0.200	0.208		mg/L		104	75 - 125
Barium	0.20		0.200	0.404		mg/L		104	75 - 125
Beryllium	ND		0.200	0.211		mg/L		105	75 - 125
Cadmium	ND		0.200	0.204		mg/L		102	75 - 125
Calcium	47.2		10.0	57.36	4	mg/L		102	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-193436-3 MS
Matrix: Water
Analysis Batch: 609279

Client Sample ID: MW-3B
Prep Type: Total/NA
Prep Batch: 609016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	ND		0.200	0.199		mg/L		99	75 - 125
Cobalt	ND		0.200	0.195		mg/L		97	75 - 125
Copper	ND		0.200	0.196		mg/L		98	75 - 125
Iron	0.13		10.0	10.29		mg/L		102	75 - 125
Lead	ND		0.200	0.201		mg/L		101	75 - 125
Magnesium	13.7		10.0	23.97		mg/L		103	75 - 125
Manganese	0.022		0.200	0.227		mg/L		102	75 - 125
Nickel	ND		0.200	0.194		mg/L		97	75 - 125
Potassium	1.1		10.0	11.10		mg/L		100	75 - 125
Selenium	ND		0.200	0.198		mg/L		99	75 - 125
Silver	ND		0.0500	0.0505		mg/L		101	75 - 125
Sodium	8.0		10.0	17.75		mg/L		98	75 - 125
Thallium	ND		0.200	0.208		mg/L		104	75 - 125
Vanadium	ND		0.200	0.201		mg/L		100	75 - 125
Zinc	ND		0.200	0.207		mg/L		102	75 - 125

Lab Sample ID: 480-193436-3 MS
Matrix: Water
Analysis Batch: 609447

Client Sample ID: MW-3B
Prep Type: Total/NA
Prep Batch: 609016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.030		0.200	0.241		mg/L		105	75 - 125

Lab Sample ID: 480-193436-3 MSD
Matrix: Water
Analysis Batch: 609279

Client Sample ID: MW-3B
Prep Type: Total/NA
Prep Batch: 609016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	10.23		mg/L		101	75 - 125	2	20
Antimony	ND		0.200	0.219		mg/L		109	75 - 125	2	20
Arsenic	ND		0.200	0.211		mg/L		105	75 - 125	1	20
Barium	0.20		0.200	0.406		mg/L		105	75 - 125	1	20
Beryllium	ND		0.200	0.213		mg/L		107	75 - 125	1	20
Cadmium	ND		0.200	0.207		mg/L		103	75 - 125	2	20
Calcium	47.2		10.0	57.97	4	mg/L		108	75 - 125	1	20
Chromium	ND		0.200	0.201		mg/L		100	75 - 125	1	20
Cobalt	ND		0.200	0.197		mg/L		98	75 - 125	1	20
Copper	ND		0.200	0.200		mg/L		100	75 - 125	2	20
Iron	0.13		10.0	10.34		mg/L		102	75 - 125	1	20
Lead	ND		0.200	0.205		mg/L		102	75 - 125	2	20
Magnesium	13.7		10.0	24.29		mg/L		106	75 - 125	1	20
Manganese	0.022		0.200	0.229		mg/L		103	75 - 125	1	20
Nickel	ND		0.200	0.196		mg/L		98	75 - 125	1	20
Potassium	1.1		10.0	11.22		mg/L		101	75 - 125	1	20
Selenium	ND		0.200	0.199		mg/L		100	75 - 125	1	20
Silver	ND		0.0500	0.0510		mg/L		102	75 - 125	1	20
Sodium	8.0		10.0	18.05		mg/L		101	75 - 125	2	20
Thallium	ND		0.200	0.208		mg/L		104	75 - 125	0	20
Vanadium	ND		0.200	0.203		mg/L		101	75 - 125	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-193436-3 MSD
Matrix: Water
Analysis Batch: 609279

Client Sample ID: MW-3B
Prep Type: Total/NA
Prep Batch: 609016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	ND		0.200	0.209		mg/L		103	75 - 125	1	20

Lab Sample ID: 480-193436-3 MSD
Matrix: Water
Analysis Batch: 609447

Client Sample ID: MW-3B
Prep Type: Total/NA
Prep Batch: 609016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	0.030		0.200	0.244		mg/L		107	75 - 125	1	20

Lab Sample ID: MB 480-609873/1-B
Matrix: Water
Analysis Batch: 610207

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 610008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		12/27/21 08:36	12/27/21 16:02	1
Calcium	ND		0.50		mg/L		12/27/21 08:36	12/27/21 16:02	1
Iron	ND		0.050		mg/L		12/27/21 08:36	12/27/21 16:02	1
Lead	ND		0.010		mg/L		12/27/21 08:36	12/27/21 16:02	1
Magnesium	ND		0.20		mg/L		12/27/21 08:36	12/27/21 16:02	1
Manganese	ND		0.0030		mg/L		12/27/21 08:36	12/27/21 16:02	1
Potassium	ND		0.50		mg/L		12/27/21 08:36	12/27/21 16:02	1
Sodium	ND		1.0		mg/L		12/27/21 08:36	12/27/21 16:02	1

Lab Sample ID: LCS 480-609873/2-B
Matrix: Water
Analysis Batch: 610207

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 610008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.200	0.193		mg/L		96	80 - 120
Calcium	10.0	9.62		mg/L		96	80 - 120
Iron	10.0	9.76		mg/L		98	80 - 120
Lead	0.200	0.191		mg/L		96	80 - 120
Magnesium	10.0	9.57		mg/L		96	80 - 120
Manganese	0.200	0.195		mg/L		97	80 - 120
Potassium	10.0	9.32		mg/L		93	80 - 120
Sodium	10.0	9.31		mg/L		93	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-609144/1-A
Matrix: Water
Analysis Batch: 609227

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609144

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/16/21 13:46	12/16/21 17:31	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 480-609144/2-A
Matrix: Water
Analysis Batch: 609227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609144

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00650		mg/L		97	80 - 120		

Lab Sample ID: 480-193436-4 MS
Matrix: Water
Analysis Batch: 609227

Client Sample ID: MW-4A
Prep Type: Total/NA
Prep Batch: 609144

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00667	0.00687		mg/L		103	80 - 120		

Lab Sample ID: 480-193436-4 MSD
Matrix: Water
Analysis Batch: 609227

Client Sample ID: MW-4A
Prep Type: Total/NA
Prep Batch: 609144

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00678		mg/L		102	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-609673/5
Matrix: Water
Analysis Batch: 609673

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			12/21/21 14:52	1

Lab Sample ID: LCS 480-609673/4
Matrix: Water
Analysis Batch: 609673

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Bromide			5.00	4.83		mg/L		97	90 - 110		

Lab Sample ID: 480-193436-2 MS
Matrix: Water
Analysis Batch: 609673

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Bromide	ND		5.00	4.49		mg/L		90	80 - 120		

Lab Sample ID: 480-193436-2 MSD
Matrix: Water
Analysis Batch: 609673

Client Sample ID: MW-3A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	ND		5.00	4.47		mg/L		89	80 - 120	0	15

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-609594/126
Matrix: Water
Analysis Batch: 609594

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/21/21 02:27	1

Lab Sample ID: MB 480-609594/131
Matrix: Water
Analysis Batch: 609594

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/21/21 02:39	1

Lab Sample ID: MB 480-609594/143
Matrix: Water
Analysis Batch: 609594

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/21/21 02:42	1

Lab Sample ID: MB 480-609594/20
Matrix: Water
Analysis Batch: 609594

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/21/21 01:56	1

Lab Sample ID: MB 480-609594/63
Matrix: Water
Analysis Batch: 609594

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/21/21 02:08	1

Lab Sample ID: MB 480-609594/75
Matrix: Water
Analysis Batch: 609594

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			12/21/21 02:13	1

Lab Sample ID: LCS 480-609594/130
Matrix: Water
Analysis Batch: 609594

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.39		mg/L		101	90 - 110

Lab Sample ID: LCS 480-609594/142
Matrix: Water
Analysis Batch: 609594

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	54.25		mg/L		108	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-609594/19
Matrix: Water
Analysis Batch: 609594

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	53.10		mg/L		106	90 - 110		

Lab Sample ID: LCS 480-609594/74
Matrix: Water
Analysis Batch: 609594

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity, Total			50.0	52.35		mg/L		105	90 - 110		

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-609491/1-A
Matrix: Water
Analysis Batch: 609504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609491

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010		mg/L		12/20/21 10:38	12/20/21 11:24	1

Lab Sample ID: LCS 480-609491/2-A
Matrix: Water
Analysis Batch: 609504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609491

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.400	0.440		mg/L		110	90 - 110		

Lab Sample ID: LCS 480-609491/3-A
Matrix: Water
Analysis Batch: 609504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609491

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.250	0.269		mg/L		108	90 - 110		

Lab Sample ID: 480-193436-3 MS
Matrix: Water
Analysis Batch: 609504

Client Sample ID: MW-3B
Prep Type: Total/NA
Prep Batch: 609491

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	0.010		0.100	0.111		mg/L		101	90 - 110		

Lab Sample ID: 480-193436-2 DU
Matrix: Water
Analysis Batch: 609504

Client Sample ID: MW-3A
Prep Type: Total/NA
Prep Batch: 609491

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	ND			ND		mg/L				NC	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-609112/27
Matrix: Water
Analysis Batch: 609112

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			12/16/21 09:56	1

Lab Sample ID: MB 480-609112/3
Matrix: Water
Analysis Batch: 609112

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			12/16/21 09:30	1

Lab Sample ID: LCS 480-609112/28
Matrix: Water
Analysis Batch: 609112

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: LCS 480-609112/4
Matrix: Water
Analysis Batch: 609112

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.05		mg/L		105	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-609130/1-A
Matrix: Water
Analysis Batch: 609250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		12/16/21 11:28	12/17/21 07:02	1

Lab Sample ID: LCS 480-609130/2-A
Matrix: Water
Analysis Batch: 609250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.36		mg/L		94	90 - 110

Lab Sample ID: 480-193436-2 MS
Matrix: Water
Analysis Batch: 609250

Client Sample ID: MW-3A
Prep Type: Total/NA
Prep Batch: 609130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.53	F1	1.00	1.77	F1	mg/L		123	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-609392/28
Matrix: Water
Analysis Batch: 609392

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			12/17/21 19:30	1

Lab Sample ID: MB 480-609392/4
Matrix: Water
Analysis Batch: 609392

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			12/17/21 19:30	1

Lab Sample ID: LCS 480-609392/29
Matrix: Water
Analysis Batch: 609392

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	26.77		mg/L		107	90 - 110

Lab Sample ID: LCS 480-609392/5
Matrix: Water
Analysis Batch: 609392

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	26.35		mg/L		105	90 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-609155/16
Matrix: Water
Analysis Batch: 609155

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			12/16/21 08:12	1

Lab Sample ID: MB 480-609155/44
Matrix: Water
Analysis Batch: 609155

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			12/16/21 09:56	1

Lab Sample ID: LCS 480-609155/17
Matrix: Water
Analysis Batch: 609155

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.0947		mg/L		95	90 - 110

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCS 480-609155/45
Matrix: Water
Analysis Batch: 609155

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.0930		mg/L		93	90 - 110

Lab Sample ID: 480-193436-8 MS
Matrix: Water
Analysis Batch: 609155

Client Sample ID: MW-7A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	ND		0.100	0.0897		mg/L		90	90 - 110

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-609017/3
Matrix: Water
Analysis Batch: 609017

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010		mg/L			12/15/21 13:28	1

Lab Sample ID: LCS 480-609017/4
Matrix: Water
Analysis Batch: 609017

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0500	0.0539		mg/L		108	85 - 115

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-609236/162
Matrix: Water
Analysis Batch: 609236

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			12/16/21 21:16	1

Lab Sample ID: LCS 480-609236/163
Matrix: Water
Analysis Batch: 609236

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	29.34		mg/L		98	90 - 110

Lab Sample ID: 480-193436-3 MS
Matrix: Water
Analysis Batch: 609236

Client Sample ID: MW-3B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.9		20.0	33.25		mg/L		112	60 - 128

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: 480-193436-3 MSD — **Client Sample ID: MW-3B**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609236

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.9		20.0	36.07		mg/L		126	60 - 128	8	20

Lab Sample ID: 480-193436-5 MS — **Client Sample ID: MW-5A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609236

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	16.5		20.0	36.09		mg/L		98	60 - 128

Lab Sample ID: 480-193436-5 MSD — **Client Sample ID: MW-5A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609236

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	16.5		20.0	39.57		mg/L		115	60 - 128	9	20

Method: SM 2120B - Color, Colorimetric

Lab Sample ID: MB 480-609043/27 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609043

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.00		Color Units			12/15/21 16:48	1

Lab Sample ID: MB 480-609043/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609043

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		5.00		Color Units			12/15/21 16:48	1

Lab Sample ID: LCS 480-609043/28 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609043

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Color	30.0	30.00		Color Units		100	90 - 110

Lab Sample ID: LCS 480-609043/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609043

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Color	30.0	30.00		Color Units		100	90 - 110

Method: SM 2120B - Color, Colorimetric (Continued)

Lab Sample ID: 480-193436-4 DU
Matrix: Water
Analysis Batch: 609043

Client Sample ID: MW-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Color	15.0			15.00		Color Units				0	20

Lab Sample ID: 480-193436-5 DU
Matrix: Water
Analysis Batch: 609043

Client Sample ID: MW-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Color	15.0			15.00		Color Units				0	20

Lab Sample ID: 480-193436-8 DU
Matrix: Water
Analysis Batch: 609043

Client Sample ID: MW-7A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Color	15.0			15.00		Color Units				0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-609137/1
Matrix: Water
Analysis Batch: 609137

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			12/16/21 11:55	1

Lab Sample ID: LCS 480-609137/2
Matrix: Water
Analysis Batch: 609137

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			504	452.0		mg/L		90	85 - 115		

Lab Sample ID: 480-193436-3 DU
Matrix: Water
Analysis Batch: 609137

Client Sample ID: MW-3B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	264			278.0		mg/L				5	10

Lab Sample ID: MB 480-609158/1
Matrix: Water
Analysis Batch: 609158

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			12/16/21 13:25	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 480-609158/2
Matrix: Water
Analysis Batch: 609158

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			504	485.0		mg/L		96	85 - 115		

Lab Sample ID: 480-193436-4 DU
Matrix: Water
Analysis Batch: 609158

Client Sample ID: MW-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	468			463.0		mg/L				1	10

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 480-609377/24
Matrix: Water
Analysis Batch: 609377

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/17/21 18:49	1

Lab Sample ID: MB 480-609377/32
Matrix: Water
Analysis Batch: 609377

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/17/21 18:57	1

Lab Sample ID: MB 480-609377/44
Matrix: Water
Analysis Batch: 609377

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			12/17/21 19:01	1

Lab Sample ID: LCS 480-609377/31
Matrix: Water
Analysis Batch: 609377

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.25		mg/L		105	90 - 110		

Lab Sample ID: LCS 480-609377/43
Matrix: Water
Analysis Batch: 609377

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			25.0	26.11		mg/L		104	90 - 110		

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 480-193436-4 MS — **Client Sample ID: MW-4A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609377

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.9	F1	20.0	31.59		mg/L		109	74 - 131

Lab Sample ID: 480-193436-4 MSD — **Client Sample ID: MW-4A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609377

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.9	F1	20.0	31.79		mg/L		110	74 - 131	1	20

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: MB 480-609214/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609214

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			12/16/21 08:54	1

Lab Sample ID: MB 480-609214/24 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609214

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			12/16/21 08:54	1

Lab Sample ID: LCS 480-609214/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	9900	9230		mg/L		93	85 - 115

Lab Sample ID: LCS 480-609214/25 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	9900	8846		mg/L		89	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 480-609655/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 609655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			12/20/21 13:42	1
TOC Result 1	ND		1.0		mg/L			12/20/21 13:42	1
TOC Result 2	ND		1.0		mg/L			12/20/21 13:42	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 480-609655/5
Matrix: Water
Analysis Batch: 609655

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	60.0	60.21		mg/L		100	90 - 110
TOC Result 1	60.0	60.69		mg/L		101	90 - 110
TOC Result 2	60.0	59.72		mg/L		100	90 - 110

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

Metals

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

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

Glossary

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

GC/MS VOA

Analysis Batch: 609322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	8260C	
480-193436-3	MW-3B	Total/NA	Water	8260C	
480-193436-4	MW-4A	Total/NA	Water	8260C	
480-193436-5	MW-5A	Total/NA	Water	8260C	
480-193436-6	MW-6A	Total/NA	Water	8260C	
480-193436-7	MW-6B	Total/NA	Water	8260C	
480-193436-8	MW-7A	Total/NA	Water	8260C	
MB 480-609322/7	Method Blank	Total/NA	Water	8260C	
LCS 480-609322/5	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 609016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	3005A	
480-193436-3	MW-3B	Total/NA	Water	3005A	
480-193436-4	MW-4A	Total/NA	Water	3005A	
480-193436-5	MW-5A	Total/NA	Water	3005A	
480-193436-6	MW-6A	Total/NA	Water	3005A	
480-193436-7	MW-6B	Total/NA	Water	3005A	
480-193436-8	MW-7A	Total/NA	Water	3005A	
MB 480-609016/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-609016/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-193436-3 MS	MW-3B	Total/NA	Water	3005A	
480-193436-3 MSD	MW-3B	Total/NA	Water	3005A	

Prep Batch: 609144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	7470A	
480-193436-3	MW-3B	Total/NA	Water	7470A	
480-193436-4	MW-4A	Total/NA	Water	7470A	
480-193436-5	MW-5A	Total/NA	Water	7470A	
480-193436-6	MW-6A	Total/NA	Water	7470A	
480-193436-7	MW-6B	Total/NA	Water	7470A	
480-193436-8	MW-7A	Total/NA	Water	7470A	
MB 480-609144/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-609144/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-193436-4 MS	MW-4A	Total/NA	Water	7470A	
480-193436-4 MSD	MW-4A	Total/NA	Water	7470A	

Analysis Batch: 609227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	7470A	609144
480-193436-3	MW-3B	Total/NA	Water	7470A	609144
480-193436-4	MW-4A	Total/NA	Water	7470A	609144
480-193436-5	MW-5A	Total/NA	Water	7470A	609144
480-193436-6	MW-6A	Total/NA	Water	7470A	609144
480-193436-7	MW-6B	Total/NA	Water	7470A	609144
480-193436-8	MW-7A	Total/NA	Water	7470A	609144
MB 480-609144/1-A	Method Blank	Total/NA	Water	7470A	609144
LCS 480-609144/2-A	Lab Control Sample	Total/NA	Water	7470A	609144

Metals (Continued)

Analysis Batch: 609227 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-4 MS	MW-4A	Total/NA	Water	7470A	609144
480-193436-4 MSD	MW-4A	Total/NA	Water	7470A	609144

Analysis Batch: 609279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	6010C	609016
480-193436-3	MW-3B	Total/NA	Water	6010C	609016
480-193436-4	MW-4A	Total/NA	Water	6010C	609016
480-193436-5	MW-5A	Total/NA	Water	6010C	609016
480-193436-6	MW-6A	Total/NA	Water	6010C	609016
480-193436-7	MW-6B	Total/NA	Water	6010C	609016
480-193436-8	MW-7A	Total/NA	Water	6010C	609016
MB 480-609016/1-A	Method Blank	Total/NA	Water	6010C	609016
LCS 480-609016/2-A	Lab Control Sample	Total/NA	Water	6010C	609016
480-193436-3 MS	MW-3B	Total/NA	Water	6010C	609016
480-193436-3 MSD	MW-3B	Total/NA	Water	6010C	609016

Analysis Batch: 609447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	6010C	609016
480-193436-3	MW-3B	Total/NA	Water	6010C	609016
480-193436-4	MW-4A	Total/NA	Water	6010C	609016
480-193436-5	MW-5A	Total/NA	Water	6010C	609016
MB 480-609016/1-A	Method Blank	Total/NA	Water	6010C	609016
LCS 480-609016/2-A	Lab Control Sample	Total/NA	Water	6010C	609016
480-193436-3 MS	MW-3B	Total/NA	Water	6010C	609016
480-193436-3 MSD	MW-3B	Total/NA	Water	6010C	609016

Filtration Batch: 609873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-6	MW-6A	Dissolved	Water	FILTRATION	
MB 480-609873/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-609873/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	

Prep Batch: 610008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-6	MW-6A	Dissolved	Water	3005A	609873
MB 480-609873/1-B	Method Blank	Dissolved	Water	3005A	609873
LCS 480-609873/2-B	Lab Control Sample	Dissolved	Water	3005A	609873

Analysis Batch: 610089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	SM 2340B	
480-193436-3	MW-3B	Total/NA	Water	SM 2340B	
480-193436-4	MW-4A	Total/NA	Water	SM 2340B	
480-193436-5	MW-5A	Total/NA	Water	SM 2340B	
480-193436-6	MW-6A	Total/NA	Water	SM 2340B	
480-193436-7	MW-6B	Total/NA	Water	SM 2340B	
480-193436-8	MW-7A	Total/NA	Water	SM 2340B	

Metals

Analysis Batch: 610207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-6	MW-6A	Dissolved	Water	6010C	610008
MB 480-609873/1-B	Method Blank	Dissolved	Water	6010C	610008
LCS 480-609873/2-B	Lab Control Sample	Dissolved	Water	6010C	610008

General Chemistry

Analysis Batch: 609017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	7196A	
480-193436-3	MW-3B	Total/NA	Water	7196A	
480-193436-4	MW-4A	Total/NA	Water	7196A	
480-193436-5	MW-5A	Total/NA	Water	7196A	
480-193436-6	MW-6A	Total/NA	Water	7196A	
480-193436-7	MW-6B	Total/NA	Water	7196A	
480-193436-8	MW-7A	Total/NA	Water	7196A	
MB 480-609017/3	Method Blank	Total/NA	Water	7196A	
LCS 480-609017/4	Lab Control Sample	Total/NA	Water	7196A	

Analysis Batch: 609043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	SM 2120B	
480-193436-3	MW-3B	Total/NA	Water	SM 2120B	
480-193436-4	MW-4A	Total/NA	Water	SM 2120B	
480-193436-5	MW-5A	Total/NA	Water	SM 2120B	
480-193436-6	MW-6A	Total/NA	Water	SM 2120B	
480-193436-7	MW-6B	Total/NA	Water	SM 2120B	
480-193436-8	MW-7A	Total/NA	Water	SM 2120B	
MB 480-609043/27	Method Blank	Total/NA	Water	SM 2120B	
MB 480-609043/3	Method Blank	Total/NA	Water	SM 2120B	
LCS 480-609043/28	Lab Control Sample	Total/NA	Water	SM 2120B	
LCS 480-609043/4	Lab Control Sample	Total/NA	Water	SM 2120B	
480-193436-4 DU	MW-4A	Total/NA	Water	SM 2120B	
480-193436-5 DU	MW-5A	Total/NA	Water	SM 2120B	
480-193436-8 DU	MW-7A	Total/NA	Water	SM 2120B	

Analysis Batch: 609049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	353.2	
480-193436-3	MW-3B	Total/NA	Water	353.2	
480-193436-4	MW-4A	Total/NA	Water	353.2	
480-193436-5	MW-5A	Total/NA	Water	353.2	
480-193436-6	MW-6A	Total/NA	Water	353.2	
480-193436-7	MW-6B	Total/NA	Water	353.2	
480-193436-8	MW-7A	Total/NA	Water	353.2	

Analysis Batch: 609112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	350.1	
480-193436-3	MW-3B	Total/NA	Water	350.1	
480-193436-4	MW-4A	Total/NA	Water	350.1	
480-193436-5	MW-5A	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 609112 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-6	MW-6A	Total/NA	Water	350.1	
480-193436-7	MW-6B	Total/NA	Water	350.1	
480-193436-8	MW-7A	Total/NA	Water	350.1	
MB 480-609112/27	Method Blank	Total/NA	Water	350.1	
MB 480-609112/3	Method Blank	Total/NA	Water	350.1	
LCS 480-609112/28	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-609112/4	Lab Control Sample	Total/NA	Water	350.1	

Prep Batch: 609130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	351.2	
480-193436-3	MW-3B	Total/NA	Water	351.2	
480-193436-4	MW-4A	Total/NA	Water	351.2	
480-193436-5	MW-5A	Total/NA	Water	351.2	
480-193436-6	MW-6A	Total/NA	Water	351.2	
480-193436-7	MW-6B	Total/NA	Water	351.2	
480-193436-8	MW-7A	Total/NA	Water	351.2	
MB 480-609130/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-609130/2-A	Lab Control Sample	Total/NA	Water	351.2	
480-193436-2 MS	MW-3A	Total/NA	Water	351.2	

Analysis Batch: 609137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	SM 2540C	
480-193436-3	MW-3B	Total/NA	Water	SM 2540C	
MB 480-609137/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-609137/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-193436-3 DU	MW-3B	Total/NA	Water	SM 2540C	

Analysis Batch: 609155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	420.4	
480-193436-3	MW-3B	Total/NA	Water	420.4	
480-193436-4	MW-4A	Total/NA	Water	420.4	
480-193436-5	MW-5A	Total/NA	Water	420.4	
480-193436-6	MW-6A	Total/NA	Water	420.4	
480-193436-7	MW-6B	Total/NA	Water	420.4	
480-193436-8	MW-7A	Total/NA	Water	420.4	
MB 480-609155/16	Method Blank	Total/NA	Water	420.4	
MB 480-609155/44	Method Blank	Total/NA	Water	420.4	
LCS 480-609155/17	Lab Control Sample	Total/NA	Water	420.4	
LCS 480-609155/45	Lab Control Sample	Total/NA	Water	420.4	
480-193436-8 MS	MW-7A	Total/NA	Water	420.4	

Analysis Batch: 609158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-4	MW-4A	Total/NA	Water	SM 2540C	
480-193436-5	MW-5A	Total/NA	Water	SM 2540C	
480-193436-6	MW-6A	Total/NA	Water	SM 2540C	
480-193436-7	MW-6B	Total/NA	Water	SM 2540C	
480-193436-8	MW-7A	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 609158 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-609158/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-609158/2	Lab Control Sample	Total/NA	Water	SM 2540C	
480-193436-4 DU	MW-4A	Total/NA	Water	SM 2540C	

Analysis Batch: 609214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	SM 5210B	
480-193436-3	MW-3B	Total/NA	Water	SM 5210B	
480-193436-4	MW-4A	Total/NA	Water	SM 5210B	
480-193436-5	MW-5A	Total/NA	Water	SM 5210B	
480-193436-6	MW-6A	Total/NA	Water	SM 5210B	
480-193436-7	MW-6B	Total/NA	Water	SM 5210B	
480-193436-8	MW-7A	Total/NA	Water	SM 5210B	
MB 480-609214/1	Method Blank	Total/NA	Water	SM 5210B	
MB 480-609214/24	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-609214/2	Lab Control Sample	Total/NA	Water	SM 5210B	
LCS 480-609214/25	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 609236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	9038	
480-193436-3	MW-3B	Total/NA	Water	9038	
480-193436-4	MW-4A	Total/NA	Water	9038	
480-193436-5	MW-5A	Total/NA	Water	9038	
480-193436-6	MW-6A	Total/NA	Water	9038	
480-193436-7	MW-6B	Total/NA	Water	9038	
480-193436-8	MW-7A	Total/NA	Water	9038	
MB 480-609236/162	Method Blank	Total/NA	Water	9038	
LCS 480-609236/163	Lab Control Sample	Total/NA	Water	9038	
480-193436-3 MS	MW-3B	Total/NA	Water	9038	
480-193436-3 MSD	MW-3B	Total/NA	Water	9038	
480-193436-5 MS	MW-5A	Total/NA	Water	9038	
480-193436-5 MSD	MW-5A	Total/NA	Water	9038	

Analysis Batch: 609250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	351.2	609130
480-193436-3	MW-3B	Total/NA	Water	351.2	609130
480-193436-4	MW-4A	Total/NA	Water	351.2	609130
480-193436-5	MW-5A	Total/NA	Water	351.2	609130
480-193436-6	MW-6A	Total/NA	Water	351.2	609130
480-193436-7	MW-6B	Total/NA	Water	351.2	609130
480-193436-8	MW-7A	Total/NA	Water	351.2	609130
MB 480-609130/1-A	Method Blank	Total/NA	Water	351.2	609130
LCS 480-609130/2-A	Lab Control Sample	Total/NA	Water	351.2	609130
480-193436-2 MS	MW-3A	Total/NA	Water	351.2	609130

Analysis Batch: 609377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	SM 4500 Cl- E	
480-193436-3	MW-3B	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 609377 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-4	MW-4A	Total/NA	Water	SM 4500 Cl- E	
480-193436-5	MW-5A	Total/NA	Water	SM 4500 Cl- E	
480-193436-6	MW-6A	Total/NA	Water	SM 4500 Cl- E	
480-193436-7	MW-6B	Total/NA	Water	SM 4500 Cl- E	
480-193436-8	MW-7A	Total/NA	Water	SM 4500 Cl- E	
MB 480-609377/24	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-609377/32	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-609377/44	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 480-609377/31	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-609377/43	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
480-193436-4 MS	MW-4A	Total/NA	Water	SM 4500 Cl- E	
480-193436-4 MSD	MW-4A	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 609392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	410.4	
480-193436-3	MW-3B	Total/NA	Water	410.4	
480-193436-4	MW-4A	Total/NA	Water	410.4	
480-193436-5	MW-5A	Total/NA	Water	410.4	
480-193436-6	MW-6A	Total/NA	Water	410.4	
480-193436-7	MW-6B	Total/NA	Water	410.4	
480-193436-8	MW-7A	Total/NA	Water	410.4	
MB 480-609392/28	Method Blank	Total/NA	Water	410.4	
MB 480-609392/4	Method Blank	Total/NA	Water	410.4	
LCS 480-609392/29	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-609392/5	Lab Control Sample	Total/NA	Water	410.4	

Prep Batch: 609491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	Distill/CN	
480-193436-3	MW-3B	Total/NA	Water	Distill/CN	
480-193436-4	MW-4A	Total/NA	Water	Distill/CN	
480-193436-5	MW-5A	Total/NA	Water	Distill/CN	
480-193436-6	MW-6A	Total/NA	Water	Distill/CN	
480-193436-7	MW-6B	Total/NA	Water	Distill/CN	
480-193436-8	MW-7A	Total/NA	Water	Distill/CN	
MB 480-609491/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 480-609491/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 480-609491/3-A	Lab Control Sample	Total/NA	Water	Distill/CN	
480-193436-3 MS	MW-3B	Total/NA	Water	Distill/CN	
480-193436-2 DU	MW-3A	Total/NA	Water	Distill/CN	

Analysis Batch: 609504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	335.4	609491
480-193436-3	MW-3B	Total/NA	Water	335.4	609491
480-193436-4	MW-4A	Total/NA	Water	335.4	609491
480-193436-5	MW-5A	Total/NA	Water	335.4	609491
480-193436-6	MW-6A	Total/NA	Water	335.4	609491
480-193436-7	MW-6B	Total/NA	Water	335.4	609491
480-193436-8	MW-7A	Total/NA	Water	335.4	609491

General Chemistry (Continued)

Analysis Batch: 609504 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-609491/1-A	Method Blank	Total/NA	Water	335.4	609491
LCS 480-609491/2-A	Lab Control Sample	Total/NA	Water	335.4	609491
LCS 480-609491/3-A	Lab Control Sample	Total/NA	Water	335.4	609491
480-193436-3 MS	MW-3B	Total/NA	Water	335.4	609491
480-193436-2 DU	MW-3A	Total/NA	Water	335.4	609491

Analysis Batch: 609594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	310.2	
480-193436-3	MW-3B	Total/NA	Water	310.2	
480-193436-4	MW-4A	Total/NA	Water	310.2	
480-193436-5	MW-5A	Total/NA	Water	310.2	
480-193436-6	MW-6A	Total/NA	Water	310.2	
480-193436-7	MW-6B	Total/NA	Water	310.2	
480-193436-8	MW-7A	Total/NA	Water	310.2	
MB 480-609594/126	Method Blank	Total/NA	Water	310.2	
MB 480-609594/131	Method Blank	Total/NA	Water	310.2	
MB 480-609594/143	Method Blank	Total/NA	Water	310.2	
MB 480-609594/20	Method Blank	Total/NA	Water	310.2	
MB 480-609594/63	Method Blank	Total/NA	Water	310.2	
MB 480-609594/75	Method Blank	Total/NA	Water	310.2	
LCS 480-609594/130	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-609594/142	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-609594/19	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-609594/74	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 609655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	SM 5310C	
480-193436-3	MW-3B	Total/NA	Water	SM 5310C	
480-193436-4	MW-4A	Total/NA	Water	SM 5310C	
480-193436-5	MW-5A	Total/NA	Water	SM 5310C	
480-193436-6	MW-6A	Total/NA	Water	SM 5310C	
480-193436-7	MW-6B	Total/NA	Water	SM 5310C	
480-193436-8	MW-7A	Total/NA	Water	SM 5310C	
MB 480-609655/4	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-609655/5	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 609673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193436-2	MW-3A	Total/NA	Water	300.0	
480-193436-3	MW-3B	Total/NA	Water	300.0	
480-193436-4	MW-4A	Total/NA	Water	300.0	
480-193436-5	MW-5A	Total/NA	Water	300.0	
480-193436-6	MW-6A	Total/NA	Water	300.0	
480-193436-7	MW-6B	Total/NA	Water	300.0	
480-193436-8	MW-7A	Total/NA	Water	300.0	
MB 480-609673/5	Method Blank	Total/NA	Water	300.0	
LCS 480-609673/4	Lab Control Sample	Total/NA	Water	300.0	
480-193436-2 MS	MW-3A	Total/NA	Water	300.0	
480-193436-2 MSD	MW-3A	Total/NA	Water	300.0	

Client Sample ID: MW-3A

Date Collected: 12/14/21 08:45
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	609322	12/17/21 15:24	AXK	TAL BUF
Total/NA	Prep	3005A			609016	12/16/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609279	12/16/21 18:24	AMH	TAL BUF
Total/NA	Prep	3005A			609016	12/16/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609447	12/17/21 12:45	AMH	TAL BUF
Total/NA	Prep	7470A			609144	12/16/21 13:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	609227	12/16/21 17:42	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	610089	12/27/21 09:21	JJP	TAL BUF
Total/NA	Analysis	300.0		1	609673	12/21/21 16:46	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	609594	12/21/21 02:42	SRW	TAL BUF
Total/NA	Prep	Distill/CN			609491	12/20/21 10:38	JGO	TAL BUF
Total/NA	Analysis	335.4		1	609504	12/20/21 11:30	JGO	TAL BUF
Total/NA	Analysis	350.1		1	609112	12/16/21 09:40	CLT	TAL BUF
Total/NA	Prep	351.2			609130	12/16/21 11:28	KEB	TAL BUF
Total/NA	Analysis	351.2		1	609250	12/17/21 07:54	CLT	TAL BUF
Total/NA	Analysis	353.2		1	609049	12/15/21 17:53	CSS	TAL BUF
Total/NA	Analysis	410.4		1	609392	12/17/21 19:30	CSS	TAL BUF
Total/NA	Analysis	420.4		1	609155	12/16/21 09:18	CLT	TAL BUF
Total/NA	Analysis	7196A		1	609017	12/15/21 13:28	RJM	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 03:01	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	609043	12/15/21 16:48	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	609137	12/16/21 11:55	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	609377	12/17/21 18:58	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	609214	12/16/21 08:54	RJM	TAL BUF
Total/NA	Analysis	SM 5310C		1	609655	12/20/21 17:35	IMZ	TAL BUF

Client Sample ID: MW-3B

Date Collected: 12/14/21 09:00
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	609322	12/17/21 15:47	AXK	TAL BUF
Total/NA	Prep	3005A			609016	12/16/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609279	12/16/21 18:28	AMH	TAL BUF
Total/NA	Prep	3005A			609016	12/16/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609447	12/17/21 12:49	AMH	TAL BUF
Total/NA	Prep	7470A			609144	12/16/21 13:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	609227	12/16/21 17:44	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	610089	12/27/21 09:21	JJP	TAL BUF
Total/NA	Analysis	300.0		1	609673	12/21/21 18:21	IMZ	TAL BUF
Total/NA	Analysis	310.2		3	609594	12/21/21 02:43	SRW	TAL BUF

Client Sample ID: MW-3B

Date Collected: 12/14/21 09:00
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/CN			609491	12/20/21 10:38	JGO	TAL BUF
Total/NA	Analysis	335.4		1	609504	12/20/21 11:33	JGO	TAL BUF
Total/NA	Analysis	350.1		1	609112	12/16/21 09:46	CLT	TAL BUF
Total/NA	Prep	351.2			609130	12/16/21 11:28	KEB	TAL BUF
Total/NA	Analysis	351.2		1	609250	12/17/21 07:54	CLT	TAL BUF
Total/NA	Analysis	353.2		1	609049	12/15/21 18:01	CSS	TAL BUF
Total/NA	Analysis	410.4		1	609392	12/17/21 19:30	CSS	TAL BUF
Total/NA	Analysis	420.4		1	609155	12/16/21 09:22	CLT	TAL BUF
Total/NA	Analysis	7196A		1	609017	12/15/21 13:28	RJM	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 03:01	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	609043	12/15/21 16:48	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	609137	12/16/21 11:55	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	609377	12/17/21 18:58	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	609214	12/16/21 08:54	RJM	TAL BUF
Total/NA	Analysis	SM 5310C		1	609655	12/20/21 17:51	IMZ	TAL BUF

Client Sample ID: MW-4A

Date Collected: 12/14/21 09:30
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	609322	12/17/21 16:10	AXK	TAL BUF
Total/NA	Prep	3005A			609016	12/16/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609279	12/16/21 18:47	AMH	TAL BUF
Total/NA	Prep	3005A			609016	12/16/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609447	12/17/21 13:07	AMH	TAL BUF
Total/NA	Prep	7470A			609144	12/16/21 13:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	609227	12/16/21 17:45	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	610089	12/27/21 09:21	JJP	TAL BUF
Total/NA	Analysis	300.0		2	609673	12/21/21 18:40	IMZ	TAL BUF
Total/NA	Analysis	310.2		5	609594	12/21/21 02:14	SRW	TAL BUF
Total/NA	Prep	Distill/CN			609491	12/20/21 10:38	JGO	TAL BUF
Total/NA	Analysis	335.4		1	609504	12/20/21 11:36	JGO	TAL BUF
Total/NA	Analysis	350.1		1	609112	12/16/21 09:47	CLT	TAL BUF
Total/NA	Prep	351.2			609130	12/16/21 11:28	KEB	TAL BUF
Total/NA	Analysis	351.2		1	609250	12/17/21 07:54	CLT	TAL BUF
Total/NA	Analysis	353.2		1	609049	12/15/21 18:03	CSS	TAL BUF
Total/NA	Analysis	410.4		1	609392	12/17/21 19:30	CSS	TAL BUF
Total/NA	Analysis	420.4		1	609155	12/16/21 09:26	CLT	TAL BUF
Total/NA	Analysis	7196A		1	609017	12/15/21 13:28	RJM	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 03:05	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	609043	12/15/21 16:48	MJB	TAL BUF

Client Sample ID: MW-4A

Date Collected: 12/14/21 09:30
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	609158	12/16/21 13:25	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	609377	12/17/21 18:59	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	609214	12/16/21 08:54	RJM	TAL BUF
Total/NA	Analysis	SM 5310C		1	609655	12/20/21 18:06	IMZ	TAL BUF

Client Sample ID: MW-5A

Date Collected: 12/14/21 09:50
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	609322	12/17/21 16:33	AXK	TAL BUF
Total/NA	Prep	3005A			609016	12/16/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609279	12/16/21 18:51	AMH	TAL BUF
Total/NA	Prep	3005A			609016	12/16/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609447	12/17/21 13:22	AMH	TAL BUF
Total/NA	Prep	7470A			609144	12/16/21 13:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	609227	12/16/21 17:50	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	610089	12/27/21 09:21	JJP	TAL BUF
Total/NA	Analysis	300.0		1	609673	12/21/21 18:59	IMZ	TAL BUF
Total/NA	Analysis	310.2		3	609594	12/21/21 02:14	SRW	TAL BUF
Total/NA	Prep	Distill/CN			609491	12/20/21 10:38	JGO	TAL BUF
Total/NA	Analysis	335.4		1	609504	12/20/21 11:37	JGO	TAL BUF
Total/NA	Analysis	350.1		1	609112	12/16/21 09:48	CLT	TAL BUF
Total/NA	Prep	351.2			609130	12/16/21 11:28	KEB	TAL BUF
Total/NA	Analysis	351.2		1	609250	12/17/21 07:54	CLT	TAL BUF
Total/NA	Analysis	353.2		1	609049	12/15/21 18:04	CSS	TAL BUF
Total/NA	Analysis	410.4		1	609392	12/17/21 19:30	CSS	TAL BUF
Total/NA	Analysis	420.4		1	609155	12/16/21 09:29	CLT	TAL BUF
Total/NA	Analysis	7196A		1	609017	12/15/21 13:28	RJM	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 03:05	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	609043	12/15/21 16:48	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	609158	12/16/21 13:25	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	609377	12/17/21 19:01	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	609214	12/16/21 08:54	RJM	TAL BUF
Total/NA	Analysis	SM 5310C		1	609655	12/20/21 18:21	IMZ	TAL BUF

Client Sample ID: MW-6A

Date Collected: 12/14/21 10:20
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	609322	12/17/21 16:56	AXK	TAL BUF

Client Sample ID: MW-6A

Date Collected: 12/14/21 10:20
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			609873	12/22/21 16:10	ADM	TAL BUF
Dissolved	Prep	3005A			610008	12/27/21 08:36	NBS	TAL BUF
Dissolved	Analysis	6010C		1	610207	12/27/21 16:09	AMH	TAL BUF
Total/NA	Prep	3005A			609016	12/16/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609279	12/16/21 19:07	AMH	TAL BUF
Total/NA	Prep	7470A			609144	12/16/21 13:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	609227	12/16/21 17:52	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	610089	12/27/21 09:21	JJP	TAL BUF
Total/NA	Analysis	300.0		1	609673	12/21/21 19:18	IMZ	TAL BUF
Total/NA	Analysis	310.2		3	609594	12/21/21 02:14	SRW	TAL BUF
Total/NA	Prep	Distill/CN			609491	12/20/21 10:38	JGO	TAL BUF
Total/NA	Analysis	335.4		1	609504	12/20/21 11:42	JGO	TAL BUF
Total/NA	Analysis	350.1		1	609112	12/16/21 09:49	CLT	TAL BUF
Total/NA	Prep	351.2			609130	12/16/21 11:28	KEB	TAL BUF
Total/NA	Analysis	351.2		1	609250	12/17/21 07:54	CLT	TAL BUF
Total/NA	Analysis	353.2		1	609049	12/15/21 21:25	CSS	TAL BUF
Total/NA	Analysis	410.4		1	609392	12/17/21 19:30	CSS	TAL BUF
Total/NA	Analysis	420.4		1	609155	12/16/21 09:33	CLT	TAL BUF
Total/NA	Analysis	7196A		1	609017	12/15/21 13:28	RJM	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 03:07	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	609043	12/15/21 16:48	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	609158	12/16/21 13:25	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	609377	12/17/21 19:02	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	609214	12/16/21 08:54	RJM	TAL BUF
Total/NA	Analysis	SM 5310C		1	609655	12/20/21 18:36	IMZ	TAL BUF

Client Sample ID: MW-6B

Date Collected: 12/14/21 10:45
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	609322	12/17/21 17:19	AXK	TAL BUF
Total/NA	Prep	3005A			609016	12/16/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609279	12/16/21 19:11	AMH	TAL BUF
Total/NA	Prep	7470A			609144	12/16/21 13:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	609227	12/16/21 17:55	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	610089	12/27/21 09:21	JJP	TAL BUF
Total/NA	Analysis	300.0		1	609673	12/21/21 19:37	IMZ	TAL BUF
Total/NA	Analysis	310.2		3	609594	12/21/21 02:15	SRW	TAL BUF
Total/NA	Prep	Distill/CN			609491	12/20/21 10:38	JGO	TAL BUF
Total/NA	Analysis	335.4		1	609504	12/20/21 11:43	JGO	TAL BUF
Total/NA	Analysis	350.1		1	609112	12/16/21 09:51	CLT	TAL BUF

Client Sample ID: MW-6B

Date Collected: 12/14/21 10:45
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			609130	12/16/21 11:28	KEB	TAL BUF
Total/NA	Analysis	351.2		1	609250	12/17/21 07:54	CLT	TAL BUF
Total/NA	Analysis	353.2		1	609049	12/15/21 21:26	CSS	TAL BUF
Total/NA	Analysis	410.4		1	609392	12/17/21 19:30	CSS	TAL BUF
Total/NA	Analysis	420.4		1	609155	12/16/21 09:36	CLT	TAL BUF
Total/NA	Analysis	7196A		1	609017	12/15/21 13:28	RJM	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 03:08	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	609043	12/15/21 16:48	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	609158	12/16/21 13:25	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	609377	12/17/21 19:02	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	609214	12/16/21 08:54	RJM	TAL BUF
Total/NA	Analysis	SM 5310C		1	609655	12/20/21 18:52	IMZ	TAL BUF

Client Sample ID: MW-7A

Date Collected: 12/14/21 11:15
Date Received: 12/15/21 10:30

Lab Sample ID: 480-193436-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	609322	12/17/21 17:42	AXK	TAL BUF
Total/NA	Prep	3005A			609016	12/16/21 08:40	NBS	TAL BUF
Total/NA	Analysis	6010C		1	609279	12/16/21 19:15	AMH	TAL BUF
Total/NA	Prep	7470A			609144	12/16/21 13:46	BMB	TAL BUF
Total/NA	Analysis	7470A		1	609227	12/16/21 17:57	BMB	TAL BUF
Total/NA	Analysis	SM 2340B		1	610089	12/27/21 09:21	JJP	TAL BUF
Total/NA	Analysis	300.0		2	609673	12/21/21 19:56	IMZ	TAL BUF
Total/NA	Analysis	310.2		5	609594	12/21/21 02:15	SRW	TAL BUF
Total/NA	Prep	Distill/CN			609491	12/20/21 10:38	JGO	TAL BUF
Total/NA	Analysis	335.4		1	609504	12/20/21 11:45	JGO	TAL BUF
Total/NA	Analysis	350.1		1	609112	12/16/21 09:52	CLT	TAL BUF
Total/NA	Prep	351.2			609130	12/16/21 11:28	KEB	TAL BUF
Total/NA	Analysis	351.2		1	609250	12/17/21 07:54	CLT	TAL BUF
Total/NA	Analysis	353.2		1	609049	12/15/21 21:28	CSS	TAL BUF
Total/NA	Analysis	410.4		1	609392	12/17/21 19:30	CSS	TAL BUF
Total/NA	Analysis	420.4		1	609155	12/16/21 10:02	CLT	TAL BUF
Total/NA	Analysis	7196A		1	609017	12/15/21 13:28	RJM	TAL BUF
Total/NA	Analysis	9038		1	609236	12/17/21 03:08	SRW	TAL BUF
Total/NA	Analysis	SM 2120B		1	609043	12/15/21 16:48	MJB	TAL BUF
Total/NA	Analysis	SM 2540C		1	609158	12/16/21 13:25	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	609377	12/17/21 19:02	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	609214	12/16/21 08:54	RJM	TAL BUF
Total/NA	Analysis	SM 5310C		1	609655	12/20/21 19:07	IMZ	TAL BUF

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Baseline

Job ID: 480-193436-1
SDG: 193337

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Cortland Cty Soil & Water Cons District
Job ID: 480-193436-1
Project/Site: Towslee Landfill - Baseline
SDG: 193337

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9038		Water	Sulfate
SM 5310C		Water	TOC Result 1
SM 5310C		Water	TOC Result 2

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Matrix: Water Level: Low

GC Column (1): ZB-624 (20) ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
MW-3A	480-193436-2	107	103	102
MW-3B	480-193436-3	108	104	102
MW-4A	480-193436-4	103	100	98
MW-5A	480-193436-5	118	102	105
MW-6A	480-193436-6	106	99	93
MW-6B	480-193436-7	105	105	102
MW-7A	480-193436-8	112	105	104
	MB 480-609322/7	104	104	102
	LCS 480-609322/5	101	106	102

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Matrix: Water Level: Low Lab File ID: C1447.D

Lab ID: LCS 480-609322/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	25.0	25.3	101	80-120	
1,1,1-Trichloroethane	25.0	25.7	103	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.8	103	76-120	
1,1,2-Trichloroethane	25.0	27.8	111	76-122	
1,1-Dichloroethane	25.0	24.6	98	77-120	
1,1-Dichloroethene	25.0	26.5	106	66-127	
1,2,3-Trichloropropane	25.0	23.9	96	68-122	
1,2-Dibromo-3-Chloropropane	25.0	17.2	69	56-134	
1,2-Dichlorobenzene	25.0	26.4	106	80-124	
1,2-Dichloroethane	25.0	25.4	102	75-120	
1,2-Dichloropropane	25.0	25.7	103	76-120	
1,4-Dichlorobenzene	25.0	28.0	112	80-120	
2-Butanone (MEK)	125	114	91	57-140	
2-Hexanone	125	109	87	65-127	
4-Methyl-2-pentanone (MIBK)	125	108	87	71-125	
Acetone	125	95.8	77	56-142	
Acrylonitrile	250	199	80	63-125	
Benzene	25.0	27.1	108	71-124	
Chlorobromomethane	25.0	25.5	102	72-130	
Bromodichloromethane	25.0	27.0	108	80-122	
Bromoform	25.0	25.0	100	61-132	
Bromomethane	25.0	28.0	112	55-144	
Carbon disulfide	25.0	24.8	99	59-134	
Carbon tetrachloride	25.0	26.9	108	72-134	
Chlorobenzene	25.0	27.0	108	80-120	
Dibromochloromethane	25.0	28.1	112	75-125	
Chloroethane	25.0	26.2	105	69-136	
Chloroform	25.0	25.1	100	73-127	
Chloromethane	25.0	25.2	101	68-124	
cis-1,2-Dichloroethene	25.0	24.3	97	74-124	
cis-1,3-Dichloropropene	25.0	28.4	114	74-124	
Dibromomethane	25.0	24.8	99	76-127	
Ethylbenzene	25.0	27.0	108	77-123	
1,2-Dibromoethane	25.0	27.6	111	77-120	
Iodomethane	25.0	23.0	92	78-123	
Methylene Chloride	25.0	24.8	99	75-124	
Styrene	25.0	26.4	106	80-120	
Tetrachloroethene	25.0	31.7	127	74-122	*+
Trichlorofluoromethane	25.0	29.3	117	62-150	
Trichloroethene	25.0	28.7	115	74-123	
Toluene	25.0	28.5	114	80-122	
trans-1,2-Dichloroethene	25.0	25.0	100	73-127	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Matrix: Water Level: Low Lab File ID: C1447.D

Lab ID: LCS 480-609322/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	25.0	30.0	120	80-120	
trans-1,4-Dichloro-2-butene	25.0	27.6	110	41-131	
Vinyl acetate	50.0	57.2	114	50-144	
Vinyl chloride	25.0	25.7	103	65-133	
m,p-Xylene	25.0	27.2	109	76-122	
o-Xylene	25.0	26.5	106	76-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab File ID: C1449.D Lab Sample ID: MB 480-609322/7

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

Instrument ID: HP5973C Date Analyzed: 12/17/2021 14:54

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-609322/5	C1447.D	12/17/2021 14:08
MW-3A	480-193436-2	C1450.D	12/17/2021 15:24
MW-3B	480-193436-3	C1451.D	12/17/2021 15:47
MW-4A	480-193436-4	C1452.D	12/17/2021 16:10
MW-5A	480-193436-5	C1453.D	12/17/2021 16:33
MW-6A	480-193436-6	C1454.D	12/17/2021 16:56
MW-6B	480-193436-7	C1455.D	12/17/2021 17:19
MW-7A	480-193436-8	C1456.D	12/17/2021 17:42

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab File ID: C1013.D BFB Injection Date: 12/06/2021

Instrument ID: HP5973C BFB Injection Time: 14:22

Analysis Batch No.: 607707

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.1	
75	30.0 - 60.0 % of mass 95	49.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	1.0	(1.2) 1
174	Greater than 50% of mass 95	82.3	
175	5.0 - 9.0 % of mass 174	5.9	(7.1) 1
176	95.0 - 101.0 % of mass 174	80.1	(97.3) 1
177	5.0 - 9.0 % of mass 176	5.4	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-607707/5	C1015.D	12/06/2021	15:09
	IC 480-607707/6	C1016.D	12/06/2021	15:31
	IC 480-607707/7	C1017.D	12/06/2021	15:54
	IC 480-607707/8	C1018.D	12/06/2021	16:18
	IC 480-607707/9	C1019.D	12/06/2021	16:41
	ICIS 480-607707/10	C1020.D	12/06/2021	17:04
	IC 480-607707/11	C1021.D	12/06/2021	17:27
	IC 480-607707/12	C1022.D	12/06/2021	17:50
	ICV 480-607707/26	C1036.D	12/06/2021	23:12

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab File ID: C1444.D BFB Injection Date: 12/17/2021

Instrument ID: HP5973C BFB Injection Time: 12:48

Analysis Batch No.: 609322

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.6	
75	30.0 - 60.0 % of mass 95	48.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.4	(0.4) 1
174	Greater than 50% of mass 95	81.7	
175	5.0 - 9.0 % of mass 174	6.3	(7.8) 1
176	95.0 - 101.0 % of mass 174	78.1	(95.5) 1
177	5.0 - 9.0 % of mass 176	4.6	(5.8) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-609322/3	C1445.D	12/17/2021	13:12
	LCS 480-609322/5	C1447.D	12/17/2021	14:08
	MB 480-609322/7	C1449.D	12/17/2021	14:54
MW-3A	480-193436-2	C1450.D	12/17/2021	15:24
MW-3B	480-193436-3	C1451.D	12/17/2021	15:47
MW-4A	480-193436-4	C1452.D	12/17/2021	16:10
MW-5A	480-193436-5	C1453.D	12/17/2021	16:33
MW-6A	480-193436-6	C1454.D	12/17/2021	16:56
MW-6B	480-193436-7	C1455.D	12/17/2021	17:19
MW-7A	480-193436-8	C1456.D	12/17/2021	17:42

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Sample No.: ICIS 480-607707/10 Date Analyzed: 12/06/2021 17:04

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): C1020.D Heated Purge: (Y/N) N

Calibration ID: 42787

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		159656	4.86	309058	7.17	408706	9.04
UPPER LIMIT		319312	5.36	618116	7.67	817412	9.54
LOWER LIMIT		79828	4.36	154529	6.67	204353	8.54
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-607707/26		161102	4.86	306101	7.17	407844	9.04
CCVIS 480-609322/3		159202	4.86	317307	7.17	381354	9.04

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Sample No.: CCVIS 480-609322/3 Date Analyzed: 12/17/2021 13:12

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): C1445.D Heated Purge: (Y/N) N

Calibration ID: 42790

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		159202	4.86	317307	7.17	381354	9.04
UPPER LIMIT		318404	5.36	634614	7.67	762708	9.54
LOWER LIMIT		79601	4.36	158654	6.67	190677	8.54
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-609322/5		165096	4.86	296733	7.17	359801	9.04
MB 480-609322/7		151389	4.86	271025	7.17	322843	9.04
480-193436-2	MW-3A	148772	4.86	274642	7.17	340944	9.04
480-193436-3	MW-3B	139533	4.86	263110	7.17	328046	9.04
480-193436-4	MW-4A	135700	4.86	253735	7.17	327147	9.04
480-193436-5	MW-5A	137641	4.86	255506	7.17	311215	9.04
480-193436-6	MW-6A	142932	4.86	266977	7.17	349750	9.04
480-193436-7	MW-6B	135375	4.86	238650	7.17	315432	9.04
480-193436-8	MW-7A	134373	4.86	240830	7.17	308509	9.04

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-3A Lab Sample ID: 480-193436-2

Matrix: Water Lab File ID: C1450.D

Analysis Method: 8260C Date Collected: 12/14/2021 08:45

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 15:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-3A Lab Sample ID: 480-193436-2

Matrix: Water Lab File ID: C1450.D

Analysis Method: 8260C Date Collected: 12/14/2021 08:45

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 15:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND	*+	1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
2037-26-5	Toluene-d8 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1450.D
Lims ID: 480-193436-M-2
Client ID: MW-3A
Sample Type: Client
Inject. Date: 17-Dec-2021 15:24:30 ALS Bottle#: 13 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193436-M-2
Misc. Info.: 480-0103133-008
Operator ID: LH Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Dec-2021 10:22:57 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: kiwana Date: 20-Dec-2021 10:23:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	148772	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	274642	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	95	340944	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	99	135620	26.8	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	93	651342	25.7	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	92	224993	25.6	
12 Chloromethane	50		1.295				ND	
13 Vinyl chloride	62		1.388				ND	
14 Bromomethane	94		1.668				ND	
15 Chloroethane	64		1.751				ND	
17 Trichlorofluoromethane	101		1.969				ND	
22 1,1-Dichloroethene	96		2.456				ND	
23 Acetone	43		2.591				ND	
25 Iodomethane	142		2.611				ND	
26 Carbon disulfide	76		2.642				ND	7
30 Methylene Chloride	84		2.943				ND	
34 trans-1,2-Dichloroethene	96		3.150				ND	
33 Acrylonitrile	53		3.202				ND	
39 1,1-Dichloroethane	63		3.523				ND	
37 Vinyl acetate	43		3.575				ND	
45 cis-1,2-Dichloroethene	96		4.000				ND	
43 2-Butanone (MEK)	43		4.041				ND	
48 Chlorobromomethane	128		4.197				ND	
50 Chloroform	83		4.259				ND	
51 1,1,1-Trichloroethane	97		4.352				ND	
55 Carbon tetrachloride	117		4.466				ND	
57 Benzene	78		4.642				ND	
58 1,2-Dichloroethane	62		4.694				ND	
62 Trichloroethene	95		5.130				ND	
65 1,2-Dichloropropane	63		5.326				ND	
67 Dibromomethane	93		5.430				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
68 Dichlorobromomethane	83		5.544				ND	
72 cis-1,3-Dichloropropene	75		5.865				ND	
73 4-Methyl-2-pentanone (MIBK)	43		5.979				ND	
74 Toluene	92		6.093				ND	
77 trans-1,3-Dichloropropene	75		6.301				ND	
79 1,1,2-Trichloroethane	83		6.446				ND	
81 Tetrachloroethene	166		6.497				ND	
80 2-Hexanone	43		6.611				ND	
83 Chlorodibromomethane	129		6.756				ND	
84 Ethylene Dibromide	107		6.839				ND	
87 Chlorobenzene	112		7.192				ND	
88 Ethylbenzene	91		7.254				ND	
89 1,1,1,2-Tetrachloroethane	131		7.264				ND	
90 m-Xylene & p-Xylene	106		7.337				ND	
91 o-Xylene	106		7.658				ND	
92 Styrene	104		7.679				ND	
95 Bromoform	173		7.876				ND	
97 1,1,2,2-Tetrachloroethane	83		8.249				ND	
100 1,2,3-Trichloropropane	110		8.280				ND	
98 trans-1,4-Dichloro-2-butene	53		8.290				ND	
113 1,4-Dichlorobenzene	146		9.057				ND	7
116 1,2-Dichlorobenzene	146		9.368				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.042				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent

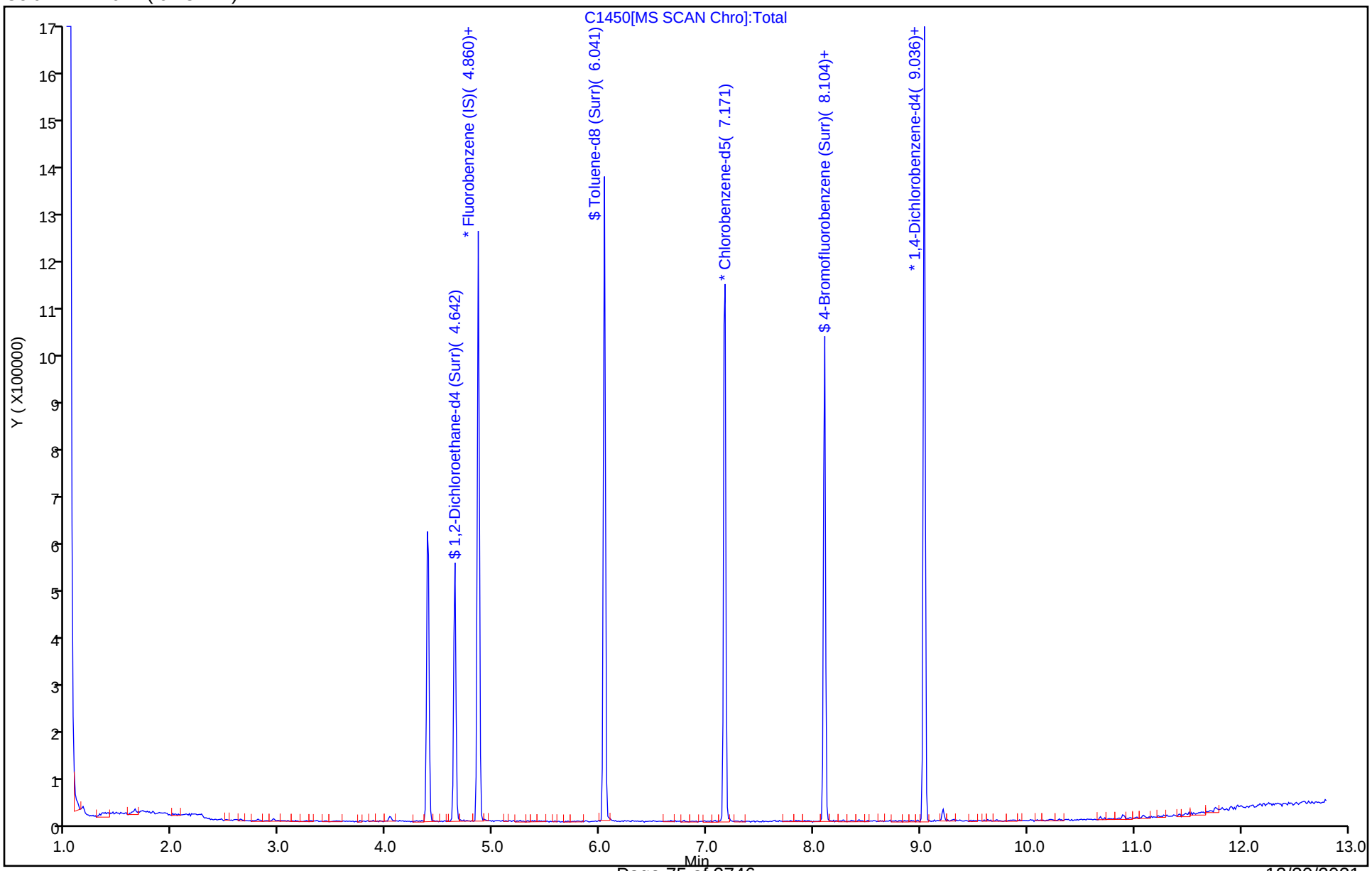
Report Date: 20-Dec-2021 10:23:17 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1450.D

Injection Date:	17-Dec-2021 15:24:30	Instrument ID:	HP5973C	Operator ID:	LH
Lims ID:	480-193436-M-2	Lab Sample ID:	480-193436-2	Worklist Smp#:	8
Client ID:	MW-3A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-3B Lab Sample ID: 480-193436-3

Matrix: Water Lab File ID: C1451.D

Analysis Method: 8260C Date Collected: 12/14/2021 09:00

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 15:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-3B Lab Sample ID: 480-193436-3

Matrix: Water Lab File ID: C1451.D

Analysis Method: 8260C Date Collected: 12/14/2021 09:00

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 15:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND	*+	1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
2037-26-5	Toluene-d8 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1451.D
Lims ID: 480-193436-M-3
Client ID: MW-3B
Sample Type: Client
Inject. Date: 17-Dec-2021 15:47:30 ALS Bottle#: 14 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193436-M-3
Misc. Info.: 480-0103133-009
Operator ID: LH Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Dec-2021 10:22:57 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: kiwana Date: 20-Dec-2021 10:23:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	139533	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	263110	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	95	328046	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	98	127973	27.0	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	93	628936	25.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	91	214756	25.5	
12 Chloromethane	50		1.295				ND	
13 Vinyl chloride	62		1.388				ND	
14 Bromomethane	94		1.668				ND	
15 Chloroethane	64		1.751				ND	
17 Trichlorofluoromethane	101		1.969				ND	
22 1,1-Dichloroethene	96		2.456				ND	
23 Acetone	43		2.591				ND	
25 Iodomethane	142		2.611				ND	
26 Carbon disulfide	76		2.642				ND	
30 Methylene Chloride	84		2.943				ND	
34 trans-1,2-Dichloroethene	96		3.150				ND	
33 Acrylonitrile	53		3.202				ND	
39 1,1-Dichloroethane	63		3.523				ND	
37 Vinyl acetate	43		3.575				ND	
45 cis-1,2-Dichloroethene	96		4.000				ND	
43 2-Butanone (MEK)	43		4.041				ND	
48 Chlorobromomethane	128		4.197				ND	
50 Chloroform	83		4.259				ND	
51 1,1,1-Trichloroethane	97		4.352				ND	
55 Carbon tetrachloride	117		4.466				ND	
57 Benzene	78		4.642				ND	7
58 1,2-Dichloroethane	62		4.694				ND	
62 Trichloroethene	95		5.130				ND	
65 1,2-Dichloropropane	63		5.326				ND	
67 Dibromomethane	93		5.430				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
68 Dichlorobromomethane	83		5.544				ND	
72 cis-1,3-Dichloropropene	75		5.865				ND	
73 4-Methyl-2-pentanone (MIBK)	43		5.979				ND	7
74 Toluene	92		6.093				ND	
77 trans-1,3-Dichloropropene	75		6.301				ND	
79 1,1,2-Trichloroethane	83		6.446				ND	
81 Tetrachloroethene	166		6.497				ND	
80 2-Hexanone	43		6.611				ND	
83 Chlorodibromomethane	129		6.756				ND	
84 Ethylene Dibromide	107		6.839				ND	
87 Chlorobenzene	112		7.192				ND	
88 Ethylbenzene	91		7.254				ND	
89 1,1,1,2-Tetrachloroethane	131		7.264				ND	
90 m-Xylene & p-Xylene	106		7.337				ND	
91 o-Xylene	106		7.658				ND	
92 Styrene	104		7.679				ND	
95 Bromoform	173		7.876				ND	
97 1,1,2,2-Tetrachloroethane	83		8.249				ND	
100 1,2,3-Trichloropropane	110		8.280				ND	
98 trans-1,4-Dichloro-2-butene	53		8.290				ND	
113 1,4-Dichlorobenzene	146		9.057				ND	7
116 1,2-Dichlorobenzene	146		9.368				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.042				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent

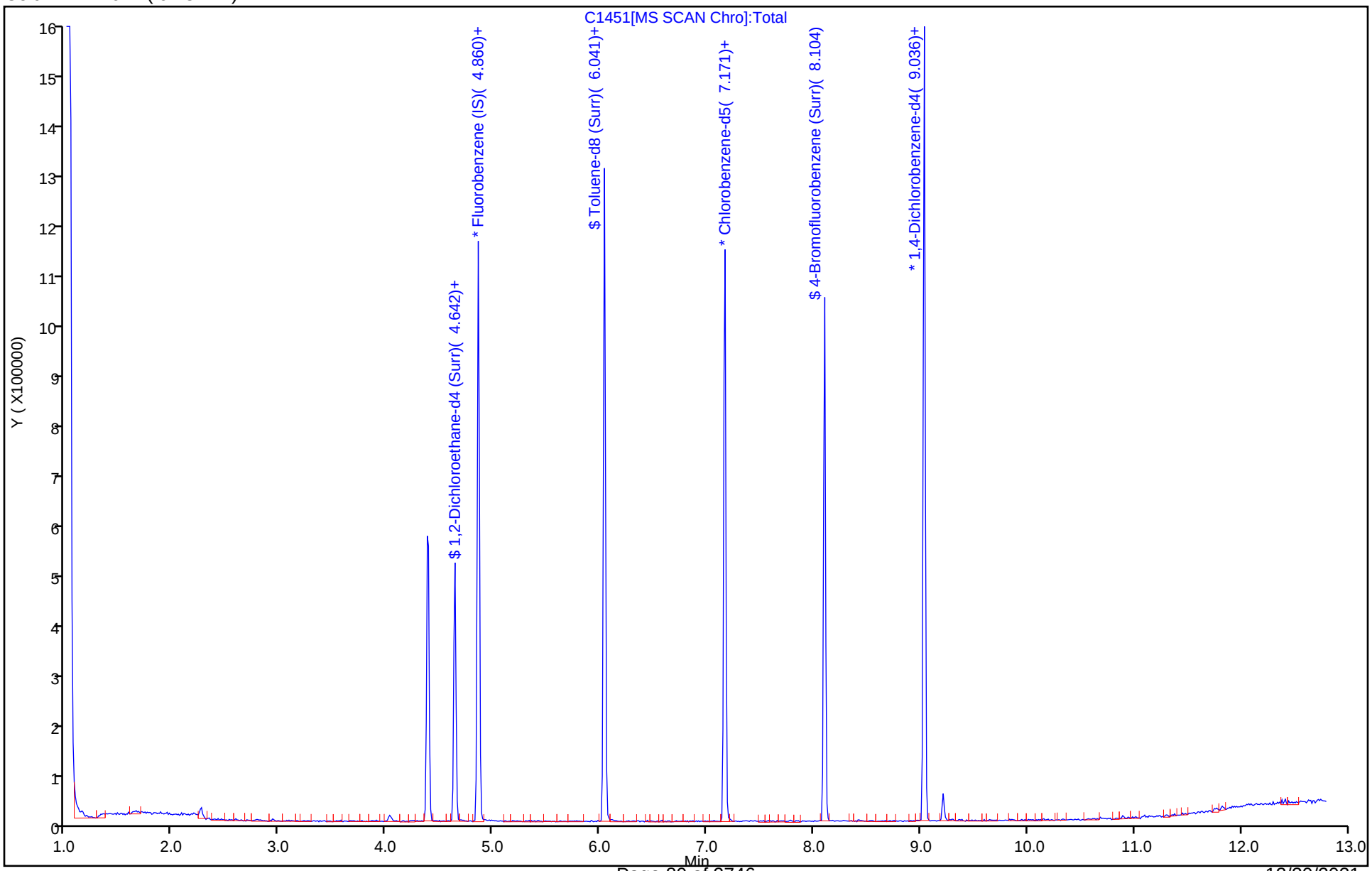
Report Date: 20-Dec-2021 10:23:43 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1451.D

Injection Date:	17-Dec-2021 15:47:30	Instrument ID:	HP5973C	Operator ID:	LH
Lims ID:	480-193436-M-3	Lab Sample ID:	480-193436-3	Worklist Smp#:	9
Client ID:	MW-3B				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-4A Lab Sample ID: 480-193436-4

Matrix: Water Lab File ID: C1452.D

Analysis Method: 8260C Date Collected: 12/14/2021 09:30

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 16:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-4A Lab Sample ID: 480-193436-4

Matrix: Water Lab File ID: C1452.D

Analysis Method: 8260C Date Collected: 12/14/2021 09:30

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 16:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND	*+	1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1452.D
Lims ID: 480-193436-M-4
Client ID: MW-4A
Sample Type: Client
Inject. Date: 17-Dec-2021 16:10:30 ALS Bottle#: 15 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193436-M-4
Misc. Info.: 480-0103133-010
Operator ID: LH Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Dec-2021 10:23:58 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: kiwana Date: 20-Dec-2021 10:23:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	135700	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	253735	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	95	327147	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	99	118480	25.7	
$ 5 Toluene-d8 (Surr)	98	6.042	6.041	0.001	93	584173	25.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	91	198371	24.4	
12 Chloromethane	50		1.295				ND	U
13 Vinyl chloride	62		1.388				ND	
14 Bromomethane	94		1.668				ND	
15 Chloroethane	64		1.751				ND	
17 Trichlorofluoromethane	101		1.969				ND	
22 1,1-Dichloroethene	96		2.456				ND	
23 Acetone	43		2.591				ND	
25 Iodomethane	142		2.611				ND	
26 Carbon disulfide	76		2.642				ND	
30 Methylene Chloride	84		2.943				ND	7
34 trans-1,2-Dichloroethene	96		3.150				ND	
33 Acrylonitrile	53		3.202				ND	
39 1,1-Dichloroethane	63		3.523				ND	
37 Vinyl acetate	43		3.575				ND	7
45 cis-1,2-Dichloroethene	96		4.000				ND	
43 2-Butanone (MEK)	43		4.041				ND	
48 Chlorobromomethane	128		4.197				ND	
50 Chloroform	83		4.259				ND	
51 1,1,1-Trichloroethane	97		4.352				ND	
55 Carbon tetrachloride	117		4.466				ND	
57 Benzene	78		4.642				ND	
58 1,2-Dichloroethane	62		4.694				ND	
62 Trichloroethene	95		5.130				ND	
65 1,2-Dichloropropane	63		5.326				ND	
67 Dibromomethane	93		5.430				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
68 Dichlorobromomethane	83		5.544				ND	
72 cis-1,3-Dichloropropene	75		5.865				ND	
73 4-Methyl-2-pentanone (MIBK)	43		5.979				ND	
74 Toluene	92		6.093				ND	
77 trans-1,3-Dichloropropene	75		6.301				ND	
79 1,1,2-Trichloroethane	83		6.446				ND	
81 Tetrachloroethene	166		6.497				ND	
80 2-Hexanone	43		6.611				ND	
83 Chlorodibromomethane	129		6.756				ND	
84 Ethylene Dibromide	107		6.839				ND	
87 Chlorobenzene	112		7.192				ND	
88 Ethylbenzene	91		7.254				ND	
89 1,1,1,2-Tetrachloroethane	131		7.264				ND	
90 m-Xylene & p-Xylene	106		7.337				ND	
91 o-Xylene	106		7.658				ND	
92 Styrene	104		7.679				ND	
95 Bromoform	173		7.876				ND	
97 1,1,2,2-Tetrachloroethane	83		8.249				ND	
100 1,2,3-Trichloropropane	110		8.280				ND	
98 trans-1,4-Dichloro-2-butene	53		8.290				ND	
113 1,4-Dichlorobenzene	146		9.057				ND	
116 1,2-Dichlorobenzene	146		9.368				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.042				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent

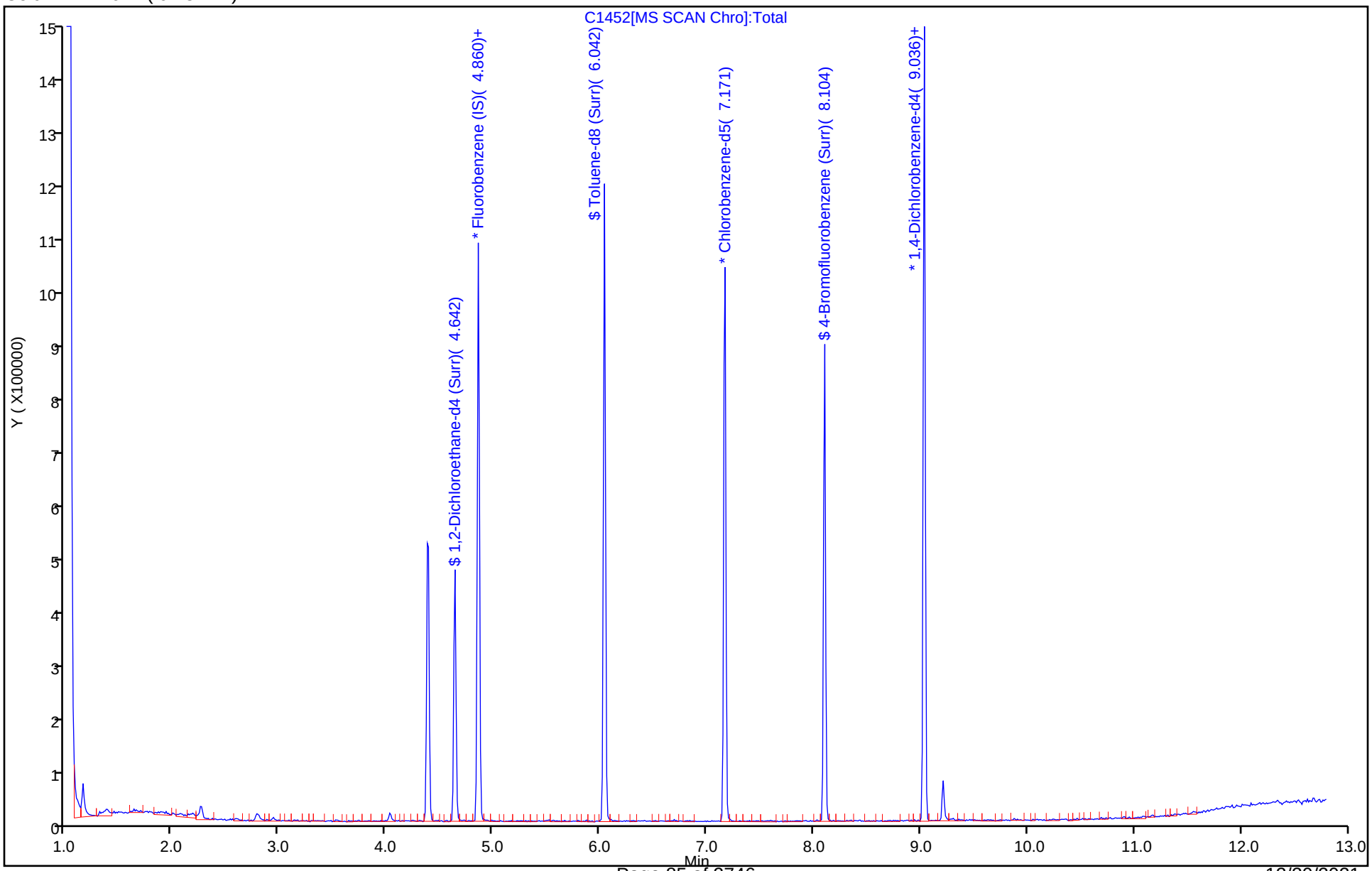
Report Date: 20-Dec-2021 10:23:58 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1452.D

Injection Date:	17-Dec-2021 16:10:30	Instrument ID:	HP5973C	Operator ID:	LH
Lims ID:	480-193436-M-4	Lab Sample ID:	480-193436-4	Worklist Smp#:	10
Client ID:	MW-4A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



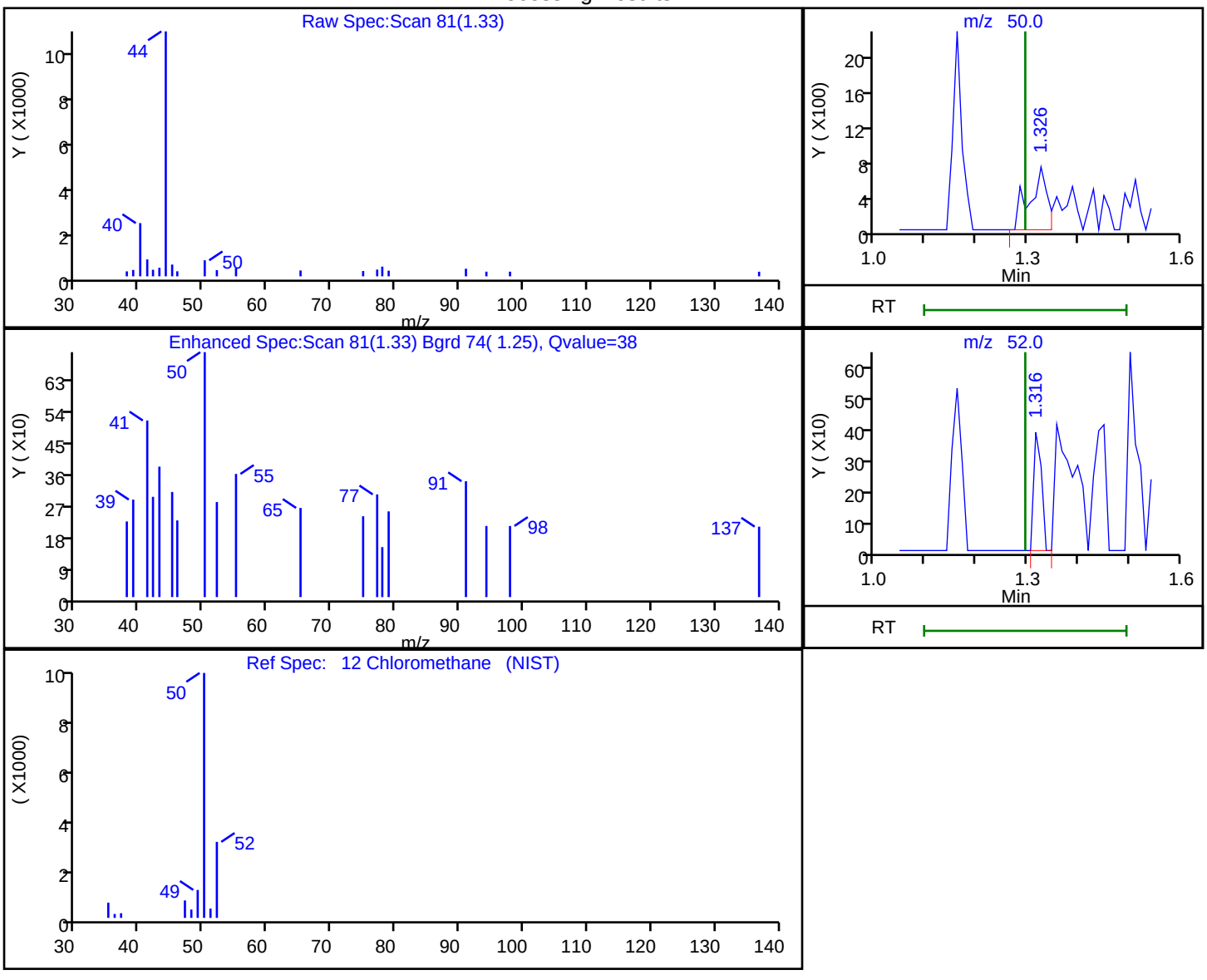
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1452.D				
Injection Date:	17-Dec-2021 16:10:30	Instrument ID:	HP5973C		
Lims ID:	480-193436-M-4	Lab Sample ID:	480-193436-4		
Client ID:	MW-4A				
Operator ID:	LH	ALS Bottle#:	15	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.33	50.00	1704	0.152322
1.32	52.00	408	

Reviewer: kiwana, 20-Dec-2021 10:23:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-5A Lab Sample ID: 480-193436-5

Matrix: Water Lab File ID: C1453.D

Analysis Method: 8260C Date Collected: 12/14/2021 09:50

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 16:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-5A Lab Sample ID: 480-193436-5

Matrix: Water Lab File ID: C1453.D

Analysis Method: 8260C Date Collected: 12/14/2021 09:50

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 16:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND	*+	1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1453.D
Lims ID: 480-193436-M-5
Client ID: MW-5A
Sample Type: Client
Inject. Date: 17-Dec-2021 16:33:30 ALS Bottle#: 16 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193436-M-5
Misc. Info.: 480-0103133-011
Operator ID: LH Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Dec-2021 10:23:58 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: kiwana Date: 20-Dec-2021 10:24:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	137641	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	255506	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	95	311215	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	98	138355	29.5	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	93	602834	25.6	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	92	213482	26.1	
12 Chloromethane	50		1.295				ND	
13 Vinyl chloride	62		1.388				ND	
14 Bromomethane	94		1.668				ND	
15 Chloroethane	64		1.751				ND	
17 Trichlorofluoromethane	101		1.969				ND	
22 1,1-Dichloroethene	96		2.456				ND	
23 Acetone	43		2.591				ND	
25 Iodomethane	142		2.611				ND	
26 Carbon disulfide	76		2.642				ND	
30 Methylene Chloride	84		2.943				ND	
34 trans-1,2-Dichloroethene	96		3.150				ND	
33 Acrylonitrile	53		3.202				ND	
39 1,1-Dichloroethane	63		3.523				ND	
37 Vinyl acetate	43		3.575				ND	7
45 cis-1,2-Dichloroethene	96		4.000				ND	
43 2-Butanone (MEK)	43		4.041				ND	
48 Chlorobromomethane	128		4.197				ND	
50 Chloroform	83		4.259				ND	
51 1,1,1-Trichloroethane	97		4.352				ND	
55 Carbon tetrachloride	117		4.466				ND	
57 Benzene	78		4.642				ND	
58 1,2-Dichloroethane	62		4.694				ND	
62 Trichloroethene	95		5.130				ND	
65 1,2-Dichloropropane	63		5.326				ND	
67 Dibromomethane	93		5.430				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
68 Dichlorobromomethane	83		5.544				ND	
72 cis-1,3-Dichloropropene	75		5.865				ND	
73 4-Methyl-2-pentanone (MIBK)	43		5.979				ND	
74 Toluene	92		6.093				ND	
77 trans-1,3-Dichloropropene	75		6.301				ND	
79 1,1,2-Trichloroethane	83		6.446				ND	
81 Tetrachloroethene	166		6.497				ND	
80 2-Hexanone	43		6.611				ND	
83 Chlorodibromomethane	129		6.756				ND	
84 Ethylene Dibromide	107		6.839				ND	
87 Chlorobenzene	112		7.192				ND	
88 Ethylbenzene	91		7.254				ND	
89 1,1,1,2-Tetrachloroethane	131		7.264				ND	
90 m-Xylene & p-Xylene	106		7.337				ND	
91 o-Xylene	106		7.658				ND	
92 Styrene	104		7.679				ND	
95 Bromoform	173		7.876				ND	
97 1,1,2,2-Tetrachloroethane	83		8.249				ND	
100 1,2,3-Trichloropropane	110		8.280				ND	
98 trans-1,4-Dichloro-2-butene	53		8.290				ND	
113 1,4-Dichlorobenzene	146		9.057				ND	
116 1,2-Dichlorobenzene	146		9.368				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.042				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent

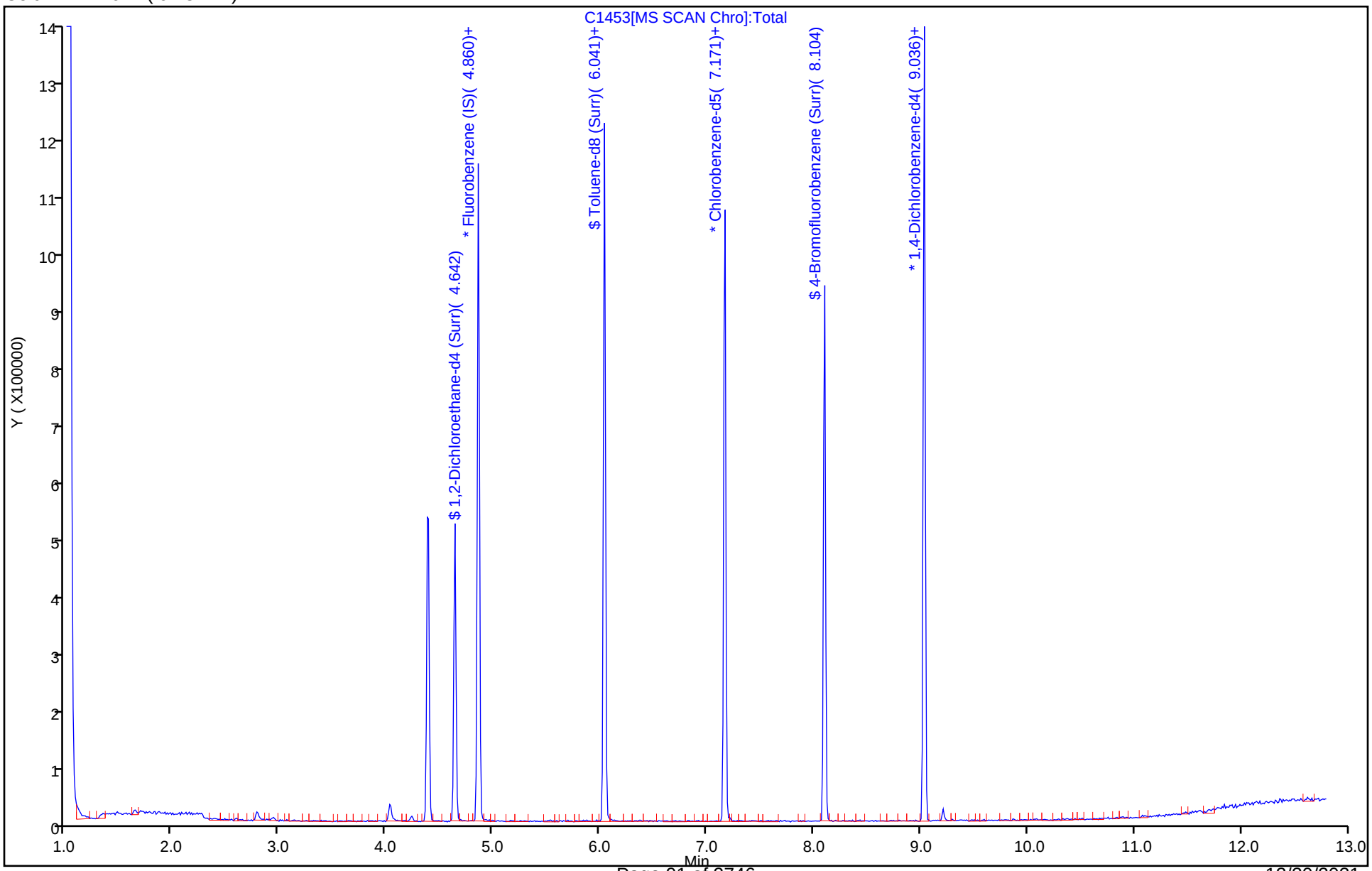
Report Date: 20-Dec-2021 10:24:10 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1453.D

Injection Date:	17-Dec-2021 16:33:30	Instrument ID:	HP5973C	Operator ID:	LH
Lims ID:	480-193436-M-5	Lab Sample ID:	480-193436-5	Worklist Smp#:	11
Client ID:	MW-5A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-6A Lab Sample ID: 480-193436-6

Matrix: Water Lab File ID: C1454.D

Analysis Method: 8260C Date Collected: 12/14/2021 10:20

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 16:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-6A Lab Sample ID: 480-193436-6

Matrix: Water Lab File ID: C1454.D

Analysis Method: 8260C Date Collected: 12/14/2021 10:20

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 16:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND	*+	1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1454.D
Lims ID: 480-193436-M-6
Client ID: MW-6A
Sample Type: Client
Inject. Date: 17-Dec-2021 16:56:30 ALS Bottle#: 17 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193436-M-6
Misc. Info.: 480-0103133-012
Operator ID: LH Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Dec-2021 10:23:58 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: kiwana Date: 20-Dec-2021 10:24:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	142932	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	266977	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	95	349750	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	98	129495	26.6	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	94	610115	24.8	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	91	198828	23.3	
12 Chloromethane	50		1.295				ND	
13 Vinyl chloride	62		1.388				ND	
14 Bromomethane	94		1.668				ND	
15 Chloroethane	64		1.751				ND	
17 Trichlorofluoromethane	101		1.969				ND	
22 1,1-Dichloroethene	96		2.456				ND	
23 Acetone	43		2.591				ND	
25 Iodomethane	142		2.611				ND	
26 Carbon disulfide	76		2.642				ND	
30 Methylene Chloride	84		2.943				ND	
34 trans-1,2-Dichloroethene	96		3.150				ND	
33 Acrylonitrile	53		3.202				ND	
39 1,1-Dichloroethane	63		3.523				ND	
37 Vinyl acetate	43		3.575				ND	
45 cis-1,2-Dichloroethene	96		4.000				ND	
43 2-Butanone (MEK)	43		4.041				ND	
48 Chlorobromomethane	128		4.197				ND	
50 Chloroform	83		4.259				ND	
51 1,1,1-Trichloroethane	97		4.352				ND	
55 Carbon tetrachloride	117		4.466				ND	
57 Benzene	78		4.642				ND	
58 1,2-Dichloroethane	62		4.694				ND	
62 Trichloroethene	95		5.130				ND	
65 1,2-Dichloropropane	63		5.326				ND	
67 Dibromomethane	93		5.430				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
68 Dichlorobromomethane	83		5.544				ND	
72 cis-1,3-Dichloropropene	75		5.865				ND	
73 4-Methyl-2-pentanone (MIBK)	43		5.979				ND	7
74 Toluene	92		6.093				ND	
77 trans-1,3-Dichloropropene	75		6.301				ND	
79 1,1,2-Trichloroethane	83		6.446				ND	
81 Tetrachloroethene	166		6.497				ND	
80 2-Hexanone	43		6.611				ND	
83 Chlorodibromomethane	129		6.756				ND	
84 Ethylene Dibromide	107		6.839				ND	
87 Chlorobenzene	112		7.192				ND	
88 Ethylbenzene	91		7.254				ND	
89 1,1,1,2-Tetrachloroethane	131		7.264				ND	
90 m-Xylene & p-Xylene	106		7.337				ND	
91 o-Xylene	106		7.658				ND	
92 Styrene	104		7.679				ND	
95 Bromoform	173		7.876				ND	
97 1,1,2,2-Tetrachloroethane	83		8.249				ND	
100 1,2,3-Trichloropropane	110		8.280				ND	
98 trans-1,4-Dichloro-2-butene	53		8.290				ND	
113 1,4-Dichlorobenzene	146		9.057				ND	7
116 1,2-Dichlorobenzene	146		9.368				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.042				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent

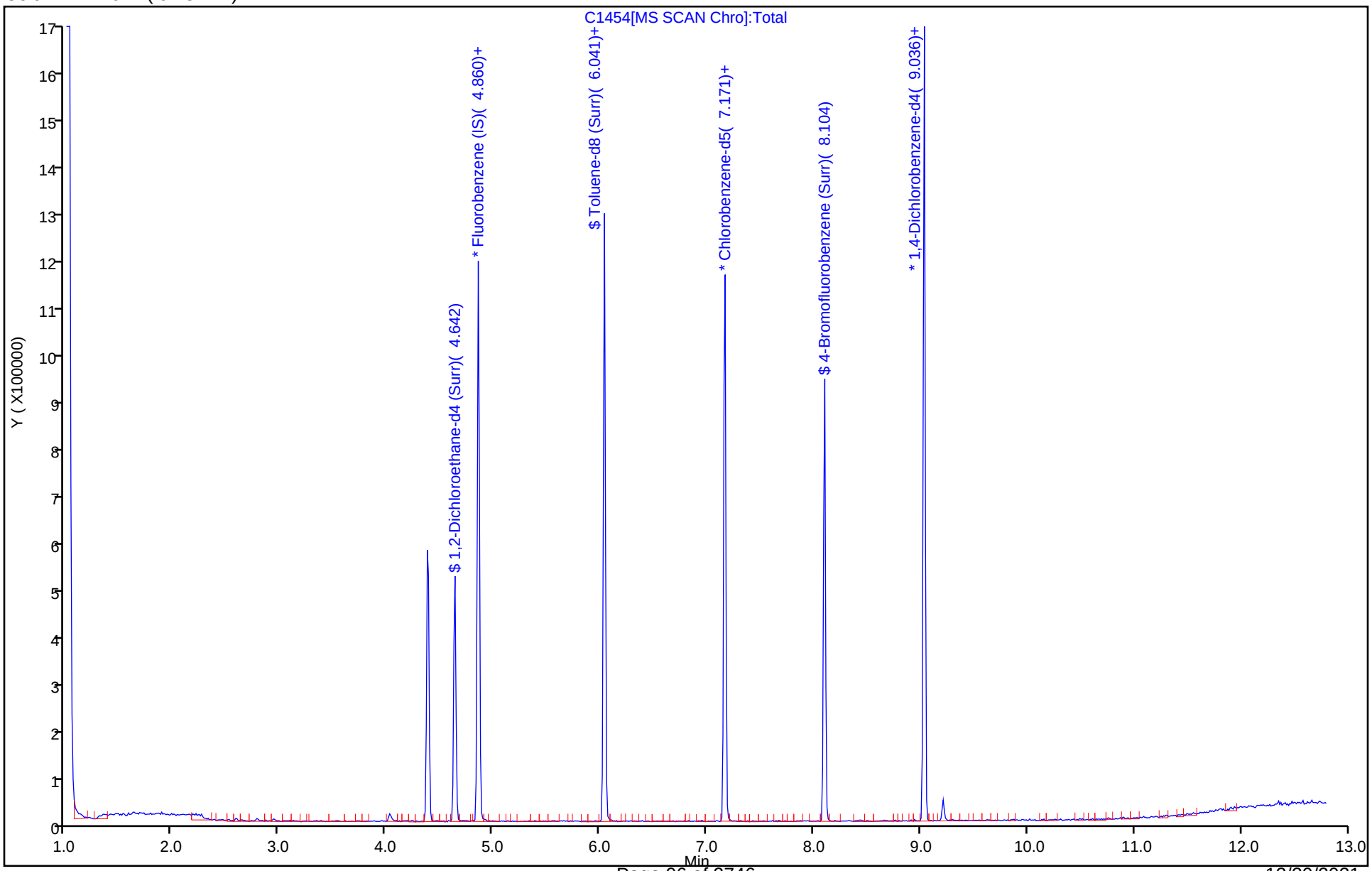
Report Date: 20-Dec-2021 10:24:21 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1454.D

Injection Date:	17-Dec-2021 16:56:30	Instrument ID:	HP5973C	Operator ID:	LH
Lims ID:	480-193436-M-6	Lab Sample ID:	480-193436-6	Worklist Smp#:	12
Client ID:	MW-6A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-6B Lab Sample ID: 480-193436-7

Matrix: Water Lab File ID: C1455.D

Analysis Method: 8260C Date Collected: 12/14/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 17:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-6B Lab Sample ID: 480-193436-7

Matrix: Water Lab File ID: C1455.D

Analysis Method: 8260C Date Collected: 12/14/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 17:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND	*+	1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
2037-26-5	Toluene-d8 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1455.D
Lims ID: 480-193436-M-7
Client ID: MW-6B
Sample Type: Client
Inject. Date: 17-Dec-2021 17:19:30 ALS Bottle#: 18 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193436-M-7
Misc. Info.: 480-0103133-013
Operator ID: LH Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Dec-2021 10:23:58 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: kiwana Date: 20-Dec-2021 10:25:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	135375	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	238650	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	95	315432	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.643	4.642	0.001	97	121135	26.3	
$ 5 Toluene-d8 (Surr)	98	6.042	6.041	0.001	93	577787	26.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	91	193855	25.4	
12 Chloromethane	50		1.295				ND	
13 Vinyl chloride	62		1.388				ND	
14 Bromomethane	94		1.668				ND	
15 Chloroethane	64		1.751				ND	
17 Trichlorofluoromethane	101		1.969				ND	
22 1,1-Dichloroethene	96		2.456				ND	
23 Acetone	43	2.591	2.591	0.000	77	4744	0.8057	
25 Iodomethane	142		2.611				ND	
26 Carbon disulfide	76		2.642				ND	7
30 Methylene Chloride	84		2.943				ND	
34 trans-1,2-Dichloroethene	96		3.150				ND	
33 Acrylonitrile	53		3.202				ND	
39 1,1-Dichloroethane	63		3.523				ND	
37 Vinyl acetate	43		3.575				ND	
45 cis-1,2-Dichloroethene	96		4.000				ND	
43 2-Butanone (MEK)	43		4.041				ND	
48 Chlorobromomethane	128		4.197				ND	
50 Chloroform	83		4.259				ND	
51 1,1,1-Trichloroethane	97		4.352				ND	
55 Carbon tetrachloride	117		4.466				ND	
57 Benzene	78		4.642				ND	
58 1,2-Dichloroethane	62		4.694				ND	
62 Trichloroethene	95		5.130				ND	
65 1,2-Dichloropropane	63		5.326				ND	
67 Dibromomethane	93		5.430				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
68 Dichlorobromomethane	83		5.544				ND	
72 cis-1,3-Dichloropropene	75		5.865				ND	
73 4-Methyl-2-pentanone (MIBK)	43		5.979				ND	
74 Toluene	92		6.093				ND	
77 trans-1,3-Dichloropropene	75		6.301				ND	
79 1,1,2-Trichloroethane	83		6.446				ND	
81 Tetrachloroethene	166		6.497				ND	
80 2-Hexanone	43		6.611				ND	
83 Chlorodibromomethane	129		6.756				ND	
84 Ethylene Dibromide	107		6.839				ND	
87 Chlorobenzene	112		7.192				ND	
88 Ethylbenzene	91		7.254				ND	
89 1,1,1,2-Tetrachloroethane	131		7.264				ND	
90 m-Xylene & p-Xylene	106		7.337				ND	
91 o-Xylene	106		7.658				ND	
92 Styrene	104		7.679				ND	
95 Bromoform	173		7.876				ND	
97 1,1,2,2-Tetrachloroethane	83		8.249				ND	
100 1,2,3-Trichloropropane	110		8.280				ND	
98 trans-1,4-Dichloro-2-butene	53		8.290				ND	
113 1,4-Dichlorobenzene	146		9.057				ND	
116 1,2-Dichlorobenzene	146		9.368				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.042				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent

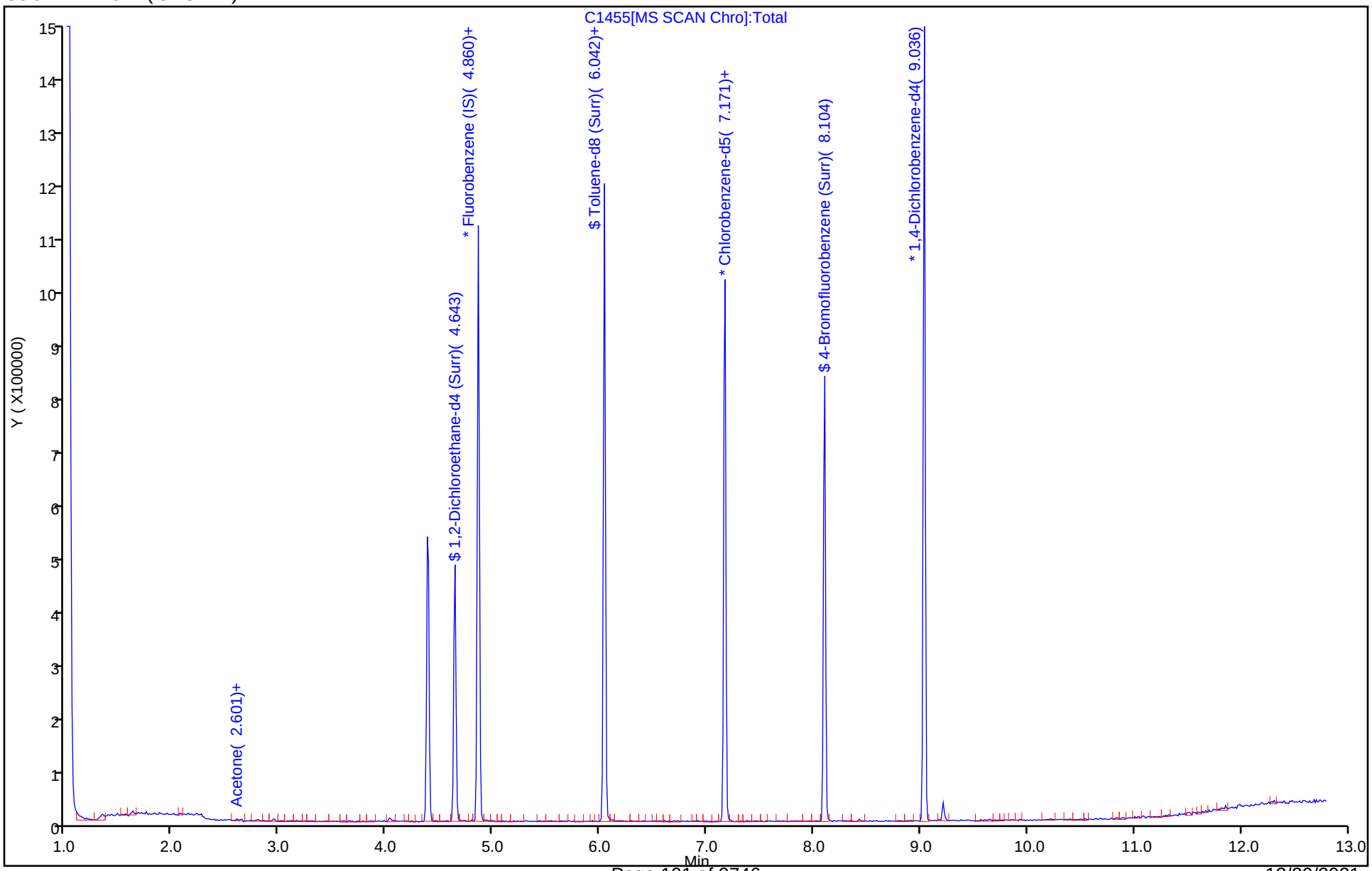
Report Date: 20-Dec-2021 10:25:04 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1455.D

Injection Date:	17-Dec-2021 17:19:30	Instrument ID:	HP5973C	Operator ID:	LH
Lims ID:	480-193436-M-7	Lab Sample ID:	480-193436-7	Worklist Smp#:	13
Client ID:	MW-6B				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-7A Lab Sample ID: 480-193436-8

Matrix: Water Lab File ID: C1456.D

Analysis Method: 8260C Date Collected: 12/14/2021 11:15

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 17:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: MW-7A Lab Sample ID: 480-193436-8

Matrix: Water Lab File ID: C1456.D

Analysis Method: 8260C Date Collected: 12/14/2021 11:15

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 17:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND	*+	1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		77-120
2037-26-5	Toluene-d8 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1456.D
Lims ID: 480-193436-M-8
Client ID: MW-7A
Sample Type: Client
Inject. Date: 17-Dec-2021 17:42:30 ALS Bottle#: 19 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-193436-M-8
Misc. Info.: 480-0103133-014
Operator ID: LH Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Dec-2021 10:23:58 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: kiwana Date: 20-Dec-2021 10:25:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	134373	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	240830	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	96	308509	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	99	127993	28.0	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	93	580624	26.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	92	201058	26.1	
12 Chloromethane	50		1.295				ND	
13 Vinyl chloride	62	1.399	1.388	0.011	93	3802	0.3795	
14 Bromomethane	94		1.668				ND	
15 Chloroethane	64		1.751				ND	
17 Trichlorofluoromethane	101		1.969				ND	
22 1,1-Dichloroethene	96		2.456				ND	
23 Acetone	43		2.591				ND	
25 Iodomethane	142		2.611				ND	
26 Carbon disulfide	76		2.642				ND	
30 Methylene Chloride	84		2.943				ND	
34 trans-1,2-Dichloroethene	96		3.150				ND	
33 Acrylonitrile	53		3.202				ND	
39 1,1-Dichloroethane	63	3.523	3.523	0.000	96	9832	0.5854	
37 Vinyl acetate	43		3.575				ND	7
45 cis-1,2-Dichloroethene	96	4.000	4.000	0.000	78	8868	0.7694	
43 2-Butanone (MEK)	43		4.041				ND	
48 Chlorobromomethane	128		4.197				ND	
50 Chloroform	83		4.259				ND	
51 1,1,1-Trichloroethane	97		4.352				ND	
55 Carbon tetrachloride	117		4.466				ND	
57 Benzene	78		4.642				ND	
58 1,2-Dichloroethane	62		4.694				ND	7
62 Trichloroethene	95		5.130				ND	
65 1,2-Dichloropropane	63		5.326				ND	
67 Dibromomethane	93		5.430				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
68 Dichlorobromomethane	83		5.544				ND	
72 cis-1,3-Dichloropropene	75		5.865				ND	
73 4-Methyl-2-pentanone (MIBK)	43		5.979				ND	
74 Toluene	92		6.093				ND	
77 trans-1,3-Dichloropropene	75		6.301				ND	
79 1,1,2-Trichloroethane	83		6.446				ND	
81 Tetrachloroethene	166		6.497				ND	
80 2-Hexanone	43		6.611				ND	
83 Chlorodibromomethane	129		6.756				ND	
84 Ethylene Dibromide	107		6.839				ND	
87 Chlorobenzene	112		7.192				ND	
88 Ethylbenzene	91		7.254				ND	
89 1,1,1,2-Tetrachloroethane	131		7.264				ND	
90 m-Xylene & p-Xylene	106		7.337				ND	
91 o-Xylene	106		7.658				ND	
92 Styrene	104		7.679				ND	
95 Bromoform	173		7.876				ND	
97 1,1,2,2-Tetrachloroethane	83		8.249				ND	
100 1,2,3-Trichloropropane	110		8.280				ND	
98 trans-1,4-Dichloro-2-butene	53		8.290				ND	
113 1,4-Dichlorobenzene	146		9.057				ND	
116 1,2-Dichlorobenzene	146		9.368				ND	
117 1,2-Dibromo-3-Chloropropane	75		10.042				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent

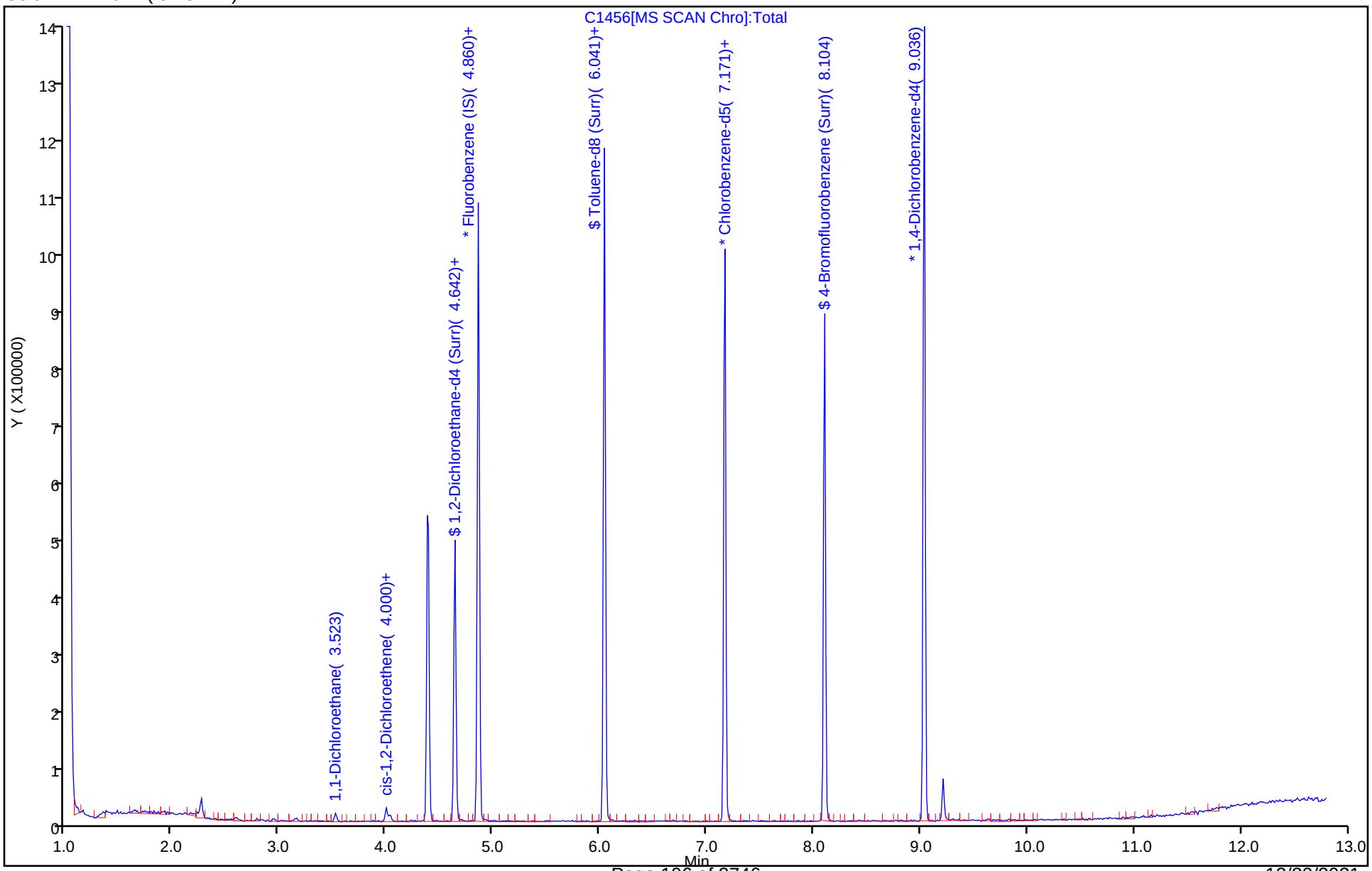
Report Date: 20-Dec-2021 10:25:26 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1456.D

Injection Date:	17-Dec-2021 17:42:30	Instrument ID:	HP5973C	Operator ID:	LH
Lims ID:	480-193436-M-8	Lab Sample ID:	480-193436-8	Worklist Smp#:	14
Client ID:	MW-7A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-607707/5	C1015.D
Level 2	IC 480-607707/6	C1016.D
Level 3	IC 480-607707/7	C1017.D
Level 4	IC 480-607707/8	C1018.D
Level 5	IC 480-607707/9	C1019.D
Level 6	ICIS 480-607707/10	C1020.D
Level 7	IC 480-607707/11	C1021.D
Level 8	IC 480-607707/12	C1022.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 2.0722	0.8197 1.8612	1.8749 1.7681	1.3547	1.3137	Lin1	-0.922	1.8270			0.1000	19.1			0.9910		0.9900
Chloromethane	1.9589 1.9986	2.3697 1.9414	2.2482 1.8706	1.9983	2.1017	Ave		2.0609			0.1000	8.2		20.0			
Vinyl chloride	2.0305 1.9881	1.8680 1.8462	2.0365 1.7298	1.6598	1.7533	Ave		1.8640			0.1000	7.7		20.0			
Butadiene	1.7789 1.8817	1.5390 1.7200	1.8620 1.6074	1.4884	1.4407	Ave		1.6648				10.2		20.0			
Bromomethane	+++++ 1.3185	2.2836 1.2850	1.7529 1.2020	1.4946	1.4892	Lin1	1.1875	1.2293			0.1000	7.9			0.9980		0.9900
Chloroethane	+++++ 1.1725	1.6303 1.1248	1.3710 1.0433	1.1247	1.1798	Lin1	0.5996	1.0750			0.1000	5.4			0.9980		0.9900
Dichlorofluoromethane	3.6617 3.0654	3.8308 2.9387	3.2263 2.7819	2.9463	3.3166	Ave		3.2210				11.4		20.0			
Trichlorofluoromethane	2.6689 3.0519	2.0151 2.7628	2.7348 2.6256	2.0603	2.0750	Ave		2.4993			0.1000	15.7		20.0			
Ethyl ether	1.5246 1.3790	1.9085 1.4414	1.4747 1.3149	1.4374	1.5279	Ave		1.5010				11.9		20.0			
Acrolein	0.3098 0.2893	0.3729 0.3171	0.3050 0.3263	0.3269	0.2920	Ave		0.3174				8.3		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2966 1.7106	1.0461 1.6532	1.6986 1.5609	1.1525	1.2884	Ave		1.4259			0.1000	18.4		20.0			
1,1-Dichloroethene	1.8111 1.6351	1.3541 1.6103	1.6963 1.5069	1.4014	1.4564	Ave		1.5590			0.1000	10.0		20.0			
Acetone	1.0171 1.0400	1.3022 1.0476	1.1332 1.0238	1.0126	1.1220	Ave		1.0873			0.1000	9.1		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	4.1232 3.3156	3.7999 3.4457	3.5938 3.1713	3.2942	3.5210	Ave		3.5331				8.7		20.0			
Carbon disulfide	+++++ 5.5604	6.5439 5.5927	5.9154 5.3144	5.1580	5.3441	Ave		5.6327			0.1000	8.3		20.0			
Allyl chloride	2.9481 2.7690	3.5341 2.7862	3.0454 2.6256	2.6139	2.8167	Ave		2.8924				10.3		20.0			
Methyl acetate	2.0736 2.0039	2.4251 2.0394	2.0441 1.9648	1.9508	1.9835	Ave		2.0606			0.1000	7.4		20.0			
Methylene Chloride	+++++ 1.9592	2.7940 1.9652	2.3058 1.8001	1.9550	2.1643	Lin1	1.0311	1.8593			0.1000	6.9			0.9980		0.9900
2-Methyl-2-propanol	0.6713 0.5498	0.5907 0.5613	0.5224 0.5592	0.5299	0.5891	Ave		0.5717				8.2		20.0			
trans-1,2-Dichloroethene	+++++ 1.8941	2.1989 1.9338	1.9315 1.7735	1.8514	1.8798	Ave		1.9233			0.1000	6.9		20.0			
Methyl tert-butyl ether	+++++ 5.6816	7.0064 5.7874	6.1757 5.4337	5.6827	6.2466	Ave		6.0020			0.1000	8.8		20.0			
Acrylonitrile	1.3205 1.1286	1.2069 1.1580	1.1165 1.0952	1.1402	1.1665	Ave		1.1665				6.1		20.0			
Hexane	+++++ 1.8540	0.8865 1.7364	1.6864 1.7625	1.1461	1.5329	Lin1	-0.950	1.7688				15.6			0.9960		0.9900
1,1-Dichloroethane	+++++ 2.9939	3.6019 3.0783	3.1122 2.8725	3.0640	3.1494	Ave		3.1246			0.2000	7.3		20.0			
Vinyl acetate	+++++ 3.1175	3.4130 3.2864	2.8477 3.3936	2.8290	2.8192	Ave		3.1009				8.7		20.0			
2,2-Dichloropropane	+++++ 2.5775	3.3610 2.5998	2.7290 2.4291	2.4259	2.4909	Ave		2.6590				12.3		20.0			
cis-1,2-Dichloroethene	2.5079 2.0049	2.3811 2.0376	2.1872 1.8967	2.0482	2.0908	Ave		2.1443			0.1000	9.6		20.0			
2-Butanone (MEK)	0.9440 1.0034	1.1629 1.0446	0.9927 1.0883	0.9607	0.9781	Ave		1.0218			0.1000	7.2		20.0			
Chlorobromomethane	+++++ 1.1651	1.4409 1.1734	1.2066 1.0923	1.1044	1.2237	Ave		1.2009				9.7		20.0			
Tetrahydrofuran	0.8122 0.7783	0.7629 0.7847	0.7898 0.7987	0.7587	0.8072	Ave		0.7866				2.5		20.0			
Chloroform	+++++ 3.0754	3.6609 3.1461	3.4877 2.9743	3.1517	3.2119	Ave		3.2440			0.2000	7.5		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	3.0120 2.7526	3.1600 2.7846	2.6501 2.6212	2.4748	2.5939	Ave		2.7562			0.1000	8.3		20.0			
Cyclohexane	2.3316 2.8376	1.8092 2.7308	2.6153 2.6128	1.8743	2.4030	Ave		2.4018			0.1000	15.9		20.0			
Carbon tetrachloride	2.3483 2.4137	2.2387 2.4590	2.2282 2.3610	1.9115	2.2096	Ave		2.2713			0.1000	7.5		20.0			
1,1-Dichloropropene	1.8256 1.8211	1.8620 1.8463	1.8249 1.8288	1.5475	1.5599	Ave		1.7645				7.4		20.0			
Benzene	5.8273 5.3779	6.4624 5.5676	5.6237 5.3423	5.1389	5.2275	Ave		5.5710			0.5000	7.6		20.0			
Isobutyl alcohol	0.1835 0.1626	0.1866 0.1681	0.1449 0.1748	0.1576	0.1690	Ave		0.1684				8.1		20.0			
1,2-Dichloroethane	2.4798 2.1451	2.9125 2.2551	2.3687 2.1587	2.2466	2.1461	Ave		2.3391			0.1000	11.1		20.0			
n-Heptane	+++++ 1.9921	0.9323 1.8474	2.0038 1.8352	1.4345	1.6013	Lin1	-0.734	1.8599				15.9			0.9970		0.9900
Trichloroethene	1.4521 1.4219	1.6077 1.4091	1.4095 1.4041	1.3489	1.3250	Ave		1.4223			0.2000	6.0		20.0			
Methylcyclohexane	+++++ 2.8045	1.5433 2.6911	2.6985 2.6923	1.8147	2.3510	Lin1	-1.254	2.7057			0.1000	15.5			0.9970		0.9900
1,2-Dichloropropane	+++++ 1.1935	1.4849 1.2510	1.2608 1.2355	1.2070	1.2390	Ave		1.2674			0.1000	7.8		20.0			
Dibromomethane	1.3047 1.0392	1.3369 1.0848	0.9485 1.0370	1.0100	1.0236	Ave		1.0981			0.1000	13.0		20.0			
1,4-Dioxane	0.0158 0.0170	0.0162 0.0181	0.0169 0.0187	0.0171	0.0209	Ave		0.0176				9.3		20.0			
Bromodichloromethane	1.8206 1.7648	2.0849 1.8274	1.7205 1.8096	1.6882	1.7176	Ave		1.8042			0.2000	6.9		20.0			
2-Chloroethyl vinyl ether	0.6918 0.6501	0.7033 0.6900	0.7079 0.7032	0.6550	0.5975	Ave		0.6748				5.7		20.0			
cis-1,3-Dichloropropene	1.4412 1.7332	1.8466 1.7916	1.5671 1.8509	1.5803	1.6639	Ave		1.6843			0.2000	8.8		20.0			
4-Methyl-2-pentanone (MIBK)	1.3709 1.2340	1.3396 1.3968	1.1778 1.3093	1.1775	1.2443	Ave		1.2813			0.1000	6.6		20.0			
Toluene	1.6232 1.5542	1.7366 1.7368	1.5977 1.6403	1.5084	1.4783	Ave		1.6094			0.4000	5.9		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
trans-1,3-Dichloropropene	0.9150 0.7706	0.8170 0.8801	0.6849 0.8991	0.7593	0.7256	Ave		0.8065			0.1000	10.6		20.0			
Ethyl methacrylate	+++++ 0.8601	0.9880 0.9398	0.9562 0.9047	0.8332	0.8357	Ave		0.9025				6.8		20.0			
1,1,2-Trichloroethane	+++++ 0.4857	0.6137 0.5371	0.5038 0.5166	0.4795	0.5019	Ave		0.5198			0.1000	8.8		20.0			
Tetrachloroethene	0.8523 0.7037	0.6816 0.7444	0.7287 0.7283	0.6243	0.6733	Ave		0.7171			0.2000	9.3		20.0			
1,3-Dichloropropane	0.9474 0.9206	1.0026 1.0287	0.9876 0.9846	0.9050	0.9323	Ave		0.9636				4.5		20.0			
2-Hexanone	0.6881 0.7166	0.7842 0.7777	0.7213 0.7268	0.7136	0.7013	Ave		0.7287			0.1000	4.7		20.0			
Dibromochloromethane	+++++ 0.6849	0.7408 0.7787	0.6939 0.7770	0.6110	0.7003	Ave		0.7124			0.1000	8.3		20.0			
1,2-Dibromoethane	0.7602 0.6511	0.8052 0.7145	0.7059 0.6907	0.6021	0.6422	Ave		0.6965				9.4		20.0			
Chlorobenzene	2.1866 1.8973	2.2765 2.0826	2.0128 2.0169	1.9371	1.9463	Ave		2.0445			0.5000	6.4		20.0			
Ethylbenzene	3.7991 3.2269	3.4676 3.5653	3.2605 3.3662	3.1671	3.2616	Ave		3.3893			0.1000	6.3		20.0			
1,1,1,2-Tetrachloroethane	1.1115 0.8666	1.1090 1.0180	0.8940 0.9491	0.8611	0.9227	Ave		0.9665				10.5		20.0			
m,p-Xylene	1.3736 1.2589	1.4245 1.4111	1.2489 1.3315	1.2552	1.2627	Ave		1.3208			0.1000	5.6		20.0			
o-Xylene	1.4561 1.4028	1.5918 1.5753	1.4224 1.4583	1.3826	1.4594	Ave		1.4686			0.3000	5.2		20.0			
Styrene	2.1513 1.9833	2.2058 2.2544	1.9638 2.1298	1.9064	1.9851	Ave		2.0725			0.3000	6.2		20.0			
Bromoform	0.5810 0.5005	0.4679 0.5765	0.5159 0.5717	0.4822	0.5021	Ave		0.5247			0.1000	8.6		20.0			
Isopropylbenzene	3.1352 2.8921	2.8567 3.3975	2.5521 3.2393	2.6690	2.7240	Ave		2.9332			0.1000	10.1		20.0			
Bromobenzene	0.7549 0.6610	0.8775 0.7866	0.6056 0.7229	0.7378	0.6713	Ave		0.7272				11.5		20.0			
1,1,2,2-Tetrachloroethane	0.9468 0.9197	1.1669 1.0557	0.9717 0.9977	0.9775	0.9479	Ave		0.9980			0.3000	8.0		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	3.2524 3.3390	3.3329 3.8487	3.1301 3.5829	3.2227	3.1185	Ave		3.3534				7.4		20.0			
trans-1,4-Dichloro-2-butene	0.2048 0.2297	0.1935 0.2763	0.1869 0.2640	0.1945	0.2001	Ave		0.2187				15.7		20.0			
1,2,3-Trichloropropane	+++++ 0.3250	0.3793 0.3642	0.3525 0.3382	0.3251	0.3319	Ave		0.3452				6.1		20.0			
2-Chlorotoluene	+++++ 0.7584	0.7606 0.8523	0.7047 0.7831	0.7148	0.7906	Ave		0.7664				6.5		20.0			
1,3,5-Trimethylbenzene	2.7639 2.5118	2.5472 2.8868	2.1966 2.7672	2.3130	2.3861	Ave		2.5466				9.6		20.0			
4-Chlorotoluene	0.8128 0.6825	0.6694 0.8032	0.6076 0.7362	0.7244	0.7212	Ave		0.7197				9.5		20.0			
tert-Butylbenzene	0.4796 0.5306	0.3979 0.6157	0.4183 0.6229	0.4151	0.4466	Ave		0.4908				18.3		20.0			
1,2,4-Trimethylbenzene	2.6044 2.5841	2.7741 3.0787	2.4689 2.8953	2.4691	2.5523	Ave		2.6784				8.2		20.0			
sec-Butylbenzene	3.0709 3.2104	2.5048 3.7451	2.7625 3.6515	2.7805	2.9055	Ave		3.0789				14.2		20.0			
4-Isopropyltoluene	2.8156 2.9871	2.5122 3.4907	2.4553 3.3259	2.6544	2.7328	Ave		2.8718				13.0		20.0			
1,3-Dichlorobenzene	1.7851 1.4918	1.8492 1.6545	1.4805 1.5341	1.5904	1.4732	Ave		1.6073			0.6000	9.0		20.0			
1,4-Dichlorobenzene	+++++ 1.4818	1.6169 1.7037	1.5728 1.5602	1.6107	1.5401	Ave		1.5837			0.5000	4.4		20.0			
n-Butylbenzene	3.0089 2.6764	2.4516 3.1135	2.4690 2.9652	2.4908	2.5467	Ave		2.7153				10.0		20.0			
1,2-Dichlorobenzene	2.0614 1.5931	1.8509 1.8104	1.6322 1.6646	1.6229	1.6758	Ave		1.7389			0.4000	9.2		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.2872	0.4045 0.3474	0.3439 0.3344	0.3238	0.3123	Ave		0.3362			0.0500	10.9		20.0			
1,2,4-Trichlorobenzene	1.6234 1.3398	1.5619 1.4980	1.3397 1.4399	1.3099	1.3850	Ave		1.4372			0.2000	8.0		20.0			
Hexachlorobutadiene	+++++ 0.5541	0.4487 0.6493	0.5477 0.6433	0.4809	0.5675	Ave		0.5560				13.5		20.0			
Naphthalene	+++++ 4.7120	5.2066 5.5322	4.4483 5.2496	4.5754	4.7868	Ave		4.9301				8.1		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	+++++ 1.2999	1.5442 1.5262	1.3582 1.4129	1.3690	1.4341	Ave		1.4206				6.3		20.0			
Dibromofluoromethane (Surr)	1.7667 1.8034	1.7622 1.6533	1.8009 1.6326	1.7282	1.8122	Ave		1.7449				3.9		20.0			
1,2-Dichloroethane-d4 (Surr)	0.8169 0.8814	0.8346 0.8529	0.8950 0.8083	0.8501	0.8668	Ave		0.8507				3.5		20.0			
Toluene-d8 (Surr)	2.2471 2.3160	2.2548 2.4477	2.3177 2.2420	2.2042	2.4205	Ave		2.3062				3.8		20.0			
4-Bromofluorobenzene (Surr)	0.7604 0.8177	0.7906 0.8384	0.8060 0.7535	0.7717	0.8580	Ave		0.7995				4.7		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-607707/5	C1015.D
Level 2	IC 480-607707/6	C1016.D
Level 3	IC 480-607707/7	C1017.D
Level 4	IC 480-607707/8	C1018.D
Level 5	IC 480-607707/9	C1019.D
Level 6	ICIS 480-607707/10	C1020.D
Level 7	IC 480-607707/11	C1021.D
Level 8	IC 480-607707/12	C1022.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Lin1	+++++	4674	22231	42434	72981	+++++	1.00	2.00	5.00	10.0
			330844	604869	1259384			25.0	50.0	100		
Chloromethane	FB	Ave	4321	13512	26658	62592	116755	0.400	1.00	2.00	5.00	10.0
			319093	630951	1332394			25.0	50.0	100		
Vinyl chloride	FB	Ave	4479	10651	24148	51991	97401	0.400	1.00	2.00	5.00	10.0
			317412	599983	1232082			25.0	50.0	100		
Butadiene	FB	Ave	3924	8775	22078	46621	80034	0.400	1.00	2.00	5.00	10.0
			300417	558994	1144965			25.0	50.0	100		
Bromomethane	FB	Lin1	+++++	13021	20785	46814	82727	+++++	1.00	2.00	5.00	10.0
			210513	417598	856195			25.0	50.0	100		
Chloroethane	FB	Lin1	+++++	9296	16256	35230	65538	+++++	1.00	2.00	5.00	10.0
			187194	365542	743146			25.0	50.0	100		
Dichlorofluoromethane	FB	Ave	8077	21843	38255	92286	184246	0.400	1.00	2.00	5.00	10.0
			489409	955036	1981487			25.0	50.0	100		
Trichlorofluoromethane	FB	Ave	5887	11490	32427	64533	115271	0.400	1.00	2.00	5.00	10.0
			487254	897872	1870159			25.0	50.0	100		
Ethyl ether	FB	Ave	3363	10882	17486	45024	84876	0.400	1.00	2.00	5.00	10.0
			220161	468432	936607			25.0	50.0	100		
Acrolein	FB	Ave	3417	10631	18081	51201	81106	2.00	5.00	10.0	25.0	50.0
			230977	515275	1161929			125	250	500		
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2860	5965	20141	36100	71575	0.400	1.00	2.00	5.00	10.0
			273102	537263	1111842			25.0	50.0	100		
1,1-Dichloroethene	FB	Ave	3995	7721	20114	43897	80904	0.400	1.00	2.00	5.00	10.0
			261061	523330	1073339			25.0	50.0	100		
Acetone	FB	Ave	11218	37125	67185	158586	311639	2.00	5.00	10.0	25.0	50.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			830202	1702279	3646374			125	250	500		
Iodomethane	FB	Ave	9095 529348	21667 1119834	42613 2258896	103183	195599	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	+++++ 887754	37313 1817580	70141 3785349	161564	296877	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Allyl chloride	FB	Ave	6503 442087	20151 905472	36110 1870182	81874	156471	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	9148 639874	27655 1325544	48475 2798988	122210	220380	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	+++++ 312792	15931 638675	27341 1282164	61235	120233	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	14807 877717	33681 1824079	61941 3983430	165991	327273	4.00 250	10.0 500	20.0 1000	50.0	100
trans-1,2-Dichloroethene	FB	Ave	+++++ 302406	12538 628452	22903 1263235	57990	104429	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl tert-butyl ether	FB	Ave	+++++ 907105	39950 1880858	73228 3870337	177998	347012	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	29127 1801824	68819 3763310	132391 7800958	357131	648014	4.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Lin1	+++++ 295995	5055 564301	19996 1255401	35900	85157	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	+++++ 477990	20538 1000408	36902 2046037	95972	174953	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	+++++ 995447	38921 2136076	67532 4834424	177226	313226	+++++ 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 411520	19164 844904	32359 1730242	75985	138373	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	5532 320093	13577 662196	25934 1351008	64154	116148	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	10411 800955	33155 1697350	58856 3876008	150463	271690	2.00 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	+++++ 186017	8216 381331	14307 778035	34594	67977	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	3583 248533	8700 510027	18729 1137786	47531	89682	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	+++++	20874	41355	98721	178425	+++++	1.00	2.00	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			491004	1022456	2118550			25.0	50.0	100		
1,1,1-Trichloroethane	FB	Ave	6644 439476	18018 904973	31423 1867067	77519	144096	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	5143 453047	10316 887475	31011 1861034	58709	133491	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	5180 385358	12765 799152	26421 1681691	59874	122746	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	4027 290744	10617 600023	21638 1302608	48471	86654	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	12854 858621	36848 1809401	66682 3805275	160964	290399	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	10120 649132	26606 1365554	42947 3112371	123427	234745	10.0 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	5470 342485	16607 732889	28087 1537638	70370	119221	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Lin1	+++++ 318048	5316 600396	23760 1307219	44934	88954	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	3203 227014	9167 457957	16713 1000136	42252	73607	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Lin1	+++++ 447753	8800 874585	31997 1917726	56840	130604	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	+++++ 190548	8467 406573	14950 880049	37806	68829	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	2878 165914	7623 352563	11247 738629	31637	56865	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	1309 105043	3482 209046	7473 486790	20112	43098	8.00 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	4016 281757	11888 593899	20401 1288944	52878	95417	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	1526 103794	4010 224242	8394 500851	20516	33195	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	3179 276713	10529 582241	18582 1318378	49498	92432	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	28348	72035	130540	346470	640678	2.00	5.00	10.0	25.0	50.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			1906820	4025768	8518307			125	250	500		
Toluene	CBNZ d5	Ave	6713 480344	18677 1001166	35416 2134315	88764	152236	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	3784 238175	8787 507296	15182 1169956	44681	74723	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	+++++ 265824	10626 541743	21196 1177235	49031	86059	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 150114	6600 309628	11168 672248	28216	51682	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	3525 217488	7331 429109	16152 947649	36740	69336	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	3918 284528	10783 592995	21891 1281121	53258	96012	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	14229 1107312	42170 2241394	79941 4728325	209971	361095	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	+++++ 211685	7967 448877	15381 1011085	35958	72120	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	3144 201232	8660 411875	15647 898753	35434	66134	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	9043 586379	24484 1200476	44616 2624340	113993	200436	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	15712 997287	37294 2055161	72274 4380009	186373	335881	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4597	11927	19818	50673	95019	0.400	1.00	2.00	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			267842	586831	1234961			25.0	50.0	100		
m,p-Xylene	CBNZ d5	Ave	5681 389087	15321 813377	27684 1732478	73865	130036	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	6022 433543	17120 908043	31529 1897497	81363	150288	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	8897 612964	23723 1299531	43530 2771256	112183	204430	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	2403 154691	5032 332299	11435 743837	28375	51711	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	17709 1182029	42082 2461642	79517 5315117	202982	384329	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	4264 270159	12927 569941	18868 1186167	56112	94712	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	5348 375882	17190 764899	30275 1637043	74343	133734	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	18371 1364663	49096 2788546	97527 5879008	245095	439984	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1157 93894	2851 200179	5822 433209	14793	28232	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 132811	5588 263879	10982 554921	24728	46824	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 309972	11204 617511	21958 1284953	54361	111547	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	15612	37523	68443	175911	336657	0.400	1.00	2.00	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			1026594	2091603	4540562			25.0	50.0	100		
4-Chlorotoluene	DCBd 4	Ave	4591 278936	9861 581951	18931 1207988	55091	101749	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	2709 216860	5861 446077	13032 1022128	31569	63014	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	14711 1056139	40865 2230663	76927 4750756	187777	360098	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	17346 1312124	36898 2713493	86075 5991569	211460	409932	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	15904 1220848	37007 2529154	76503 5457280	201875	385569	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	10083 609722	27240 1198716	46128 2517148	120951	207855	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 605608	23819 1234431	49006 2560088	122494	217286	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	16996 1093847	36114 2255868	76929 4865388	189428	359310	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	11644 651102	27265 1311705	50856 2731265	123427	236431	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 117368	5959 251687	10715 548750	24623	44059	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	9170 547574	23008 1085356	41742 2362665	99619	195406	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	+++++	6610	17066	36576	80074	+++++	1.00	2.00	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			226483	470448	1055552			25.0	50.0	100		
Naphthalene	DCBd 4	Ave	+++++	76698	138599	347969	675370	+++++	1.00	2.00	5.00	10.0
			1925824	4008278	8613750			25.0	50.0	100		
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++	22747	42320	104113	202334	+++++	1.00	2.00	5.00	10.0
			531262	1105771	2318401			25.0	50.0	100		
Dibromofluoromethane (Surr)	FB	Ave	243563	251198	266918	270661	251674	25.0	25.0	25.0	25.0	25.0
			287924	268645	290712			25.0	25.0	25.0		
1,2-Dichloroethane-d4 (Surr)	FB	Ave	112622	118965	132654	133133	120384	25.0	25.0	25.0	25.0	25.0
			140721	138594	143927			25.0	25.0	25.0		
Toluene-d8 (Surr)	CBNZ d5	Ave	580845	606253	642191	648542	623163	25.0	25.0	25.0	25.0	25.0
			715771	705457	729302			25.0	25.0	25.0		
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	196549	212573	223329	227071	220891	25.0	25.0	25.0	25.0	25.0
			252704	241649	245121			25.0	25.0	25.0		

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-607707/5	C1015.D
Level 2	IC 480-607707/6	C1016.D
Level 3	IC 480-607707/7	C1017.D
Level 4	IC 480-607707/8	C1018.D
Level 5	IC 480-607707/9	C1019.D
Level 6	ICIS 480-607707/10	C1020.D
Level 7	IC 480-607707/11	C1021.D
Level 8	IC 480-607707/12	C1022.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	+++++	-4.7						30				
Chloromethane	-5.0						30					
Vinyl chloride	8.9						30					
Butadiene	6.9						30					
Bromomethane	+++++	-10.8						30				
Chloroethane	+++++	-4.1						30				
Dichlorofluoromethane	13.7						30					
Trichlorofluoromethane	6.8						30					
Ethyl ether	1.6						30					
Acrolein	-2.4						30					
1,1,2-Trichloro-1,2,2-trifluoroethane	-9.1						30					
1,1-Dichloroethene	16.2						30					
Acetone	-6.5						30					
Iodomethane	16.7						30					
Carbon disulfide	+++++	16.2						30				

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Allyl chloride	1.9						30					
Methyl acetate	0.6						30					
Methylene Chloride	+++++	-5.2						30				
2-Methyl-2-propanol	17.4						30					
trans-1,2-Dichloroethene	+++++	14.3						30				
Methyl tert-butyl ether	+++++	16.7						30				
Acrylonitrile	13.2						30					
Hexane	+++++	3.8						30				
1,1-Dichloroethane	+++++	15.3						30				
Vinyl acetate	+++++	10.1						30				
2,2-Dichloropropane	+++++	26.4						30				
cis-1,2-Dichloroethene	17.0						30					
2-Butanone (MEK)	-7.6						30					
Chlorobromomethane	+++++	20.0						30				
Tetrahydrofuran	3.3						30					
Chloroform	+++++	12.9						30				
1,1,1-Trichloroethane	9.3						30					
Cyclohexane	-2.9						30					
Carbon tetrachloride	3.4						30					
1,1-Dichloropropene	3.5						30					
Benzene	4.6						30					

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Isobutyl alcohol	9.0						30					
1,2-Dichloroethane	6.0						30					
n-Heptane	+++++	-10.4						30				
Trichloroethene	2.1						30					
Methylcyclohexane	+++++	3.4						30				
1,2-Dichloropropane	+++++	17.2						30				
Dibromomethane	18.8						30					
1,4-Dioxane	-10.0						30					
Bromodichloromethane	0.9						30					
2-Chloroethyl vinyl ether	2.5						30					
cis-1,3-Dichloropropene	-14.4						30					
4-Methyl-2-pentanone (MIBK)	7.0						30					
Toluene	0.9						30					
trans-1,3-Dichloropropene	13.5						30					
Ethyl methacrylate	+++++	9.5						30				
1,1,2-Trichloroethane	+++++	18.1						30				
Tetrachloroethene	18.9						30					
1,3-Dichloropropane	-1.7						30					
2-Hexanone	-5.6						30					
Dibromochloromethane	+++++	4.0						30				
1,2-Dibromoethane	9.1						30					

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chlorobenzene	6.9						30					
Ethylbenzene	12.1						30					
1,1,1,2-Tetrachloroethane	15.0						30					
m,p-Xylene	4.0						30					
o-Xylene	-0.9						30					
Styrene	3.8						30					
Bromoform	10.7						30					
Isopropylbenzene	6.9						30					
Bromobenzene	3.8						30					
1,1,2,2-Tetrachloroethane	-5.1						30					
N-Propylbenzene	-3.0						30					
trans-1,4-Dichloro-2-butene	-6.4						30					
1,2,3-Trichloropropane	+++++	9.9						30				
2-Chlorotoluene	+++++	-0.8						30				
1,3,5-Trimethylbenzene	8.5						30					
4-Chlorotoluene	12.9						30					
tert-Butylbenzene	-2.3						30					
1,2,4-Trimethylbenzene	-2.8						30					
sec-Butylbenzene	-0.3						30					
4-Isopropyltoluene	-2.0						30					
1,3-Dichlorobenzene	11.1						30					

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1 Analy Batch No.: 607707

SDG No.: 193337

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2021 15:09 Calibration End Date: 12/06/2021 17:50 Calibration ID: 42787

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	+++++	2.1						30				
n-Butylbenzene	10.8						30					
1,2-Dichlorobenzene	18.5						30					
1,2-Dibromo-3-Chloropropane	+++++	20.3						30				
1,2,4-Trichlorobenzene	13.0						30					
Hexachlorobutadiene	+++++	-19.3						30				
Naphthalene	+++++	5.6						30				
1,2,3-Trichlorobenzene	+++++	8.7						30				
Dibromofluoromethane (Surr)	1.2						30					
1,2-Dichloroethane-d4 (Surr)	-4.0						30					
Toluene-d8 (Surr)	-2.6						30					
4-Bromofluorobenzene (Surr)	-4.9						30					

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Lims ID: IC 0.4
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-Dec-2021 15:09:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.4
Misc. Info.: 480-0102880-005
Operator ID: wd Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Dec-2021 14:04:27 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: dahnw Date: 07-Dec-2021 09:30:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	137863	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	258483	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	95	353032	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.394	4.394	0.000	92	243563	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	98	112622	25.0	24.0	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	93	580845	25.0	24.4	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	89	196549	25.0	23.8	
10 Dichlorodifluoromethane	85	1.140	1.140	0.000	64	3938	0.4000	0.8956	
12 Chloromethane	50	1.295	1.295	0.000	74	4321	0.4000	0.3802	M
13 Vinyl chloride	62	1.388	1.388	0.000	96	4479	0.4000	0.4357	M
151 Butadiene	54	1.399	1.409	-0.010	82	3924	0.4000	0.4274	M
14 Bromomethane	94	1.668	1.668	0.000	80	3626	0.4000	-0.4311	M
15 Chloroethane	64	1.751	1.751	0.000	45	2576	0.4000	-0.1232	M
17 Trichlorofluoromethane	101	1.969	1.969	0.000	65	5887	0.4000	0.4271	
16 Dichlorofluoromethane	67	1.969	1.969	0.000	91	8077	0.4000	0.4547	M
18 Ethyl ether	59	2.280	2.269	0.011	64	3363	0.4000	0.4063	M
20 Acrolein	56	2.435	2.445	-0.010	66	3417	2.00	1.95	M
21 112TCTFE	101	2.446	2.456	-0.010	64	2860	0.4000	0.3637	M
22 1,1-Dichloroethene	96	2.466	2.466	0.000	93	3995	0.4000	0.4647	
23 Acetone	43	2.601	2.601	0.000	29	11218	2.00	1.87	M
25 Iodomethane	142	2.611	2.611	0.000	97	9095	0.4000	0.4668	
26 Carbon disulfide	76	2.642	2.642	0.000	67	16250	0.4000	0.5232	
28 3-Chloro-1-propene	41	2.808	2.818	-0.010	78	6503	0.4000	0.4077	
27 Methyl acetate	43	2.881	2.870	0.011	98	9148	0.8000	0.8050	M
30 Methylene Chloride	84	2.953	2.943	0.010	87	6361	0.4000	0.0658	Ma
31 2-Methyl-2-propanol	59	3.140	3.140	0.000	95	14807	4.00	4.70	
34 trans-1,2-Dichloroethene	96	3.150	3.150	0.000	73	5324	0.4000	0.5020	
32 Methyl tert-butyl ether	73	3.161	3.150	0.011	97	19168	0.4000	0.5791	
33 Acrylonitrile	53	3.212	3.212	0.000	100	29127	4.00	4.53	M
35 Hexane	57	3.326	3.326	0.000	69	3307	0.4000	0.8763	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.523	3.523	0.000	94	9022	0.4000	0.5236	a
37 Vinyl acetate	43	3.575	3.575	0.000	99	14064	0.8000	0.8225	M
44 2,2-Dichloropropane	77	3.969	3.969	0.000	62	6693	0.4000	0.4564	M
45 cis-1,2-Dichloroethene	96	4.000	4.000	0.000	82	5532	0.4000	0.4678	
43 2-Butanone (MEK)	43	4.041	4.041	0.000	98	10411	2.00	1.85	Ma
48 Chlorobromomethane	128	4.197	4.197	0.000	92	4192	0.4000	0.6330	
49 Tetrahydrofuran	42	4.238	4.228	0.010	76	3583	0.8000	0.8261	M
50 Chloroform	83	4.259	4.259	0.000	93	9818	0.4000	0.5488	
51 1,1,1-Trichloroethane	97	4.352	4.352	0.000	94	6644	0.4000	0.4371	
52 Cyclohexane	56	4.363	4.352	0.011	76	5143	0.4000	0.3883	a
55 Carbon tetrachloride	117	4.466	4.466	0.000	79	5180	0.4000	0.4136	
54 1,1-Dichloropropene	75	4.477	4.477	0.000	90	4027	0.4000	0.4139	M
57 Benzene	78	4.642	4.642	0.000	43	12854	0.4000	0.4184	M
53 Isobutyl alcohol	43	4.674	4.673	0.001	91	10120	10.0	10.9	M
58 1,2-Dichloroethane	62	4.705	4.705	0.001	95	5470	0.4000	0.4241	
59 n-Heptane	43	4.788	4.777	0.011	88	4813	0.4000	0.8639	M
62 Trichloroethene	95	5.130	5.129	0.001	92	3203	0.4000	0.4084	
64 Methylcyclohexane	83	5.223	5.223	0.000	83	5086	0.4000	0.8042	
65 1,2-Dichloropropane	63	5.326	5.326	0.000	45	3495	0.4000	0.5001	a
67 Dibromomethane	93	5.430	5.430	0.000	90	2878	0.4000	0.4753	
66 1,4-Dioxane	88	5.461	5.451	0.010	31	1309	8.00	7.20	Ma
68 Dichlorobromomethane	83	5.554	5.554	0.000	94	4016	0.4000	0.4036	
69 2-Chloroethyl vinyl ether	63	5.762	5.762	0.000	28	1526	0.4000	0.4101	
72 cis-1,3-Dichloropropene	75	5.876	5.876	0.000	34	3179	0.4000	0.3423	
73 4-Methyl-2-pentanone (MIBK)	43	5.990	5.979	0.011	98	28348	2.00	2.14	
74 Toluene	92	6.093	6.093	0.000	96	6713	0.4000	0.4034	
77 trans-1,3-Dichloropropene	75	6.301	6.300	0.001	85	3784	0.4000	0.4538	
75 Ethyl methacrylate	69	6.332	6.332	0.000	85	4611	0.4000	0.4941	
79 1,1,2-Trichloroethane	83	6.446	6.446	0.000	87	2778	0.4000	0.5169	
81 Tetrachloroethene	166	6.497	6.497	0.000	86	3525	0.4000	0.4754	a
82 1,3-Dichloropropane	76	6.570	6.570	0.000	88	3918	0.4000	0.3933	
80 2-Hexanone	43	6.622	6.622	0.000	96	14229	2.00	1.89	M
83 Chlorodibromomethane	129	6.757	6.756	0.001	88	3777	0.4000	0.5128	
84 Ethylene Dibromide	107	6.839	6.839	0.000	88	3144	0.4000	0.4366	
87 Chlorobenzene	112	7.192	7.192	0.000	94	9043	0.4000	0.4278	
88 Ethylbenzene	91	7.254	7.254	0.000	97	15712	0.4000	0.4484	
89 1,1,1,2-Tetrachloroethane	131	7.264	7.264	0.000	50	4597	0.4000	0.4600	
90 m-Xylene & p-Xylene	106	7.347	7.347	0.000	94	5681	0.4000	0.4160	
91 o-Xylene	106	7.668	7.658	0.010	96	6022	0.4000	0.3966	
92 Styrene	104	7.679	7.679	0.000	83	8897	0.4000	0.4152	
95 Bromoform	173	7.876	7.876	0.000	45	2403	0.4000	0.4429	
94 Isopropylbenzene	105	7.948	7.948	0.000	94	17709	0.4000	0.4275	a
101 Bromobenzene	156	8.228	8.228	0.000	92	4264	0.4000	0.4152	
97 1,1,2,2-Tetrachloroethane	83	8.259	8.249	0.010	92	5348	0.4000	0.3795	
99 N-Propylbenzene	91	8.280	8.280	0.000	97	18371	0.4000	0.3879	
100 1,2,3-Trichloropropane	110	8.290	8.290	0.000	60	3316	0.4000	0.6803	
98 trans-1,4-Dichloro-2-butene	53	8.280	8.290	-0.010	45	1157	0.4000	0.3746	
103 2-Chlorotoluene	126	8.363	8.363	0.000	97	5525	0.4000	0.5105	
102 1,3,5-Trimethylbenzene	105	8.415	8.414	0.001	92	15612	0.4000	0.4341	
105 4-Chlorotoluene	126	8.456	8.456	0.000	96	4591	0.4000	0.4518	
106 tert-Butylbenzene	134	8.674	8.684	-0.010	94	2709	0.4000	0.3908	
107 1,2,4-Trimethylbenzene	105	8.726	8.725	0.001	97	14711	0.4000	0.3890	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.860	8.860	0.000	94	17346	0.4000	0.3990	
110 4-Isopropyltoluene	119	8.974	8.974	0.000	96	15904	0.4000	0.3922	
111 1,3-Dichlorobenzene	146	8.985	8.984	0.001	96	10083	0.4000	0.4442	
113 1,4-Dichlorobenzene	146	9.057	9.057	0.000	95	11427	0.4000	0.5109	
115 n-Butylbenzene	91	9.306	9.306	0.000	95	16996	0.4000	0.4433	
116 1,2-Dichlorobenzene	146	9.368	9.368	0.000	93	11644	0.4000	0.4742	a
117 1,2-Dibromo-3-Chloropropane	75	10.031	10.041	-0.010	79	2892	0.4000	0.6091	
119 1,2,4-Trichlorobenzene	180	10.684	10.684	0.000	89	9170	0.4000	0.4518	
120 Hexachlorobutadiene	225	10.788	10.798	-0.010	88	4791	0.4000	0.6103	
121 Naphthalene	128	10.902	10.902	0.000	96	33561	0.4000	0.4821	
122 1,2,3-Trichlorobenzene	180	11.099	11.088	0.011	92	9732	0.4000	0.4851	
S 126 1,3-Dichloropropene, Total	1				0			0.7961	
S 125 1,2-Dichloroethene, Total	1				0			0.9698	
S 123 Total BTEX	1				0			2.08	
S 124 Xylenes, Total	1				0			0.8126	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00218	Amount Added:	0.40	Units: uL	
GAS CORP mix_00484	Amount Added:	0.40	Units: uL	
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent

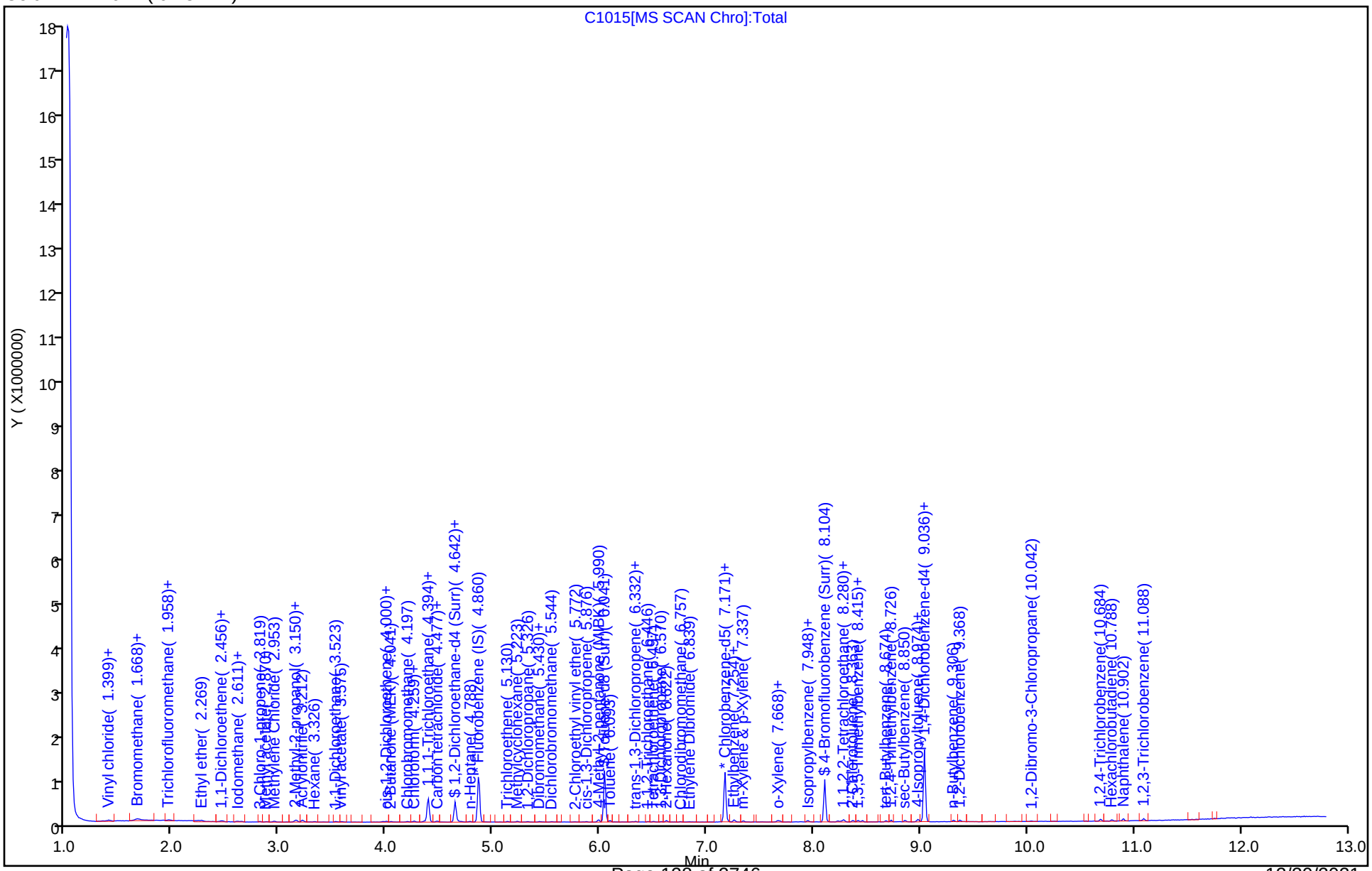
Report Date: 07-Dec-2021 14:04:29 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D

Injection Date:	06-Dec-2021 15:09:30	Instrument ID:	HP5973C	Operator ID:	wd
Lims ID:	IC 0.4			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

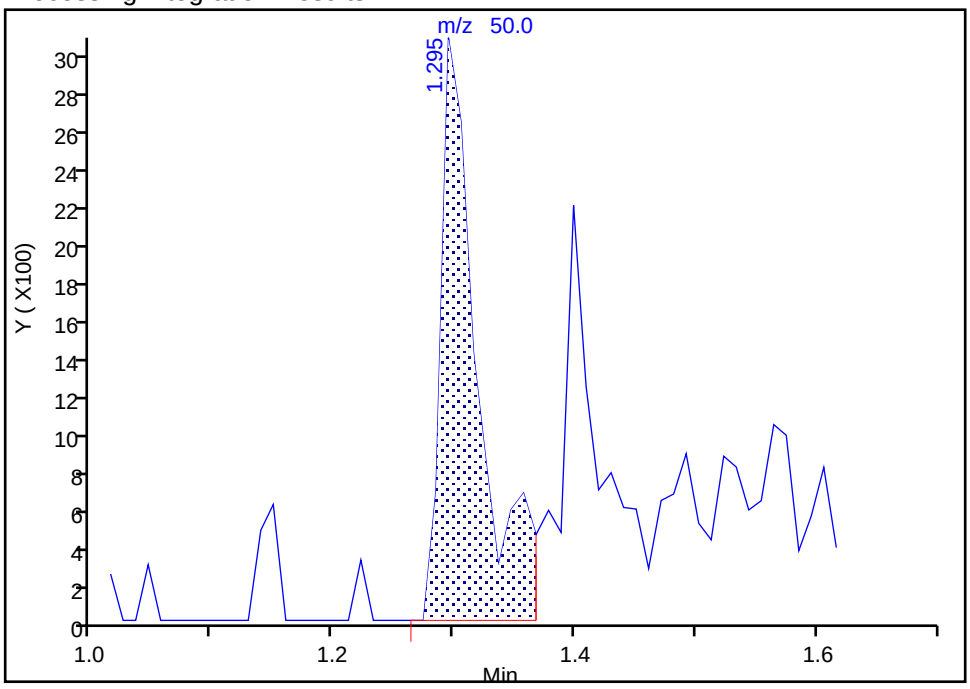
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

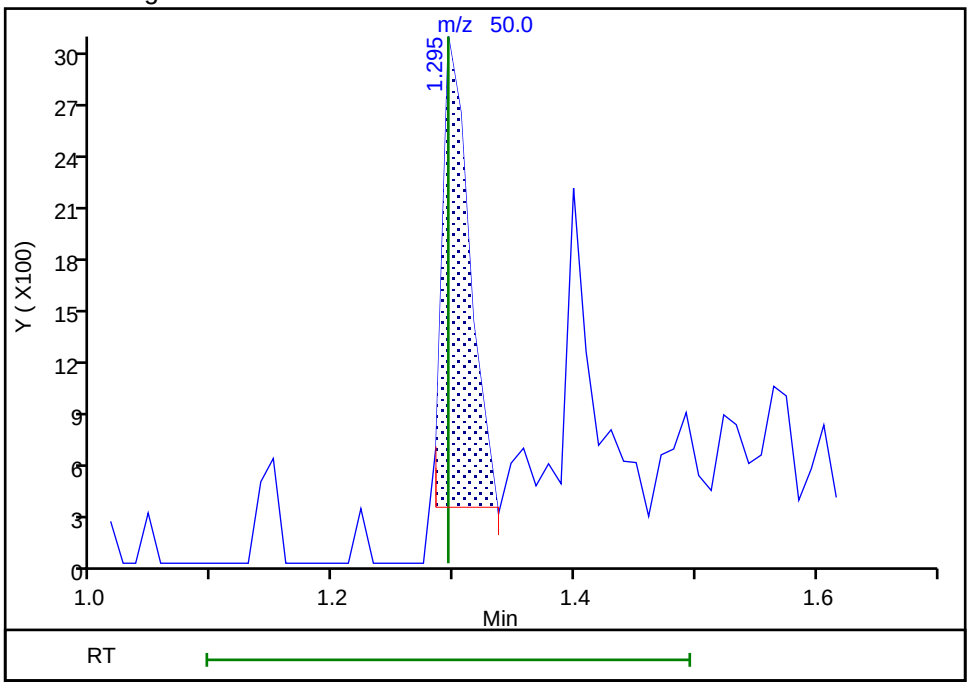
Processing Integration Results

RT: 1.30
Area: 6596
Amount: 0.576297
Amount Units: ug/L



Manual Integration Results

RT: 1.30
Area: 4321
Amount: 0.380199
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:28:55
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

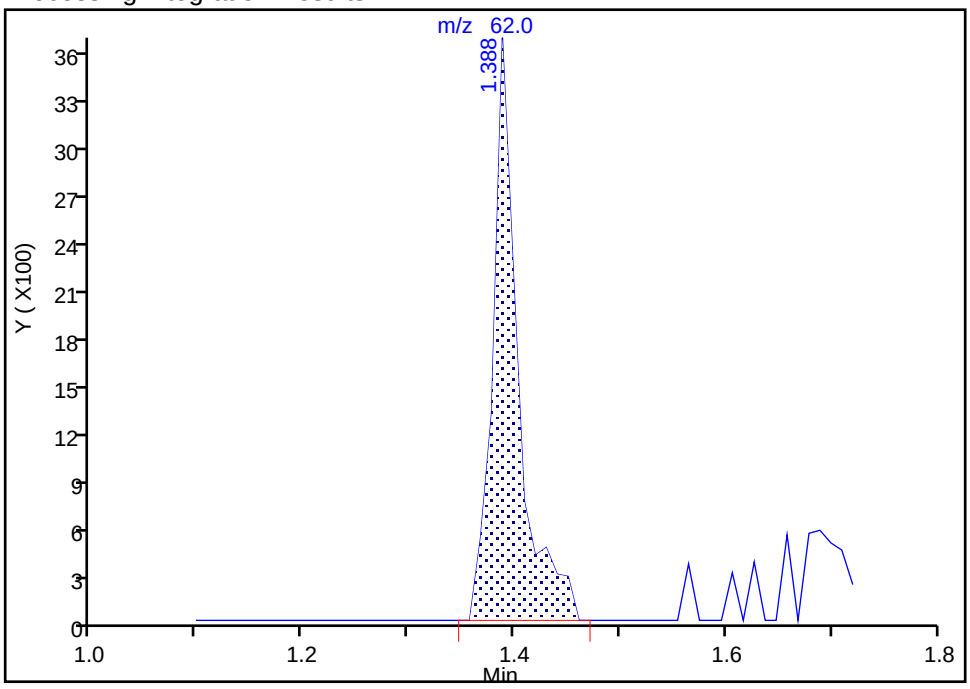
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

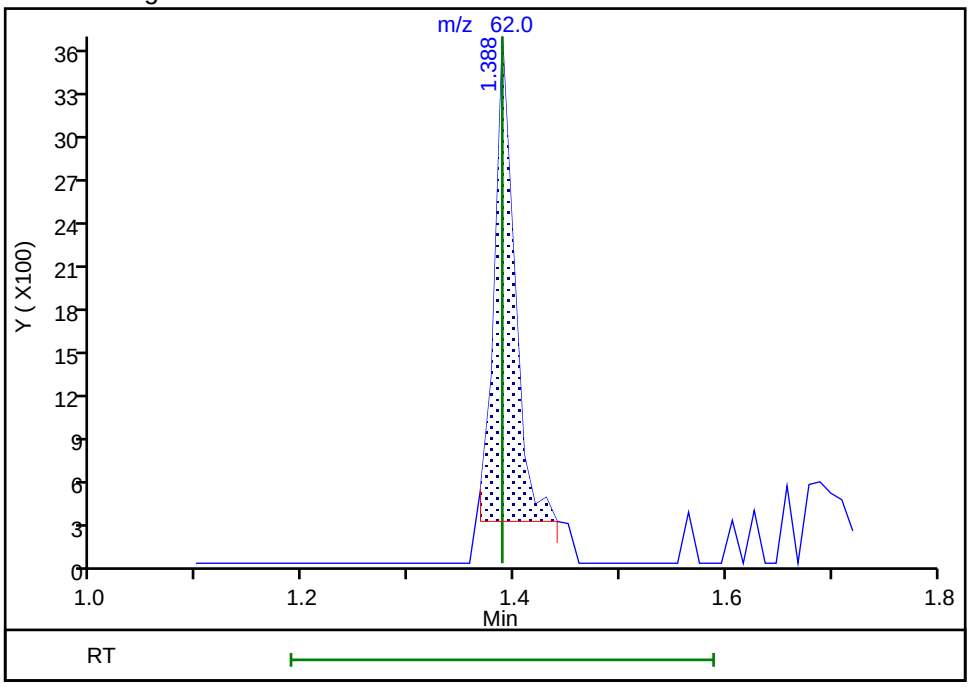
Processing Integration Results

RT: 1.39
Area: 6092
Amount: 0.600312
Amount Units: ug/L



Manual Integration Results

RT: 1.39
Area: 4479
Amount: 0.435733
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:35:50
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

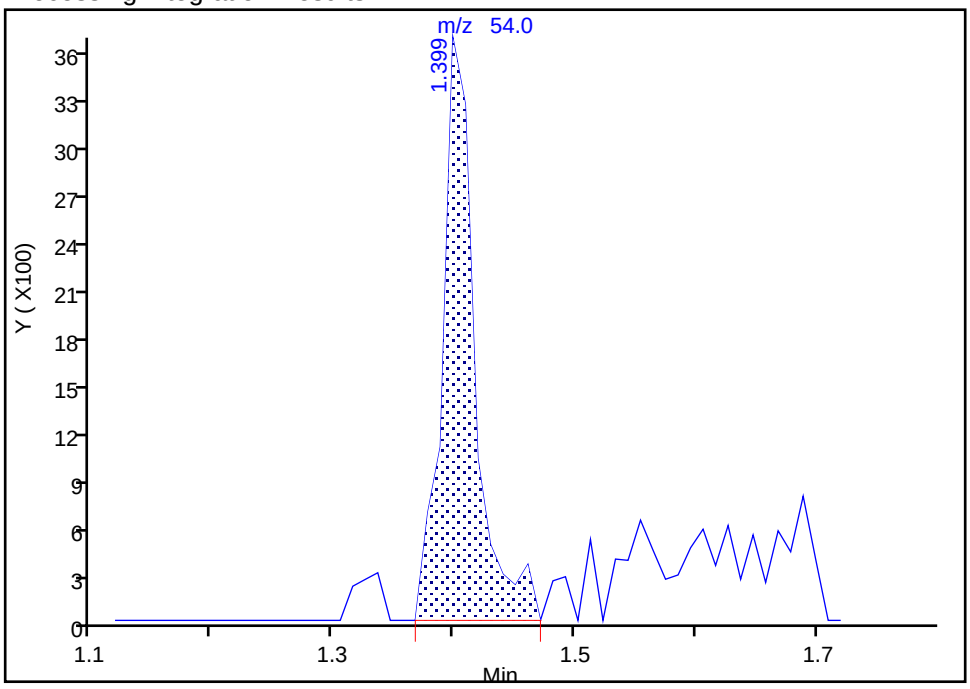
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

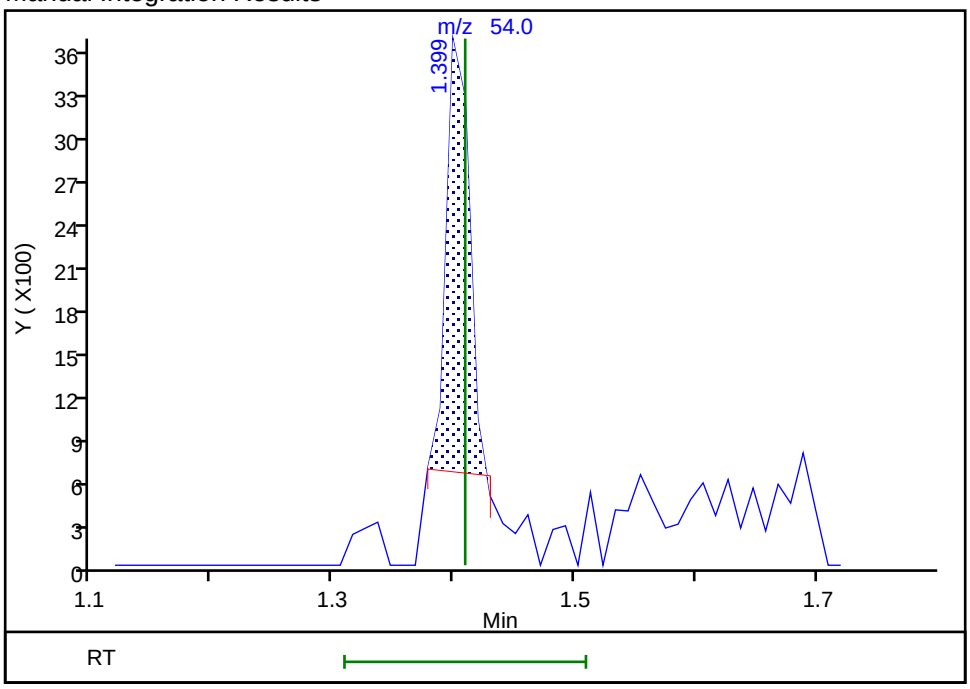
Processing Integration Results

RT: 1.40
Area: 6873
Amount: 0.756071
Amount Units: ug/L



Manual Integration Results

RT: 1.40
Area: 3924
Amount: 0.427434
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:36:07
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

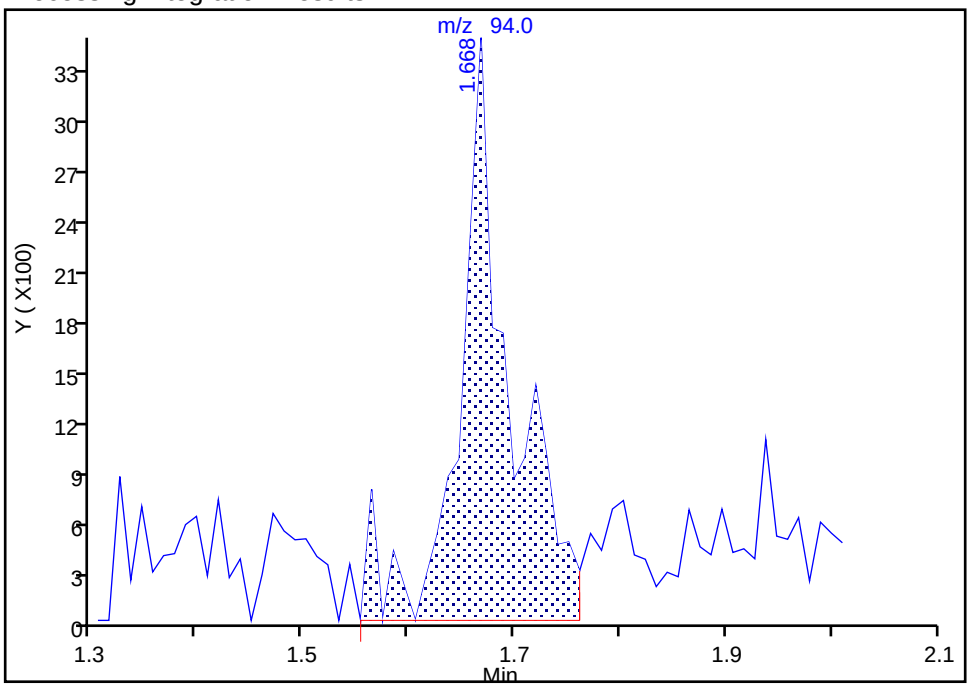
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

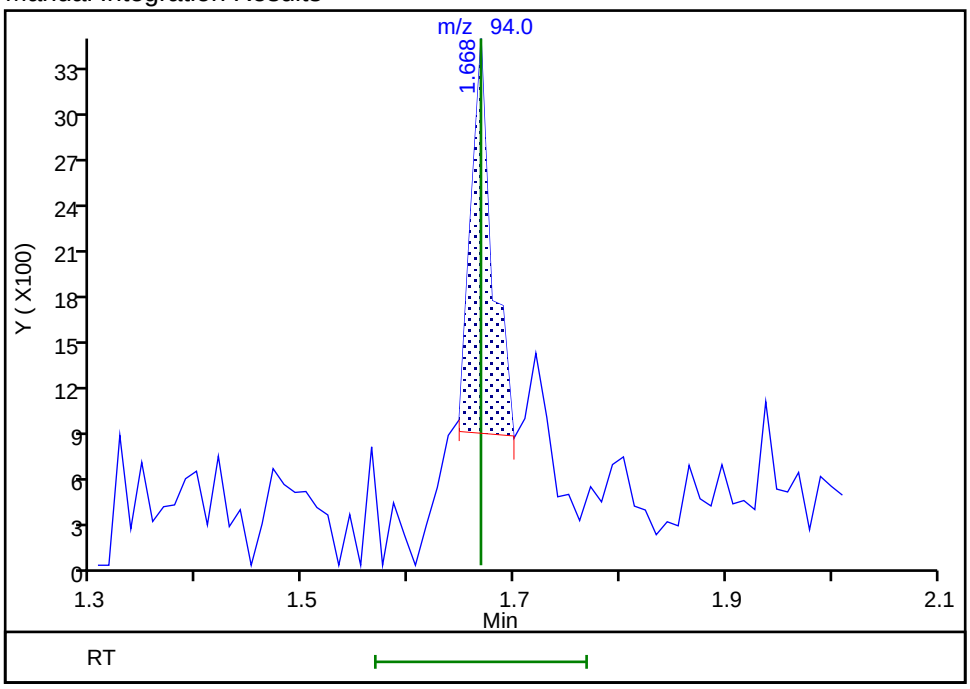
Processing Integration Results

RT: 1.67
Area: 11638
Amount: 1.067679
Amount Units: ug/L



Manual Integration Results

RT: 1.67
Area: 3626
Amount: -0.431125
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:36:21
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

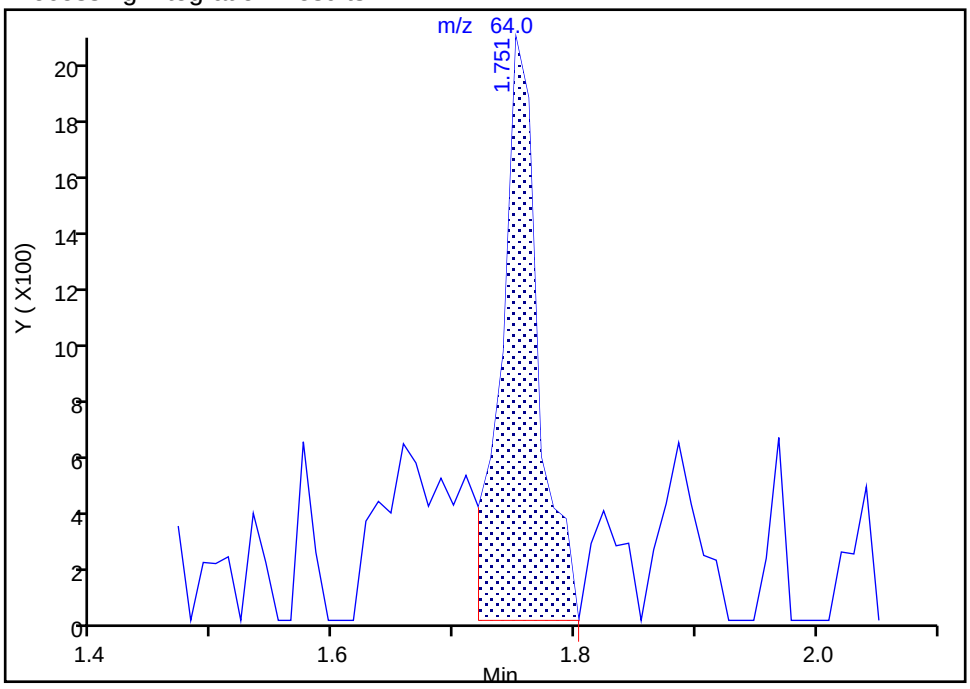
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

15 Chloroethane, CAS: 75-00-3

Signal: 1

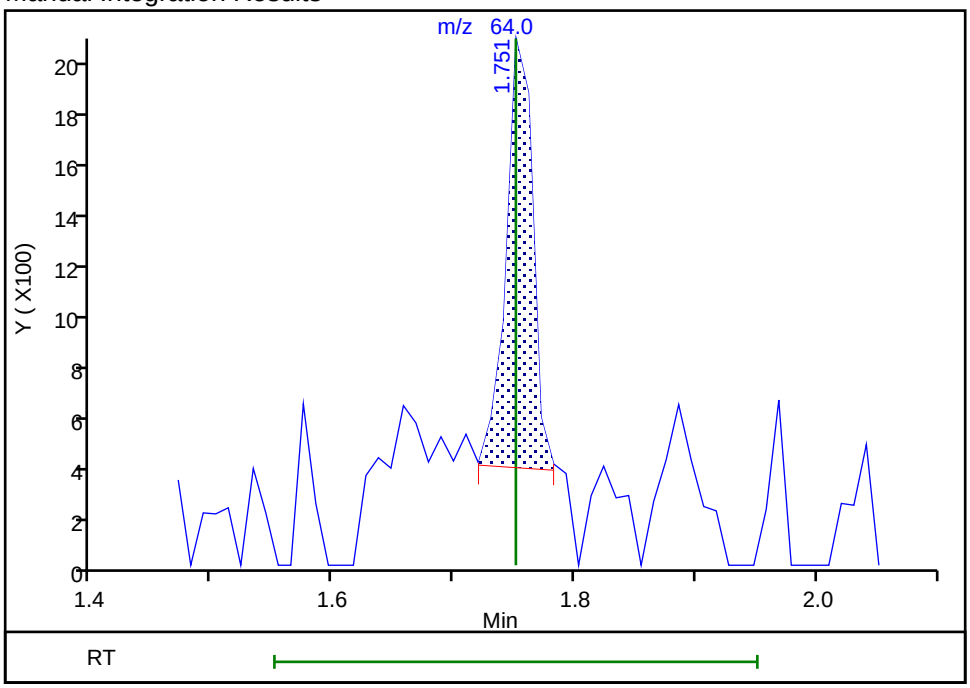
Processing Integration Results

RT: 1.75
Area: 4461
Amount: 0.194770
Amount Units: ug/L



Manual Integration Results

RT: 1.75
Area: 2576
Amount: -0.123199
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:36:45
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

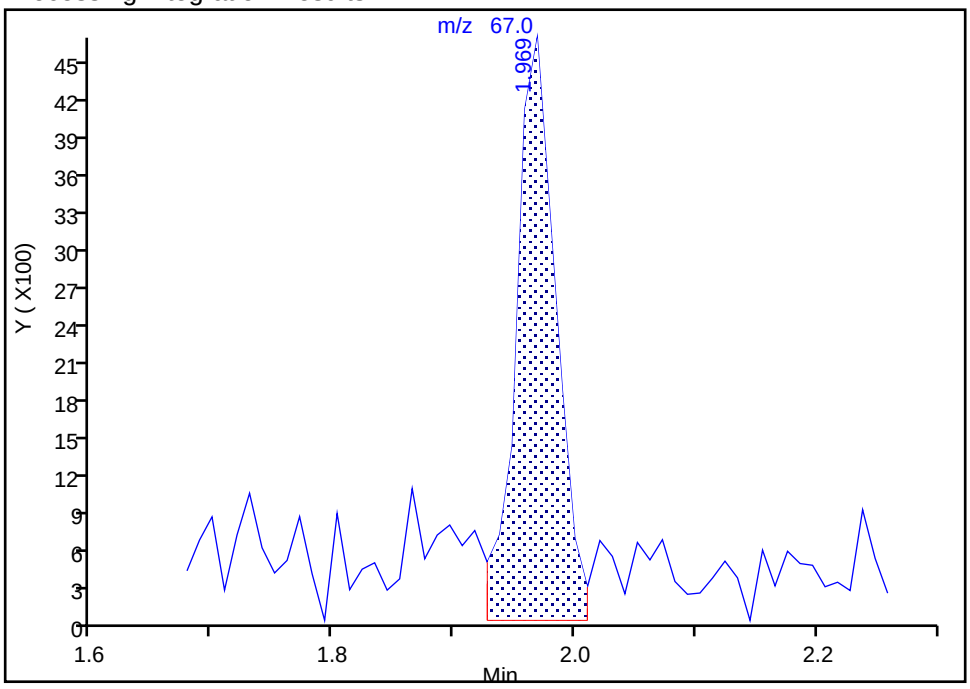
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

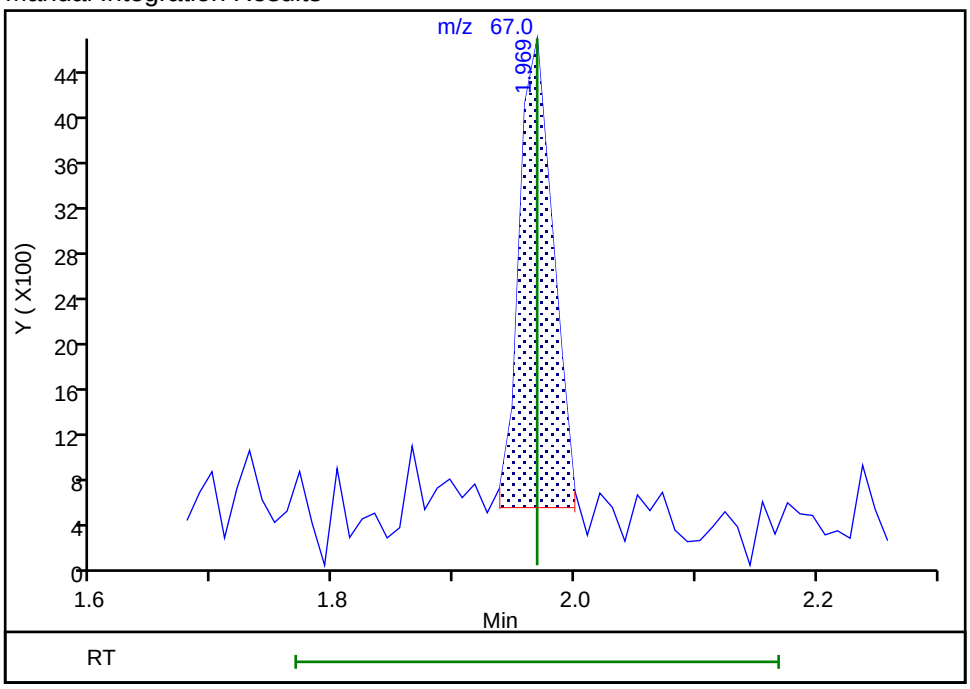
Processing Integration Results

RT: 1.97
Area: 10739
Amount: 0.616659
Amount Units: ug/L



Manual Integration Results

RT: 1.97
Area: 8077
Amount: 0.454735
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:37:13
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

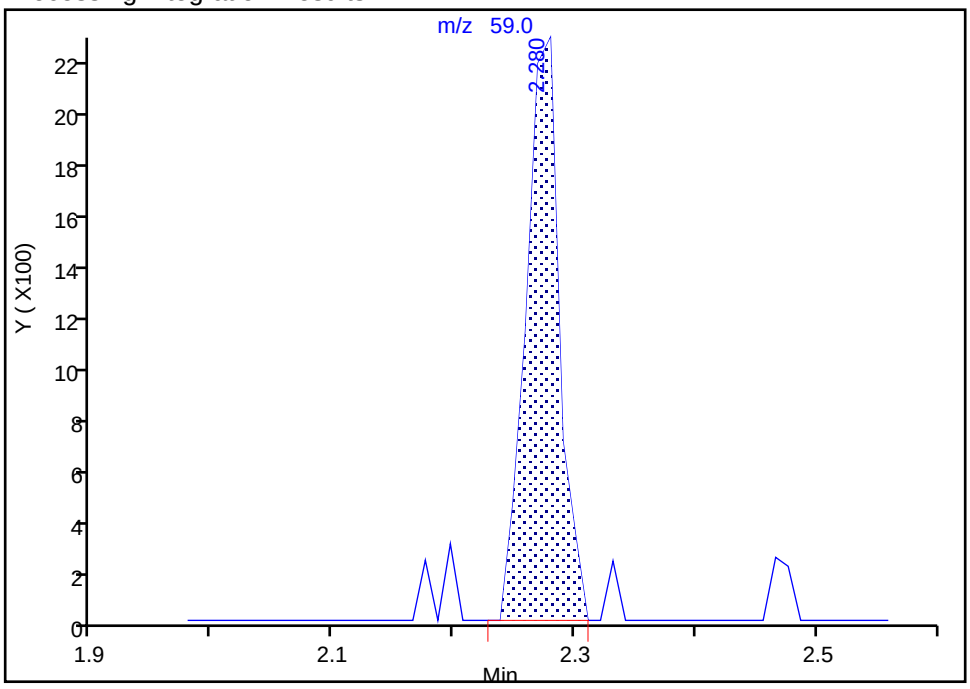
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

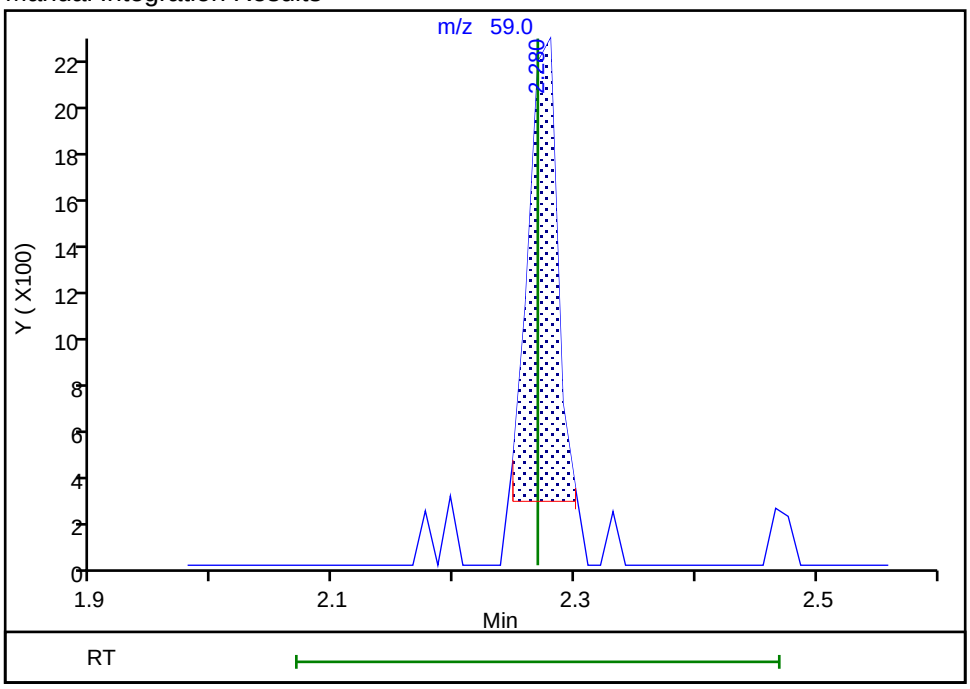
Processing Integration Results

RT: 2.28
Area: 4392
Amount: 0.531786
Amount Units: ug/L



Manual Integration Results

RT: 2.28
Area: 3363
Amount: 0.406281
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:37:22
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

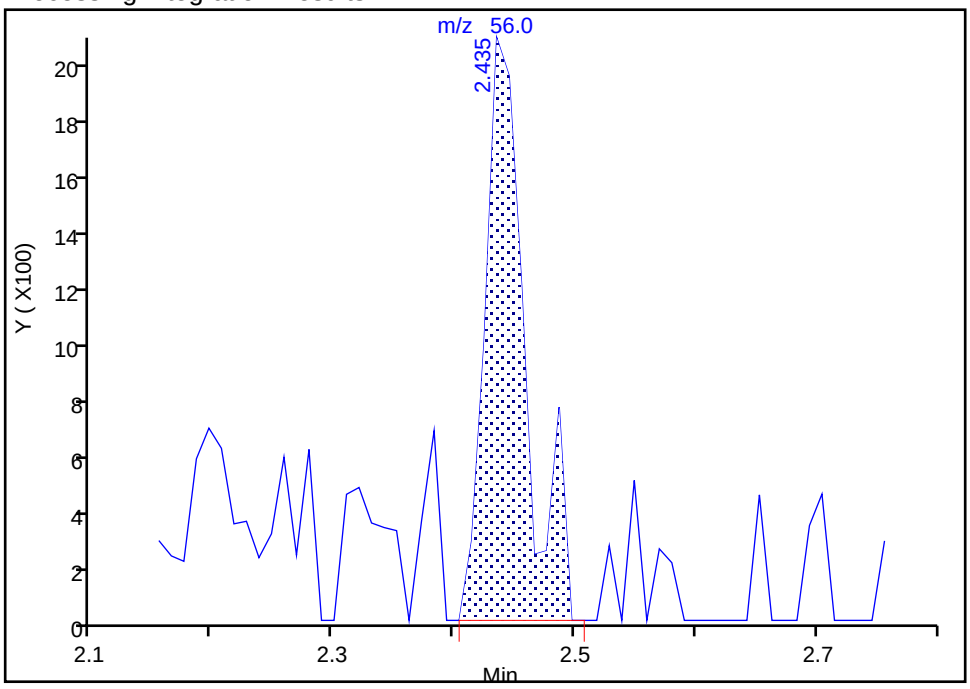
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

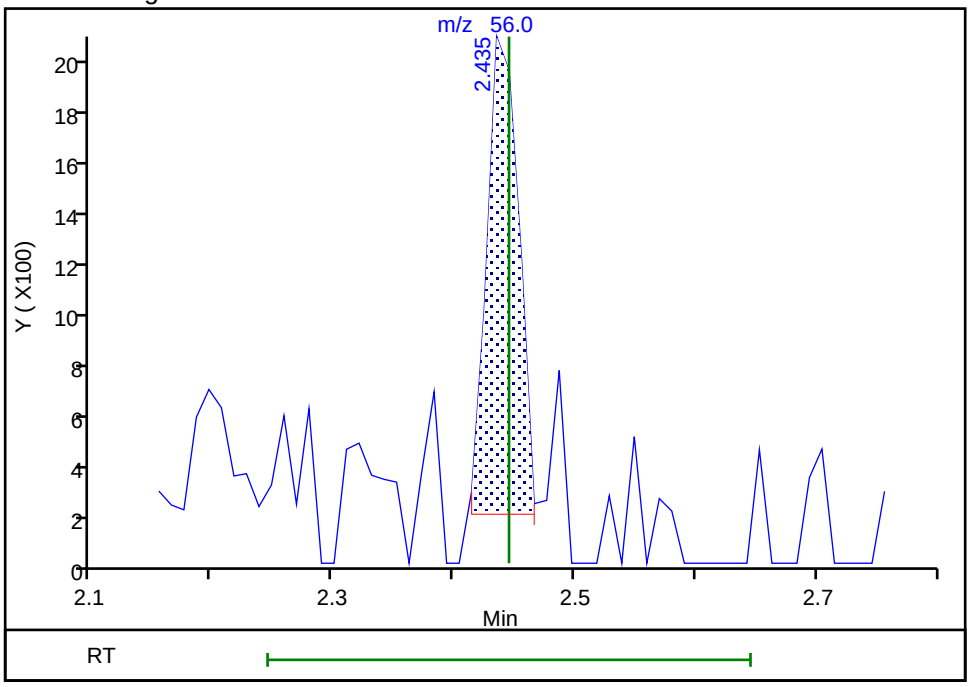
Processing Integration Results

RT: 2.44
Area: 4749
Amount: 2.703877
Amount Units: ug/L



Manual Integration Results

RT: 2.44
Area: 3417
Amount: 1.952144
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:37:36
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

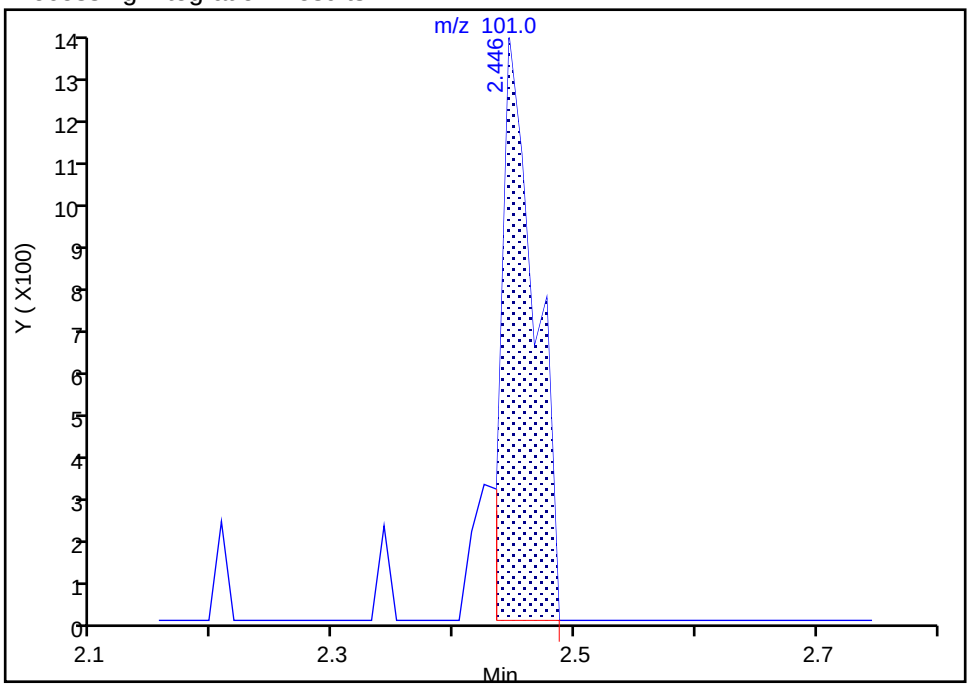
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

21 112TCTFE, CAS: 76-13-1

Signal: 1

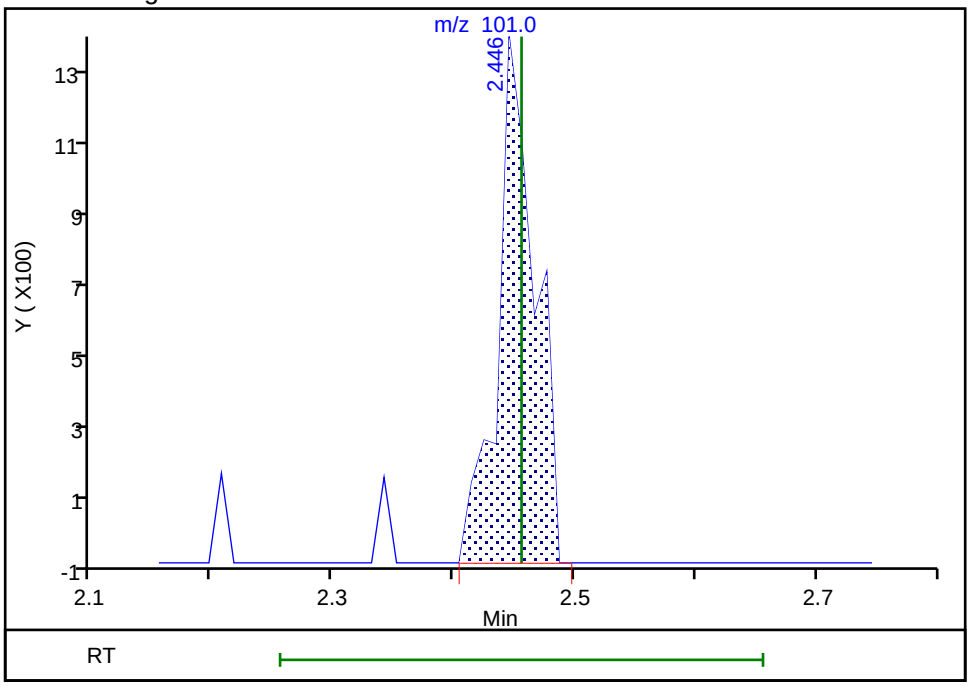
Processing Integration Results

RT: 2.45
Area: 2533
Amount: 0.326384
Amount Units: ug/L



Manual Integration Results

RT: 2.45
Area: 2860
Amount: 0.363730
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:37:51
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

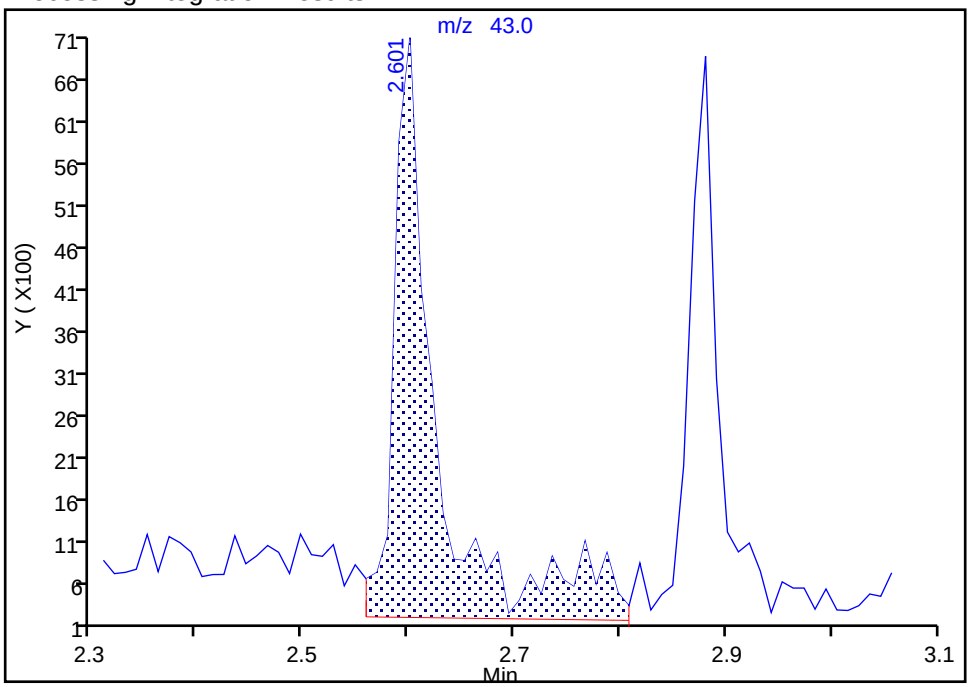
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

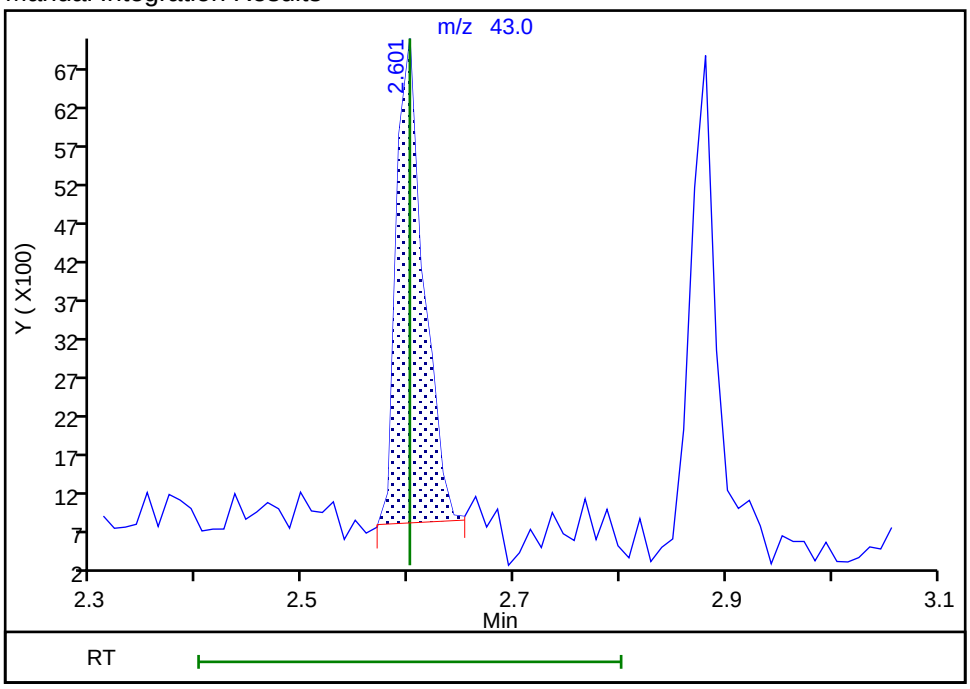
Processing Integration Results

RT: 2.60
Area: 19609
Amount: 3.240450
Amount Units: ug/L



Manual Integration Results

RT: 2.60
Area: 11218
Amount: 1.870904
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:38:01
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

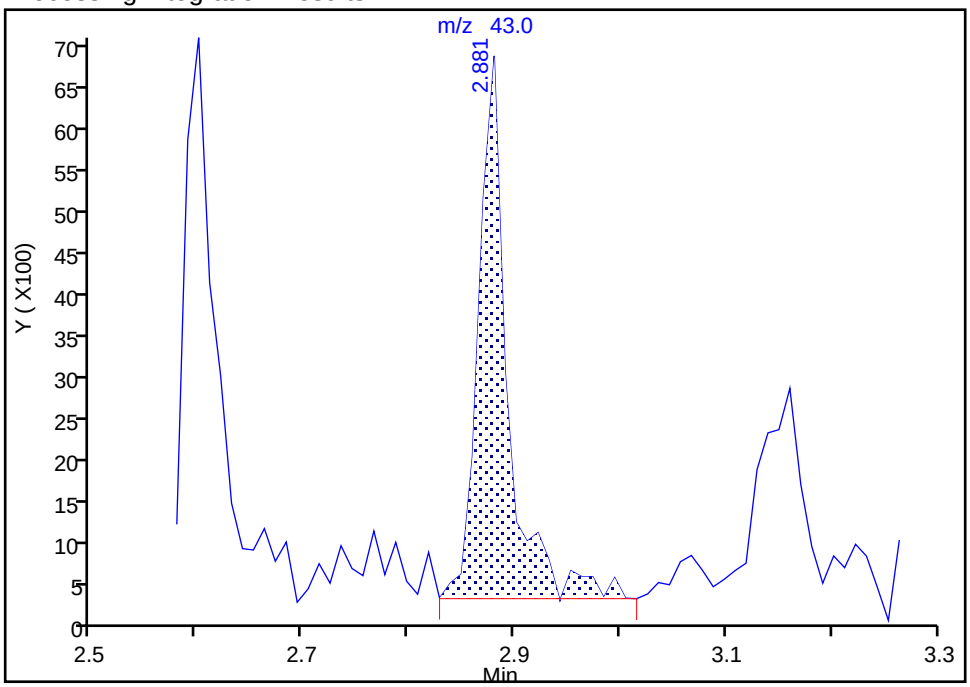
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

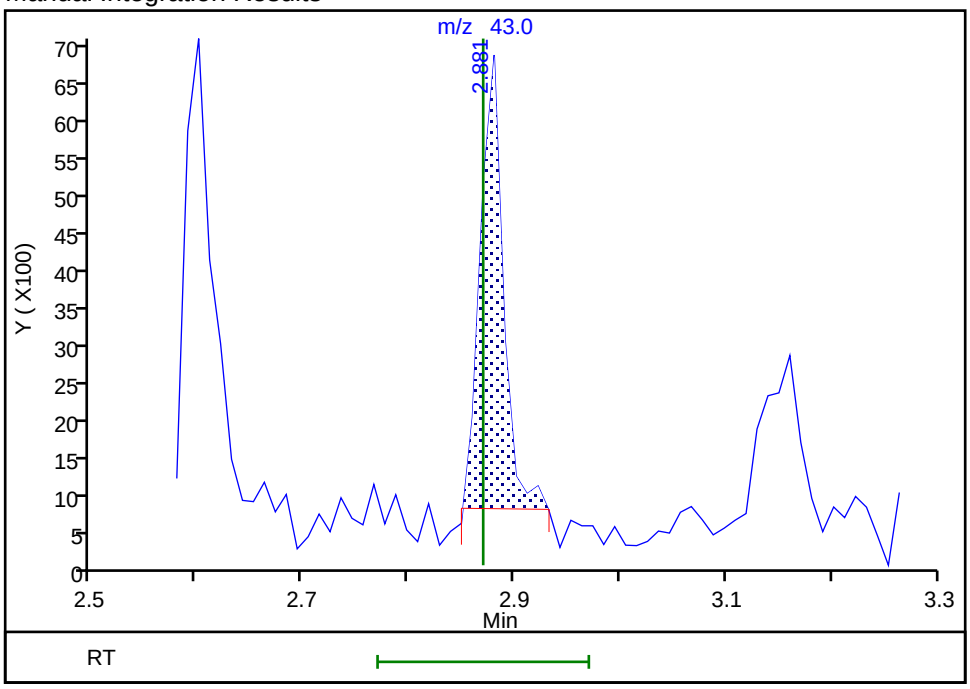
Processing Integration Results

RT: 2.88
Area: 12745
Amount: 1.122584
Amount Units: ug/L



Manual Integration Results

RT: 2.88
Area: 9148
Amount: 0.805034
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:38:28
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

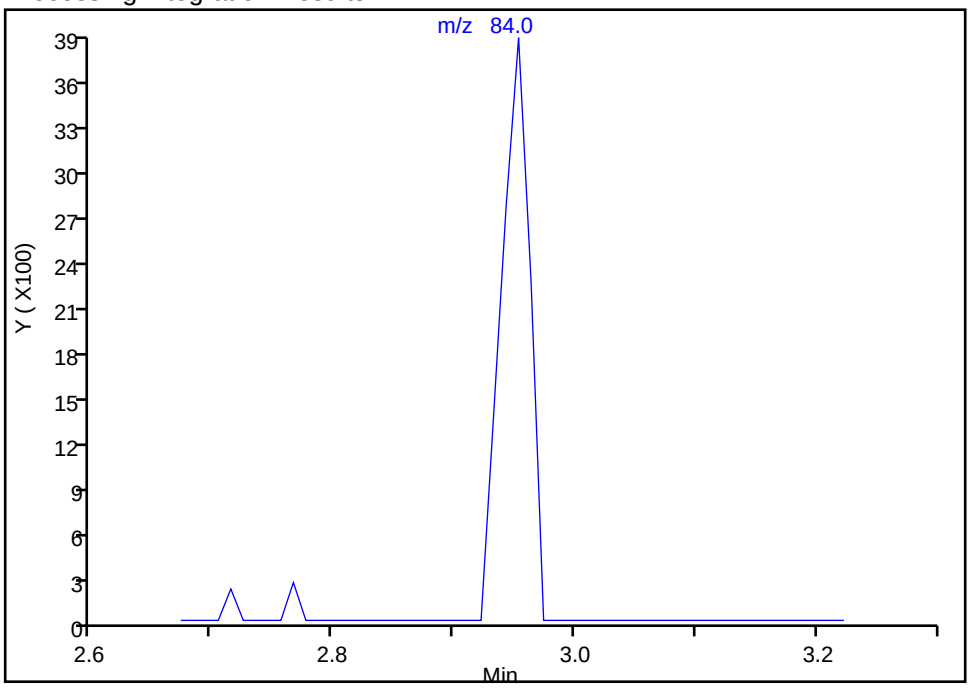
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

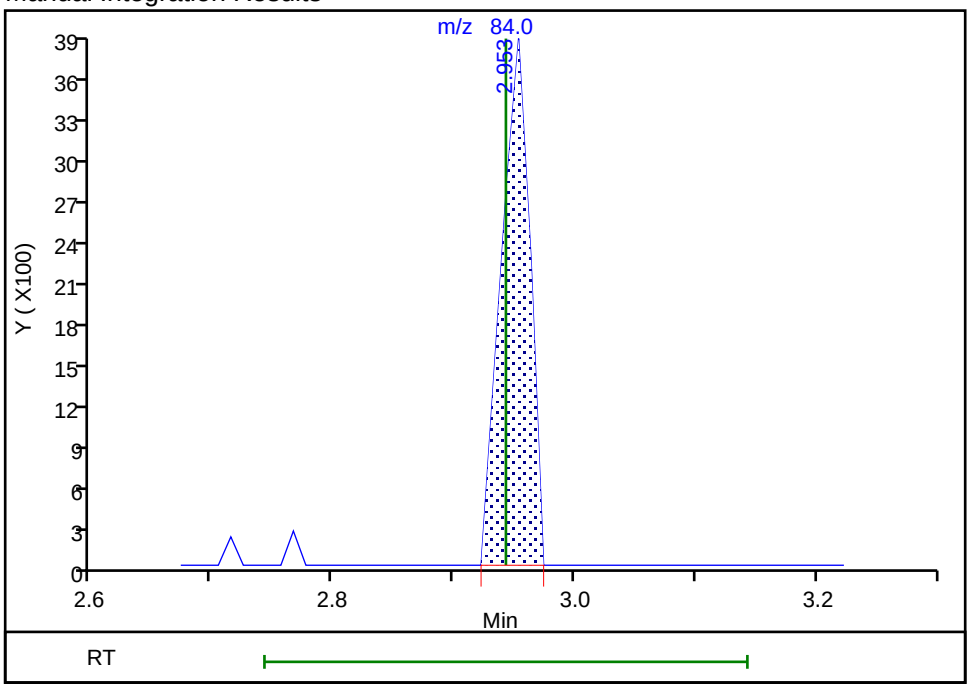
Not Detected
Expected RT: 2.94

Processing Integration Results



Manual Integration Results

RT: 2.95
Area: 6361
Amount: 0.065826
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:27:51
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

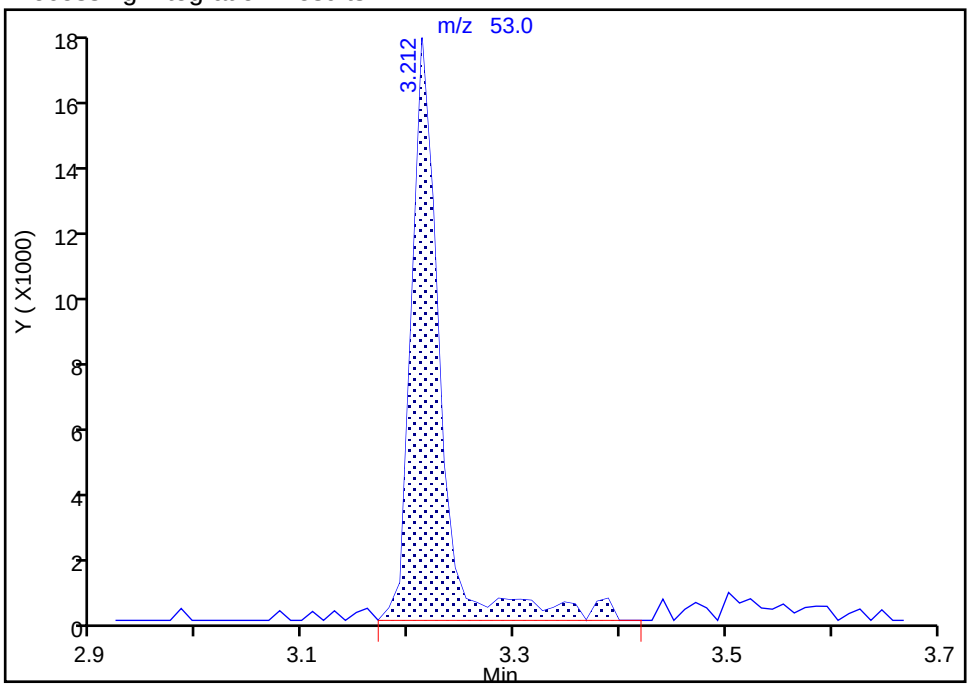
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Signal: 1

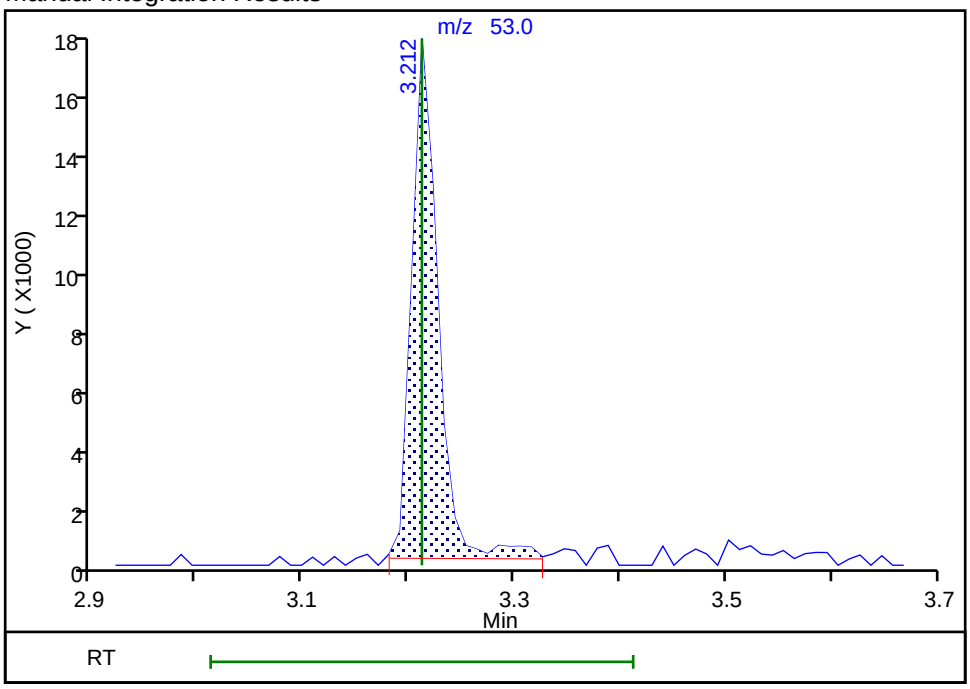
Processing Integration Results

RT: 3.21
Area: 32759
Amount: 5.004104
Amount Units: ug/L



Manual Integration Results

RT: 3.21
Area: 29127
Amount: 4.527799
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:38:50
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

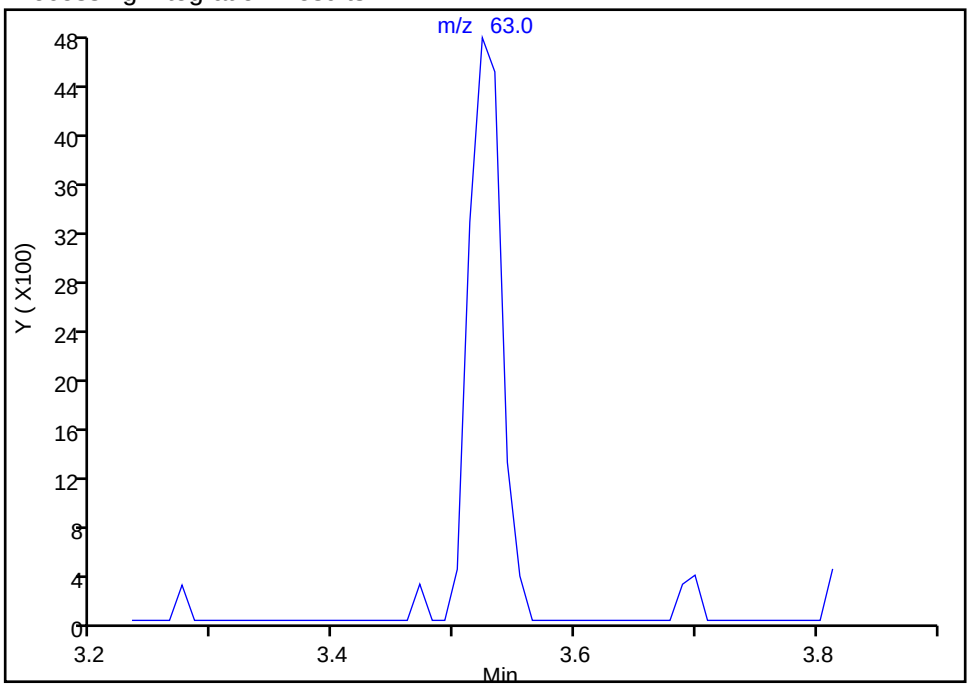
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

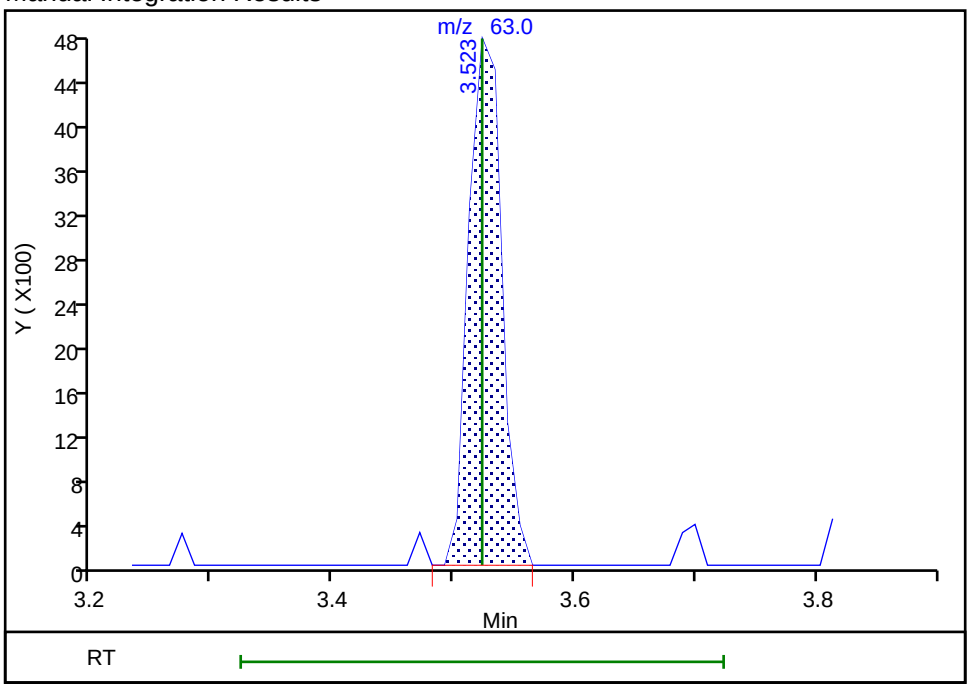
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.52
Area: 9022
Amount: 0.523605
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:27:56
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

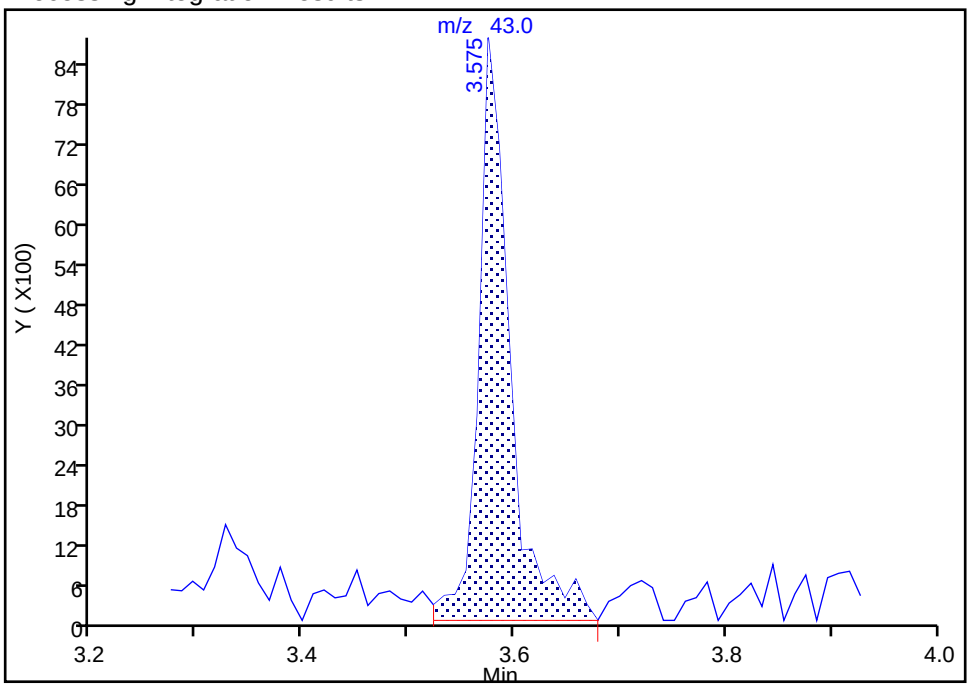
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

37 Vinyl acetate, CAS: 108-05-4

Signal: 1

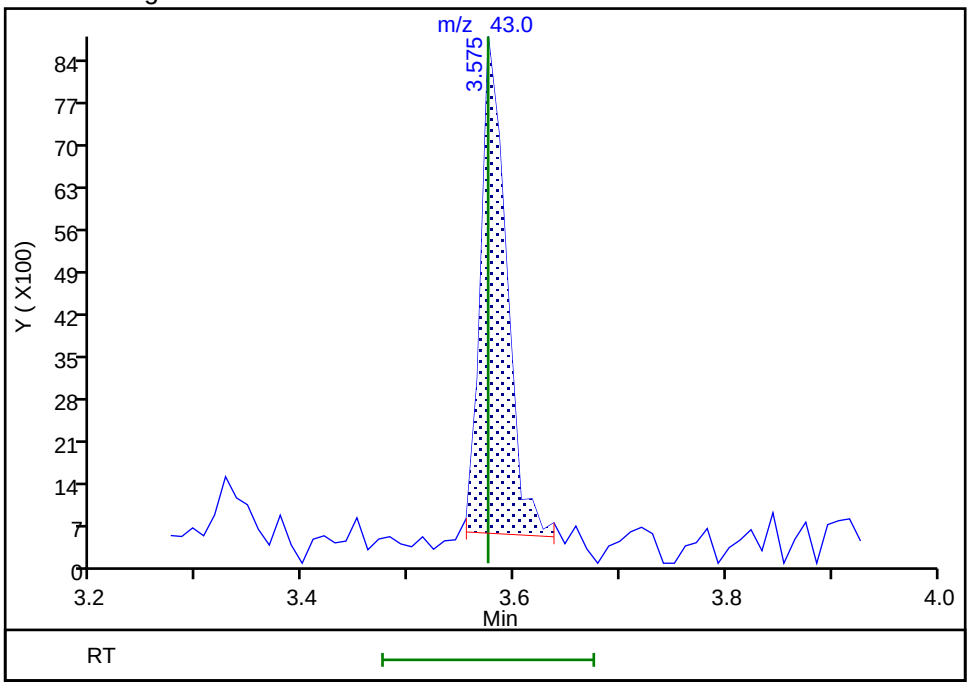
Processing Integration Results

RT: 3.58
Area: 18094
Amount: 1.058129
Amount Units: ug/L



Manual Integration Results

RT: 3.58
Area: 14064
Amount: 0.822456
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:39:30
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

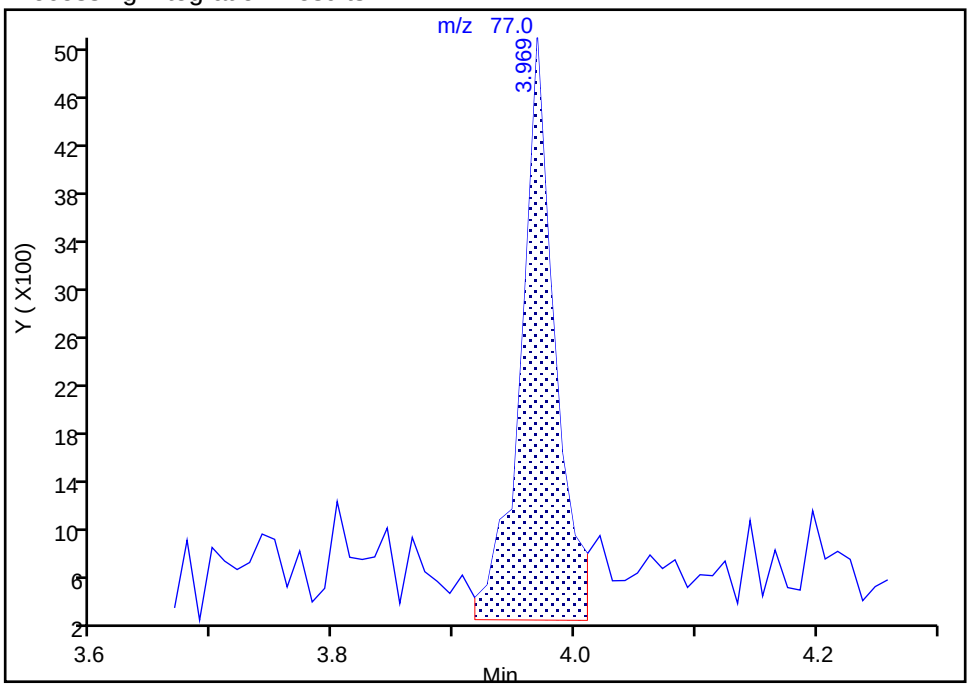
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

44 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

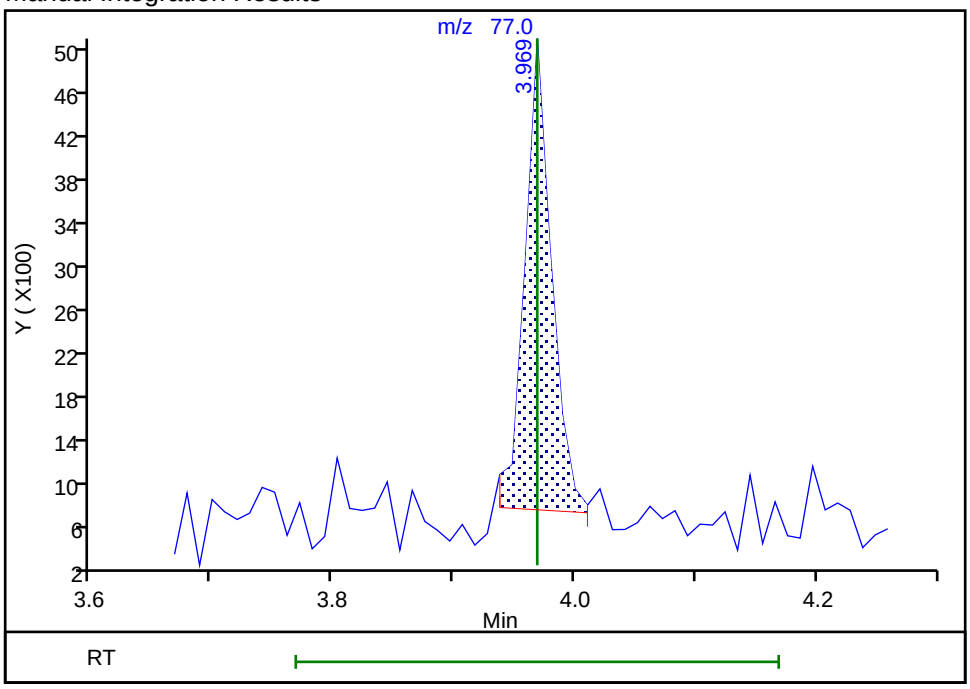
Processing Integration Results

RT: 3.97
Area: 9483
Amount: 0.646718
Amount Units: ug/L



Manual Integration Results

RT: 3.97
Area: 6693
Amount: 0.456447
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:39:41
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

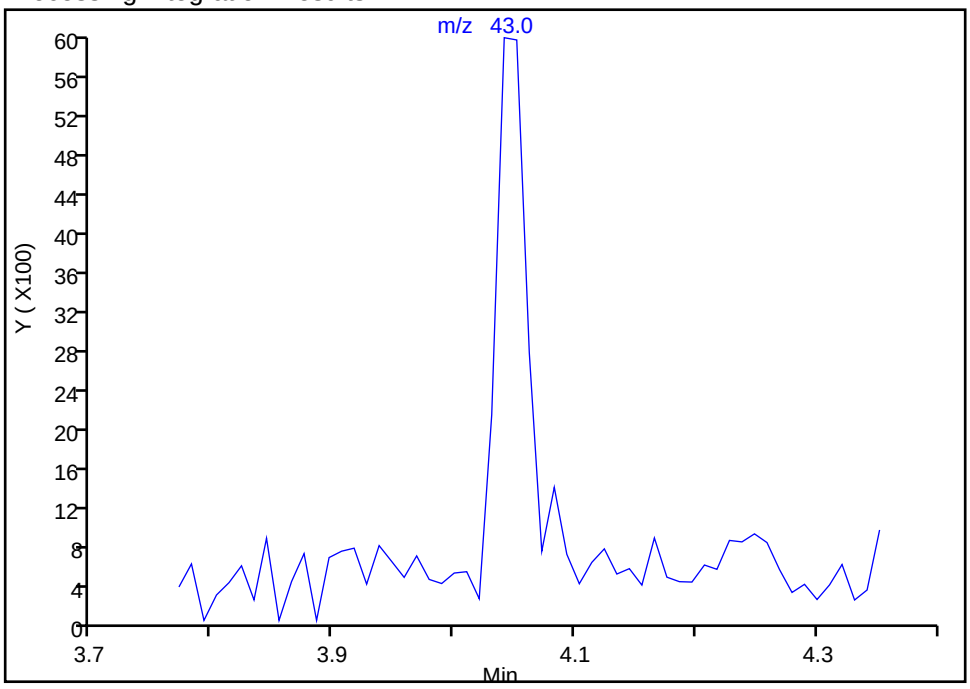
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

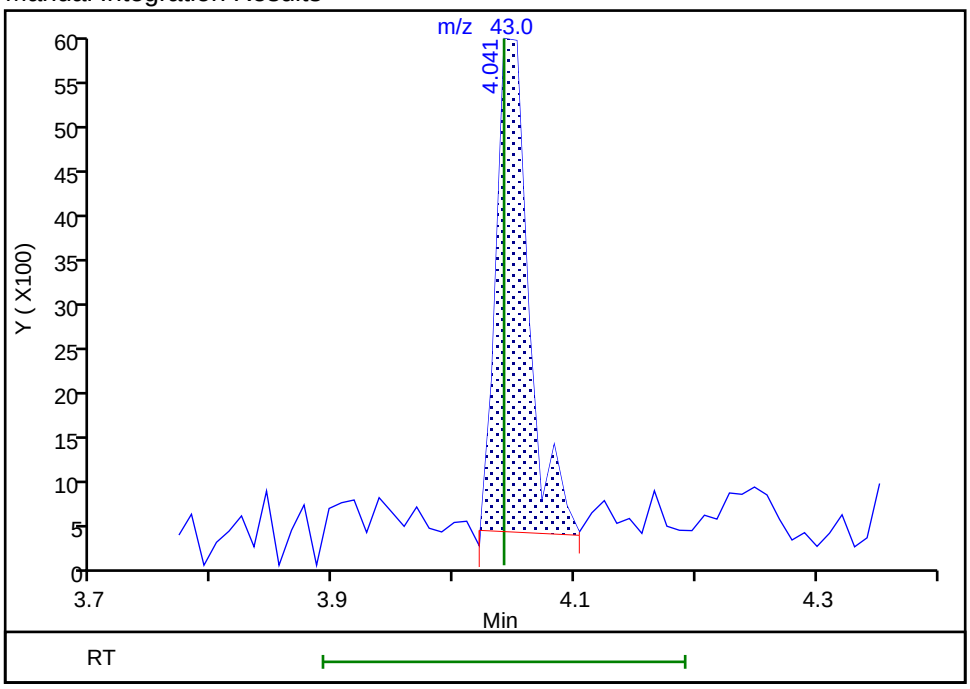
Not Detected
Expected RT: 4.04

Processing Integration Results



Manual Integration Results

RT: 4.04
Area: 10411
Amount: 1.847569
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:39:53
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

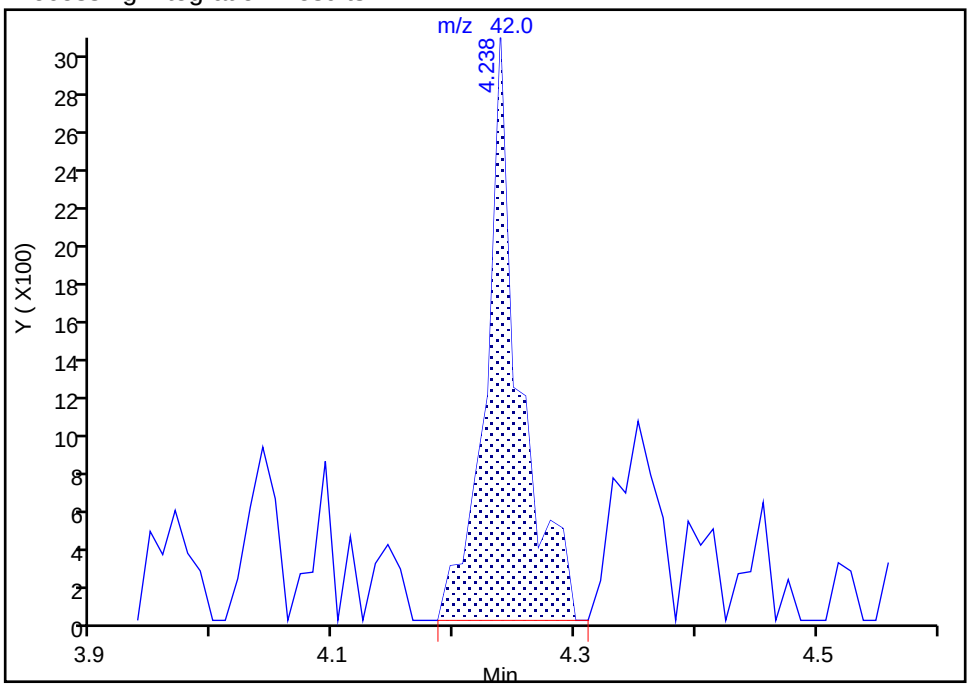
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

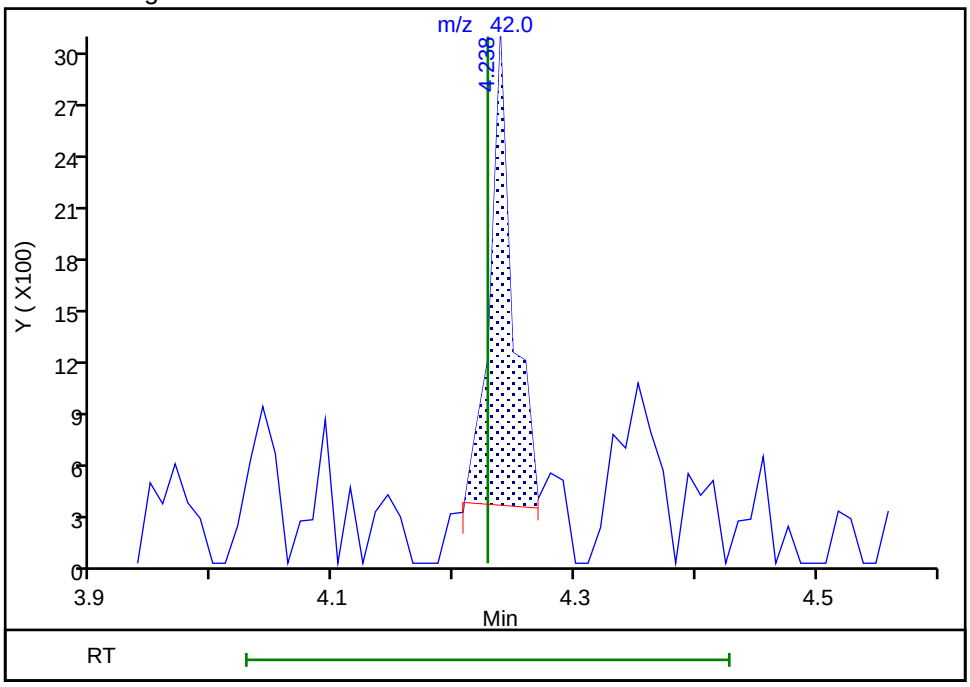
Processing Integration Results

RT: 4.24
Area: 5871
Amount: 1.359876
Amount Units: ug/L



Manual Integration Results

RT: 4.24
Area: 3583
Amount: 0.826054
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:40:08
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

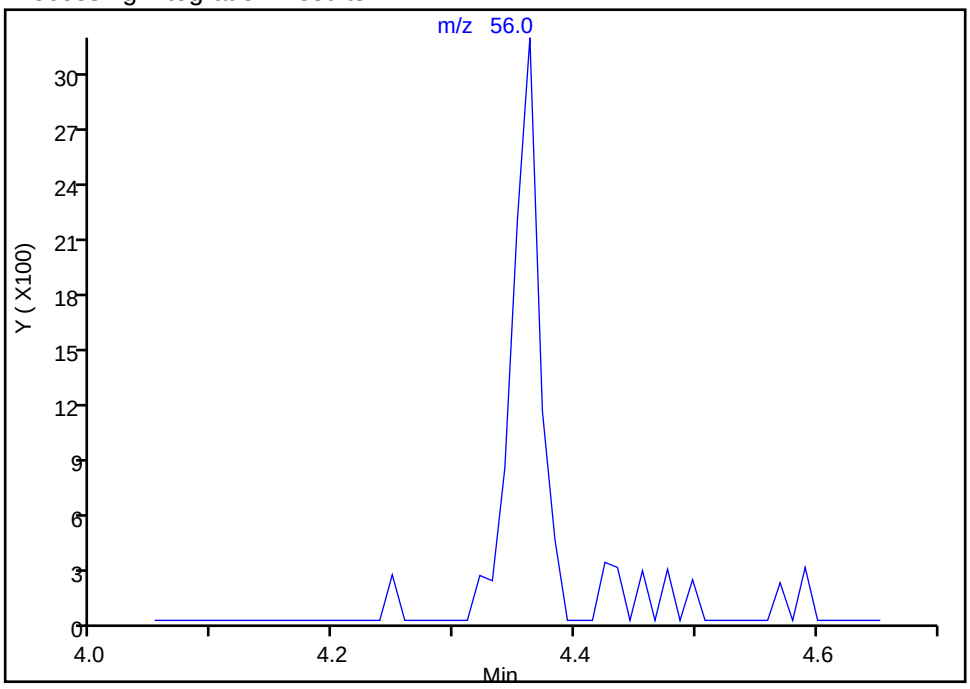
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

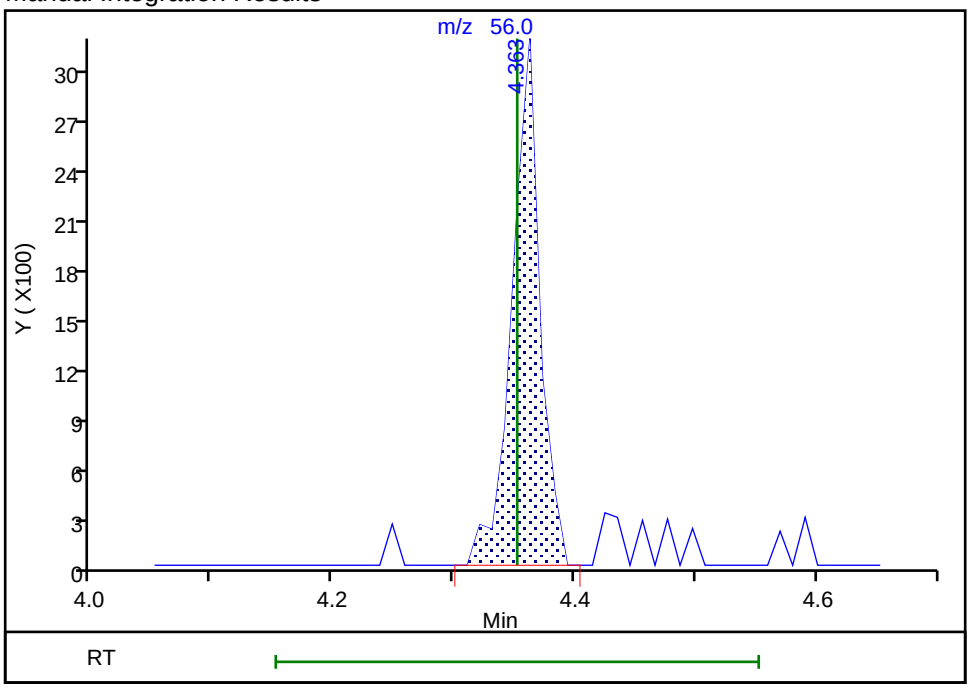
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.36
Area: 5143
Amount: 0.388300
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:28:27
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

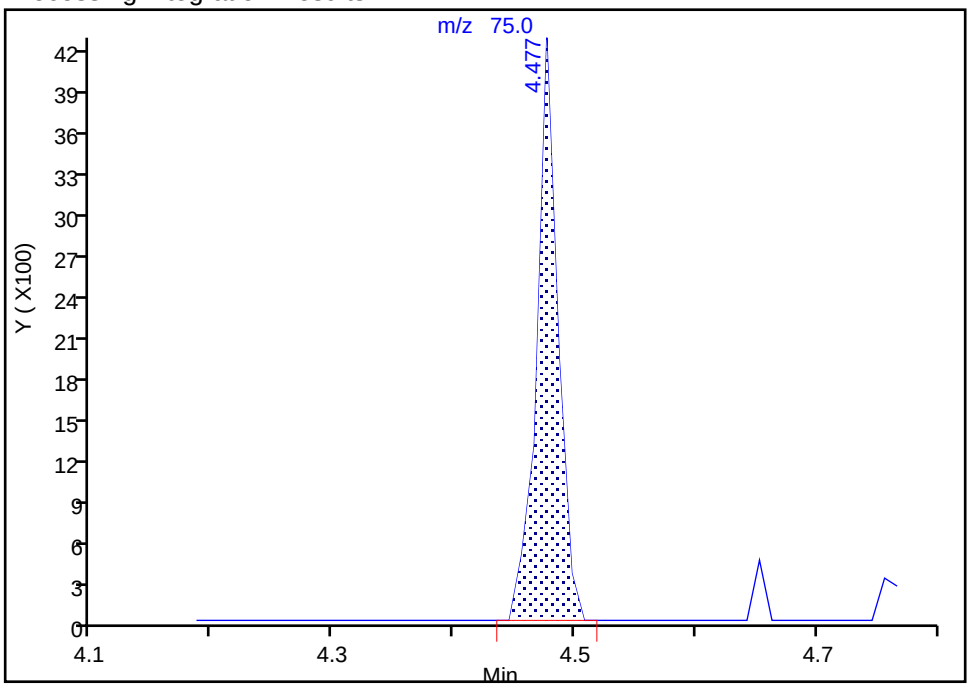
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

54 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

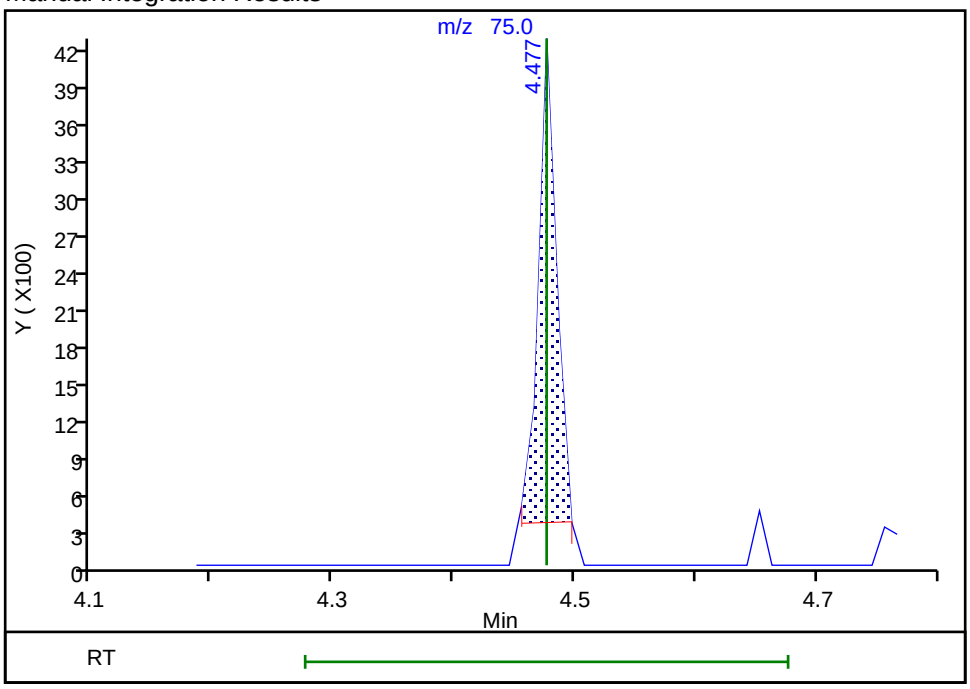
Processing Integration Results

RT: 4.48
Area: 5085
Amount: 0.525192
Amount Units: ug/L



Manual Integration Results

RT: 4.48
Area: 4027
Amount: 0.413860
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:40:29
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

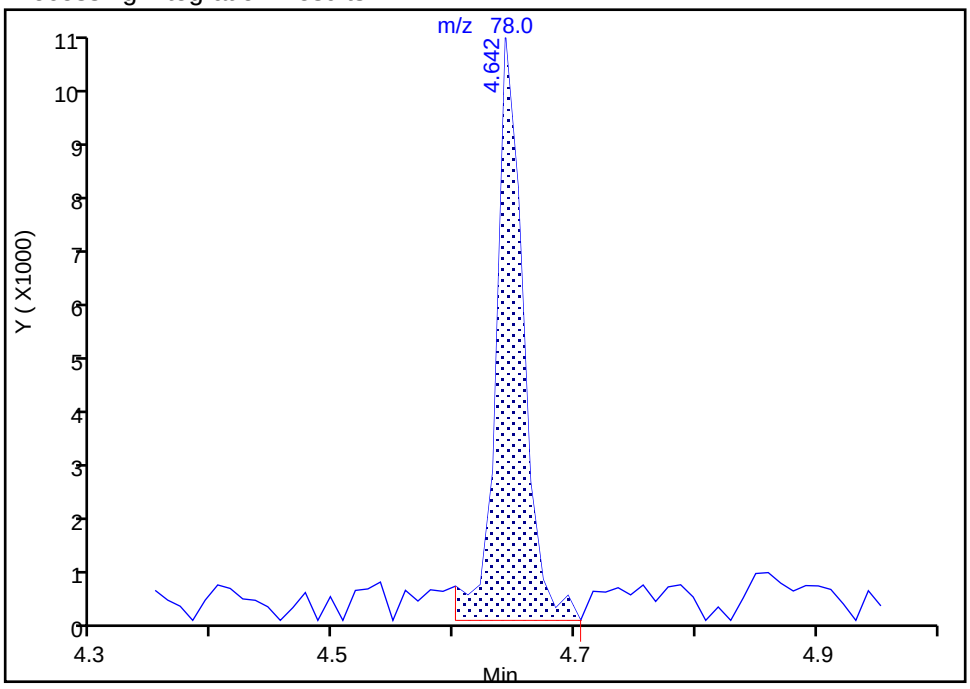
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

57 Benzene, CAS: 71-43-2

Signal: 1

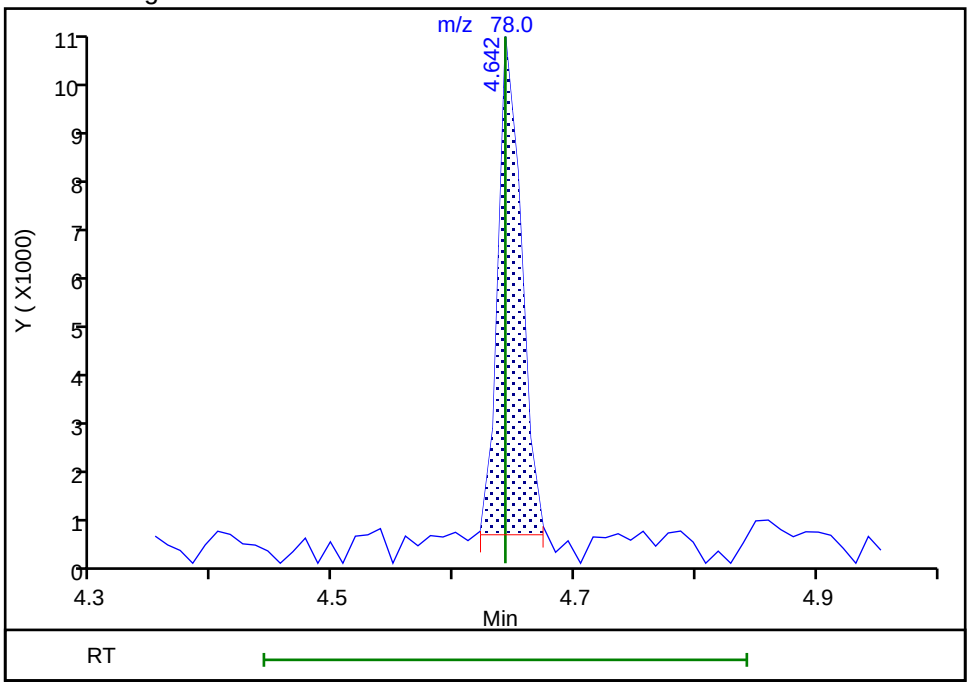
Processing Integration Results

RT: 4.64
Area: 15927
Amount: 0.521869
Amount Units: ug/L



Manual Integration Results

RT: 4.64
Area: 12854
Amount: 0.418409
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:40:43
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

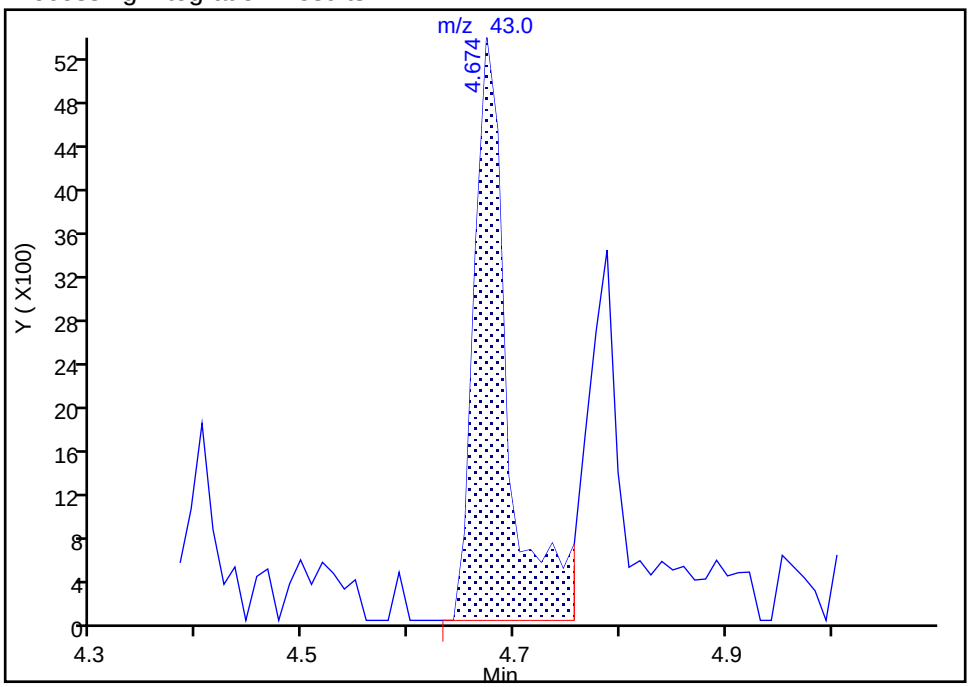
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

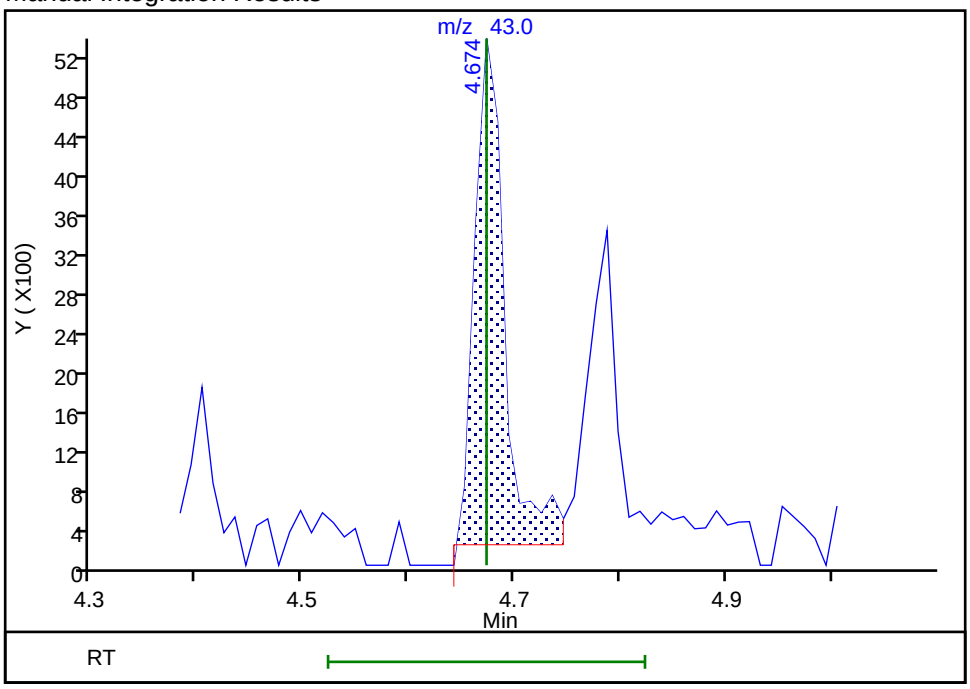
Processing Integration Results

RT: 4.67
Area: 11993
Amount: 13.082552
Amount Units: ug/L



Manual Integration Results

RT: 4.67
Area: 10120
Amount: 10.897803
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:40:55
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

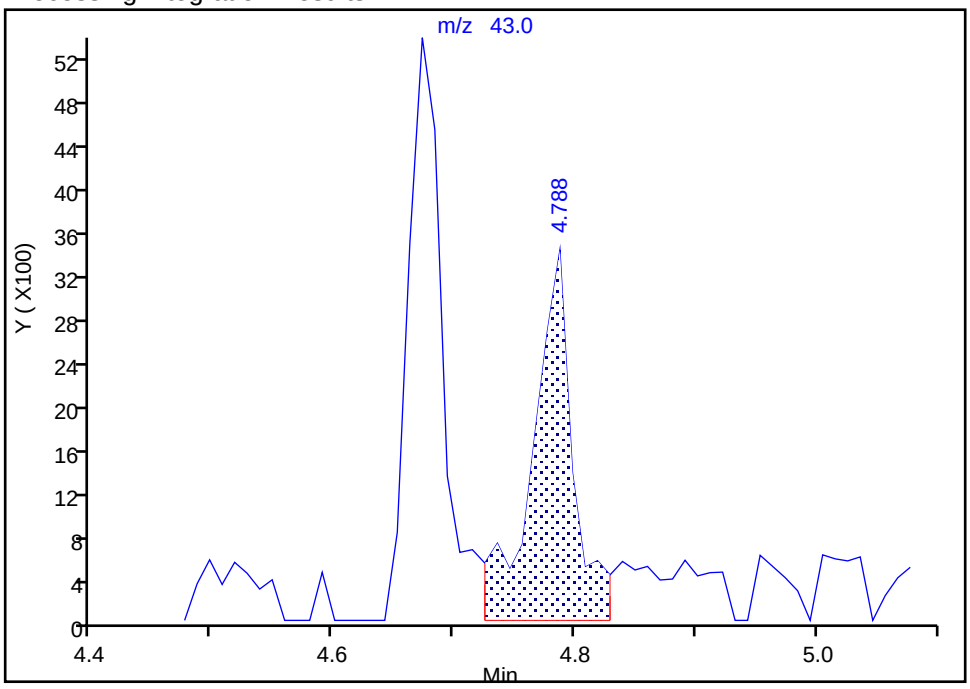
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

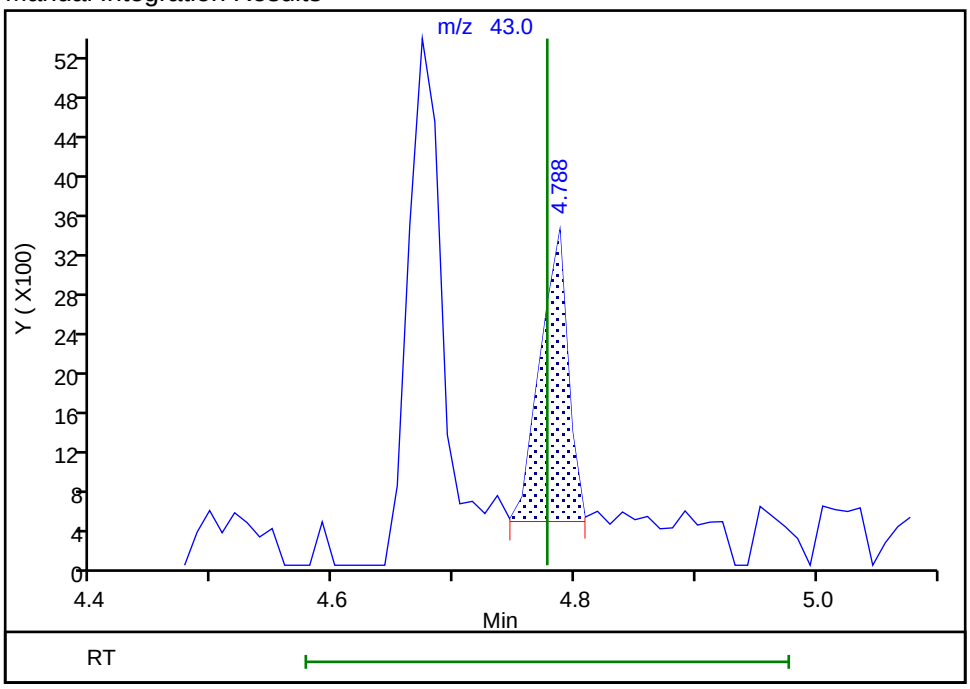
Processing Integration Results

RT: 4.79
Area: 8142
Amount: 0.757636
Amount Units: ug/L



Manual Integration Results

RT: 4.79
Area: 4813
Amount: 0.863916
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:32:51
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

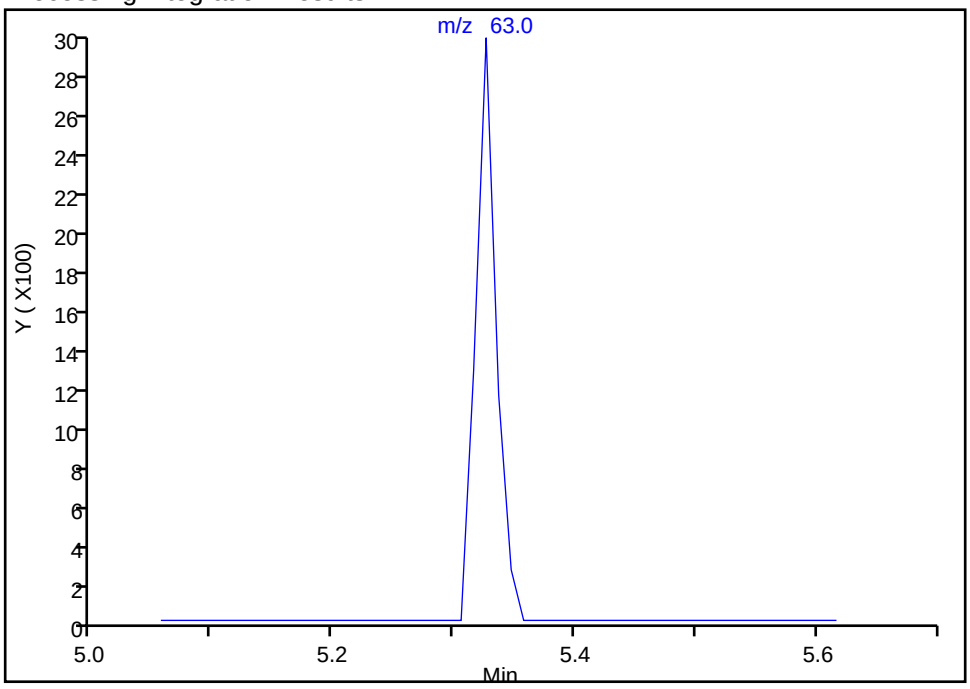
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

65 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

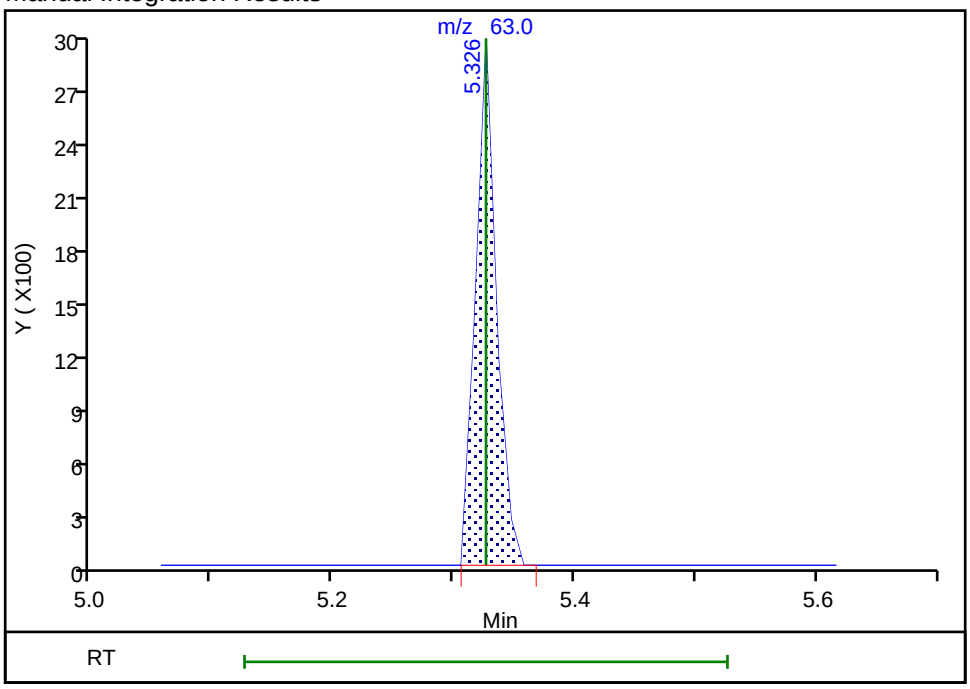
Not Detected
Expected RT: 5.33

Processing Integration Results



Manual Integration Results

RT: 5.33
Area: 3495
Amount: 0.500065
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:28:34
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

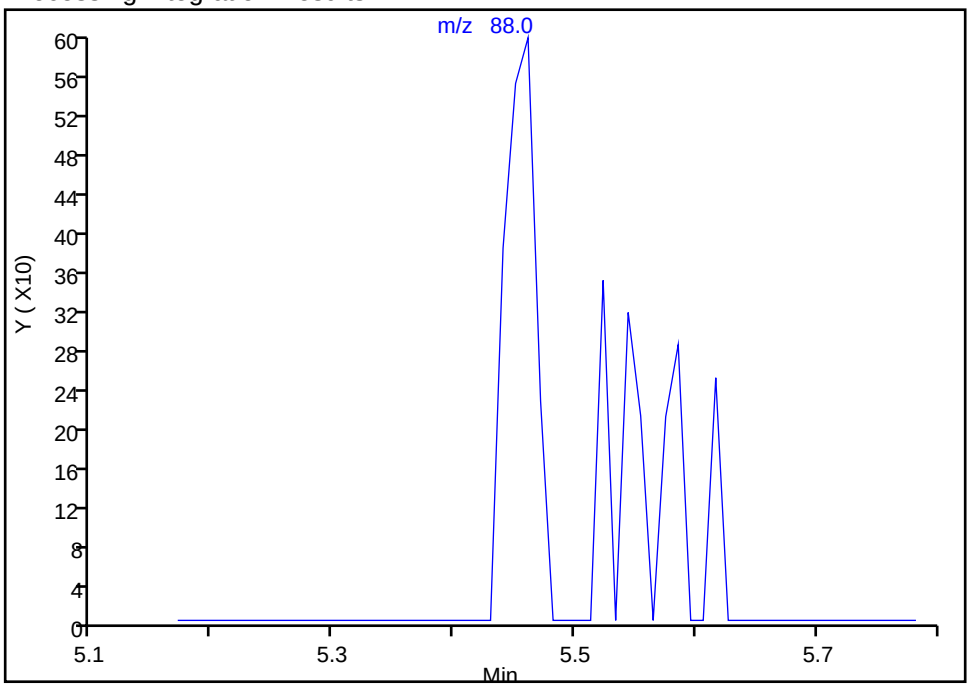
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

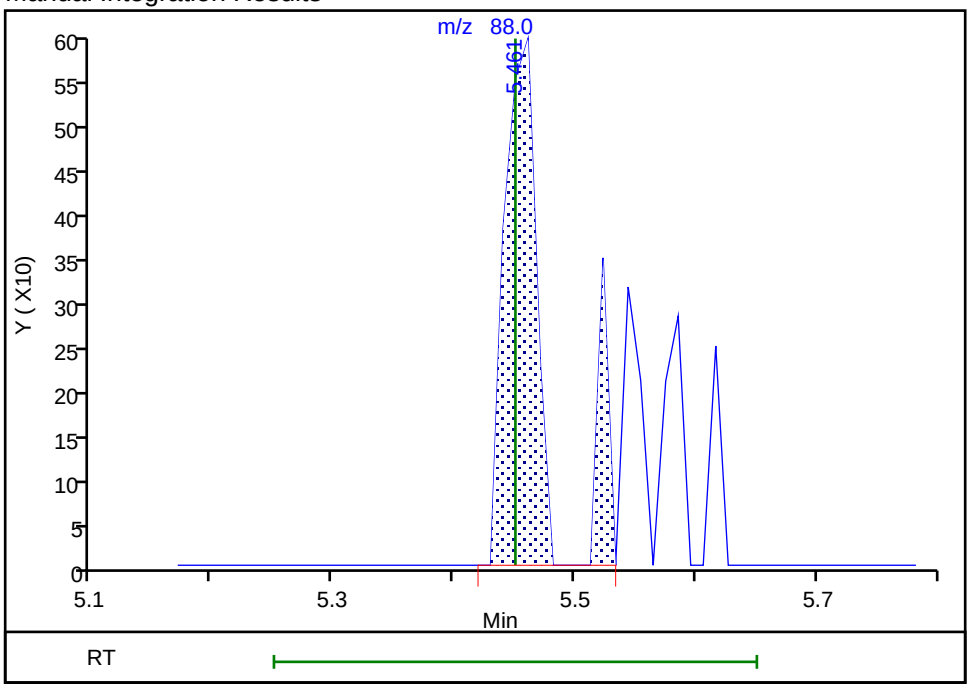
Not Detected
Expected RT: 5.45

Processing Integration Results



Manual Integration Results

RT: 5.46
Area: 1309
Amount: 7.197720
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:28:44
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

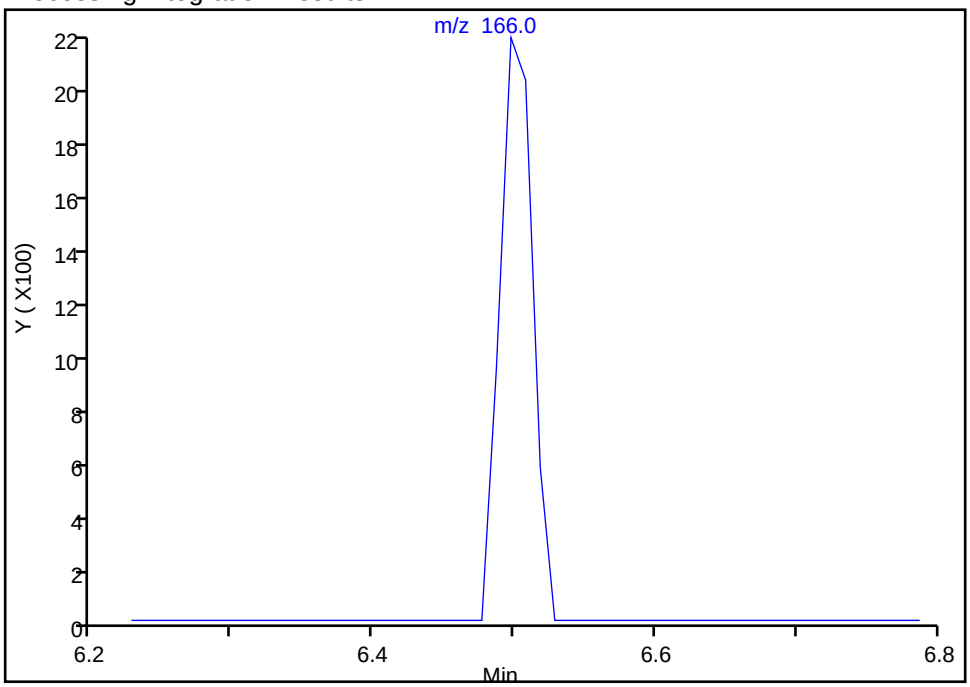
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

81 Tetrachloroethene, CAS: 127-18-4

Signal: 1

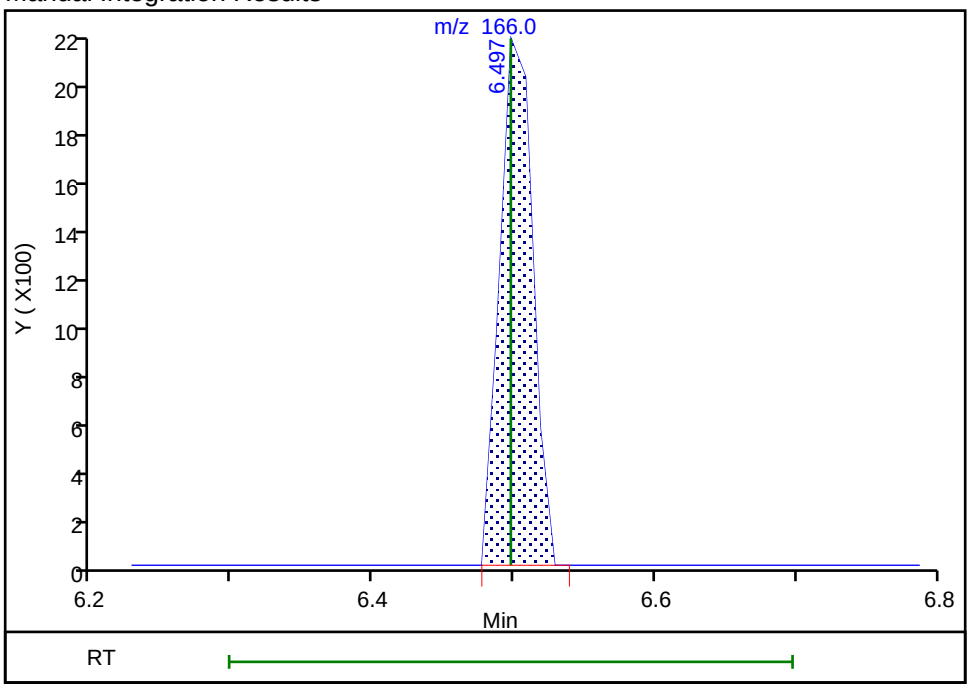
Not Detected
Expected RT: 6.50

Processing Integration Results



Manual Integration Results

RT: 6.50
Area: 3525
Amount: 0.475441
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:29:01
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

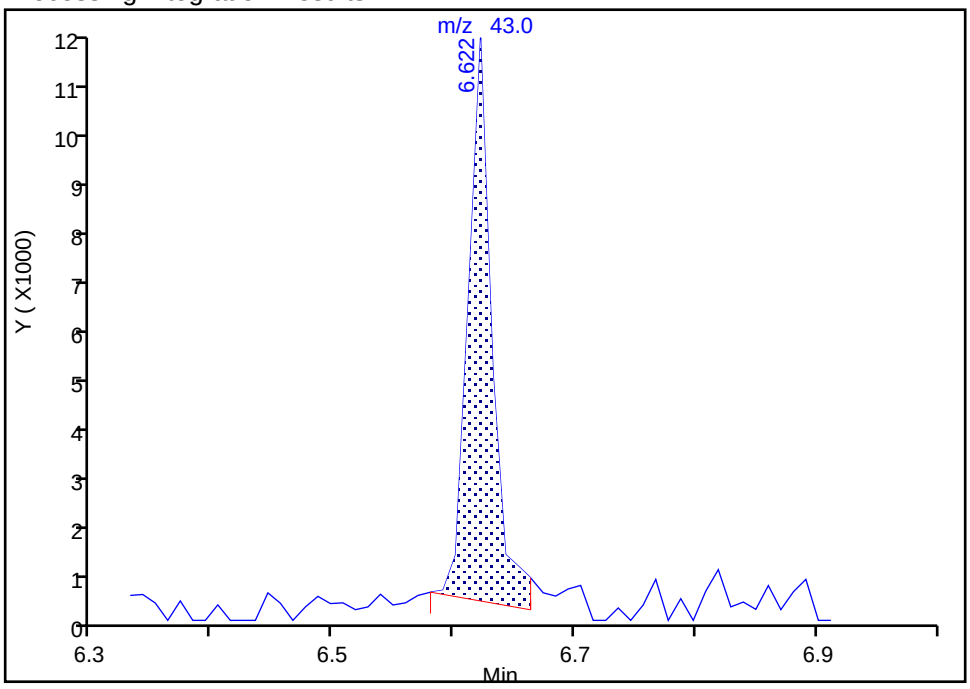
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

80 2-Hexanone, CAS: 591-78-6

Signal: 1

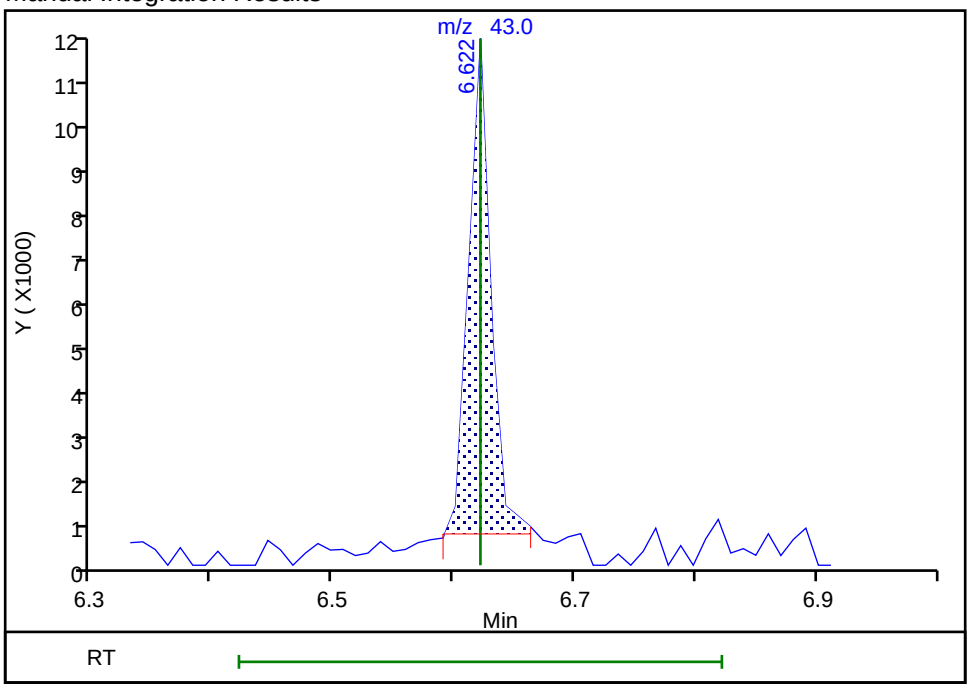
Processing Integration Results

RT: 6.62
Area: 15885
Amount: 2.079836
Amount Units: ug/L



Manual Integration Results

RT: 6.62
Area: 14229
Amount: 1.888608
Amount Units: ug/L



Reviewer: HillL, 07-Dec-2021 12:42:06
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

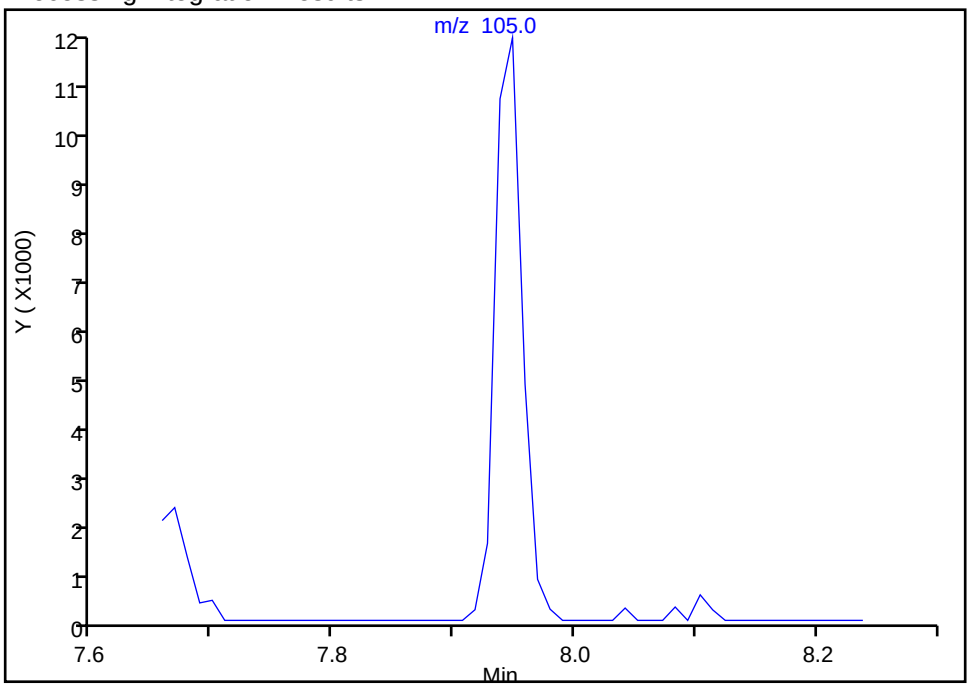
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

94 Isopropylbenzene, CAS: 98-82-8

Signal: 1

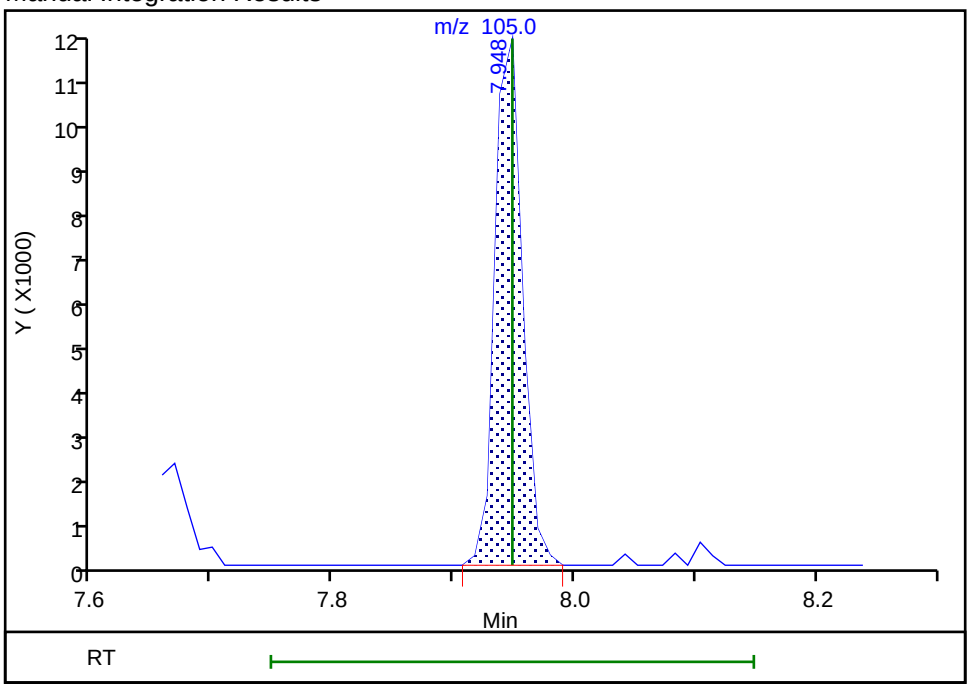
Not Detected
Expected RT: 7.95

Processing Integration Results



Manual Integration Results

RT: 7.95
Area: 17709
Amount: 0.427536
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:30:00
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

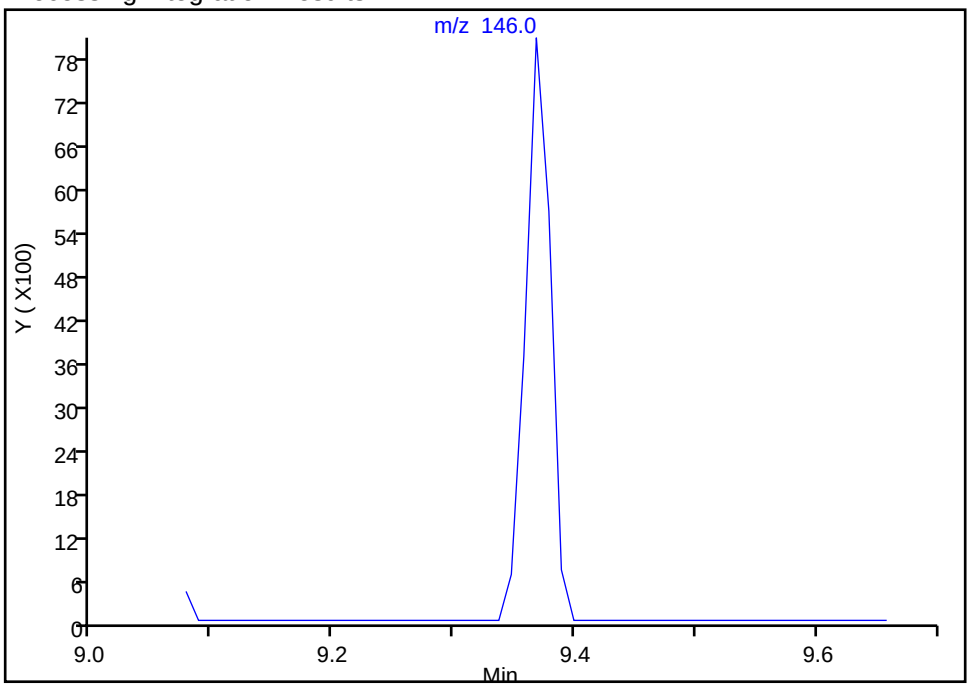
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1015.D
Injection Date: 06-Dec-2021 15:09:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: wd ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

116 1,2-Dichlorobenzene, CAS: 95-50-1

Signal: 1

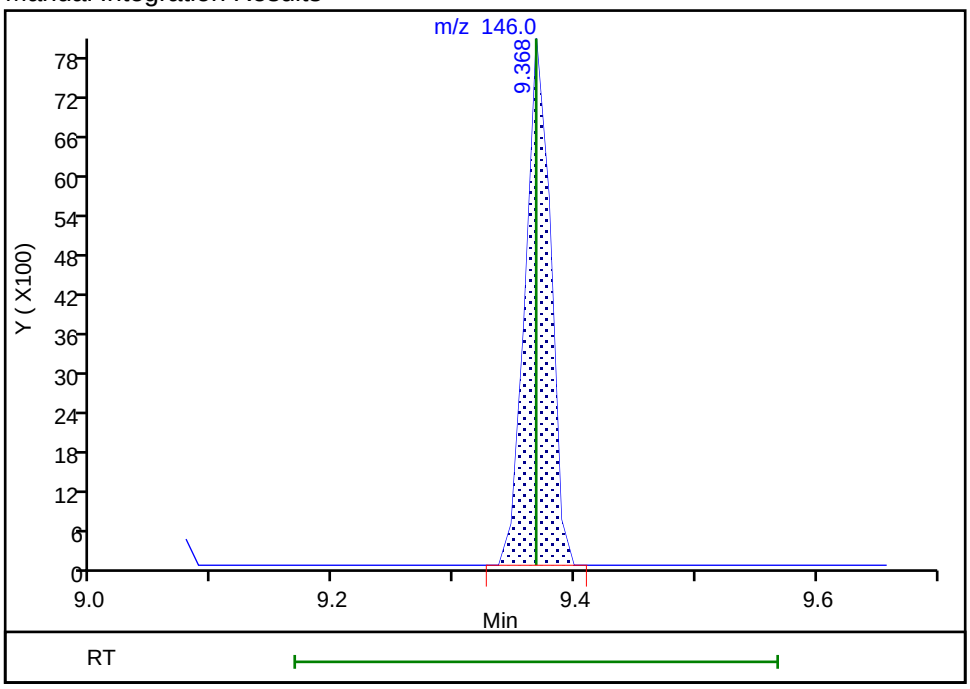
Not Detected
Expected RT: 9.37

Processing Integration Results



Manual Integration Results

RT: 9.37
Area: 11644
Amount: 0.474190
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:30:11
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1016.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-Dec-2021 15:31:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0102880-006
Operator ID: wd Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Dec-2021 14:04:32 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: dahnw Date: 07-Dec-2021 09:31:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	142548	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	268876	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	95	368271	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.394	4.394	0.000	92	251198	25.0	25.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	97	118965	25.0	24.5	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	93	606253	25.0	24.4	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	86	212573	25.0	24.7	
10 Dichlorodifluoromethane	85	1.140	1.140	0.000	95	4674	1.00	0.9534	M
12 Chloromethane	50	1.295	1.295	0.000	94	13512	1.00	1.15	
13 Vinyl chloride	62	1.388	1.388	0.000	93	10651	1.00	1.00	
151 Butadiene	54	1.399	1.409	-0.010	97	8775	1.00	0.9244	
14 Bromomethane	94	1.668	1.668	0.000	96	13021	1.00	0.8916	M
15 Chloroethane	64	1.751	1.751	0.000	42	9296	1.00	0.9588	
17 Trichlorofluoromethane	101	1.969	1.969	0.000	58	11490	1.00	0.8063	
16 Dichlorofluoromethane	67	1.969	1.969	0.000	95	21843	1.00	1.19	
18 Ethyl ether	59	2.280	2.269	0.011	86	10882	1.00	1.27	
20 Acrolein	56	2.445	2.445	0.000	94	10631	5.00	5.87	
21 112TCTFE	101	2.456	2.456	0.000	58	5965	1.00	0.7337	
22 1,1-Dichloroethene	96	2.466	2.466	0.000	95	7721	1.00	0.8686	
23 Acetone	43	2.601	2.601	0.000	96	37125	5.00	5.99	
25 Iodomethane	142	2.611	2.611	0.000	99	21667	1.00	1.08	
26 Carbon disulfide	76	2.642	2.642	0.000	98	37313	1.00	1.16	
28 3-Chloro-1-propene	41	2.808	2.818	-0.010	85	20151	1.00	1.22	
27 Methyl acetate	43	2.870	2.870	0.000	97	27655	2.00	2.35	
30 Methylene Chloride	84	2.953	2.943	0.010	92	15931	1.00	0.9481	
31 2-Methyl-2-propanol	59	3.140	3.140	0.000	86	33681	10.0	10.3	
34 trans-1,2-Dichloroethene	96	3.161	3.150	0.011	66	12538	1.00	1.14	
32 Methyl tert-butyl ether	73	3.161	3.150	0.011	97	39950	1.00	1.17	
33 Acrylonitrile	53	3.212	3.212	0.000	99	68819	10.0	10.3	
35 Hexane	57	3.326	3.326	0.000	69	5055	1.00	1.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.523	3.523	0.000	96	20538	1.00	1.15	
37 Vinyl acetate	43	3.575	3.575	0.000	97	38921	2.00	2.20	
44 2,2-Dichloropropane	77	3.969	3.969	0.000	90	19164	1.00	1.26	
45 cis-1,2-Dichloroethene	96	4.000	4.000	0.000	81	13577	1.00	1.11	
43 2-Butanone (MEK)	43	4.041	4.041	0.000	98	33155	5.00	5.69	M
48 Chlorobromomethane	128	4.197	4.197	0.000	90	8216	1.00	1.20	
49 Tetrahydrofuran	42	4.238	4.228	0.010	80	8700	2.00	1.94	
50 Chloroform	83	4.259	4.259	0.000	96	20874	1.00	1.13	
51 1,1,1-Trichloroethane	97	4.352	4.352	0.000	94	18018	1.00	1.15	
52 Cyclohexane	56	4.363	4.352	0.011	70	10316	1.00	0.7533	
55 Carbon tetrachloride	117	4.466	4.466	0.000	85	12765	1.00	0.9857	
54 1,1-Dichloropropene	75	4.477	4.477	0.000	89	10617	1.00	1.06	
57 Benzene	78	4.642	4.642	0.000	47	36848	1.00	1.16	
53 Isobutyl alcohol	43	4.674	4.673	0.001	94	26606	25.0	27.7	
58 1,2-Dichloroethane	62	4.705	4.705	0.001	51	16607	1.00	1.25	M
59 n-Heptane	43	4.777	4.777	0.000	73	5316	1.00	0.8959	M
62 Trichloroethene	95	5.130	5.129	0.001	93	9167	1.00	1.13	
64 Methylcyclohexane	83	5.223	5.223	0.000	83	8800	1.00	1.03	
65 1,2-Dichloropropane	63	5.326	5.326	0.000	90	8467	1.00	1.17	
67 Dibromomethane	93	5.440	5.430	0.010	93	7623	1.00	1.22	
66 1,4-Dioxane	88	5.461	5.451	0.010	27	3482	20.0	18.4	Ma
68 Dichlorobromomethane	83	5.544	5.554	-0.010	98	11888	1.00	1.16	
69 2-Chloroethyl vinyl ether	63	5.762	5.762	0.000	91	4010	1.00	1.04	
72 cis-1,3-Dichloropropene	75	5.865	5.876	-0.011	88	10529	1.00	1.10	
73 4-Methyl-2-pentanone (MIBK)	43	5.990	5.979	0.011	97	72035	5.00	5.23	
74 Toluene	92	6.093	6.093	0.000	97	18677	1.00	1.08	
77 trans-1,3-Dichloropropene	75	6.301	6.300	0.001	70	8787	1.00	1.01	
75 Ethyl methacrylate	69	6.332	6.332	0.000	89	10626	1.00	1.09	
79 1,1,2-Trichloroethane	83	6.446	6.446	0.000	94	6600	1.00	1.18	
81 Tetrachloroethene	166	6.497	6.497	0.000	94	7331	1.00	0.9506	
82 1,3-Dichloropropane	76	6.570	6.570	0.000	93	10783	1.00	1.04	
80 2-Hexanone	43	6.622	6.622	0.000	98	42170	5.00	5.38	
83 Chlorodibromomethane	129	6.757	6.756	0.001	85	7967	1.00	1.04	
84 Ethylene Dibromide	107	6.839	6.839	0.000	98	8660	1.00	1.16	
87 Chlorobenzene	112	7.192	7.192	0.000	96	24484	1.00	1.11	
88 Ethylbenzene	91	7.254	7.254	0.000	98	37294	1.00	1.02	
89 1,1,1,2-Tetrachloroethane	131	7.264	7.264	0.000	90	11927	1.00	1.15	
90 m-Xylene & p-Xylene	106	7.347	7.347	0.000	96	15321	1.00	1.08	
91 o-Xylene	106	7.668	7.658	0.010	96	17120	1.00	1.08	
92 Styrene	104	7.689	7.679	0.010	96	23723	1.00	1.06	
95 Bromoform	173	7.876	7.876	0.000	88	5032	1.00	0.8917	
94 Isopropylbenzene	105	7.948	7.948	0.000	96	42082	1.00	0.9739	
101 Bromobenzene	156	8.228	8.228	0.000	92	12927	1.00	1.21	
97 1,1,2,2-Tetrachloroethane	83	8.249	8.249	0.000	93	17190	1.00	1.17	
99 N-Propylbenzene	91	8.280	8.280	0.000	99	49096	1.00	0.99	
100 1,2,3-Trichloropropane	110	8.290	8.290	0.000	89	5588	1.00	1.10	
98 trans-1,4-Dichloro-2-butene	53	8.280	8.290	-0.010	65	2851	1.00	0.8848	
103 2-Chlorotoluene	126	8.363	8.363	0.000	97	11204	1.00	0.99	
102 1,3,5-Trimethylbenzene	105	8.415	8.414	0.001	95	37523	1.00	1.00	
105 4-Chlorotoluene	126	8.456	8.456	0.000	97	9861	1.00	0.9302	
106 tert-Butylbenzene	134	8.684	8.684	0.000	92	5861	1.00	0.8106	
107 1,2,4-Trimethylbenzene	105	8.725	8.725	0.000	98	40865	1.00	1.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.850	8.860	-0.010	95	36898	1.00	0.8135	
110 4-Isopropyltoluene	119	8.974	8.974	0.000	96	37007	1.00	0.8748	
111 1,3-Dichlorobenzene	146	8.985	8.984	0.001	96	27240	1.00	1.15	
113 1,4-Dichlorobenzene	146	9.057	9.057	0.000	90	23819	1.00	1.02	
115 n-Butylbenzene	91	9.306	9.306	0.000	98	36114	1.00	0.9029	
116 1,2-Dichlorobenzene	146	9.368	9.368	0.000	96	27265	1.00	1.06	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.041	0.001	71	5959	1.00	1.20	
119 1,2,4-Trichlorobenzene	180	10.684	10.684	0.000	91	23008	1.00	1.09	
120 Hexachlorobutadiene	225	10.788	10.798	-0.010	92	6610	1.00	0.8071	
121 Naphthalene	128	10.902	10.902	0.000	96	76698	1.00	1.06	
122 1,2,3-Trichlorobenzene	180	11.088	11.088	0.000	92	22747	1.00	1.09	
S 126 1,3-Dichloropropene, Total	1				0			2.11	
S 125 1,2-Dichloroethene, Total	1				0			2.25	
S 123 Total BTEX	1				0			5.42	
S 124 Xylenes, Total	1				0			2.16	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00218	Amount Added:	1.00	Units: uL	
GAS CORP mix_00484	Amount Added:	1.00	Units: uL	
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent

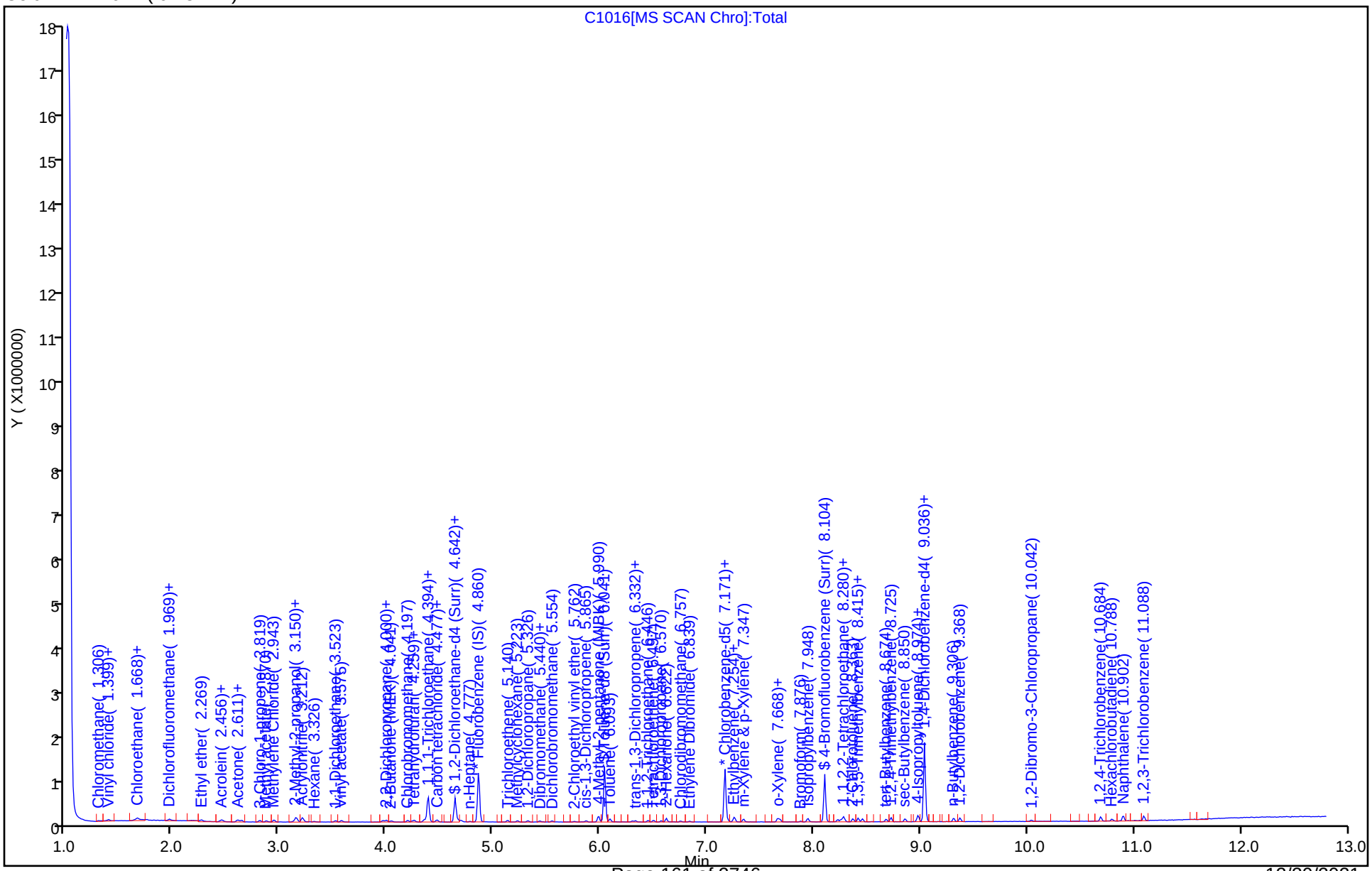
Report Date: 07-Dec-2021 14:04:34 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1016.D

Injection Date:	06-Dec-2021 15:31:30	Instrument ID:	HP5973C	Operator ID:	wd
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

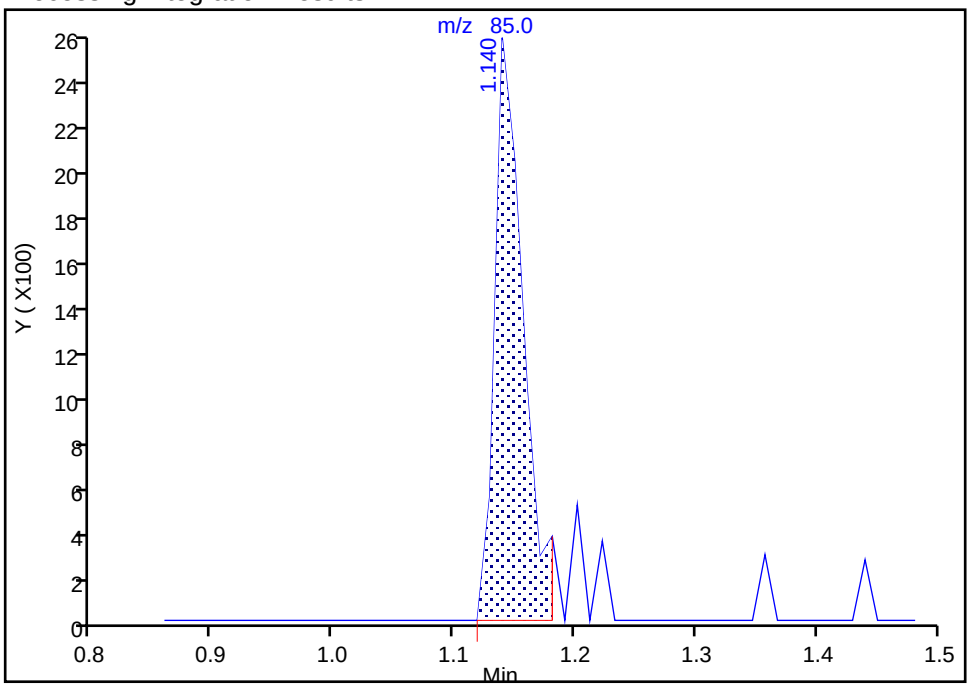
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1016.D
Injection Date: 06-Dec-2021 15:31:30 Instrument ID: HP5973C
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

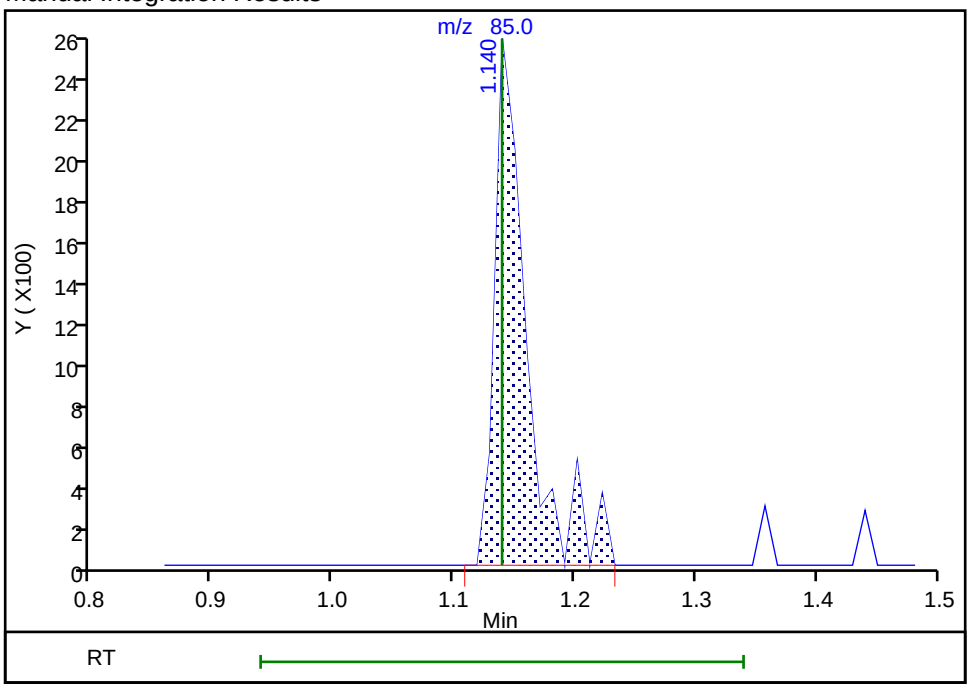
Processing Integration Results

RT: 1.14
Area: 4150
Amount: 0.453816
Amount Units: ug/L



Manual Integration Results

RT: 1.14
Area: 4674
Amount: 0.953393
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:39:25
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

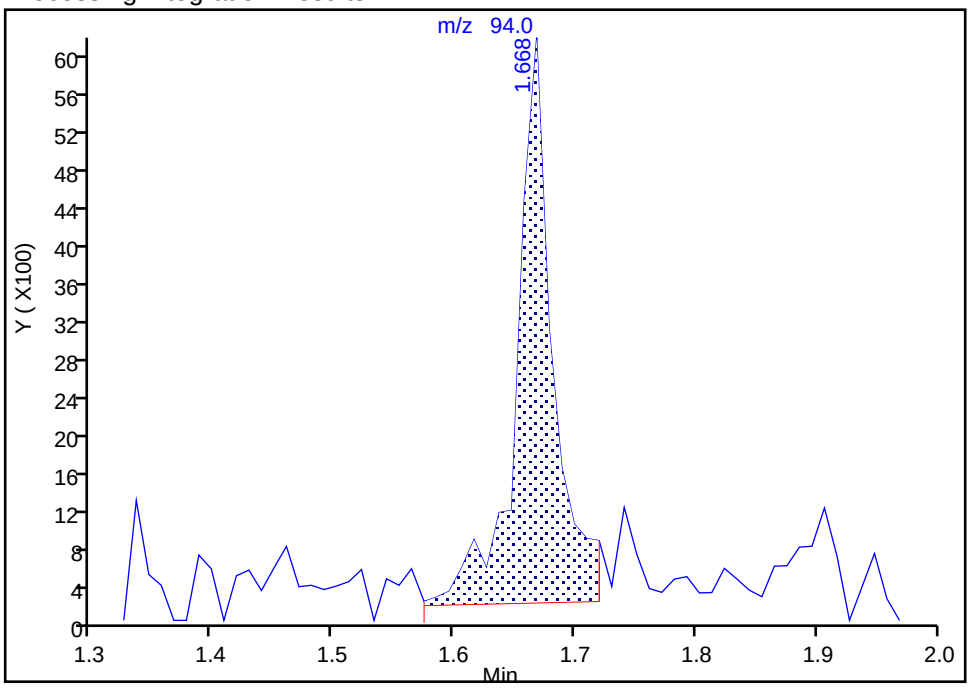
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1016.D
Injection Date: 06-Dec-2021 15:31:30 Instrument ID: HP5973C
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

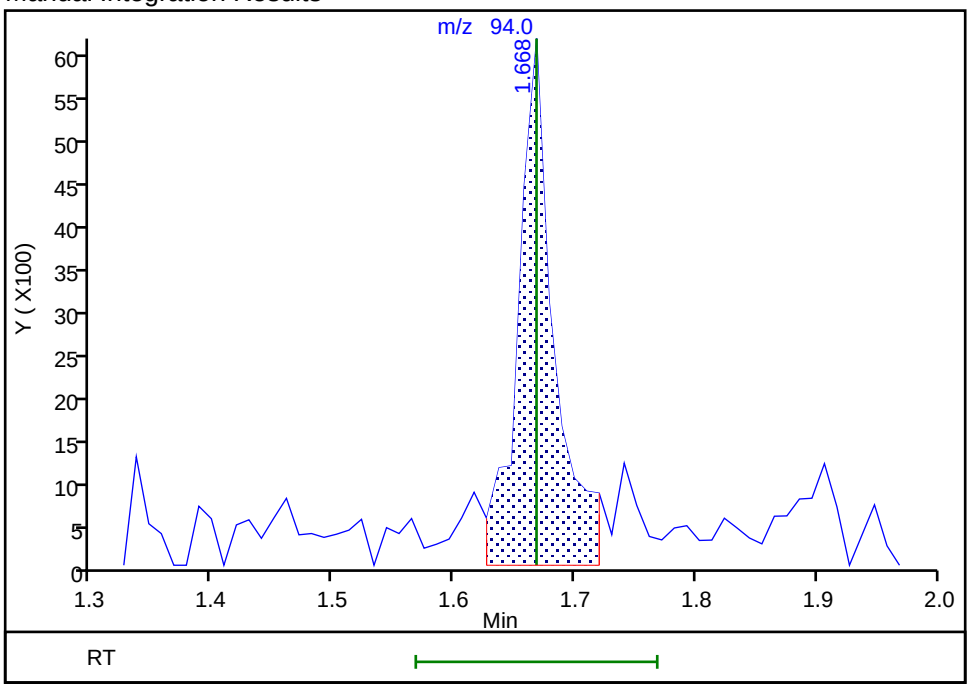
Processing Integration Results

RT: 1.67
Area: 12706
Amount: 1.131300
Amount Units: ug/L



Manual Integration Results

RT: 1.67
Area: 13021
Amount: 0.891636
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:34:20
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

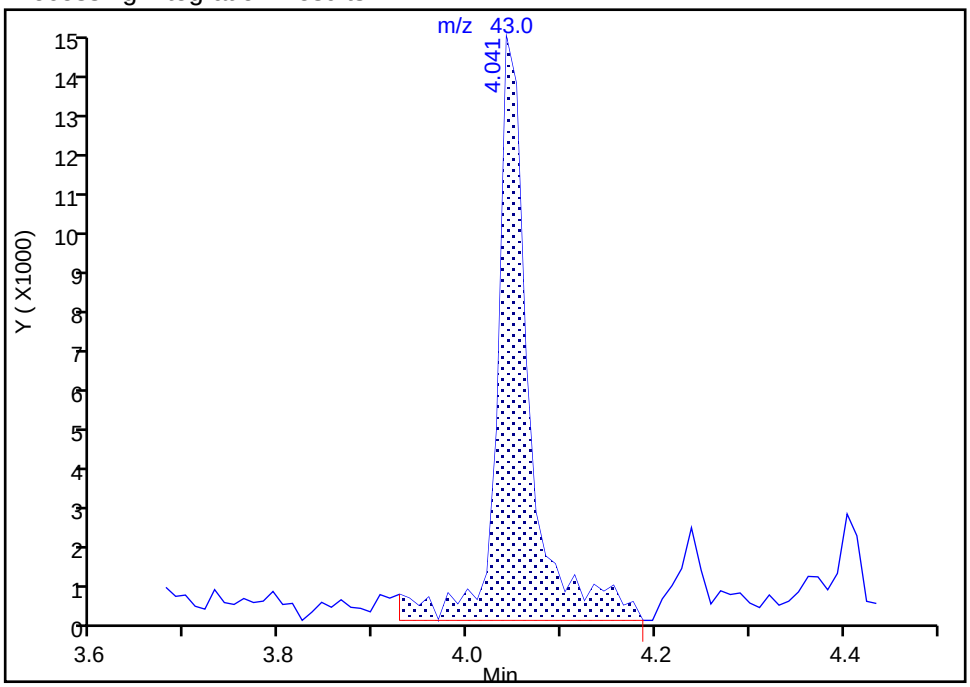
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1016.D
Injection Date: 06-Dec-2021 15:31:30 Instrument ID: HP5973C
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

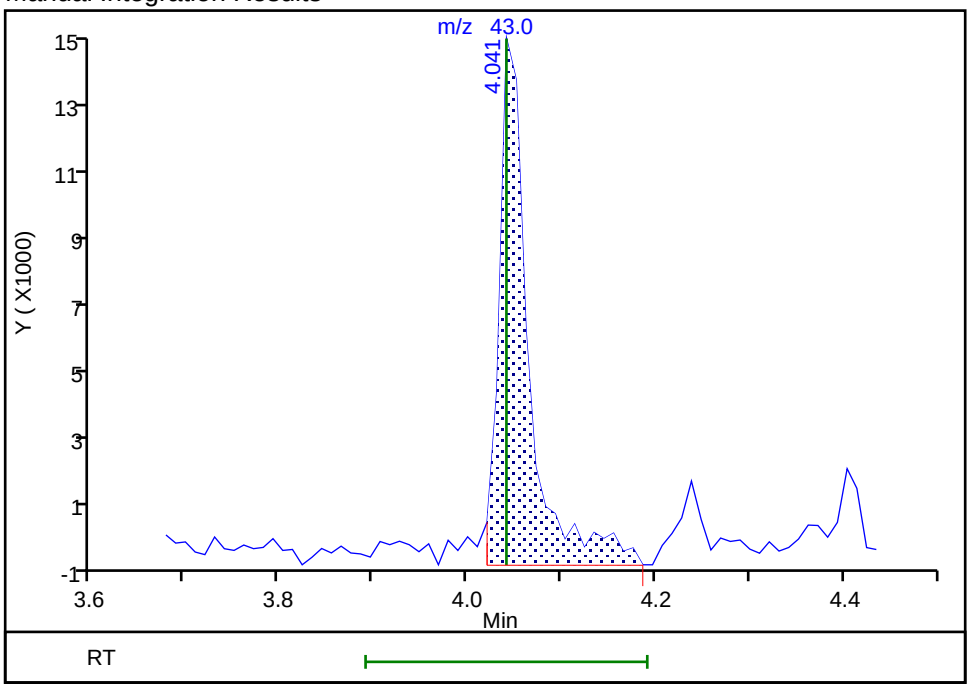
Processing Integration Results

RT: 4.04
Area: 35884
Amount: 5.849160
Amount Units: ug/L



Manual Integration Results

RT: 4.04
Area: 33155
Amount: 5.690414
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:30:55
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

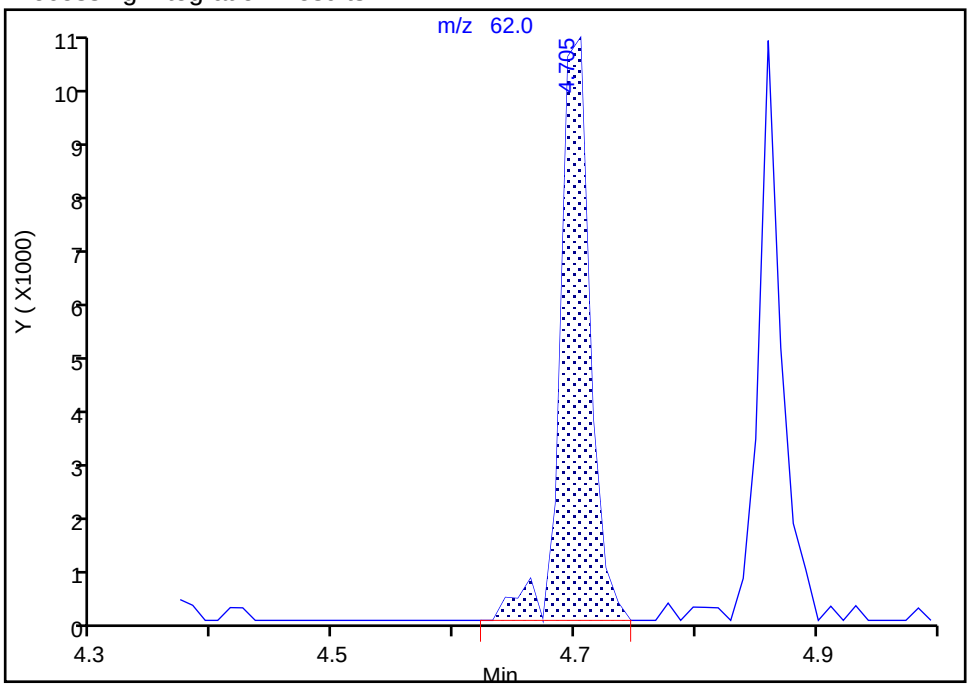
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1016.D
Injection Date: 06-Dec-2021 15:31:30 Instrument ID: HP5973C
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

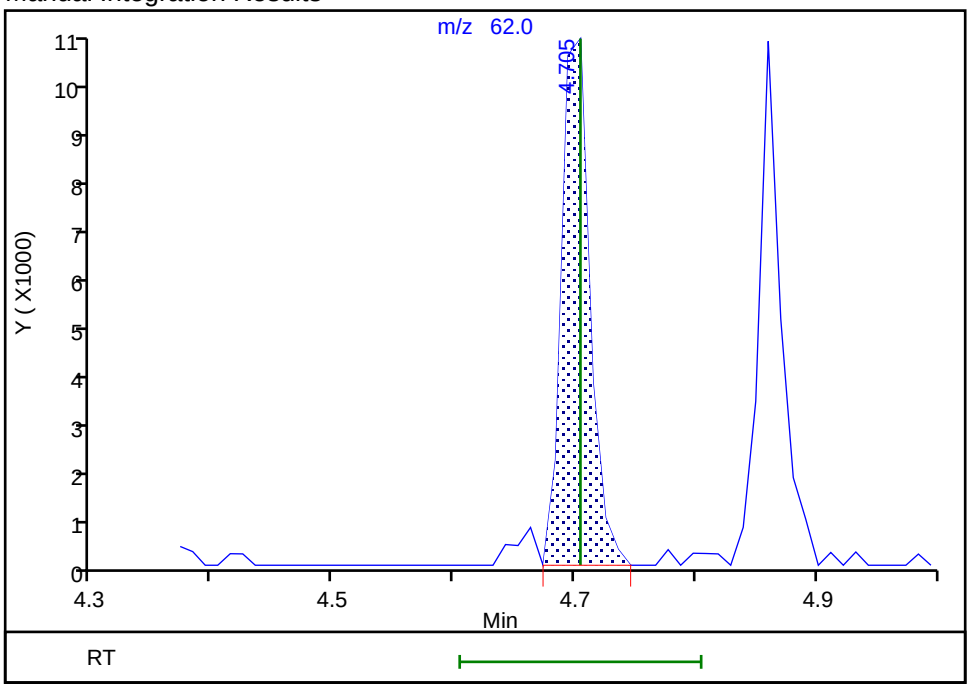
Processing Integration Results

RT: 4.70
Area: 17539
Amount: 1.303641
Amount Units: ug/L



Manual Integration Results

RT: 4.70
Area: 16607
Amount: 1.245149
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:31:07
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

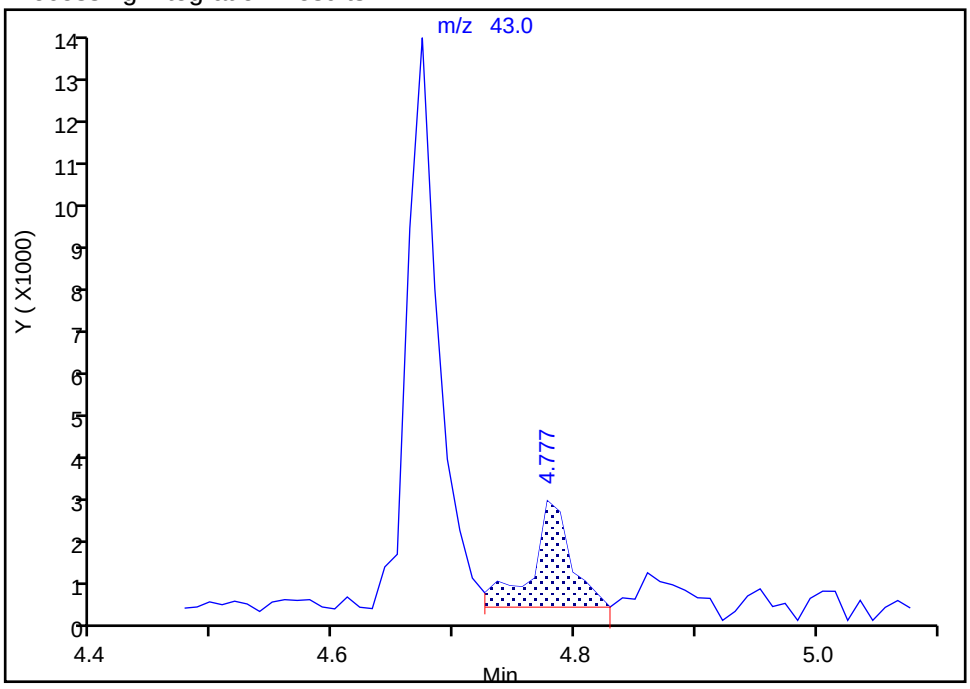
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1016.D
Injection Date: 06-Dec-2021 15:31:30 Instrument ID: HP5973C
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

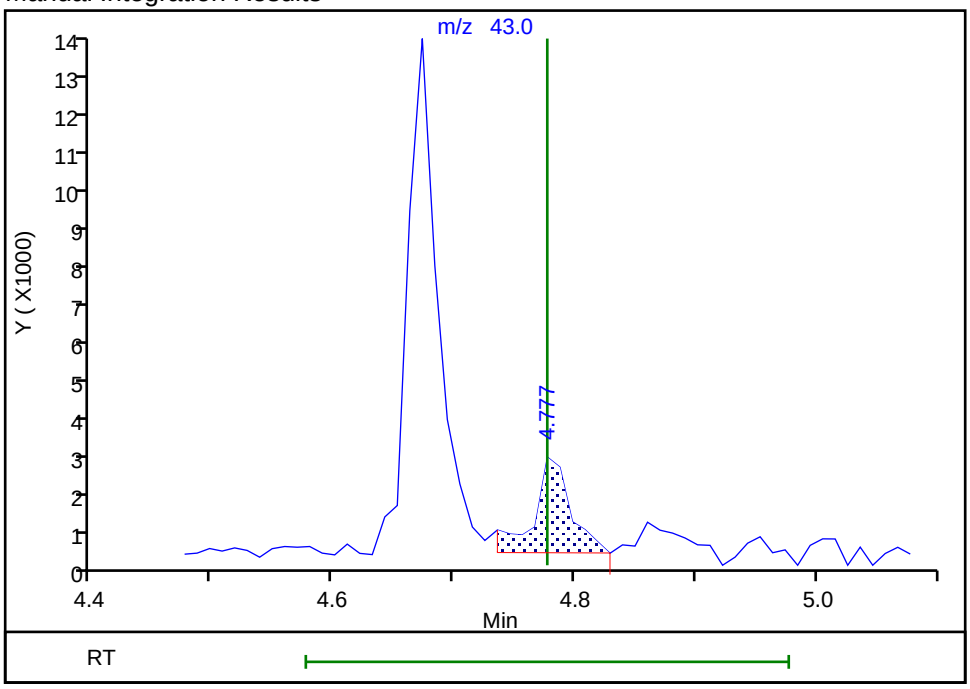
Processing Integration Results

RT: 4.78
Area: 5606
Amount: 0.511116
Amount Units: ug/L



Manual Integration Results

RT: 4.78
Area: 5316
Amount: 0.895923
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:32:35
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

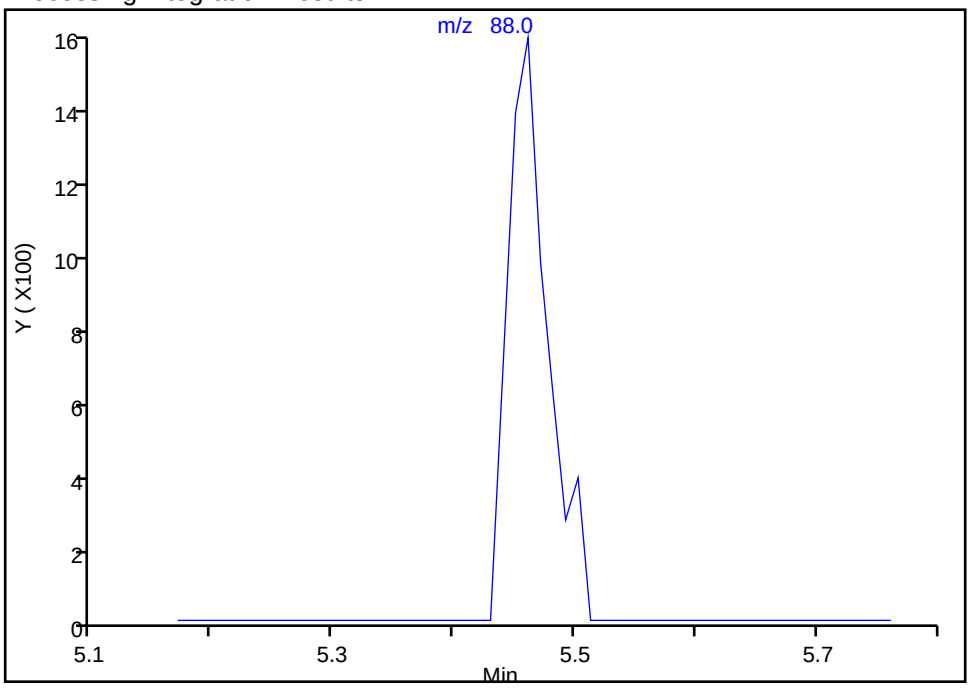
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1016.D
Injection Date: 06-Dec-2021 15:31:30 Instrument ID: HP5973C
Lims ID: IC
Client ID:
Operator ID: wd ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

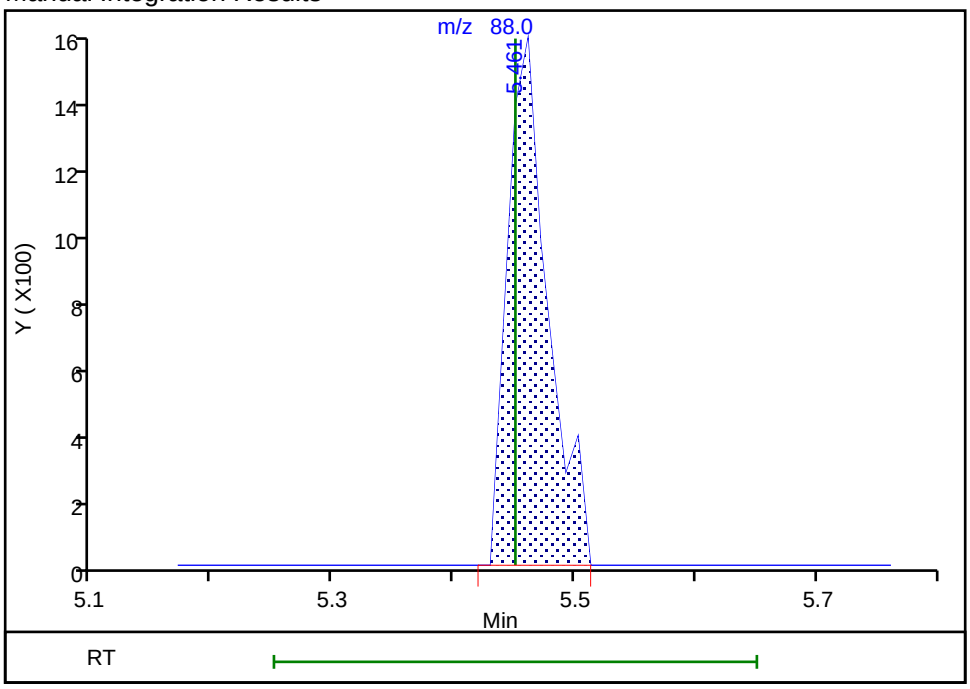
Not Detected
Expected RT: 5.45

Processing Integration Results



Manual Integration Results

RT: 5.46
Area: 3482
Amount: 18.406195
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:33:14
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1017.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 06-Dec-2021 15:54:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0102880-007
Operator ID: wd Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Dec-2021 14:04:36 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: dahnw Date: 07-Dec-2021 09:34:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	148217	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	277082	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	95	389475	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.394	4.394	0.000	92	266918	25.0	25.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	98	132654	25.0	26.3	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	94	642191	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	88	223329	25.0	25.2	
10 Dichlorodifluoromethane	85	1.140	1.140	0.000	98	22231	2.00	2.56	
12 Chloromethane	50	1.305	1.295	0.010	97	26658	2.00	2.18	
13 Vinyl chloride	62	1.388	1.388	0.000	80	24148	2.00	2.19	
151 Butadiene	54	1.399	1.409	-0.010	94	22078	2.00	2.24	
14 Bromomethane	94	1.668	1.668	0.000	92	20785	2.00	1.89	M
15 Chloroethane	64	1.761	1.751	0.010	97	16256	2.00	1.99	
17 Trichlorofluoromethane	101	1.969	1.969	0.000	76	32427	2.00	2.19	
16 Dichlorofluoromethane	67	1.969	1.969	0.000	93	38255	2.00	2.00	
18 Ethyl ether	59	2.269	2.269	0.000	86	17486	2.00	1.96	
20 Acrolein	56	2.435	2.445	-0.010	91	18081	10.0	9.61	
21 112TCTFE	101	2.456	2.456	0.000	91	20141	2.00	2.38	
22 1,1-Dichloroethene	96	2.466	2.466	0.000	97	20114	2.00	2.18	
23 Acetone	43	2.601	2.601	0.000	97	67185	10.0	10.4	
25 Iodomethane	142	2.611	2.611	0.000	98	42613	2.00	2.03	
26 Carbon disulfide	76	2.642	2.642	0.000	100	70141	2.00	2.10	
28 3-Chloro-1-propene	41	2.818	2.818	0.000	88	36110	2.00	2.11	
27 Methyl acetate	43	2.870	2.870	0.000	98	48475	4.00	3.97	
30 Methylene Chloride	84	2.943	2.943	0.000	96	27341	2.00	1.93	
31 2-Methyl-2-propanol	59	3.140	3.140	0.000	59	61941	20.0	18.3	M
34 trans-1,2-Dichloroethene	96	3.150	3.150	0.000	73	22903	2.00	2.01	
32 Methyl tert-butyl ether	73	3.160	3.150	0.010	97	73228	2.00	2.06	
33 Acrylonitrile	53	3.212	3.212	0.000	97	132391	20.0	19.1	
35 Hexane	57	3.326	3.326	0.000	93	19996	2.00	2.44	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.523	3.523	0.000	97	36902	2.00	1.99	
37 Vinyl acetate	43	3.575	3.575	0.000	97	67532	4.00	3.67	
44 2,2-Dichloropropane	77	3.969	3.969	0.000	90	32359	2.00	2.05	
45 cis-1,2-Dichloroethene	96	4.000	4.000	0.000	76	25934	2.00	2.04	
43 2-Butanone (MEK)	43	4.041	4.041	0.000	99	58856	10.0	9.72	
48 Chlorobromomethane	128	4.197	4.197	0.000	94	14307	2.00	2.01	
49 Tetrahydrofuran	42	4.238	4.228	0.010	81	18729	4.00	4.02	
50 Chloroform	83	4.259	4.259	0.000	94	41355	2.00	2.15	
51 1,1,1-Trichloroethane	97	4.352	4.352	0.000	97	31423	2.00	1.92	
52 Cyclohexane	56	4.363	4.352	0.011	90	31011	2.00	2.18	
55 Carbon tetrachloride	117	4.466	4.466	0.000	94	26421	2.00	1.96	
54 1,1-Dichloropropene	75	4.477	4.477	0.000	93	21638	2.00	2.07	
57 Benzene	78	4.642	4.642	0.000	52	66682	2.00	2.02	
53 Isobutyl alcohol	43	4.673	4.673	0.000	93	42947	50.0	43.0	
58 1,2-Dichloroethane	62	4.705	4.705	0.001	97	28087	2.00	2.03	
59 n-Heptane	43	4.777	4.777	0.000	94	23760	2.00	2.55	
62 Trichloroethene	95	5.129	5.129	0.000	94	16713	2.00	1.98	
64 Methylcyclohexane	83	5.223	5.223	0.000	91	31997	2.00	2.46	
65 1,2-Dichloropropane	63	5.326	5.326	0.000	89	14950	2.00	1.99	
67 Dibromomethane	93	5.430	5.430	0.000	91	11247	2.00	1.73	
66 1,4-Dioxane	88	5.451	5.451	0.000	67	7473	40.0	38.3	
68 Dichlorobromomethane	83	5.544	5.554	-0.010	97	20401	2.00	1.91	
69 2-Chloroethyl vinyl ether	63	5.762	5.762	0.000	89	8394	2.00	2.10	
72 cis-1,3-Dichloropropene	75	5.876	5.876	0.000	90	18582	2.00	1.86	
73 4-Methyl-2-pentanone (MIBK)	43	5.979	5.979	0.000	97	130540	10.0	9.19	
74 Toluene	92	6.093	6.093	0.000	98	35416	2.00	1.99	
77 trans-1,3-Dichloropropene	75	6.300	6.300	0.000	92	15182	2.00	1.70	
75 Ethyl methacrylate	69	6.332	6.332	0.000	92	21196	2.00	2.12	
79 1,1,2-Trichloroethane	83	6.446	6.446	0.000	92	11168	2.00	1.94	
81 Tetrachloroethene	166	6.497	6.497	0.000	95	16152	2.00	2.03	
82 1,3-Dichloropropane	76	6.570	6.570	0.000	91	21891	2.00	2.05	
80 2-Hexanone	43	6.622	6.622	0.000	99	79941	10.0	9.90	
83 Chlorodibromomethane	129	6.756	6.756	0.000	88	15381	2.00	1.95	
84 Ethylene Dibromide	107	6.839	6.839	0.000	95	15647	2.00	2.03	
87 Chlorobenzene	112	7.192	7.192	0.000	96	44616	2.00	1.97	
88 Ethylbenzene	91	7.254	7.254	0.000	99	72274	2.00	1.92	
89 1,1,1,2-Tetrachloroethane	131	7.264	7.264	0.000	95	19818	2.00	1.85	
90 m-Xylene & p-Xylene	106	7.337	7.347	-0.010	95	27684	2.00	1.89	
91 o-Xylene	106	7.658	7.658	0.000	97	31529	2.00	1.94	
92 Styrene	104	7.689	7.679	0.010	94	43530	2.00	1.90	
95 Bromoform	173	7.876	7.876	0.000	92	11435	2.00	1.97	
94 Isopropylbenzene	105	7.948	7.948	0.000	96	79517	2.00	1.74	
101 Bromobenzene	156	8.228	8.228	0.000	94	18868	2.00	1.67	
97 1,1,2,2-Tetrachloroethane	83	8.249	8.249	0.000	96	30275	2.00	1.95	
99 N-Propylbenzene	91	8.280	8.280	0.000	98	97527	2.00	1.87	
100 1,2,3-Trichloropropane	110	8.290	8.290	0.000	89	10982	2.00	2.04	
98 trans-1,4-Dichloro-2-butene	53	8.290	8.290	0.000	69	5822	2.00	1.71	
103 2-Chlorotoluene	126	8.363	8.363	0.000	96	21958	2.00	1.84	
102 1,3,5-Trimethylbenzene	105	8.415	8.414	0.000	94	68443	2.00	1.73	
105 4-Chlorotoluene	126	8.456	8.456	0.000	98	18931	2.00	1.69	
106 tert-Butylbenzene	134	8.674	8.684	-0.010	93	13032	2.00	1.70	
107 1,2,4-Trimethylbenzene	105	8.725	8.725	0.000	96	76927	2.00	1.84	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.860	8.860	0.000	94	86075	2.00	1.79	
110 4-Isopropyltoluene	119	8.974	8.974	0.000	96	76503	2.00	1.71	
111 1,3-Dichlorobenzene	146	8.984	8.984	0.000	97	46128	2.00	1.84	
113 1,4-Dichlorobenzene	146	9.057	9.057	0.000	90	49006	2.00	1.99	
115 n-Butylbenzene	91	9.306	9.306	0.000	97	76929	2.00	1.82	
116 1,2-Dichlorobenzene	146	9.368	9.368	0.000	97	50856	2.00	1.88	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.041	0.001	76	10715	2.00	2.05	
119 1,2,4-Trichlorobenzene	180	10.684	10.684	0.000	94	41742	2.00	1.86	
120 Hexachlorobutadiene	225	10.798	10.798	0.000	92	17066	2.00	1.97	
121 Naphthalene	128	10.902	10.902	0.000	96	138599	2.00	1.80	
122 1,2,3-Trichlorobenzene	180	11.088	11.088	0.000	94	42320	2.00	1.91	
S 126 1,3-Dichloropropene, Total	1				0			3.56	
S 125 1,2-Dichloroethene, Total	1				0			4.05	
S 123 Total BTEX	1				0			9.76	
S 124 Xylenes, Total	1				0			3.83	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	2.00	Units: uL	
GAS CORP mix_00484	Amount Added:	2.00	Units: uL	
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent

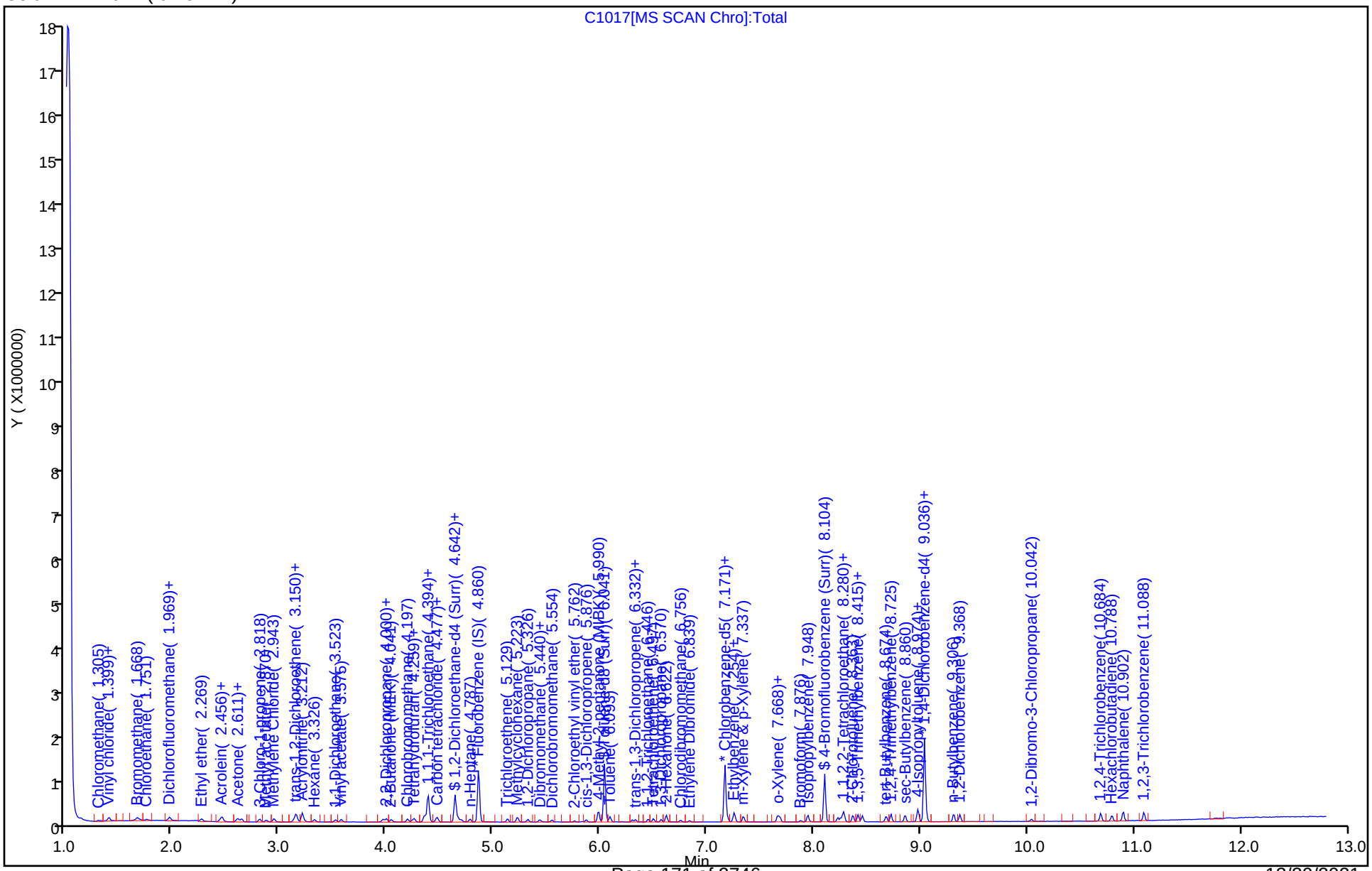
Report Date: 07-Dec-2021 14:04:37 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1017.D

Injection Date:	06-Dec-2021 15:54:30	Instrument ID:	HP5973C	Operator ID:	wd
Lims ID:	IC 2			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

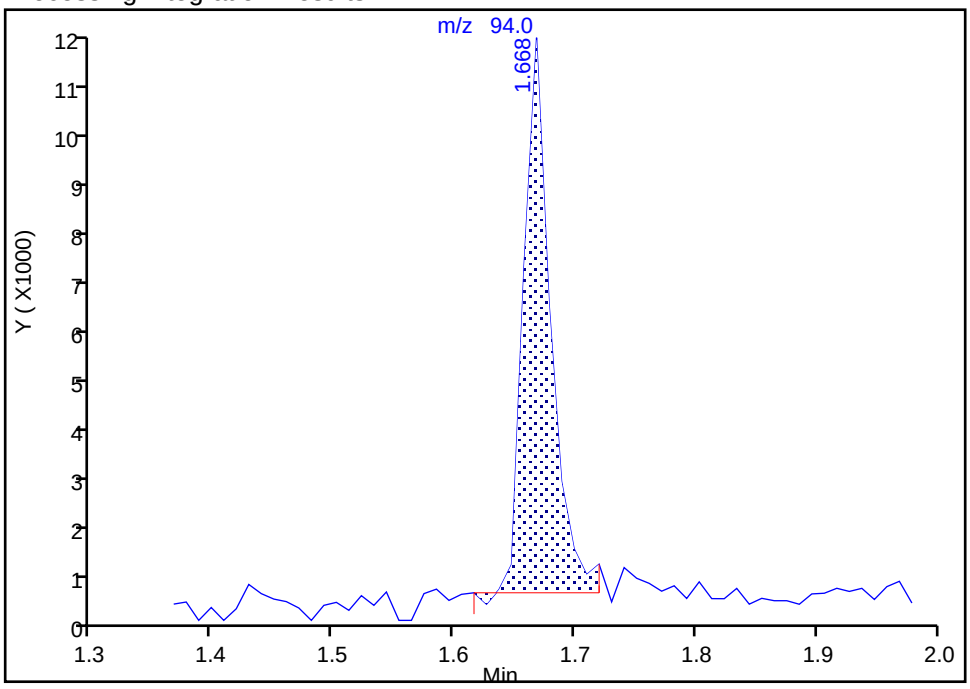
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1017.D
Injection Date: 06-Dec-2021 15:54:30 Instrument ID: HP5973C
Lims ID: IC 2
Client ID:
Operator ID: wd ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

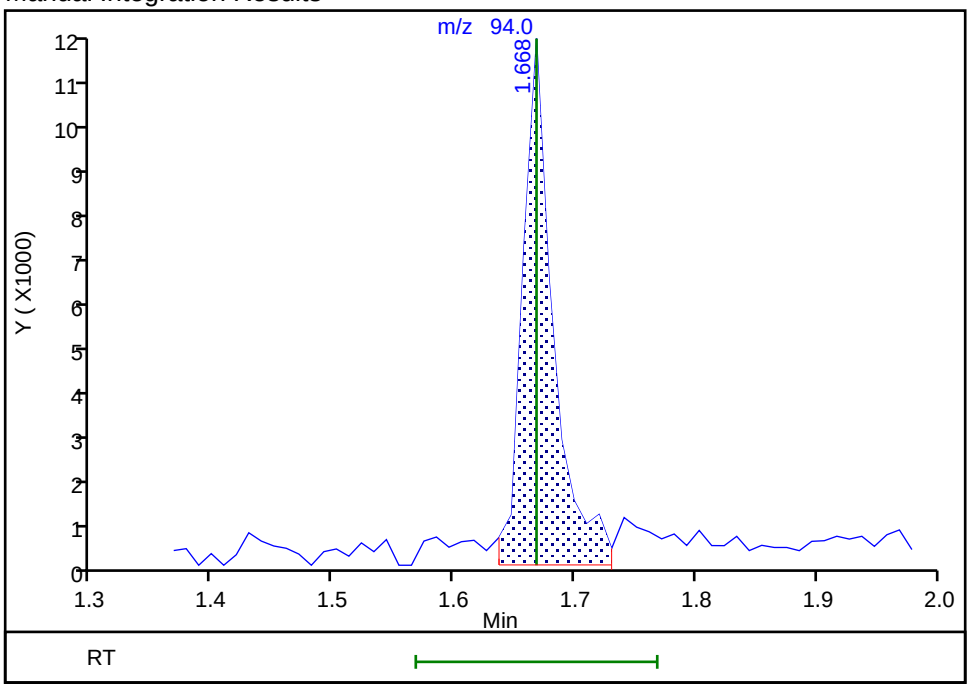
Processing Integration Results

RT: 1.67
Area: 17362
Amount: 1.394558
Amount Units: ug/L



Manual Integration Results

RT: 1.67
Area: 20785
Amount: 1.885873
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:35:00
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

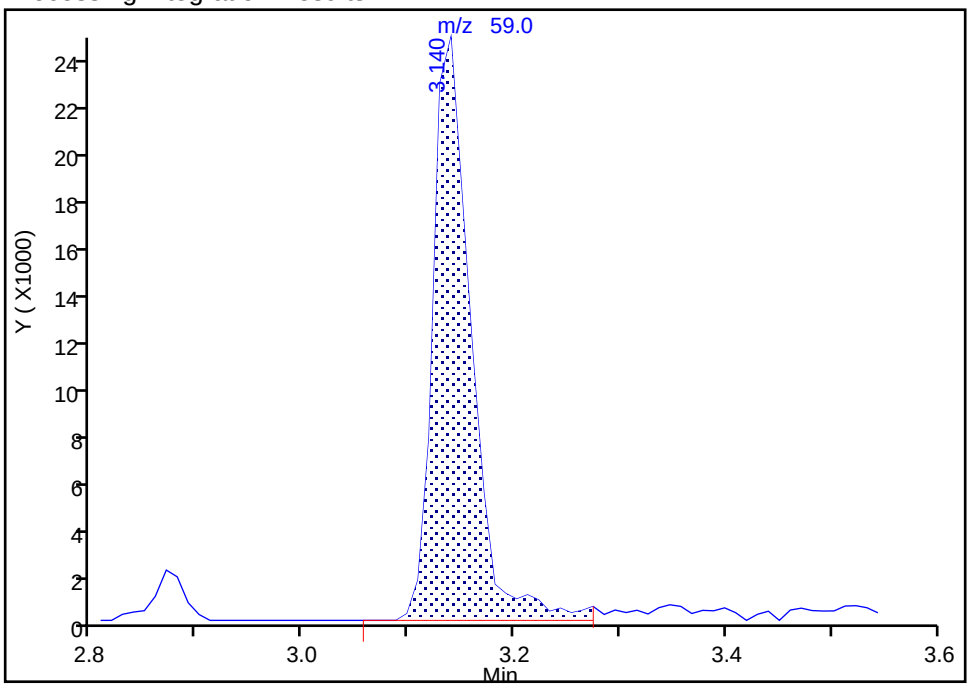
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1017.D
Injection Date: 06-Dec-2021 15:54:30 Instrument ID: HP5973C
Lims ID: IC 2
Client ID:
Operator ID: wd ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

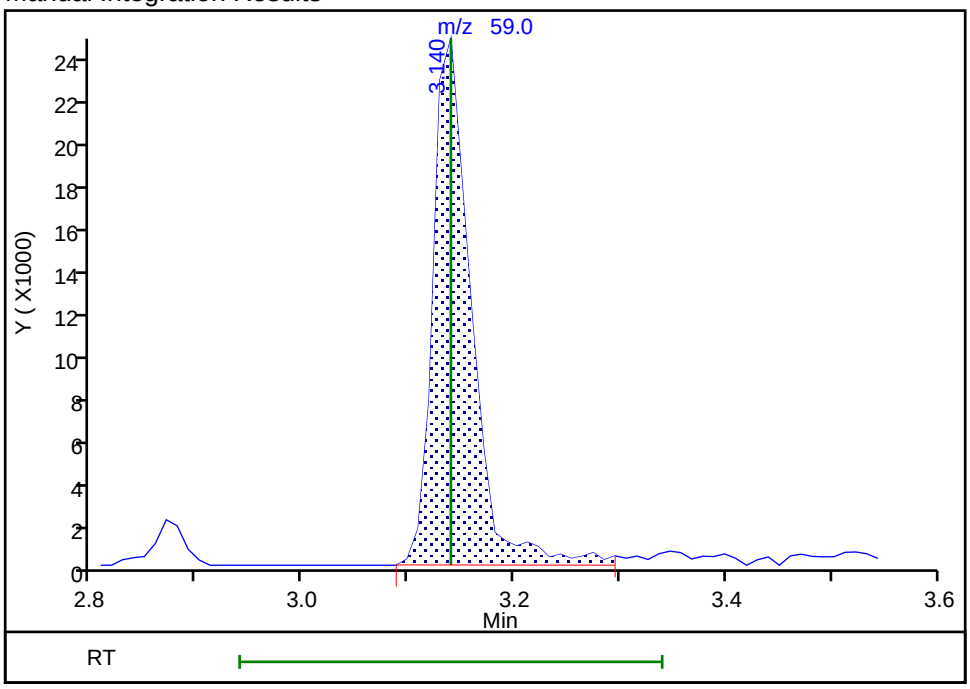
Processing Integration Results

RT: 3.14
Area: 61645
Amount: 18.197014
Amount Units: ug/L



Manual Integration Results

RT: 3.14
Area: 61941
Amount: 18.274410
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:48:11
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1018.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-Dec-2021 16:18:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0102880-008
Operator ID: wd Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Dec-2021 14:04:39 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: dahnw Date: 07-Dec-2021 09:36:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	156614	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	86	294235	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	95	380261	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.394	4.394	0.000	91	270661	25.0	24.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	97	133133	25.0	25.0	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	93	648542	25.0	23.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	88	227071	25.0	24.1	
10 Dichlorodifluoromethane	85	1.140	1.140	0.000	97	42434	5.00	4.21	M
12 Chloromethane	50	1.305	1.305	0.000	98	62592	5.00	4.85	
13 Vinyl chloride	62	1.399	1.399	0.000	97	51991	5.00	4.45	
151 Butadiene	54	1.409	1.409	0.000	99	46621	5.00	4.47	M
14 Bromomethane	94	1.668	1.668	0.000	90	46814	5.00	5.11	
15 Chloroethane	64	1.761	1.761	0.000	99	35230	5.00	4.67	
17 Trichlorofluoromethane	101	1.979	1.979	0.000	67	64533	5.00	4.12	
16 Dichlorofluoromethane	67	1.969	1.969	0.000	94	92286	5.00	4.57	
18 Ethyl ether	59	2.269	2.269	0.000	92	45024	5.00	4.79	
20 Acrolein	56	2.445	2.445	0.000	96	51201	25.0	25.7	
21 112TCTFE	101	2.456	2.456	0.000	64	36100	5.00	4.04	
22 1,1-Dichloroethene	96	2.466	2.466	0.000	97	43897	5.00	4.49	
23 Acetone	43	2.601	2.601	0.000	99	158586	25.0	23.3	
25 Iodomethane	142	2.611	2.611	0.000	98	103183	5.00	4.66	
26 Carbon disulfide	76	2.642	2.642	0.000	99	161564	5.00	4.58	
28 3-Chloro-1-propene	41	2.818	2.818	0.000	87	81874	5.00	4.52	
27 Methyl acetate	43	2.870	2.870	0.000	98	122210	10.0	9.47	
30 Methylene Chloride	84	2.953	2.953	0.000	95	61235	5.00	4.70	
31 2-Methyl-2-propanol	59	3.129	3.129	0.000	97	165991	50.0	46.3	
34 trans-1,2-Dichloroethene	96	3.160	3.160	0.000	68	57990	5.00	4.81	
32 Methyl tert-butyl ether	73	3.160	3.160	0.000	96	177998	5.00	4.73	
33 Acrylonitrile	53	3.212	3.212	0.000	99	357131	50.0	48.9	
35 Hexane	57	3.326	3.326	0.000	94	35900	5.00	3.78	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.523	3.523	0.000	96	95972	5.00	4.90	
37 Vinyl acetate	43	3.575	3.575	0.000	98	177226	10.0	9.12	
44 2,2-Dichloropropane	77	3.969	3.969	0.000	91	75985	5.00	4.56	
45 cis-1,2-Dichloroethene	96	4.000	4.000	0.000	80	64154	5.00	4.78	
43 2-Butanone (MEK)	43	4.041	4.041	0.000	99	150463	25.0	23.5	
48 Chlorobromomethane	128	4.197	4.197	0.000	94	34594	5.00	4.60	
49 Tetrahydrofuran	42	4.238	4.238	0.000	83	47531	10.0	9.65	
50 Chloroform	83	4.259	4.259	0.000	94	98721	5.00	4.86	
51 1,1,1-Trichloroethane	97	4.352	4.352	0.000	98	77519	5.00	4.49	
52 Cyclohexane	56	4.363	4.363	0.000	87	58709	5.00	3.90	
55 Carbon tetrachloride	117	4.466	4.466	0.000	95	59874	5.00	4.21	
54 1,1-Dichloropropene	75	4.477	4.477	0.000	89	48471	5.00	4.39	
57 Benzene	78	4.642	4.642	0.000	97	160964	5.00	4.61	
53 Isobutyl alcohol	43	4.673	4.673	0.000	94	123427	125.0	117.0	
58 1,2-Dichloroethane	62	4.704	4.704	0.000	97	70370	5.00	4.80	
59 n-Heptane	43	4.777	4.777	0.000	94	44934	5.00	4.25	
62 Trichloroethene	95	5.129	5.129	0.000	95	42252	5.00	4.74	
64 Methylcyclohexane	83	5.223	5.223	0.000	91	56840	5.00	3.82	
65 1,2-Dichloropropane	63	5.326	5.326	0.000	88	37806	5.00	4.76	
67 Dibromomethane	93	5.440	5.440	0.000	93	31637	5.00	4.60	
66 1,4-Dioxane	88	5.451	5.451	0.000	87	20112	100.0	97.2	
68 Dichlorobromomethane	83	5.554	5.554	0.000	96	52878	5.00	4.68	
69 2-Chloroethyl vinyl ether	63	5.762	5.762	0.000	94	20516	5.00	4.85	
72 cis-1,3-Dichloropropene	75	5.865	5.865	0.000	92	49498	5.00	4.69	
73 4-Methyl-2-pentanone (MIBK)	43	5.979	5.979	0.000	98	346470	25.0	23.0	
74 Toluene	92	6.093	6.093	0.000	98	88764	5.00	4.69	
77 trans-1,3-Dichloropropene	75	6.300	6.300	0.000	95	44681	5.00	4.71	
75 Ethyl methacrylate	69	6.331	6.331	0.000	91	49031	5.00	4.62	
79 1,1,2-Trichloroethane	83	6.445	6.445	0.000	91	28216	5.00	4.61	
81 Tetrachloroethene	166	6.497	6.497	0.000	93	36740	5.00	4.35	
82 1,3-Dichloropropane	76	6.570	6.570	0.000	95	53258	5.00	4.70	
80 2-Hexanone	43	6.622	6.622	0.000	98	209971	25.0	24.5	
83 Chlorodibromomethane	129	6.756	6.756	0.000	89	35958	5.00	4.29	
84 Ethylene Dibromide	107	6.839	6.839	0.000	99	35434	5.00	4.32	
87 Chlorobenzene	112	7.192	7.192	0.000	96	113993	5.00	4.74	
88 Ethylbenzene	91	7.254	7.254	0.000	98	186373	5.00	4.67	
89 1,1,1,2-Tetrachloroethane	131	7.264	7.264	0.000	95	50673	5.00	4.45	
90 m-Xylene & p-Xylene	106	7.347	7.347	0.000	97	73865	5.00	4.75	
91 o-Xylene	106	7.668	7.668	0.000	96	81363	5.00	4.71	
92 Styrene	104	7.689	7.689	0.000	96	112183	5.00	4.60	
95 Bromoform	173	7.876	7.876	0.000	92	28375	5.00	4.59	
94 Isopropylbenzene	105	7.948	7.948	0.000	96	202982	5.00	4.55	
101 Bromobenzene	156	8.228	8.228	0.000	94	56112	5.00	5.07	
97 1,1,2,2-Tetrachloroethane	83	8.259	8.259	0.000	96	74343	5.00	4.90	
99 N-Propylbenzene	91	8.280	8.280	0.000	98	245095	5.00	4.81	
100 1,2,3-Trichloropropane	110	8.290	8.290	0.000	90	24728	5.00	4.71	
98 trans-1,4-Dichloro-2-butene	53	8.290	8.290	0.000	74	14793	5.00	4.45	
103 2-Chlorotoluene	126	8.373	8.373	0.000	97	54361	5.00	4.66	
102 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	94	175911	5.00	4.54	
105 4-Chlorotoluene	126	8.456	8.456	0.000	97	55091	5.00	5.03	
106 tert-Butylbenzene	134	8.684	8.684	0.000	93	31569	5.00	4.23	
107 1,2,4-Trimethylbenzene	105	8.725	8.725	0.000	96	187777	5.00	4.61	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.860	8.860	0.000	94	211460	5.00	4.52	
110 4-Isopropyltoluene	119	8.974	8.974	0.000	97	201875	5.00	4.62	
111 1,3-Dichlorobenzene	146	8.984	8.984	0.000	98	120951	5.00	4.95	
113 1,4-Dichlorobenzene	146	9.057	9.057	0.000	95	122494	5.00	5.08	
115 n-Butylbenzene	91	9.306	9.306	0.000	97	189428	5.00	4.59	
116 1,2-Dichlorobenzene	146	9.368	9.368	0.000	96	123427	5.00	4.67	
117 1,2-Dibromo-3-Chloropropane	75	10.041	10.041	0.000	77	24623	5.00	4.81	
119 1,2,4-Trichlorobenzene	180	10.684	10.684	0.000	94	99619	5.00	4.56	
120 Hexachlorobutadiene	225	10.798	10.798	0.000	92	36576	5.00	4.33	
121 Naphthalene	128	10.902	10.902	0.000	97	347969	5.00	4.64	
122 1,2,3-Trichlorobenzene	180	11.088	11.088	0.000	93	104113	5.00	4.82	
S 126 1,3-Dichloropropene, Total	1				0			9.40	
S 125 1,2-Dichloroethene, Total	1				0			9.59	
S 123 Total BTEX	1				0			23.4	
S 124 Xylenes, Total	1				0			9.46	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	5.00	Units: uL	
GAS CORP mix_00484	Amount Added:	5.00	Units: uL	
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent

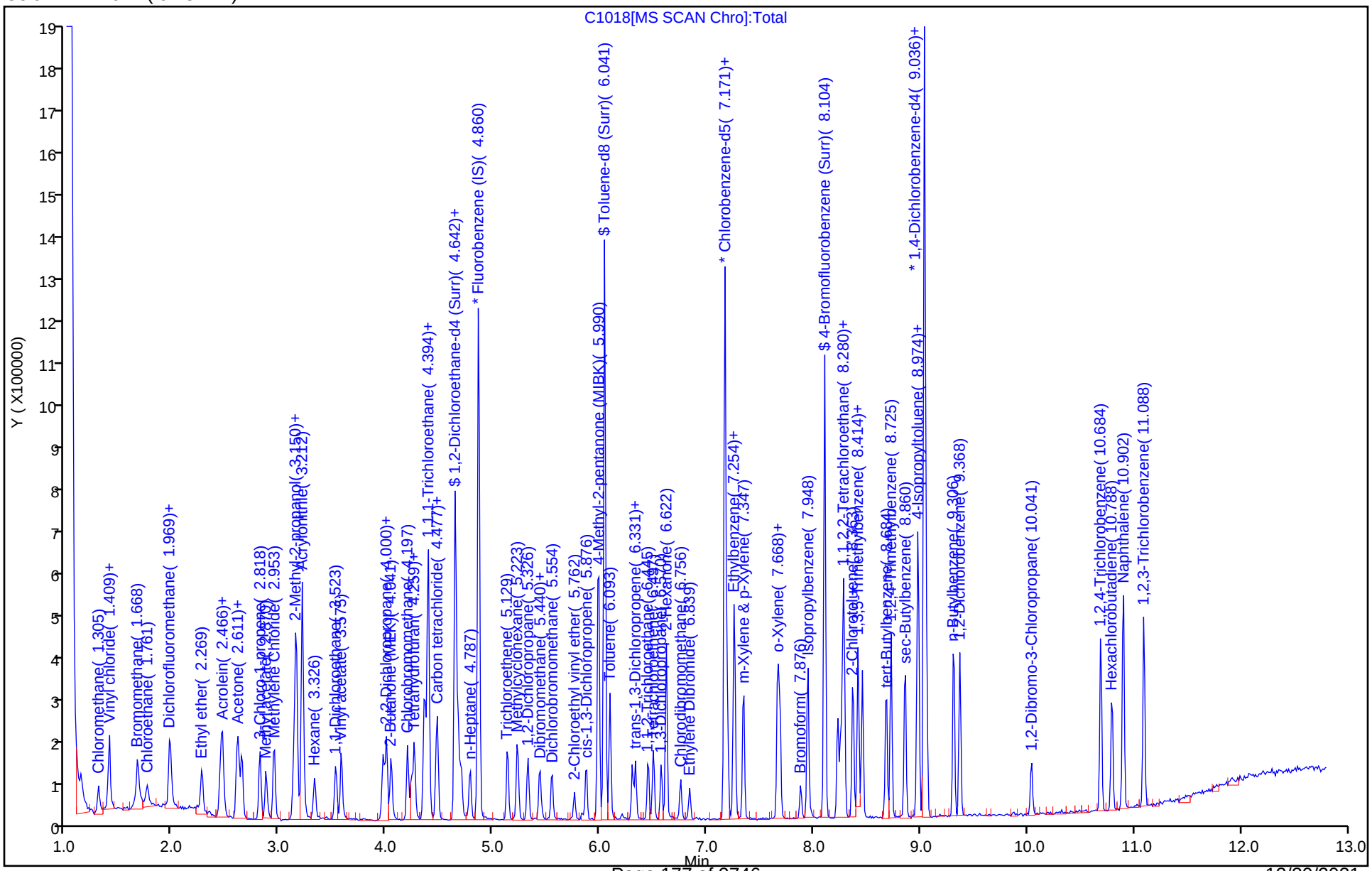
Report Date: 07-Dec-2021 14:04:41 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1018.D

Injection Date:	06-Dec-2021 16:18:30	Instrument ID:	HP5973C	Operator ID:	wd
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

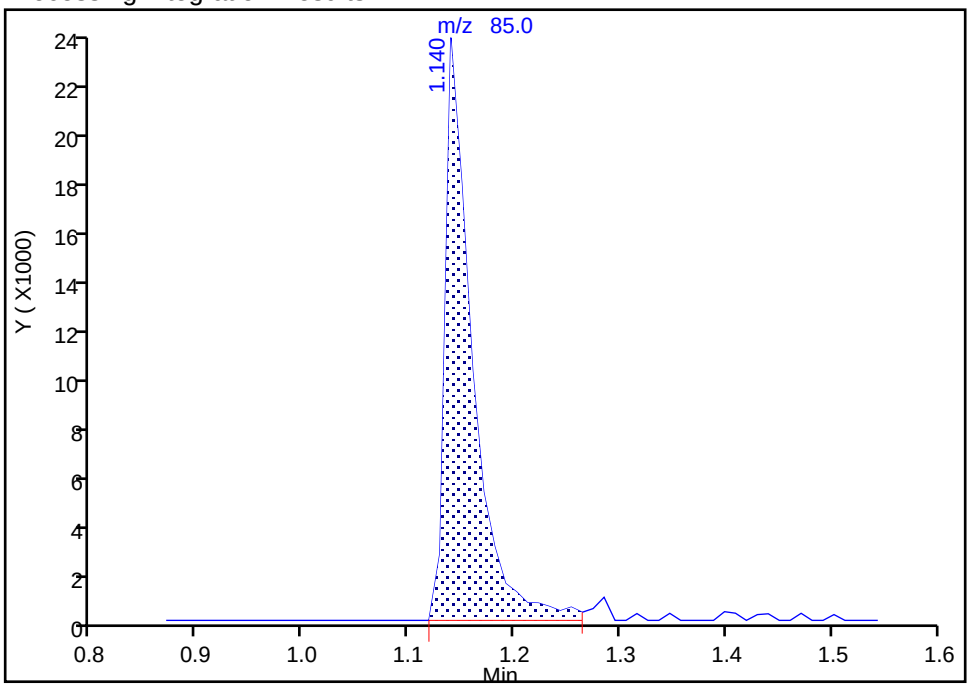
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1018.D
Injection Date: 06-Dec-2021 16:18:30 Instrument ID: HP5973C
Lims ID: IC 3
Client ID:
Operator ID: wd ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

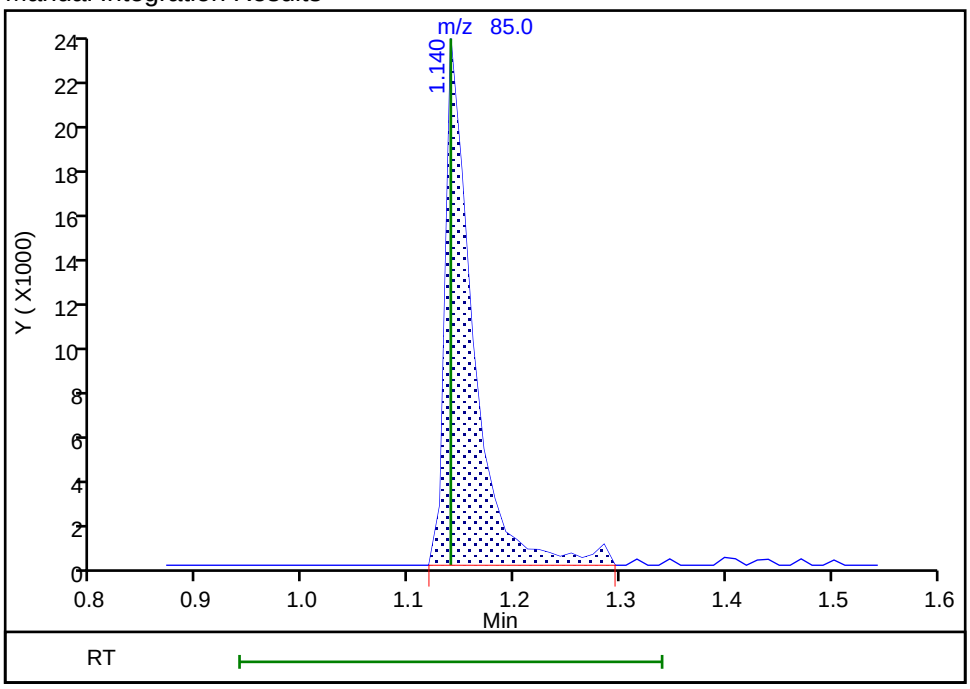
Processing Integration Results

RT: 1.14
Area: 41572
Amount: 4.146636
Amount Units: ug/L



Manual Integration Results

RT: 1.14
Area: 42434
Amount: 4.212271
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:39:03
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

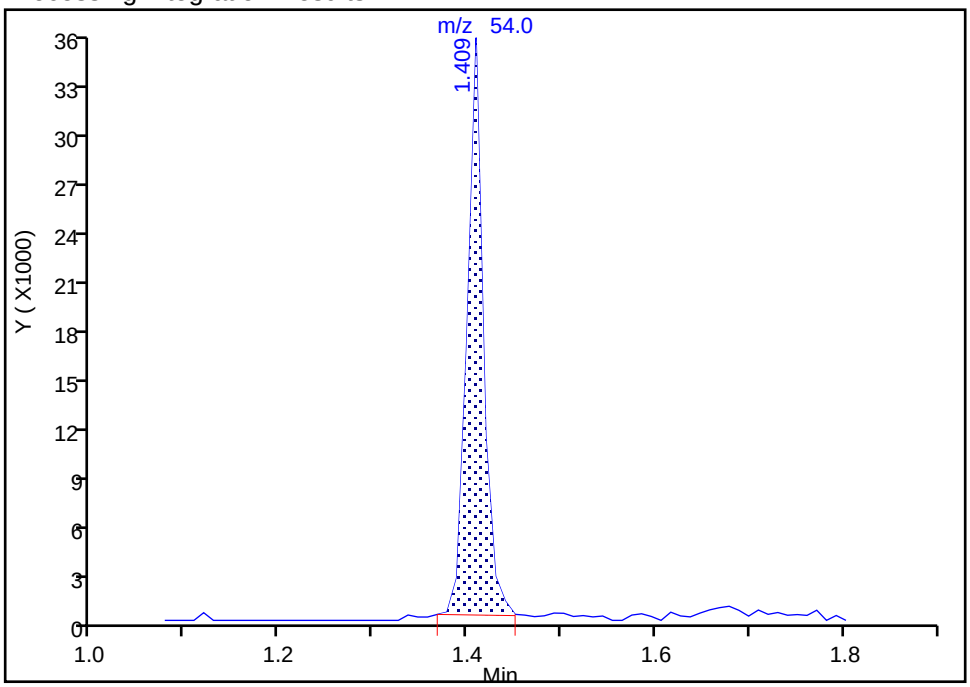
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1018.D
Injection Date: 06-Dec-2021 16:18:30 Instrument ID: HP5973C
Lims ID: IC 3
Client ID:
Operator ID: wd ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

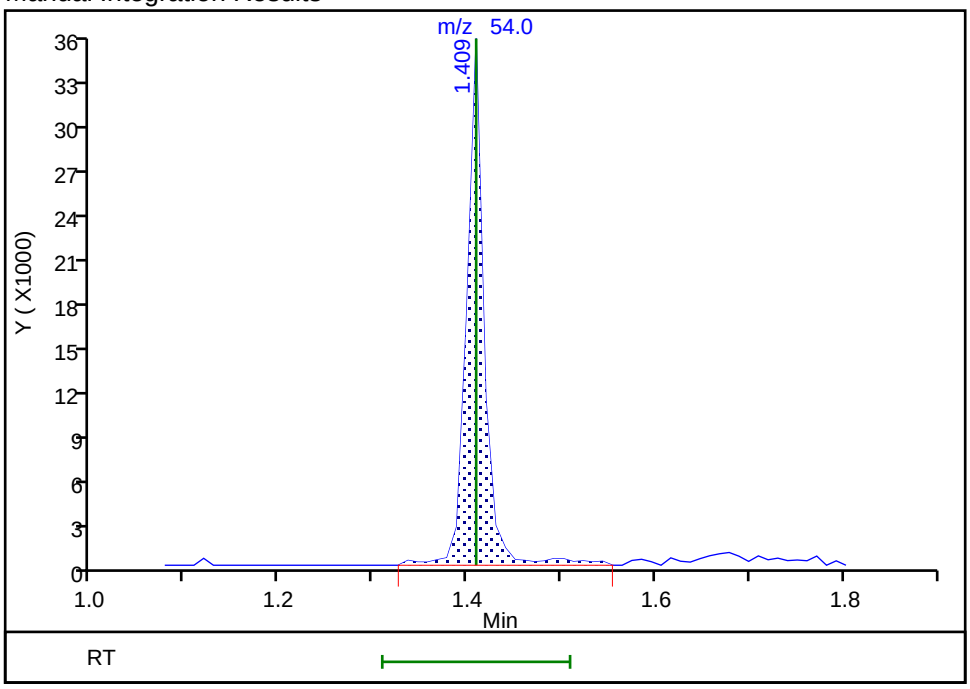
Processing Integration Results

RT: 1.41
Area: 42619
Amount: 3.773987
Amount Units: ug/L



Manual Integration Results

RT: 1.41
Area: 46621
Amount: 4.470320
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:35:55
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1019.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-Dec-2021 16:41:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0102880-009
Operator ID: wd Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Dec-2021 14:04:44 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: dahnw Date: 07-Dec-2021 09:37:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	138880	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	86	257454	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	96	352723	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.394	4.394	0.000	92	251674	25.0	26.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	98	120384	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	93	623163	25.0	26.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	88	220891	25.0	26.8	
10 Dichlorodifluoromethane	85	1.140	1.140	0.000	100	72981	10.0	7.70	M
12 Chloromethane	50	1.295	1.305	-0.010	99	116755	10.0	10.2	
13 Vinyl chloride	62	1.388	1.399	-0.011	98	97401	10.0	9.41	
151 Butadiene	54	1.409	1.409	0.000	94	80034	10.0	8.65	M
14 Bromomethane	94	1.668	1.668	0.000	92	82727	10.0	11.1	
15 Chloroethane	64	1.761	1.761	0.000	100	65538	10.0	10.4	
16 Dichlorofluoromethane	67	1.969	1.969	0.000	95	184246	10.0	10.3	
17 Trichlorofluoromethane	101	1.969	1.979	-0.010	66	115271	10.0	8.30	
18 Ethyl ether	59	2.269	2.269	0.000	94	84876	10.0	10.2	
20 Acrolein	56	2.445	2.445	0.000	99	81106	50.0	46.0	
21 112TCTFE	101	2.456	2.456	0.000	81	71575	10.0	9.04	
22 1,1-Dichloroethene	96	2.466	2.466	0.000	97	80904	10.0	9.34	
23 Acetone	43	2.601	2.601	0.000	97	311639	50.0	51.6	
25 Iodomethane	142	2.611	2.611	0.000	99	195599	10.0	9.97	
26 Carbon disulfide	76	2.642	2.642	0.000	100	296877	10.0	9.49	
28 3-Chloro-1-propene	41	2.818	2.818	0.000	88	156471	10.0	9.74	
27 Methyl acetate	43	2.870	2.870	0.000	98	220380	20.0	19.3	
30 Methylene Chloride	84	2.953	2.953	0.000	95	120233	10.0	11.1	
31 2-Methyl-2-propanol	59	3.140	3.129	0.011	98	327273	100.0	103.0	
34 trans-1,2-Dichloroethene	96	3.150	3.160	-0.010	67	104429	10.0	9.77	
32 Methyl tert-butyl ether	73	3.150	3.160	-0.010	99	347012	10.0	10.4	
33 Acrylonitrile	53	3.212	3.212	0.000	97	648014	100.0	100.0	
35 Hexane	57	3.326	3.326	0.000	94	85157	10.0	9.20	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.523	3.523	0.000	97	174953	10.0	10.1	
37 Vinyl acetate	43	3.575	3.575	0.000	98	313226	20.0	18.2	
44 2,2-Dichloropropane	77	3.969	3.969	0.000	91	138373	10.0	9.37	
45 cis-1,2-Dichloroethene	96	4.000	4.000	0.000	78	116148	10.0	9.75	
43 2-Butanone (MEK)	43	4.041	4.041	0.000	100	271690	50.0	47.9	
48 Chlorobromomethane	128	4.197	4.197	0.000	92	67977	10.0	10.2	
49 Tetrahydrofuran	42	4.228	4.238	-0.010	92	89682	20.0	20.5	
50 Chloroform	83	4.259	4.259	0.000	95	178425	10.0	9.90	
51 1,1,1-Trichloroethane	97	4.352	4.352	0.000	98	144096	10.0	9.41	
52 Cyclohexane	56	4.363	4.363	0.000	94	133491	10.0	10.0	
55 Carbon tetrachloride	117	4.466	4.466	0.000	95	122746	10.0	9.73	
54 1,1-Dichloropropene	75	4.477	4.477	0.001	91	86654	10.0	8.84	
57 Benzene	78	4.642	4.642	0.000	97	290399	10.0	9.38	
53 Isobutyl alcohol	43	4.673	4.673	0.000	91	234745	250.0	250.9	
58 1,2-Dichloroethane	62	4.705	4.704	0.001	97	119221	10.0	9.17	
59 n-Heptane	43	4.787	4.777	0.010	93	88954	10.0	9.00	
62 Trichloroethene	95	5.129	5.129	0.000	94	73607	10.0	9.32	
64 Methylcyclohexane	83	5.223	5.223	0.000	94	130604	10.0	9.15	
65 1,2-Dichloropropane	63	5.326	5.326	0.000	90	68829	10.0	9.78	
67 Dibromomethane	93	5.430	5.440	-0.010	93	56865	10.0	9.32	
66 1,4-Dioxane	88	5.451	5.451	0.000	92	43098	200.0	237.9	
68 Dichlorobromomethane	83	5.554	5.554	0.000	98	95417	10.0	9.52	
69 2-Chloroethyl vinyl ether	63	5.762	5.762	0.000	94	33195	10.0	8.85	
72 cis-1,3-Dichloropropene	75	5.876	5.865	0.011	93	92432	10.0	9.88	
73 4-Methyl-2-pentanone (MIBK)	43	5.979	5.979	0.000	98	640678	50.0	48.6	
74 Toluene	92	6.093	6.093	0.000	97	152236	10.0	9.19	
77 trans-1,3-Dichloropropene	75	6.300	6.300	0.000	97	74723	10.0	9.00	
75 Ethyl methacrylate	69	6.332	6.331	0.001	92	86059	10.0	9.26	
79 1,1,2-Trichloroethane	83	6.446	6.445	0.001	92	51682	10.0	9.66	
81 Tetrachloroethene	166	6.497	6.497	0.000	94	69336	10.0	9.39	
82 1,3-Dichloropropane	76	6.570	6.570	0.000	93	96012	10.0	9.68	
80 2-Hexanone	43	6.622	6.622	0.000	98	361095	50.0	48.1	
83 Chlorodibromomethane	129	6.756	6.756	0.000	89	72120	10.0	9.83	
84 Ethylene Dibromide	107	6.839	6.839	0.000	98	66134	10.0	9.22	
87 Chlorobenzene	112	7.192	7.192	0.000	95	200436	10.0	9.52	
88 Ethylbenzene	91	7.254	7.254	0.000	98	335881	10.0	9.62	
89 1,1,1,2-Tetrachloroethane	131	7.264	7.264	0.000	94	95019	10.0	9.55	
90 m-Xylene & p-Xylene	106	7.347	7.347	0.000	96	130036	10.0	9.56	
91 o-Xylene	106	7.668	7.668	0.000	97	150288	10.0	9.94	
92 Styrene	104	7.689	7.689	0.000	94	204430	10.0	9.58	
95 Bromoform	173	7.876	7.876	0.000	94	51711	10.0	9.57	
94 Isopropylbenzene	105	7.948	7.948	0.000	96	384329	10.0	9.29	
101 Bromobenzene	156	8.228	8.228	0.000	93	94712	10.0	9.23	
97 1,1,2,2-Tetrachloroethane	83	8.249	8.259	-0.010	96	133734	10.0	9.50	
99 N-Propylbenzene	91	8.280	8.280	0.000	99	439984	10.0	9.30	
100 1,2,3-Trichloropropane	110	8.290	8.290	0.000	90	46824	10.0	9.61	
98 trans-1,4-Dichloro-2-butene	53	8.290	8.290	0.000	73	28232	10.0	9.15	
103 2-Chlorotoluene	126	8.363	8.373	-0.010	97	111547	10.0	10.3	
102 1,3,5-Trimethylbenzene	105	8.415	8.414	0.001	96	336657	10.0	9.37	
105 4-Chlorotoluene	126	8.456	8.456	0.000	97	101749	10.0	10.0	
106 tert-Butylbenzene	134	8.684	8.684	0.000	93	63014	10.0	9.10	
107 1,2,4-Trimethylbenzene	105	8.725	8.725	0.000	97	360098	10.0	9.53	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.860	8.860	0.000	94	409932	10.0	9.44	
110 4-Isopropyltoluene	119	8.974	8.974	0.000	97	385569	10.0	9.52	
111 1,3-Dichlorobenzene	146	8.984	8.984	0.000	98	207855	10.0	9.17	
113 1,4-Dichlorobenzene	146	9.057	9.057	0.000	95	217286	10.0	9.72	
115 n-Butylbenzene	91	9.306	9.306	0.000	97	359310	10.0	9.38	
116 1,2-Dichlorobenzene	146	9.368	9.368	0.000	97	236431	10.0	9.64	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.041	0.001	81	44059	10.0	9.29	
119 1,2,4-Trichlorobenzene	180	10.684	10.684	0.000	95	195406	10.0	9.64	
120 Hexachlorobutadiene	225	10.788	10.798	-0.010	95	80074	10.0	10.2	
121 Naphthalene	128	10.902	10.902	0.000	97	675370	10.0	9.71	
122 1,2,3-Trichlorobenzene	180	11.088	11.088	0.000	96	202334	10.0	10.1	
S 126 1,3-Dichloropropene, Total	1				0			18.9	
S 125 1,2-Dichloroethene, Total	1				0			19.5	
S 123 Total BTEX	1				0			47.7	
S 124 Xylenes, Total	1				0			19.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	5.00	Units: uL	
GAS CORP mix_00484	Amount Added:	5.00	Units: uL	
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent

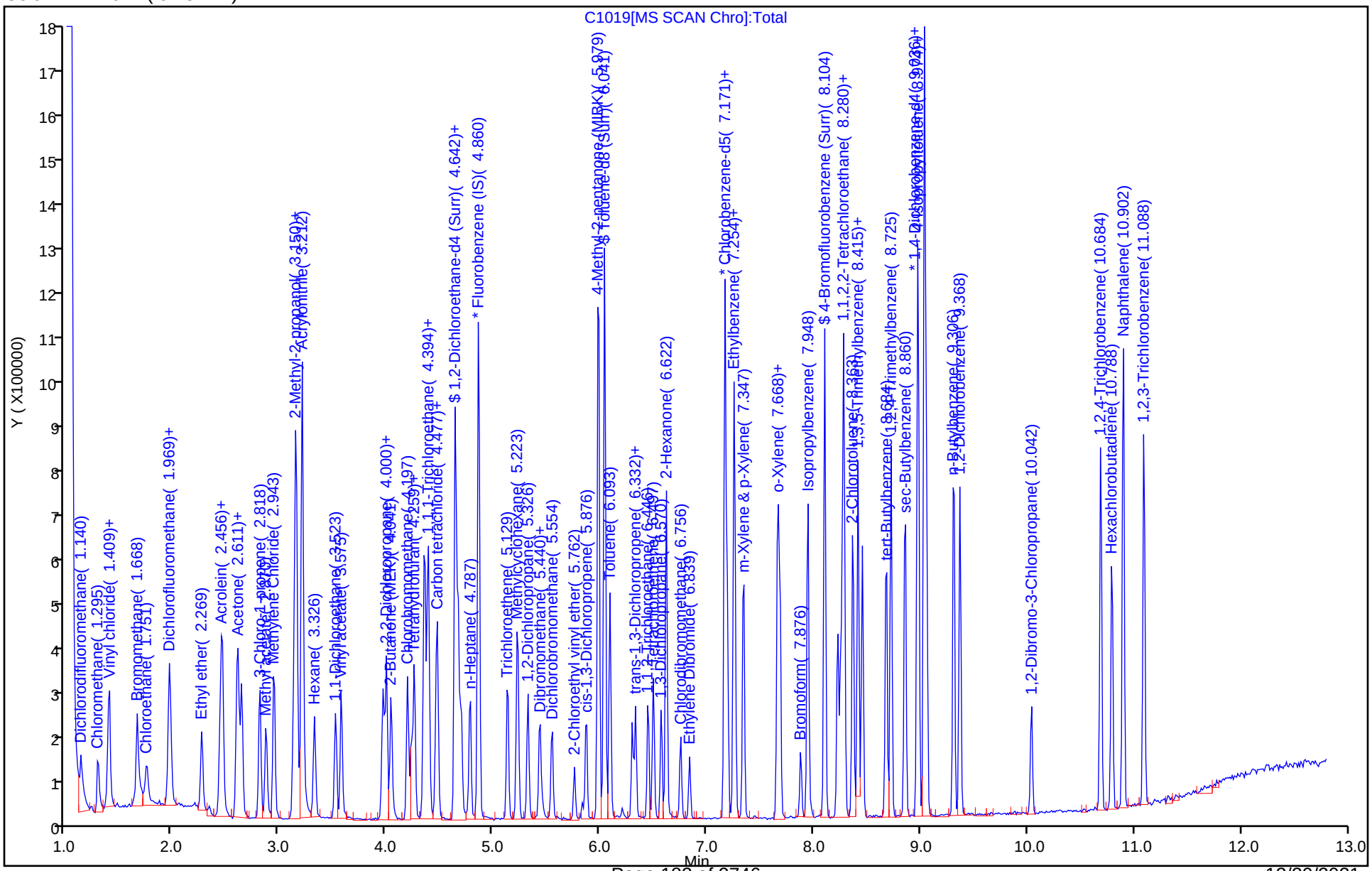
Report Date: 07-Dec-2021 14:04:45 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1019.D

Injection Date:	06-Dec-2021 16:41:30	Instrument ID:	HP5973C	Operator ID:	wd
Lims ID:	IC 4			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

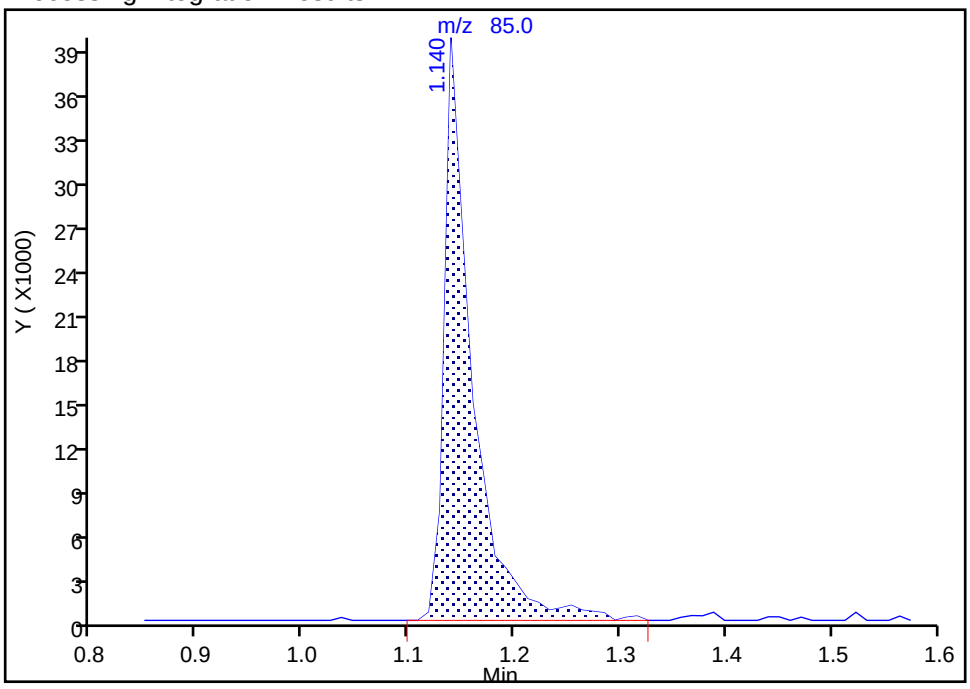
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1019.D
Injection Date: 06-Dec-2021 16:41:30 Instrument ID: HP5973C
Lims ID: IC 4
Client ID:
Operator ID: wd ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

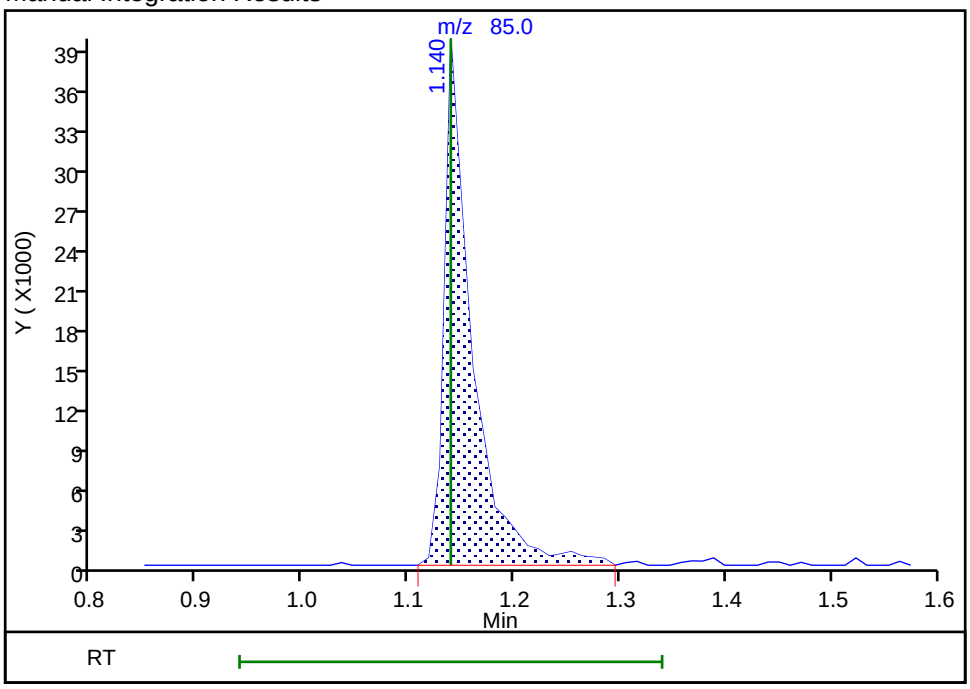
Processing Integration Results

RT: 1.14
Area: 73295
Amount: 8.240783
Amount Units: ug/L



Manual Integration Results

RT: 1.14
Area: 72981
Amount: 7.695466
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:38:47
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

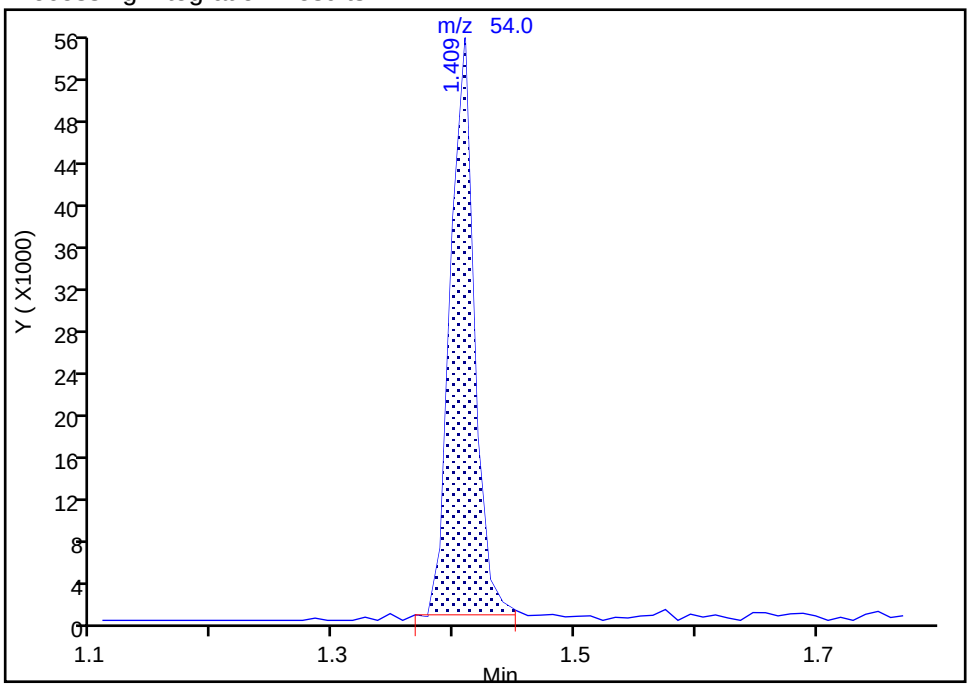
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1019.D
Injection Date: 06-Dec-2021 16:41:30 Instrument ID: HP5973C
Lims ID: IC 4
Client ID:
Operator ID: wd ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

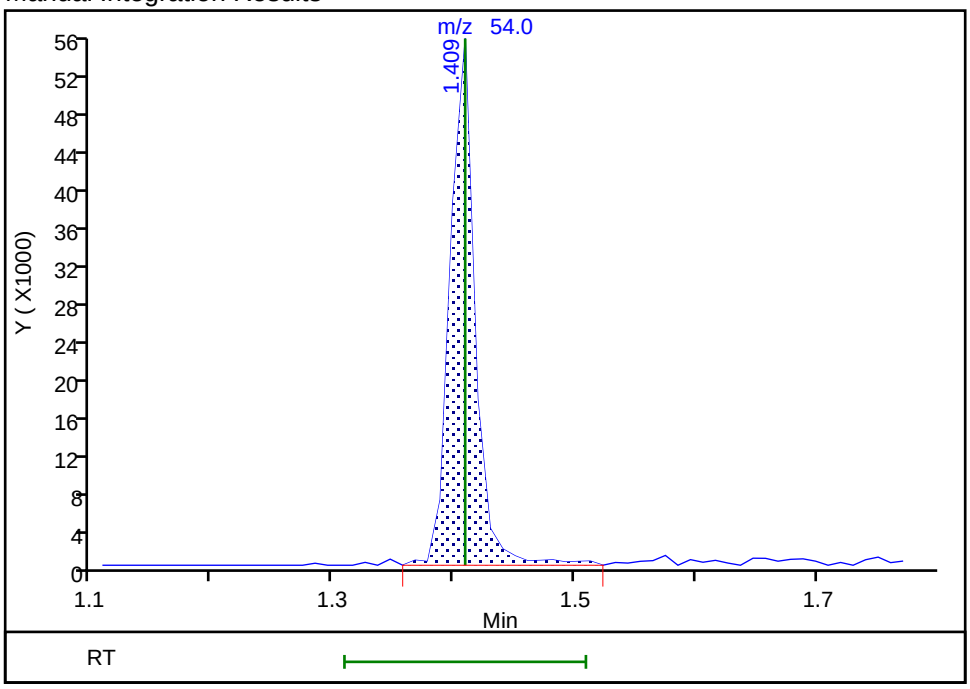
Processing Integration Results

RT: 1.41
Area: 75390
Amount: 7.480273
Amount Units: ug/L



Manual Integration Results

RT: 1.41
Area: 80034
Amount: 8.654111
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:37:15
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1020.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 06-Dec-2021 17:04:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0102880-010
Operator ID: wd Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Dec-2021 14:04:49 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: dahnw Date: 07-Dec-2021 08:56:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	159656	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	309058	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	94	408706	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.394	4.394	0.000	92	287924	25.0	25.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	97	140721	25.0	25.9	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	93	715771	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	87	252704	25.0	25.6	
10 Dichlorodifluoromethane	85	1.140	1.140	0.000	99	330844	25.0	28.9	
12 Chloromethane	50	1.295	1.295	0.000	99	319093	25.0	24.2	
13 Vinyl chloride	62	1.388	1.388	0.000	97	317412	25.0	26.7	
151 Butadiene	54	1.409	1.409	0.000	97	300417	25.0	28.3	M
14 Bromomethane	94	1.668	1.668	0.000	92	210513	25.0	25.8	
15 Chloroethane	64	1.751	1.751	0.000	98	187194	25.0	26.7	
16 Dichlorofluoromethane	67	1.969	1.969	0.000	94	489409	25.0	23.8	
17 Trichlorofluoromethane	101	1.969	1.969	0.000	84	487254	25.0	30.5	
18 Ethyl ether	59	2.269	2.269	0.000	94	220161	25.0	23.0	
20 Acrolein	56	2.445	2.445	0.000	99	230977	125.0	113.9	
21 112TCTFE	101	2.456	2.456	0.000	92	273102	25.0	30.0	
22 1,1-Dichloroethene	96	2.466	2.466	0.000	98	261061	25.0	26.2	
23 Acetone	43	2.601	2.601	0.000	98	830202	125.0	119.6	
25 Iodomethane	142	2.611	2.611	0.000	99	529348	25.0	23.5	
26 Carbon disulfide	76	2.642	2.642	0.000	100	887754	25.0	24.7	
28 3-Chloro-1-propene	41	2.818	2.818	0.000	89	442087	25.0	23.9	
27 Methyl acetate	43	2.870	2.870	0.000	98	639874	50.0	48.6	
30 Methylene Chloride	84	2.943	2.943	0.000	95	312792	25.0	25.8	
31 2-Methyl-2-propanol	59	3.140	3.140	0.000	99	877717	250.0	240.4	
34 trans-1,2-Dichloroethene	96	3.150	3.150	0.000	71	302406	25.0	24.6	
32 Methyl tert-butyl ether	73	3.150	3.150	0.000	99	907105	25.0	23.7	
33 Acrylonitrile	53	3.212	3.212	0.000	97	1801824	250.0	241.9	
35 Hexane	57	3.326	3.326	0.000	94	295995	25.0	26.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.523	3.523	0.000	96	477990	25.0	24.0	
37 Vinyl acetate	43	3.575	3.575	0.000	97	995447	50.0	50.3	
44 2,2-Dichloropropane	77	3.969	3.969	0.000	92	411520	25.0	24.2	
45 cis-1,2-Dichloroethene	96	4.000	4.000	0.000	79	320093	25.0	23.4	
43 2-Butanone (MEK)	43	4.041	4.041	0.000	99	800955	125.0	122.7	
48 Chlorobromomethane	128	4.197	4.197	0.000	93	186017	25.0	24.3	
49 Tetrahydrofuran	42	4.228	4.228	0.000	86	248533	50.0	49.5	
50 Chloroform	83	4.259	4.259	0.000	95	491004	25.0	23.7	
51 1,1,1-Trichloroethane	97	4.352	4.352	0.000	97	439476	25.0	25.0	
52 Cyclohexane	56	4.352	4.352	0.000	92	453047	25.0	29.5	
55 Carbon tetrachloride	117	4.466	4.466	0.000	96	385358	25.0	26.6	
54 1,1-Dichloropropene	75	4.477	4.477	0.000	92	290744	25.0	25.8	
57 Benzene	78	4.642	4.642	0.000	97	858621	25.0	24.1	
53 Isobutyl alcohol	43	4.673	4.673	0.000	92	649132	625.0	603.6	
58 1,2-Dichloroethane	62	4.705	4.705	0.000	97	342485	25.0	22.9	
59 n-Heptane	43	4.777	4.777	0.000	95	318048	25.0	27.2	
62 Trichloroethene	95	5.129	5.129	0.000	97	227014	25.0	25.0	
64 Methylcyclohexane	83	5.223	5.223	0.000	94	447753	25.0	26.4	
65 1,2-Dichloropropane	63	5.326	5.326	0.000	87	190548	25.0	23.5	
67 Dibromomethane	93	5.430	5.430	0.000	96	165914	25.0	23.7	
66 1,4-Dioxane	88	5.451	5.451	0.000	93	105043	500.0	483.1	
68 Dichlorobromomethane	83	5.554	5.554	0.000	97	281757	25.0	24.5	
69 2-Chloroethyl vinyl ether	63	5.762	5.762	0.000	94	103794	25.0	24.1	
72 cis-1,3-Dichloropropene	75	5.876	5.876	0.000	92	276713	25.0	25.7	
73 4-Methyl-2-pentanone (MIBK)	43	5.979	5.979	0.000	98	1906820	125.0	120.4	
74 Toluene	92	6.093	6.093	0.000	97	480344	25.0	24.1	
77 trans-1,3-Dichloropropene	75	6.300	6.300	0.000	97	238175	25.0	23.9	
75 Ethyl methacrylate	69	6.332	6.332	0.000	90	265824	25.0	23.8	
79 1,1,2-Trichloroethane	83	6.446	6.446	0.000	94	150114	25.0	23.4	
81 Tetrachloroethene	166	6.497	6.497	0.000	95	217488	25.0	24.5	
82 1,3-Dichloropropane	76	6.570	6.570	0.000	94	284528	25.0	23.9	
80 2-Hexanone	43	6.622	6.622	0.000	98	1107312	125.0	122.9	
83 Chlorodibromomethane	129	6.756	6.756	0.000	89	211685	25.0	24.0	
84 Ethylene Dibromide	107	6.839	6.839	0.000	100	201232	25.0	23.4	
87 Chlorobenzene	112	7.192	7.192	0.000	95	586379	25.0	23.2	
88 Ethylbenzene	91	7.254	7.254	0.000	99	997287	25.0	23.8	
89 1,1,1,2-Tetrachloroethane	131	7.264	7.264	0.000	93	267842	25.0	22.4	
90 m-Xylene & p-Xylene	106	7.347	7.347	0.000	96	389087	25.0	23.8	
91 o-Xylene	106	7.658	7.658	0.000	98	433543	25.0	23.9	
92 Styrene	104	7.679	7.679	0.000	96	612964	25.0	23.9	
95 Bromoform	173	7.876	7.876	0.000	95	154691	25.0	23.8	
94 Isopropylbenzene	105	7.948	7.948	0.000	96	1182029	25.0	24.6	
101 Bromobenzene	156	8.228	8.228	0.000	92	270159	25.0	22.7	
97 1,1,2,2-Tetrachloroethane	83	8.249	8.249	0.000	97	375882	25.0	23.0	
99 N-Propylbenzene	91	8.280	8.280	0.000	99	1364663	25.0	24.9	
100 1,2,3-Trichloropropane	110	8.290	8.290	0.000	89	132811	25.0	23.5	
98 trans-1,4-Dichloro-2-butene	53	8.290	8.290	0.000	74	93894	25.0	26.3	
103 2-Chlorotoluene	126	8.363	8.363	0.000	97	309972	25.0	24.7	
102 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	96	1026594	25.0	24.7	
105 4-Chlorotoluene	126	8.456	8.456	0.000	98	278936	25.0	23.7	
106 tert-Butylbenzene	134	8.684	8.684	0.000	93	216860	25.0	27.0	
107 1,2,4-Trimethylbenzene	105	8.725	8.725	0.000	97	1056139	25.0	24.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.860	8.860	0.000	94	1312124	25.0	26.1	
110 4-Isopropyltoluene	119	8.974	8.974	0.000	97	1220848	25.0	26.0	
111 1,3-Dichlorobenzene	146	8.984	8.984	0.000	99	609722	25.0	23.2	
113 1,4-Dichlorobenzene	146	9.057	9.057	0.000	93	605608	25.0	23.4	
115 n-Butylbenzene	91	9.306	9.306	0.000	98	1093847	25.0	24.6	
116 1,2-Dichlorobenzene	146	9.368	9.368	0.000	97	651102	25.0	22.9	
117 1,2-Dibromo-3-Chloropropane	75	10.041	10.041	0.000	84	117368	25.0	21.4	
119 1,2,4-Trichlorobenzene	180	10.684	10.684	0.000	94	547574	25.0	23.3	
120 Hexachlorobutadiene	225	10.798	10.798	0.000	94	226483	25.0	24.9	
121 Naphthalene	128	10.902	10.902	0.000	97	1925824	25.0	23.9	
122 1,2,3-Trichlorobenzene	180	11.088	11.088	0.000	95	531262	25.0	22.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	12.50	Units: uL	
GAS CORP mix_00484	Amount Added:	12.50	Units: uL	
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent

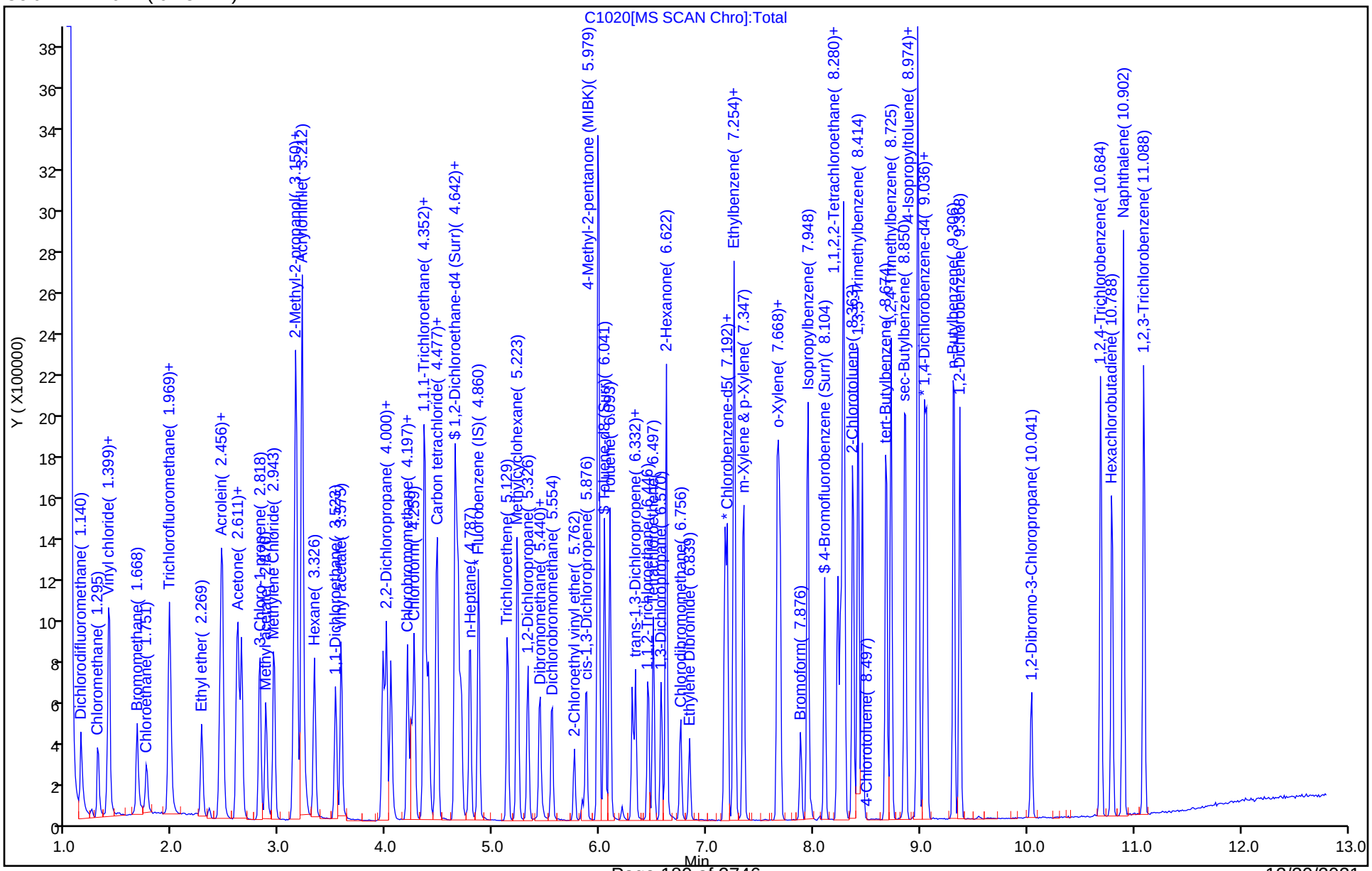
Report Date: 07-Dec-2021 14:04:51 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1020.D

Injection Date:	06-Dec-2021 17:04:30	Instrument ID:	HP5973C	Operator ID:	wd
Lims ID:	ICIS 5			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

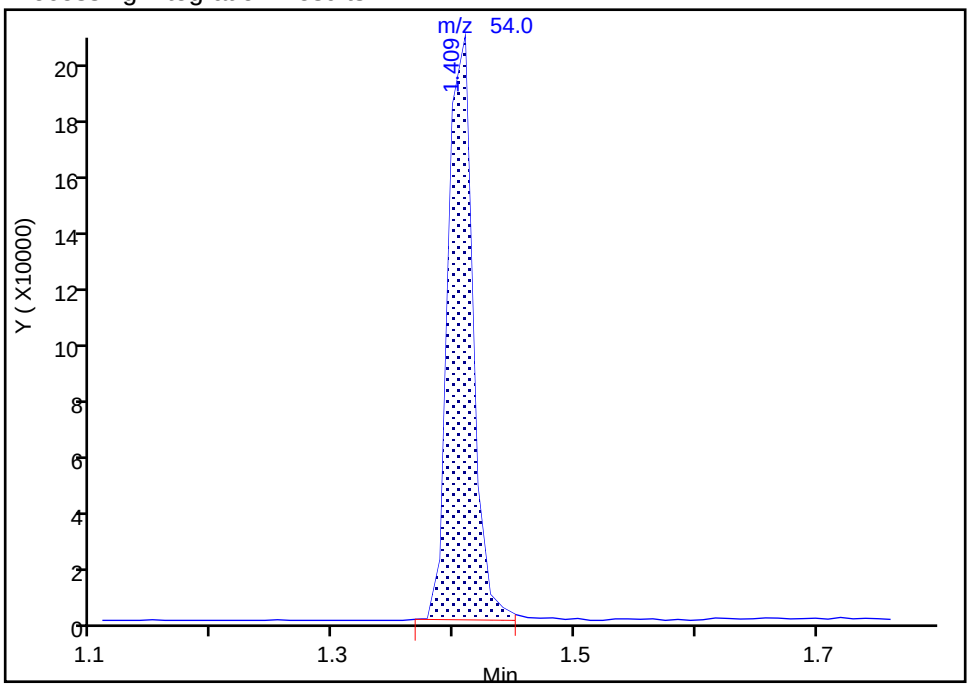
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1020.D
Injection Date: 06-Dec-2021 17:04:30 Instrument ID: HP5973C
Lims ID: ICIS 5
Client ID:
Operator ID: wd ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

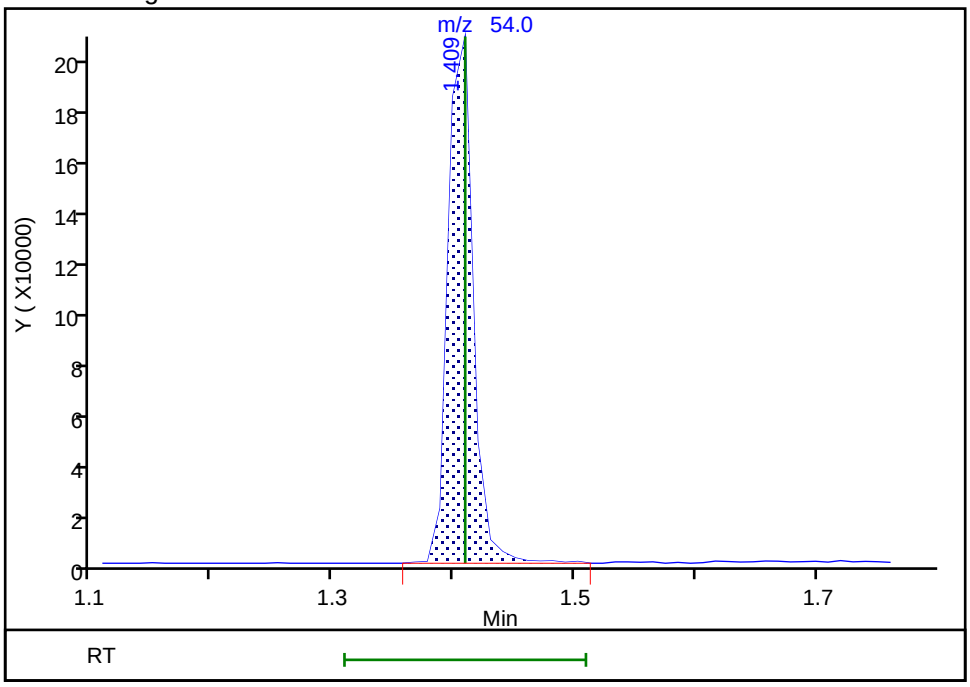
Processing Integration Results

RT: 1.41
Area: 297056
Amount: 25.491902
Amount Units: ug/L



Manual Integration Results

RT: 1.41
Area: 300417
Amount: 28.257054
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:37:41
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1021.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 06-Dec-2021 17:27:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0102880-011
Operator ID: wd Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Dec-2021 14:04:53 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: dahnw Date: 07-Dec-2021 09:38:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	162495	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	83	288215	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	94	362269	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.394	4.394	0.000	93	268645	25.0	23.7	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	94	138594	25.0	25.1	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	94	705457	25.0	26.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	88	241649	25.0	26.2	
10 Dichlorodifluoromethane	85	1.140	1.140	0.000	99	604869	50.0	51.4	M
12 Chloromethane	50	1.306	1.295	0.011	99	630951	50.0	47.1	
13 Vinyl chloride	62	1.399	1.388	0.011	98	599983	50.0	49.5	
151 Butadiene	54	1.409	1.409	0.000	92	558994	50.0	51.7	M
14 Bromomethane	94	1.668	1.668	0.000	92	417598	50.0	51.3	
15 Chloroethane	64	1.762	1.751	0.011	98	365542	50.0	51.8	
17 Trichlorofluoromethane	101	1.969	1.969	0.000	83	897872	50.0	55.3	
16 Dichlorofluoromethane	67	1.969	1.969	0.000	94	955036	50.0	45.6	
18 Ethyl ether	59	2.269	2.269	0.000	93	468432	50.0	48.0	
20 Acrolein	56	2.445	2.445	0.000	99	515275	250.0	249.8	
21 112TCTFE	101	2.456	2.456	0.000	93	537263	50.0	58.0	
22 1,1-Dichloroethene	96	2.466	2.466	0.000	97	523330	50.0	51.6	
23 Acetone	43	2.601	2.601	0.000	98	1702279	250.0	240.9	
25 Iodomethane	142	2.611	2.611	0.000	99	1119834	50.0	48.8	
26 Carbon disulfide	76	2.642	2.642	0.000	100	1817580	50.0	49.6	
28 3-Chloro-1-propene	41	2.819	2.818	0.001	87	905472	50.0	48.2	
27 Methyl acetate	43	2.870	2.870	0.000	98	1325544	100.0	99.0	
30 Methylene Chloride	84	2.953	2.943	0.010	94	638675	50.0	52.3	
31 2-Methyl-2-propanol	59	3.140	3.140	0.000	98	1824079	500.0	490.9	
34 trans-1,2-Dichloroethene	96	3.161	3.150	0.011	98	628452	50.0	50.3	
32 Methyl tert-butyl ether	73	3.161	3.150	0.011	99	1880858	50.0	48.2	
33 Acrylonitrile	53	3.212	3.212	0.000	98	3763310	500.0	496.3	
35 Hexane	57	3.326	3.326	0.000	94	564301	50.0	49.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.523	3.523	0.000	96	1000408	50.0	49.3	
37 Vinyl acetate	43	3.575	3.575	0.000	97	2136076	100.0	106.0	
44 2,2-Dichloropropane	77	3.969	3.969	0.000	90	844904	50.0	48.9	
45 cis-1,2-Dichloroethene	96	4.000	4.000	0.000	80	662196	50.0	47.5	
43 2-Butanone (MEK)	43	4.041	4.041	0.000	100	1697350	250.0	255.6	
48 Chlorobromomethane	128	4.197	4.197	0.000	91	381331	50.0	48.9	
49 Tetrahydrofuran	42	4.228	4.228	0.000	87	510027	100.0	99.8	
50 Chloroform	83	4.259	4.259	0.000	94	1022456	50.0	48.5	
51 1,1,1-Trichloroethane	97	4.352	4.352	0.000	98	904973	50.0	50.5	
52 Cyclohexane	56	4.363	4.352	0.011	92	887475	50.0	56.8	
55 Carbon tetrachloride	117	4.466	4.466	0.000	96	799152	50.0	54.1	
54 1,1-Dichloropropene	75	4.477	4.477	0.000	91	600023	50.0	52.3	
57 Benzene	78	4.642	4.642	0.000	97	1809401	50.0	50.0	
53 Isobutyl alcohol	43	4.674	4.673	0.001	92	1365554	1250.0	1247.6	
58 1,2-Dichloroethane	62	4.705	4.705	0.001	97	732889	50.0	48.2	
59 n-Heptane	43	4.788	4.777	0.011	93	600396	50.0	50.1	
62 Trichloroethene	95	5.130	5.129	0.001	95	457957	50.0	49.5	
64 Methylcyclohexane	83	5.223	5.223	0.000	93	874585	50.0	50.2	
65 1,2-Dichloropropane	63	5.326	5.326	0.000	90	406573	50.0	49.4	
67 Dibromomethane	93	5.430	5.430	0.000	96	352563	50.0	49.4	
66 1,4-Dioxane	88	5.451	5.451	0.000	95	209046	1000.0	1030.9	
68 Dichlorobromomethane	83	5.554	5.554	0.000	97	593899	50.0	50.6	
69 2-Chloroethyl vinyl ether	63	5.762	5.762	0.000	95	224242	50.0	51.1	
72 cis-1,3-Dichloropropene	75	5.876	5.876	0.000	92	582241	50.0	53.2	
73 4-Methyl-2-pentanone (MIBK)	43	5.979	5.979	0.000	98	4025768	250.0	272.5	
74 Toluene	92	6.093	6.093	0.000	97	1001166	50.0	54.0	
77 trans-1,3-Dichloropropene	75	6.301	6.300	0.001	97	507296	50.0	54.6	
75 Ethyl methacrylate	69	6.332	6.332	0.000	91	541743	50.0	52.1	
79 1,1,2-Trichloroethane	83	6.446	6.446	0.000	92	309628	50.0	51.7	
81 Tetrachloroethene	166	6.497	6.497	0.000	92	429109	50.0	51.9	
82 1,3-Dichloropropane	76	6.570	6.570	0.000	93	592995	50.0	53.4	
80 2-Hexanone	43	6.622	6.622	0.000	98	2241394	250.0	266.8	
83 Chlorodibromomethane	129	6.757	6.756	0.000	90	448877	50.0	54.7	
84 Ethylene Dibromide	107	6.839	6.839	0.000	100	411875	50.0	51.3	
87 Chlorobenzene	112	7.192	7.192	0.000	95	1200476	50.0	50.9	
88 Ethylbenzene	91	7.254	7.254	0.000	98	2055161	50.0	52.6	
89 1,1,1,2-Tetrachloroethane	131	7.264	7.264	0.000	93	586831	50.0	52.7	
90 m-Xylene & p-Xylene	106	7.347	7.347	0.000	96	813377	50.0	53.4	
91 o-Xylene	106	7.668	7.658	0.010	97	908043	50.0	53.6	
92 Styrene	104	7.689	7.679	0.010	96	1299531	50.0	54.4	
95 Bromoform	173	7.876	7.876	0.000	95	332299	50.0	54.9	
94 Isopropylbenzene	105	7.948	7.948	0.000	96	2461642	50.0	57.9	
101 Bromobenzene	156	8.228	8.228	0.000	93	569941	50.0	54.1	
97 1,1,2,2-Tetrachloroethane	83	8.249	8.249	0.000	97	764899	50.0	52.9	
99 N-Propylbenzene	91	8.280	8.280	0.000	99	2788546	50.0	57.4	
100 1,2,3-Trichloropropane	110	8.290	8.290	0.000	88	263879	50.0	52.8	
98 trans-1,4-Dichloro-2-butene	53	8.290	8.290	0.000	73	200179	50.0	63.2	
103 2-Chlorotoluene	126	8.363	8.363	0.000	97	617511	50.0	55.6	
102 1,3,5-Trimethylbenzene	105	8.415	8.414	0.001	96	2091603	50.0	56.7	
105 4-Chlorotoluene	126	8.456	8.456	0.000	97	581951	50.0	55.8	
106 tert-Butylbenzene	134	8.684	8.684	0.000	93	446077	50.0	62.7	
107 1,2,4-Trimethylbenzene	105	8.725	8.725	0.000	97	2230663	50.0	57.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.860	8.860	0.000	94	2713493	50.0	60.8	
110 4-Isopropyltoluene	119	8.974	8.974	0.000	97	2529154	50.0	60.8	
111 1,3-Dichlorobenzene	146	8.985	8.984	0.001	98	1198716	50.0	51.5	
113 1,4-Dichlorobenzene	146	9.057	9.057	0.000	94	1234431	50.0	53.8	
115 n-Butylbenzene	91	9.306	9.306	0.000	98	2255868	50.0	57.3	
116 1,2-Dichlorobenzene	146	9.368	9.368	0.000	97	1311705	50.0	52.1	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.041	0.001	85	251687	50.0	51.7	
119 1,2,4-Trichlorobenzene	180	10.684	10.684	0.000	94	1085356	50.0	52.1	
120 Hexachlorobutadiene	225	10.788	10.798	-0.010	96	470448	50.0	58.4	
121 Naphthalene	128	10.902	10.902	0.000	96	4008278	50.0	56.1	
122 1,2,3-Trichlorobenzene	180	11.088	11.088	0.000	96	1105771	50.0	53.7	
S 126 1,3-Dichloropropene, Total	1				0			107.7	
S 125 1,2-Dichloroethene, Total	1				0			97.8	
S 123 Total BTEX	1				0			263.6	
S 124 Xylenes, Total	1				0			107.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	25.00	Units: uL	
GAS CORP mix_00484	Amount Added:	25.00	Units: uL	
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent

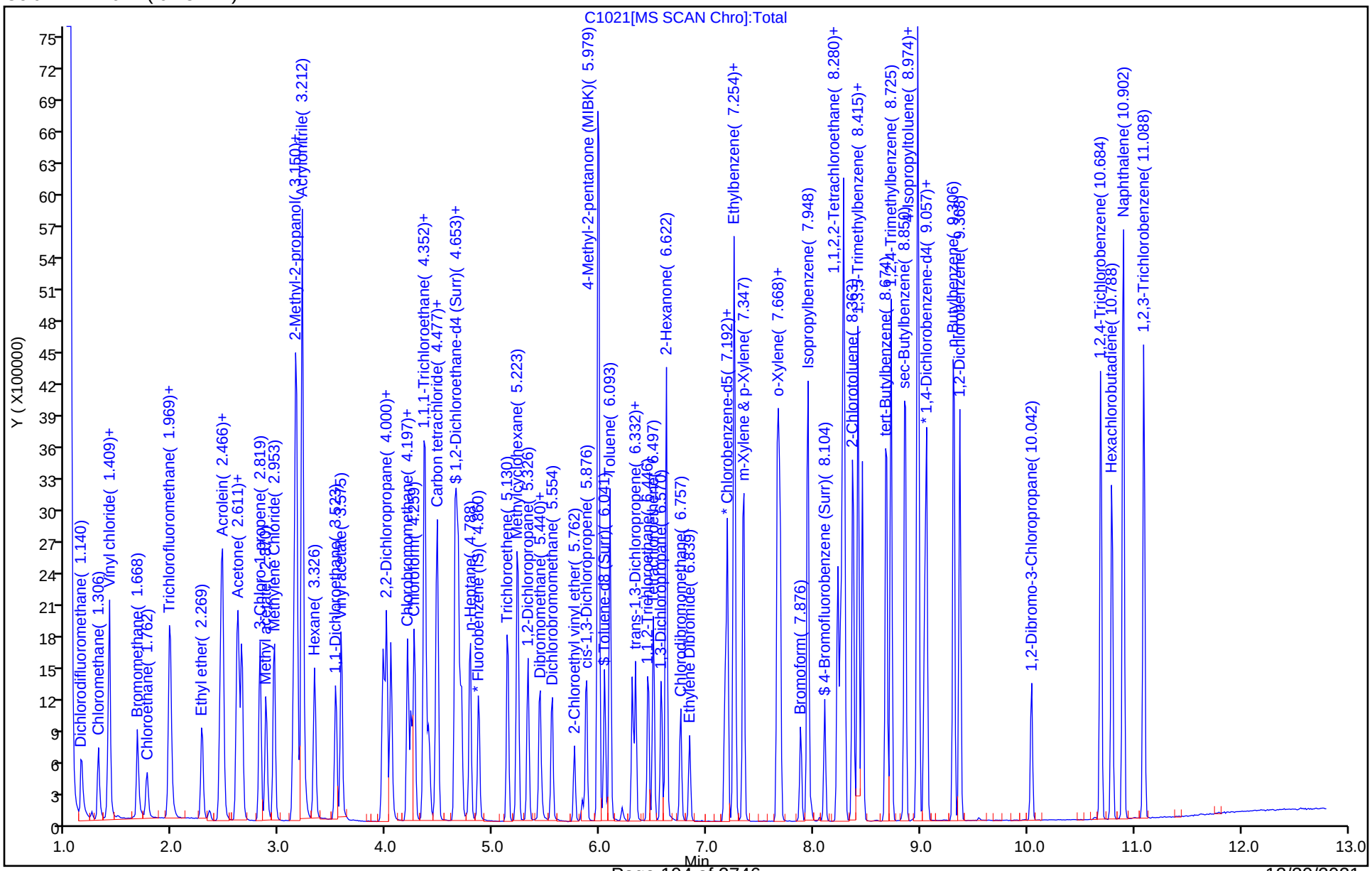
Report Date: 07-Dec-2021 14:04:55 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1021.D

Injection Date:	06-Dec-2021 17:27:30	Instrument ID:	HP5973C	Operator ID:	wd
Lims ID:	IC 6			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

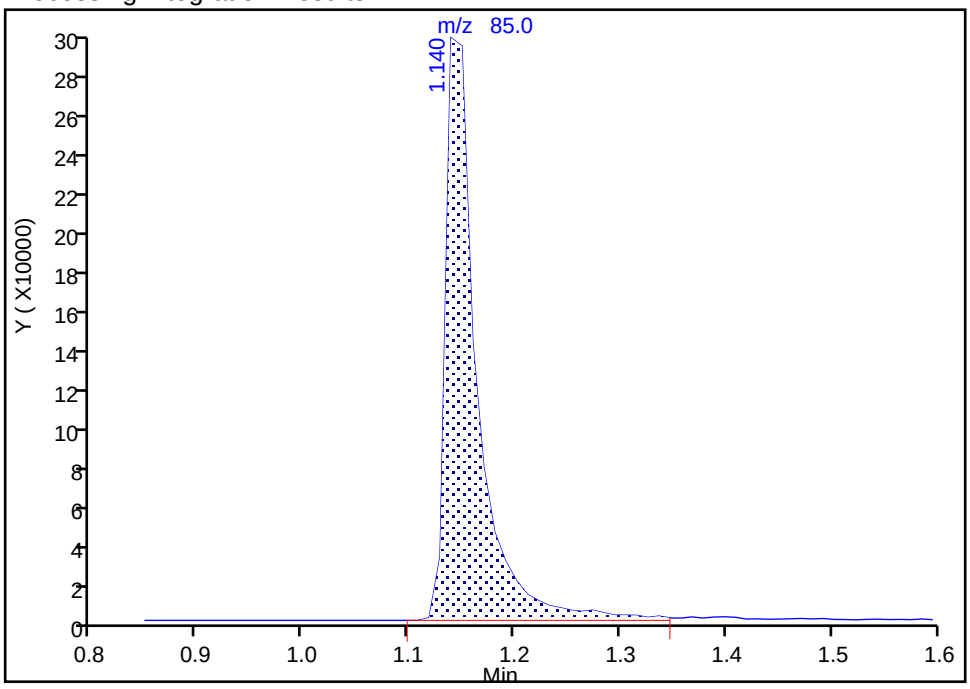
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1021.D
Injection Date: 06-Dec-2021 17:27:30 Instrument ID: HP5973C
Lims ID: IC 6
Client ID:
Operator ID: wd ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

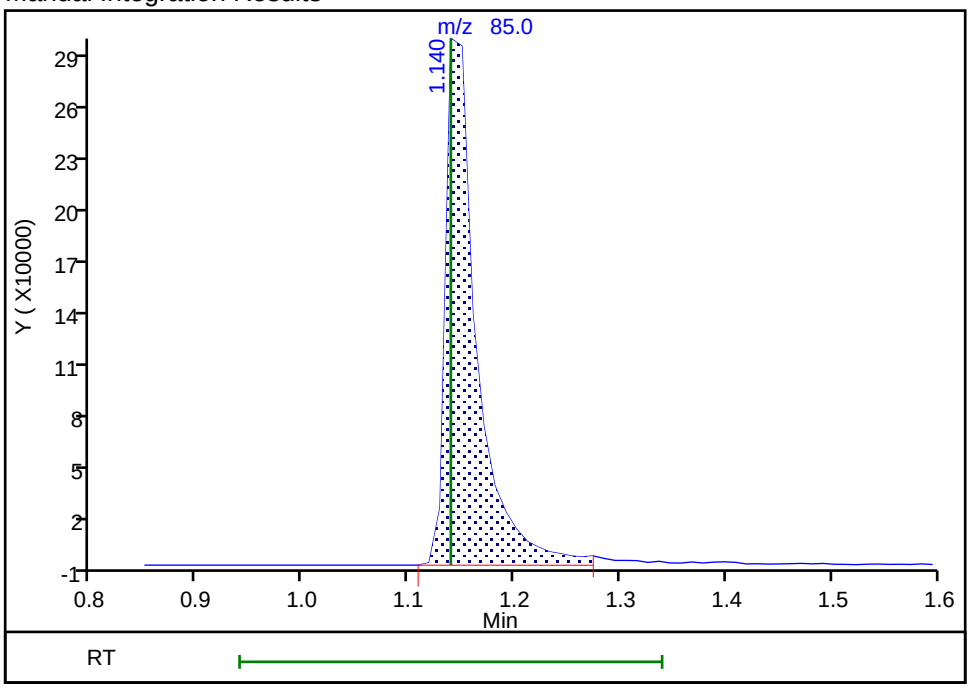
Processing Integration Results

RT: 1.14
Area: 614530
Amount: 58.532420
Amount Units: ug/L



Manual Integration Results

RT: 1.14
Area: 604869
Amount: 51.440767
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:40:14
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

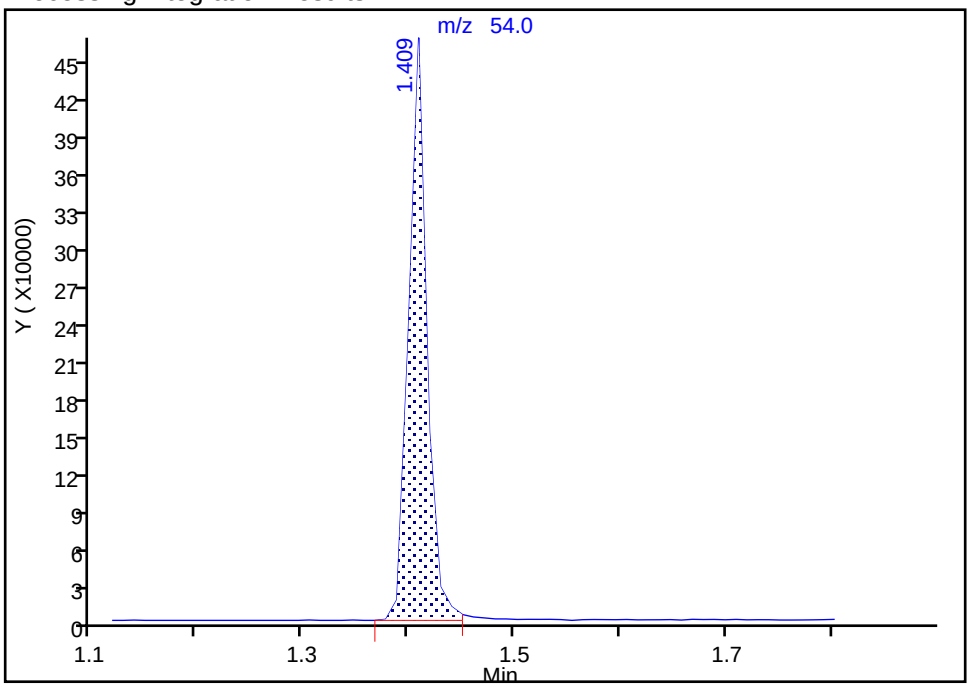
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1021.D
Injection Date: 06-Dec-2021 17:27:30 Instrument ID: HP5973C
Lims ID: IC 6
Client ID:
Operator ID: wd ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

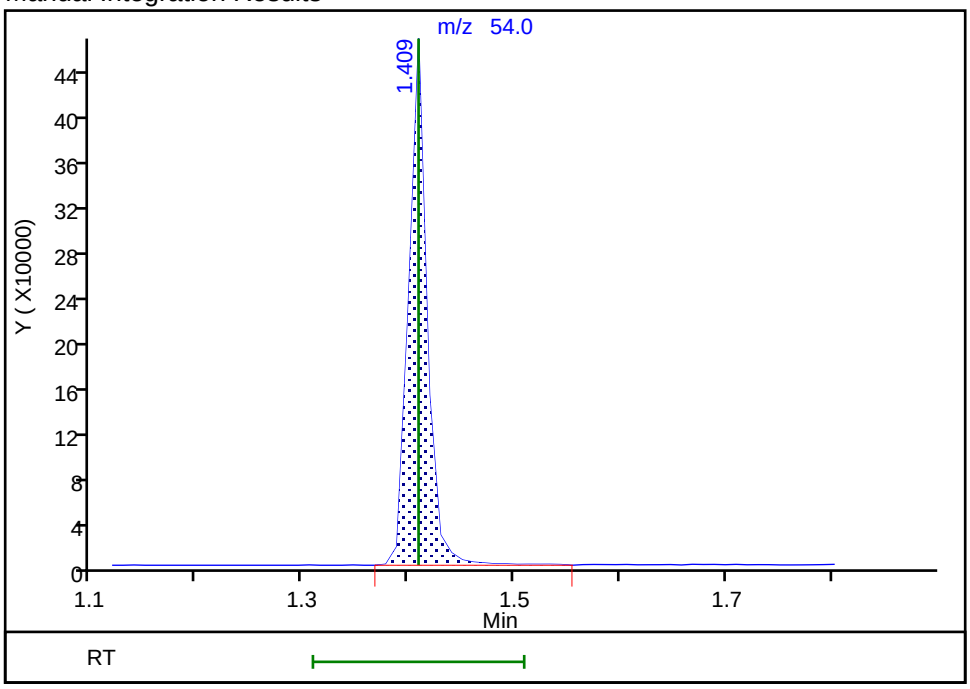
Processing Integration Results

RT: 1.41
Area: 552237
Amount: 46.495273
Amount Units: ug/L



Manual Integration Results

RT: 1.41
Area: 558994
Amount: 51.660044
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:40:26
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1022.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 06-Dec-2021 17:50:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0102880-012
Operator ID: wd Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Dec-2021 14:04:59 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: dahnw Date: 07-Dec-2021 09:43:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	178072	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	84	325296	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	92	410208	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.394	4.394	0.000	92	290712	25.0	23.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	95	143927	25.0	23.8	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	93	729302	25.0	24.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	87	245121	25.0	23.6	
10 Dichlorodifluoromethane	85	1.140	1.140	0.000	99	1259384	100.0	97.3	M
12 Chloromethane	50	1.306	1.295	0.011	99	1332394	100.0	90.8	
13 Vinyl chloride	62	1.388	1.388	0.000	98	1232082	100.0	92.8	
151 Butadiene	54	1.409	1.409	0.000	95	1144965	100.0	96.6	M
14 Bromomethane	94	1.668	1.668	0.000	92	856195	100.0	96.8	
15 Chloroethane	64	1.762	1.751	0.011	99	743146	100.0	96.5	
17 Trichlorofluoromethane	101	1.969	1.969	0.000	87	1870159	100.0	105.1	
16 Dichlorofluoromethane	67	1.969	1.969	0.000	94	1981487	100.0	86.4	
18 Ethyl ether	59	2.269	2.269	0.000	93	936607	100.0	87.6	
20 Acrolein	56	2.445	2.445	0.000	100	1161929	500.0	513.9	
21 112TCTFE	101	2.456	2.456	0.000	92	1111842	100.0	109.5	
22 1,1-Dichloroethene	96	2.466	2.466	0.000	97	1073339	100.0	96.7	
23 Acetone	43	2.601	2.601	0.000	98	3646374	500.0	470.8	
25 Iodomethane	142	2.611	2.611	0.000	99	2258896	100.0	89.8	
26 Carbon disulfide	76	2.642	2.642	0.000	100	3785349	100.0	94.3	
28 3-Chloro-1-propene	41	2.819	2.818	0.001	88	1870182	100.0	90.8	
27 Methyl acetate	43	2.870	2.870	0.000	98	2798988	200.0	190.7	
30 Methylene Chloride	84	2.943	2.943	0.000	96	1282164	100.0	96.3	
31 2-Methyl-2-propanol	59	3.129	3.140	-0.011	99	3983430	1000.0	978.2	
34 trans-1,2-Dichloroethene	96	3.150	3.150	0.000	98	1263235	100.0	92.2	
32 Methyl tert-butyl ether	73	3.150	3.150	0.000	99	3870337	100.0	90.5	
33 Acrylonitrile	53	3.212	3.212	0.000	98	7800958	1000.0	938.8	
35 Hexane	57	3.326	3.326	0.000	94	1255401	100.0	100.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.523	3.523	0.000	96	2046037	100.0	91.9	
37 Vinyl acetate	43	3.575	3.575	0.000	97	4834424	200.0	218.9	
44 2,2-Dichloropropane	77	3.969	3.969	0.000	91	1730242	100.0	91.4	
45 cis-1,2-Dichloroethene	96	4.000	4.000	0.000	80	1351008	100.0	88.5	
43 2-Butanone (MEK)	43	4.041	4.041	0.000	99	3876008	500.0	532.5	
48 Chlorobromomethane	128	4.197	4.197	0.000	93	778035	100.0	91.0	
49 Tetrahydrofuran	42	4.228	4.228	0.000	86	1137786	200.0	203.1	
50 Chloroform	83	4.259	4.259	0.000	94	2118550	100.0	91.7	
51 1,1,1-Trichloroethane	97	4.352	4.352	0.000	99	1867067	100.0	95.1	
52 Cyclohexane	56	4.363	4.352	0.011	92	1861034	100.0	108.8	
55 Carbon tetrachloride	117	4.466	4.466	0.000	96	1681691	100.0	104.0	
54 1,1-Dichloropropene	75	4.477	4.477	0.000	93	1302608	100.0	103.6	
57 Benzene	78	4.642	4.642	0.000	98	3805275	100.0	95.9	
53 Isobutyl alcohol	43	4.674	4.673	0.001	95	3112371	2500.0	2594.8	
58 1,2-Dichloroethane	62	4.705	4.705	0.001	97	1537638	100.0	92.3	
59 n-Heptane	43	4.788	4.777	0.011	93	1307219	100.0	99.1	
62 Trichloroethene	95	5.130	5.129	0.001	95	1000136	100.0	98.7	
64 Methylcyclohexane	83	5.223	5.223	0.000	92	1917726	100.0	100.0	
65 1,2-Dichloropropane	63	5.326	5.326	0.000	90	880049	100.0	97.5	
67 Dibromomethane	93	5.430	5.430	0.000	95	738629	100.0	94.4	
66 1,4-Dioxane	88	5.451	5.451	0.000	94	486790	2000.0	2126.9	
68 Dichlorobromomethane	83	5.554	5.554	0.000	98	1288944	100.0	100.3	
69 2-Chloroethyl vinyl ether	63	5.762	5.762	0.000	94	500851	100.0	104.2	
72 cis-1,3-Dichloropropene	75	5.876	5.876	0.000	93	1318378	100.0	109.9	
73 4-Methyl-2-pentanone (MIBK)	43	5.979	5.979	0.000	98	8518307	500.0	510.9	
74 Toluene	92	6.093	6.093	0.000	98	2134315	100.0	101.9	
77 trans-1,3-Dichloropropene	75	6.301	6.300	0.001	97	1169956	100.0	111.5	
75 Ethyl methacrylate	69	6.332	6.332	0.000	91	1177235	100.0	100.2	
79 1,1,2-Trichloroethane	83	6.446	6.446	0.000	93	672248	100.0	99.4	
81 Tetrachloroethene	166	6.497	6.497	0.000	94	947649	100.0	101.6	
82 1,3-Dichloropropane	76	6.570	6.570	0.000	94	1281121	100.0	102.2	
80 2-Hexanone	43	6.622	6.622	0.000	98	4728325	500.0	498.7	
83 Chlorodibromomethane	129	6.757	6.756	0.001	89	1011085	100.0	109.1	
84 Ethylene Dibromide	107	6.839	6.839	0.000	100	898753	100.0	99.2	
87 Chlorobenzene	112	7.192	7.192	0.000	95	2624340	100.0	98.6	
88 Ethylbenzene	91	7.254	7.254	0.000	98	4380009	100.0	99.3	
89 1,1,1,2-Tetrachloroethane	131	7.264	7.264	0.000	94	1234961	100.0	98.2	
90 m-Xylene & p-Xylene	106	7.347	7.347	0.000	96	1732478	100.0	100.8	
91 o-Xylene	106	7.668	7.658	0.010	98	1897497	100.0	99.3	
92 Styrene	104	7.689	7.679	0.010	95	2771256	100.0	102.8	
95 Bromoform	173	7.876	7.876	0.000	95	743837	100.0	108.9	
94 Isopropylbenzene	105	7.948	7.948	0.000	96	5315117	100.0	110.4	
101 Bromobenzene	156	8.228	8.228	0.000	93	1186167	100.0	99.4	
97 1,1,2,2-Tetrachloroethane	83	8.259	8.249	0.010	97	1637043	100.0	100.0	
99 N-Propylbenzene	91	8.280	8.280	0.000	99	5879008	100.0	106.8	
100 1,2,3-Trichloropropane	110	8.290	8.290	0.000	87	554921	100.0	98.0	
98 trans-1,4-Dichloro-2-butene	53	8.290	8.290	0.000	77	433209	100.0	120.7	
103 2-Chlorotoluene	126	8.373	8.363	0.010	97	1284953	100.0	102.2	
102 1,3,5-Trimethylbenzene	105	8.415	8.414	0.001	95	4540562	100.0	108.7	
105 4-Chlorotoluene	126	8.456	8.456	0.000	97	1207988	100.0	102.3	
106 tert-Butylbenzene	134	8.684	8.684	0.000	92	1022128	100.0	126.9	
107 1,2,4-Trimethylbenzene	105	8.725	8.725	0.000	97	4750756	100.0	108.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.860	8.860	0.000	94	5991569	100.0	118.6	
110 4-Isopropyltoluene	119	8.974	8.974	0.000	97	5457280	100.0	115.8	
111 1,3-Dichlorobenzene	146	8.985	8.984	0.001	98	2517148	100.0	95.4	
113 1,4-Dichlorobenzene	146	9.057	9.057	0.000	95	2560088	100.0	98.5	
115 n-Butylbenzene	91	9.306	9.306	0.000	97	4865388	100.0	109.2	
116 1,2-Dichlorobenzene	146	9.368	9.368	0.000	98	2731265	100.0	95.7	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.041	0.001	84	548750	100.0	99.5	
119 1,2,4-Trichlorobenzene	180	10.684	10.684	0.000	95	2362665	100.0	100.2	
120 Hexachlorobutadiene	225	10.798	10.798	0.000	97	1055552	100.0	115.7	
121 Naphthalene	128	10.902	10.902	0.000	96	8613750	100.0	106.5	
122 1,2,3-Trichlorobenzene	180	11.088	11.088	0.000	96	2318401	100.0	99.5	
S 126 1,3-Dichloropropene, Total	1				0			221.4	
S 125 1,2-Dichloroethene, Total	1				0			180.7	
S 123 Total BTEX	1				0			497.2	
S 124 Xylenes, Total	1				0			200.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	50.00	Units: uL	
GAS CORP mix_00484	Amount Added:	50.00	Units: uL	
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent

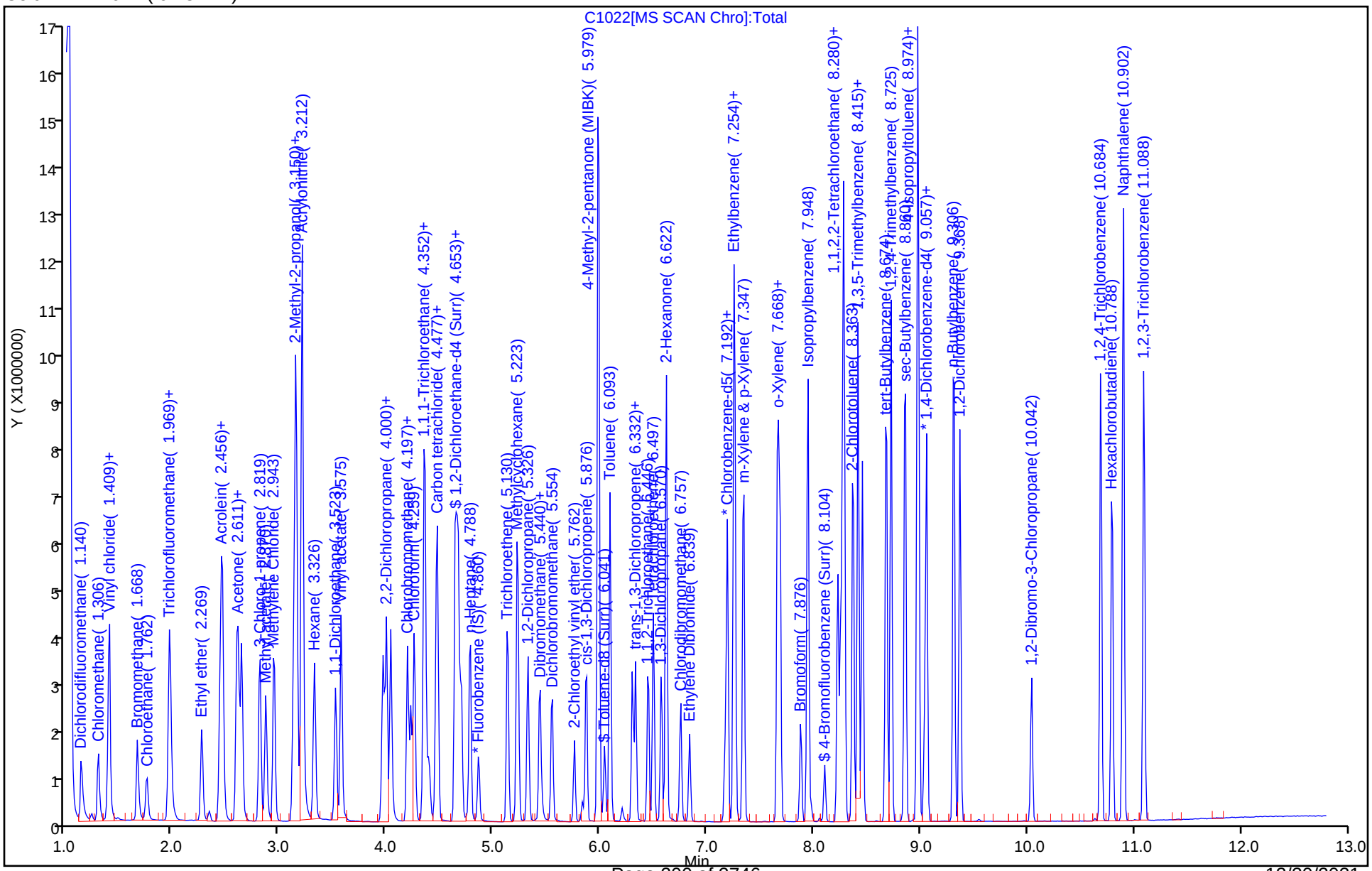
Report Date: 07-Dec-2021 14:05:01 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1022.D

Injection Date:	06-Dec-2021 17:50:30	Instrument ID:	HP5973C	Operator ID:	wd
Lims ID:	IC 7			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

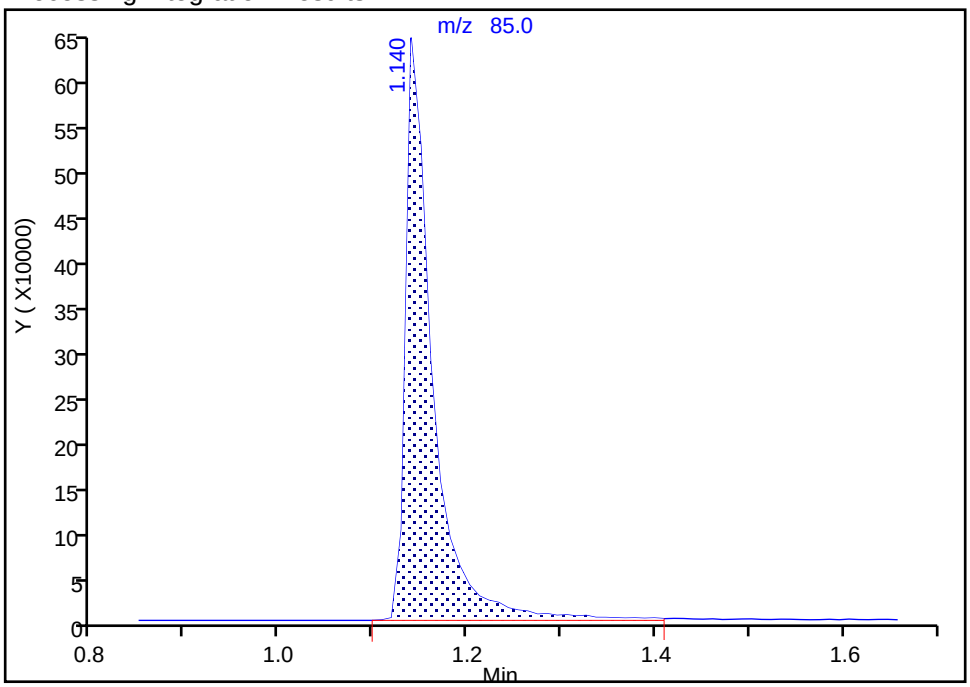
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1022.D
Injection Date: 06-Dec-2021 17:50:30 Instrument ID: HP5973C
Lims ID: IC 7
Client ID:
Operator ID: wd ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

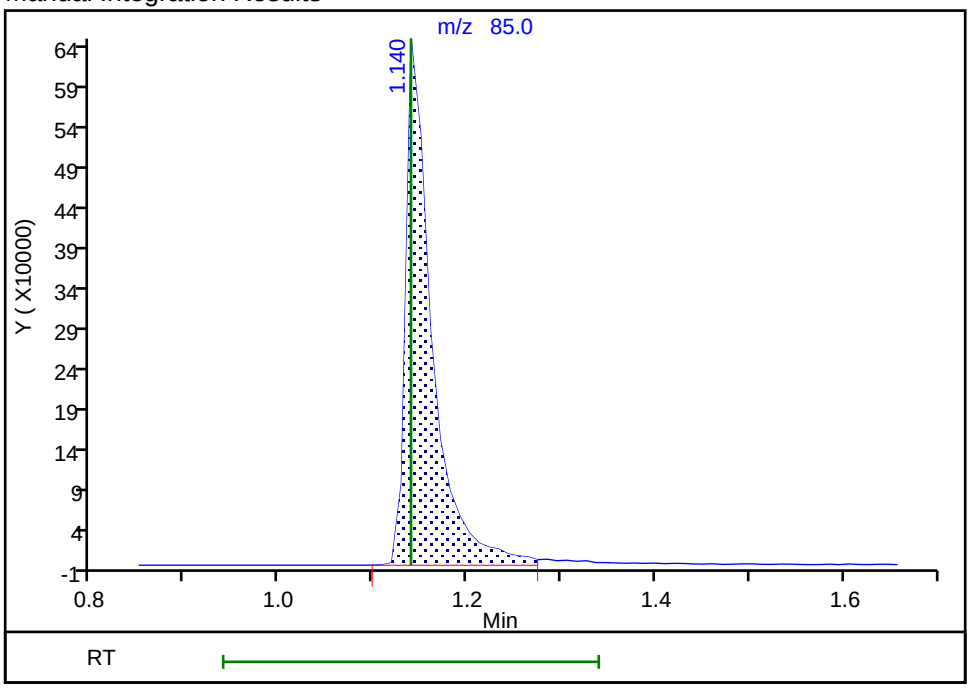
Processing Integration Results

RT: 1.14
Area: 1289740
Amount: 112.3570
Amount Units: ug/L



Manual Integration Results

RT: 1.14
Area: 1259384
Amount: 97.280451
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:42:03
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

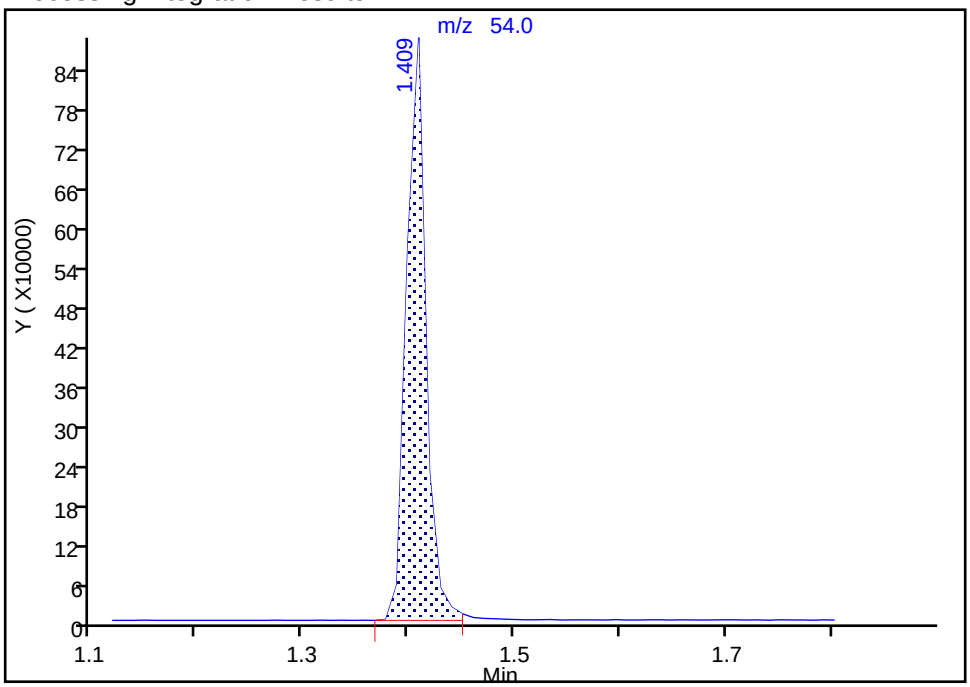
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1022.D
Injection Date: 06-Dec-2021 17:50:30 Instrument ID: HP5973C
Lims ID: IC 7
Client ID:
Operator ID: wd ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

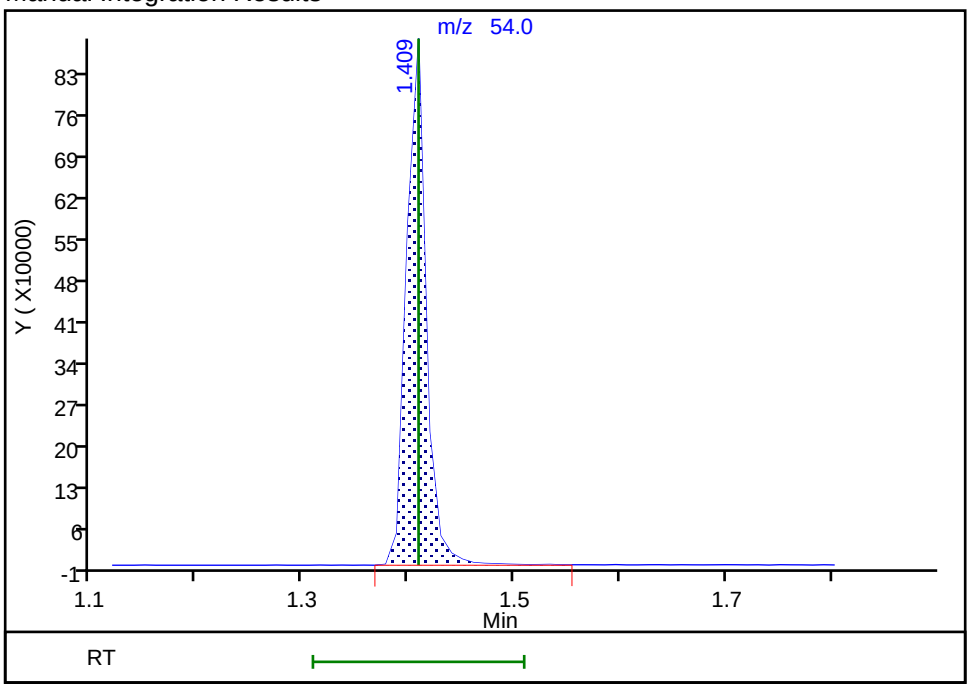
Processing Integration Results

RT: 1.41
Area: 1133849
Amount: 86.989263
Amount Units: ug/L



Manual Integration Results

RT: 1.41
Area: 1144965
Amount: 96.557098
Amount Units: ug/L



Reviewer: dahnw, 07-Dec-2021 09:41:53
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Calibration / Dichlorodifluoromethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

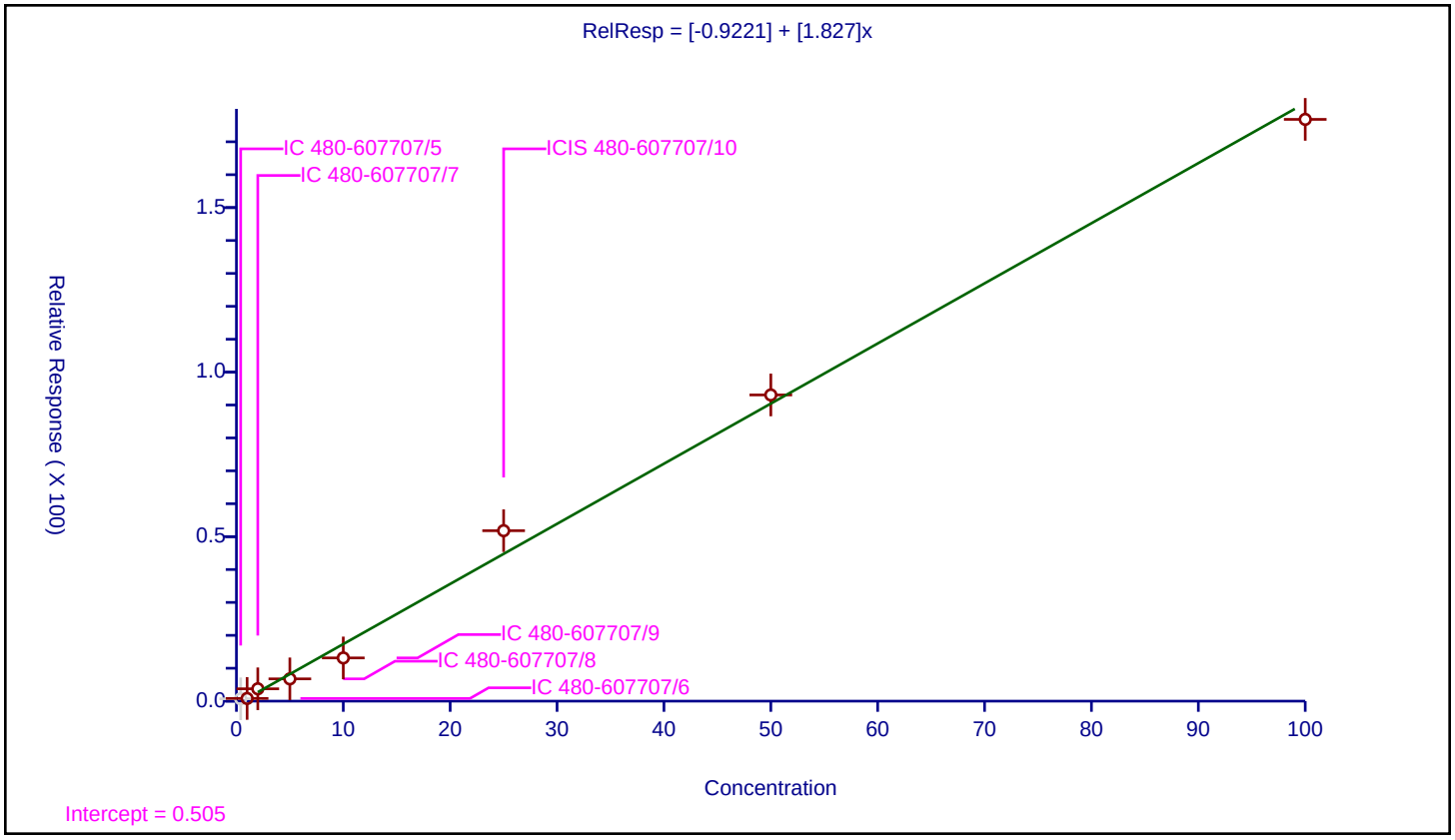
Curve Coefficients

Intercept:	-0.9221
Slope:	1.827

Error Coefficients

Standard Error:	643000
Relative Standard Error:	19.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.714115	25.0	137863.0	1.785287	N
2	IC 480-607707/6	1.0	0.819724	25.0	142548.0	0.819724	Y
3	IC 480-607707/7	2.0	3.749739	25.0	148217.0	1.874869	Y
4	IC 480-607707/8	5.0	6.77366	25.0	156614.0	1.354732	Y
5	IC 480-607707/9	10.0	13.137421	25.0	138880.0	1.313742	Y
6	ICIS 480-607707/10	25.0	51.805757	25.0	159656.0	2.07223	Y
7	IC 480-607707/11	50.0	93.059633	25.0	162495.0	1.861193	Y
8	IC 480-607707/12	100.0	176.808257	25.0	178072.0	1.768083	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

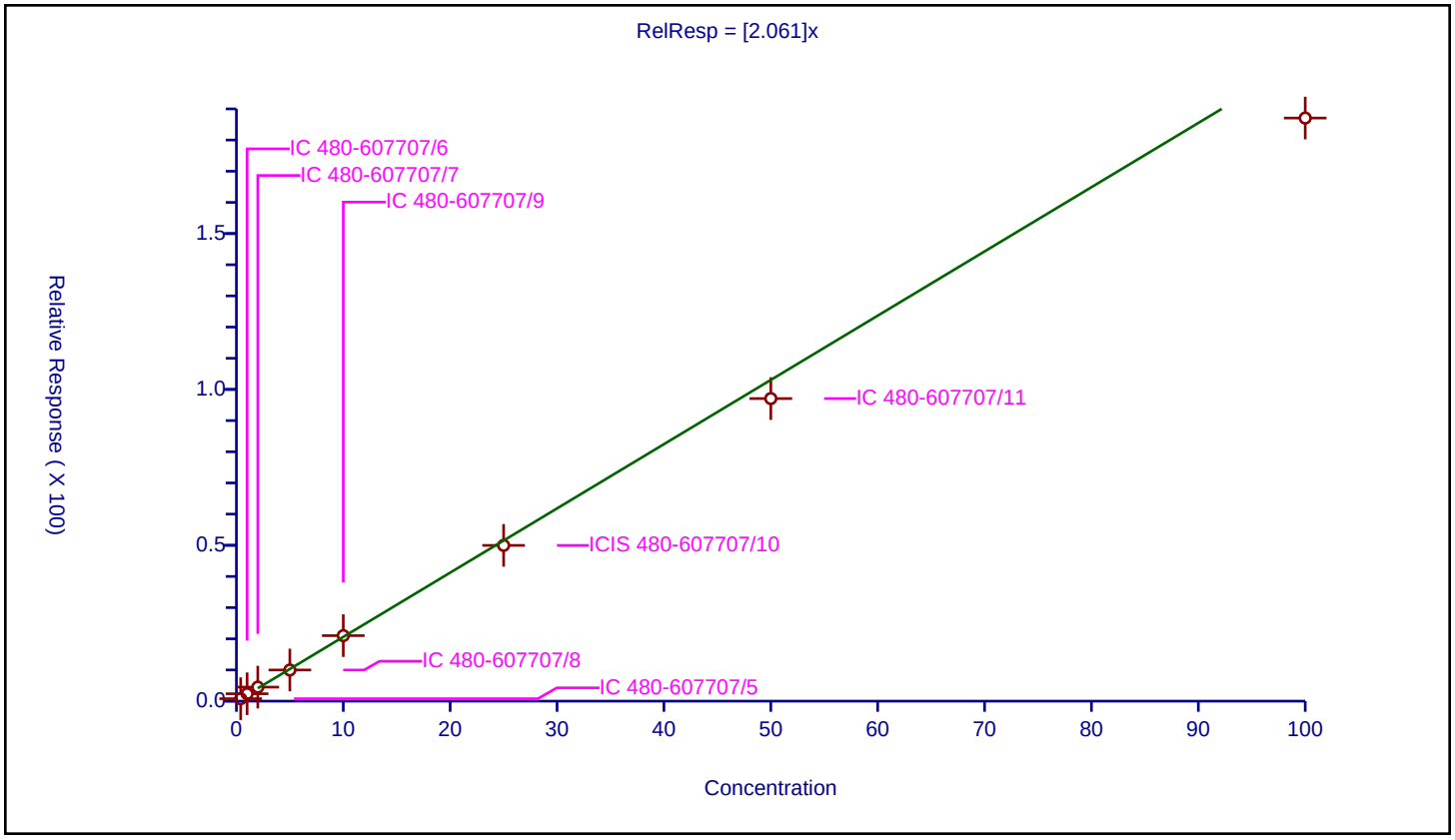
Curve Coefficients

Intercept:	0
Slope:	2.061

Error Coefficients

Standard Error:	572000
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.783568	25.0	137863.0	1.958919	Y
2	IC 480-607707/6	1.0	2.369728	25.0	142548.0	2.369728	Y
3	IC 480-607707/7	2.0	4.496448	25.0	148217.0	2.248224	Y
4	IC 480-607707/8	5.0	9.991444	25.0	156614.0	1.998289	Y
5	IC 480-607707/9	10.0	21.017245	25.0	138880.0	2.101725	Y
6	ICIS 480-607707/10	25.0	49.965708	25.0	159656.0	1.998628	Y
7	IC 480-607707/11	50.0	97.072371	25.0	162495.0	1.941447	Y
8	IC 480-607707/12	100.0	187.058325	25.0	178072.0	1.870583	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

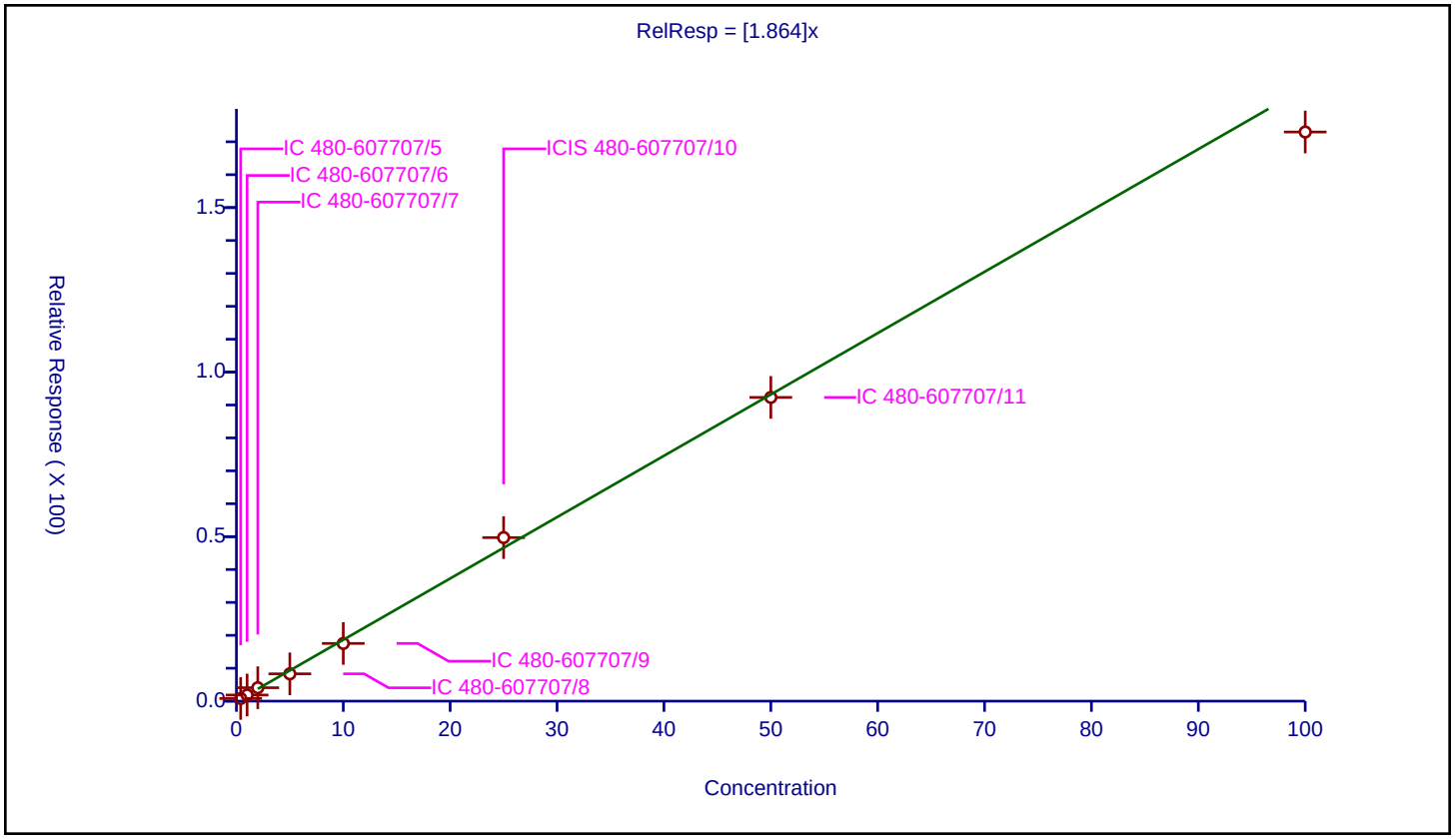
Curve Coefficients

Intercept:	0
Slope:	1.864

Error Coefficients

Standard Error:	533000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.812219	25.0	137863.0	2.030548	Y
2	IC 480-607707/6	1.0	1.867967	25.0	142548.0	1.867967	Y
3	IC 480-607707/7	2.0	4.073082	25.0	148217.0	2.036541	Y
4	IC 480-607707/8	5.0	8.299226	25.0	156614.0	1.659845	Y
5	IC 480-607707/9	10.0	17.533302	25.0	138880.0	1.75333	Y
6	ICIS 480-607707/10	25.0	49.702485	25.0	159656.0	1.988099	Y
7	IC 480-607707/11	50.0	92.307917	25.0	162495.0	1.846158	Y
8	IC 480-607707/12	100.0	172.975257	25.0	178072.0	1.729753	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

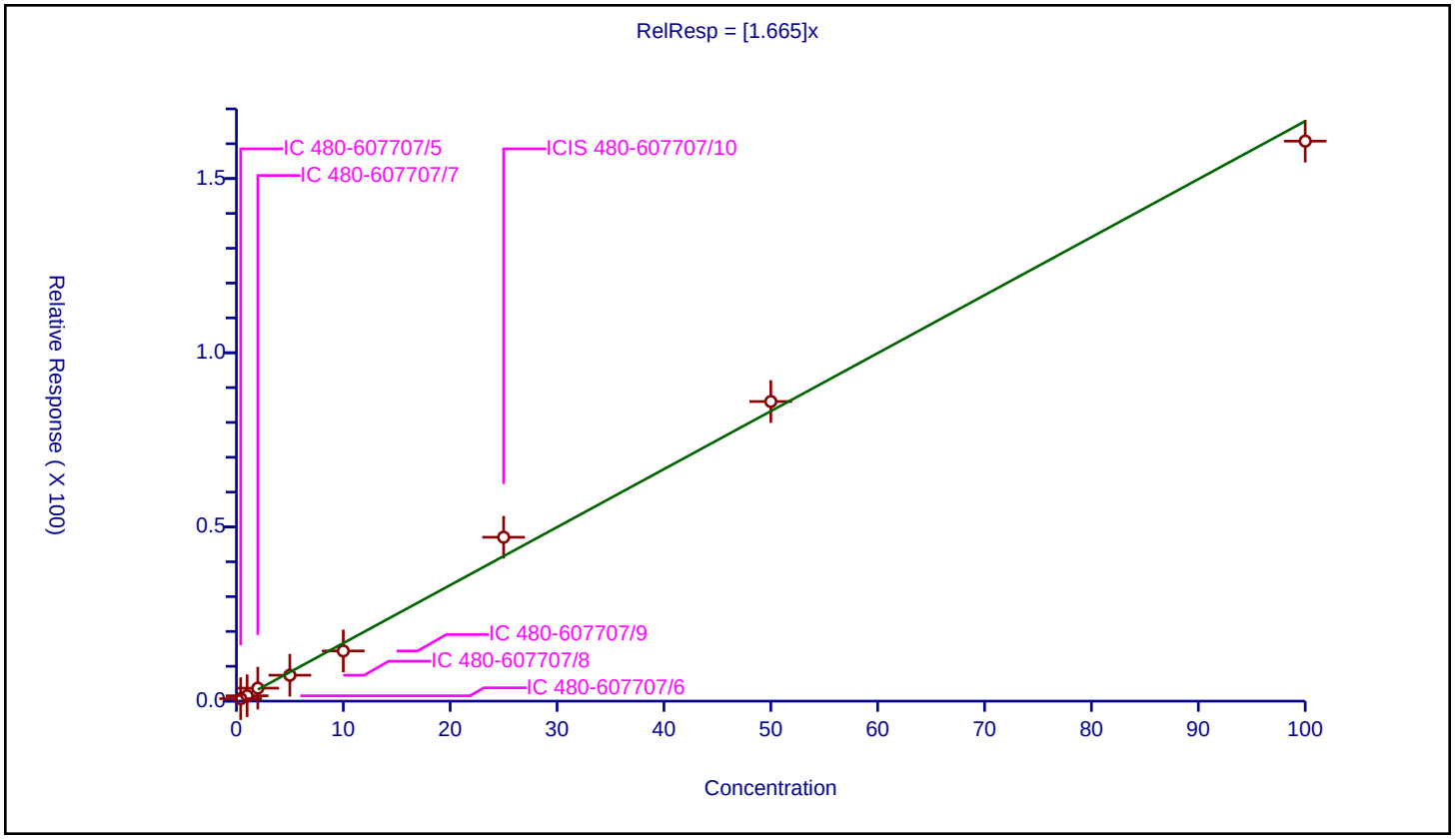
Curve Coefficients

Intercept:	0
Slope:	1.665

Error Coefficients

Standard Error:	496000
Relative Standard Error:	10.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.711576	25.0	137863.0	1.77894	Y
2	IC 480-607707/6	1.0	1.538955	25.0	142548.0	1.538955	Y
3	IC 480-607707/7	2.0	3.723932	25.0	148217.0	1.861966	Y
4	IC 480-607707/8	5.0	7.442023	25.0	156614.0	1.488405	Y
5	IC 480-607707/9	10.0	14.407042	25.0	138880.0	1.440704	Y
6	ICIS 480-607707/10	25.0	47.041295	25.0	159656.0	1.881652	Y
7	IC 480-607707/11	50.0	86.001723	25.0	162495.0	1.720034	Y
8	IC 480-607707/12	100.0	160.744671	25.0	178072.0	1.607447	Y



Calibration / Bromomethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

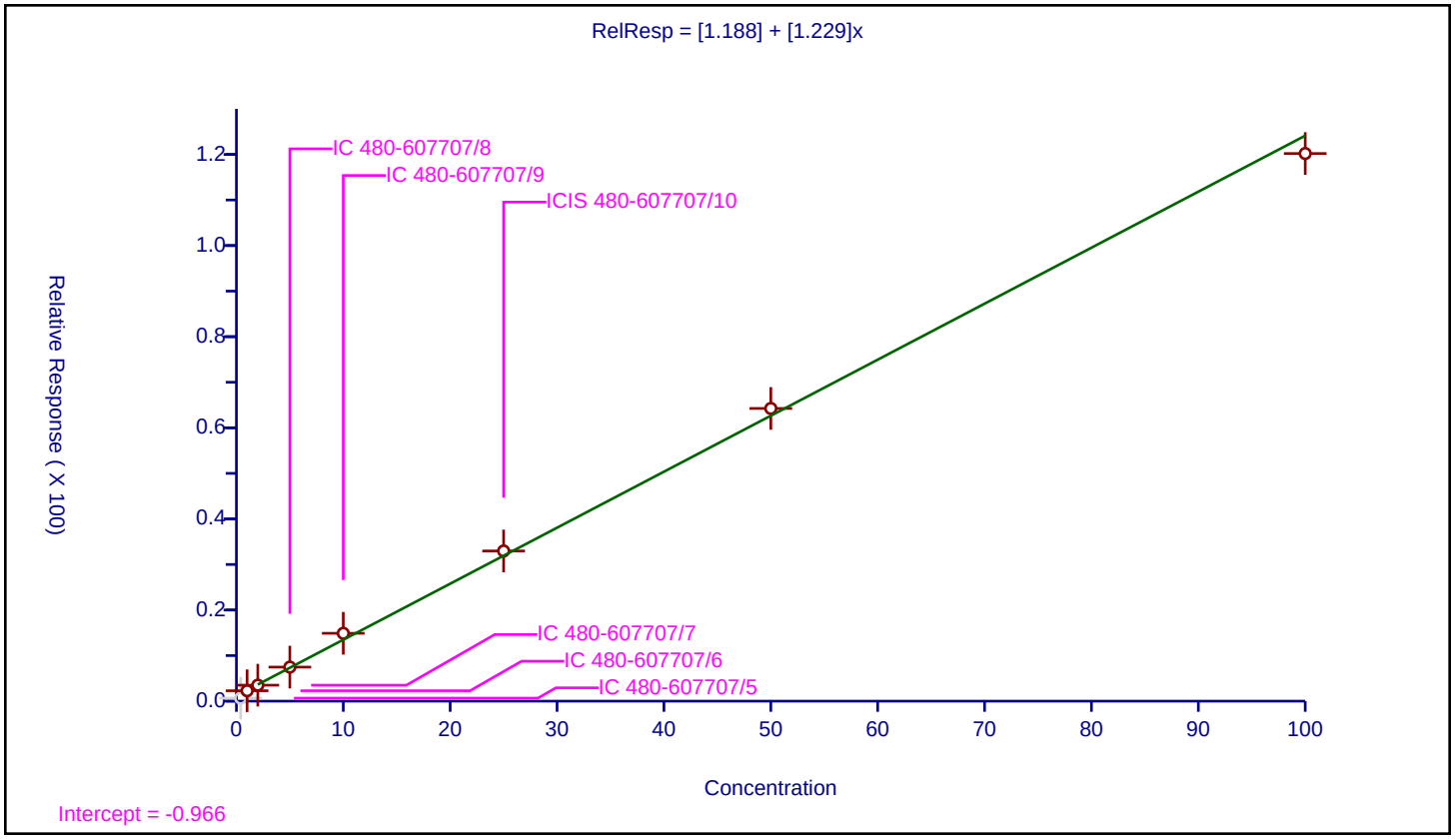
Curve Coefficients

Intercept:	1.188
Slope:	1.229

Error Coefficients

Standard Error:	438000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.657537	25.0	137863.0	1.643842	N
2	IC 480-607707/6	1.0	2.283617	25.0	142548.0	2.283617	Y
3	IC 480-607707/7	2.0	3.505839	25.0	148217.0	1.75292	Y
4	IC 480-607707/8	5.0	7.472831	25.0	156614.0	1.494566	Y
5	IC 480-607707/9	10.0	14.891813	25.0	138880.0	1.489181	Y
6	ICIS 480-607707/10	25.0	32.963528	25.0	159656.0	1.318541	Y
7	IC 480-607707/11	50.0	64.247823	25.0	162495.0	1.284956	Y
8	IC 480-607707/12	100.0	120.203485	25.0	178072.0	1.202035	Y



Calibration / Chloroethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

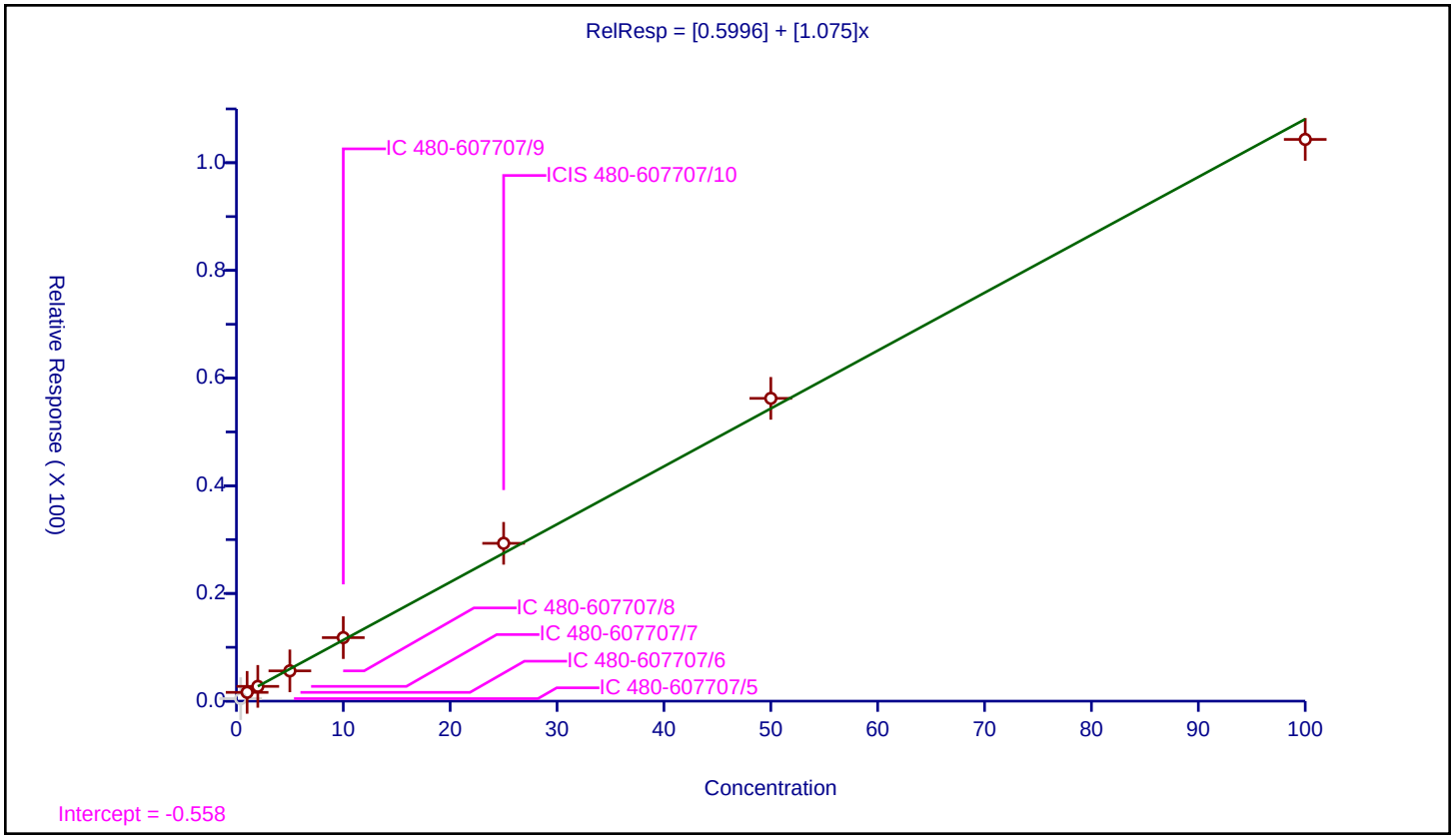
Curve Coefficients

Intercept:	0.5996
Slope:	1.075

Error Coefficients

Standard Error:	381000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.46713	25.0	137863.0	1.167826	N
2	IC 480-607707/6	1.0	1.630328	25.0	142548.0	1.630328	Y
3	IC 480-607707/7	2.0	2.741926	25.0	148217.0	1.370963	Y
4	IC 480-607707/8	5.0	5.623699	25.0	156614.0	1.12474	Y
5	IC 480-607707/9	10.0	11.797595	25.0	138880.0	1.17976	Y
6	ICIS 480-607707/10	25.0	29.312083	25.0	159656.0	1.172483	Y
7	IC 480-607707/11	50.0	56.238961	25.0	162495.0	1.124779	Y
8	IC 480-607707/12	100.0	104.332236	25.0	178072.0	1.043322	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

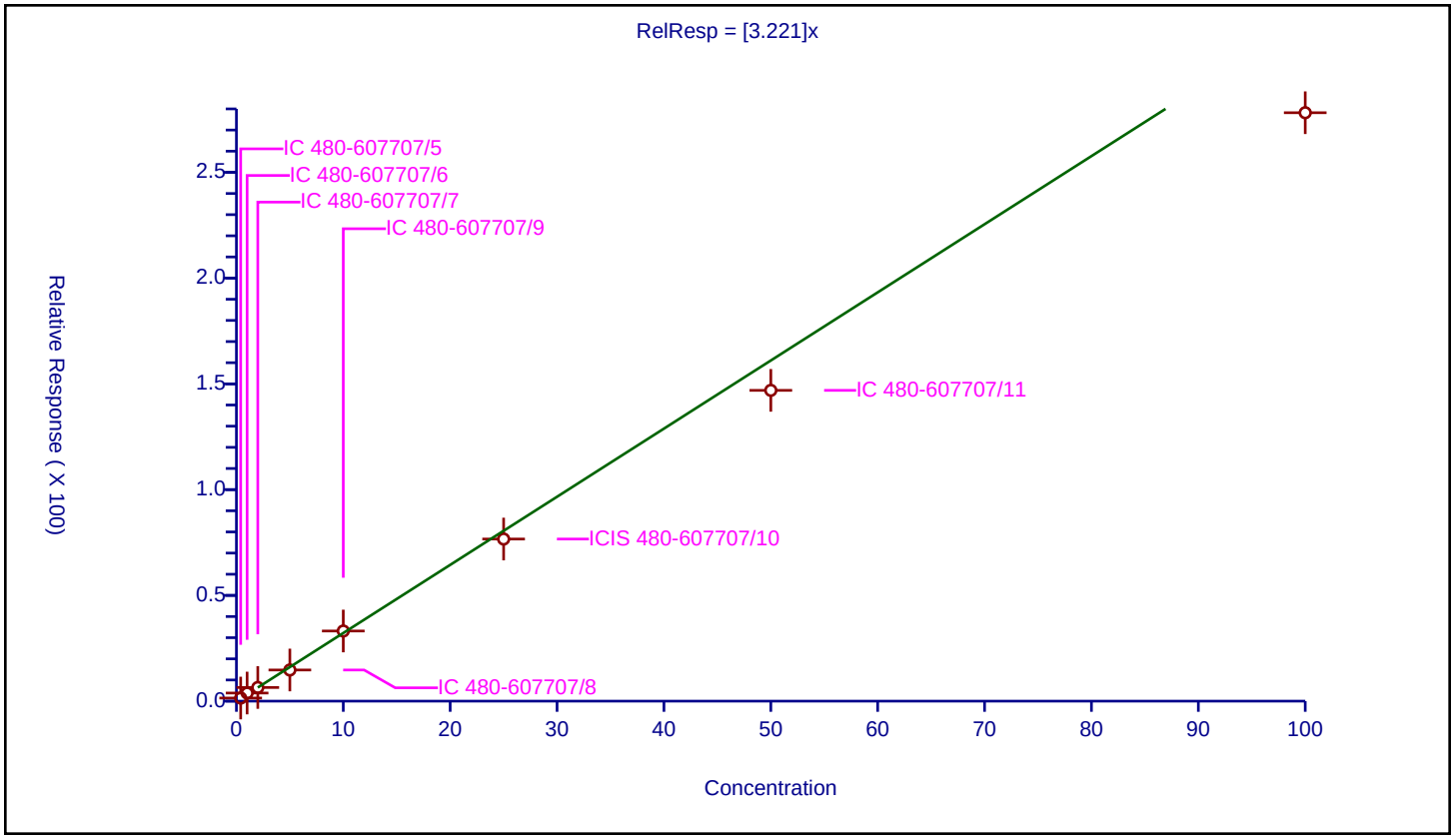
Curve Coefficients

Intercept:	0
Slope:	3.221

Error Coefficients

Standard Error:	855000
Relative Standard Error:	11.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.464679	25.0	137863.0	3.661697	Y
2	IC 480-607707/6	1.0	3.830815	25.0	142548.0	3.830815	Y
3	IC 480-607707/7	2.0	6.452532	25.0	148217.0	3.226266	Y
4	IC 480-607707/8	5.0	14.731442	25.0	156614.0	2.946288	Y
5	IC 480-607707/9	10.0	33.166403	25.0	138880.0	3.31664	Y
6	ICIS 480-607707/10	25.0	76.634921	25.0	159656.0	3.065397	Y
7	IC 480-607707/11	50.0	146.933136	25.0	162495.0	2.938663	Y
8	IC 480-607707/12	100.0	278.186211	25.0	178072.0	2.781862	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

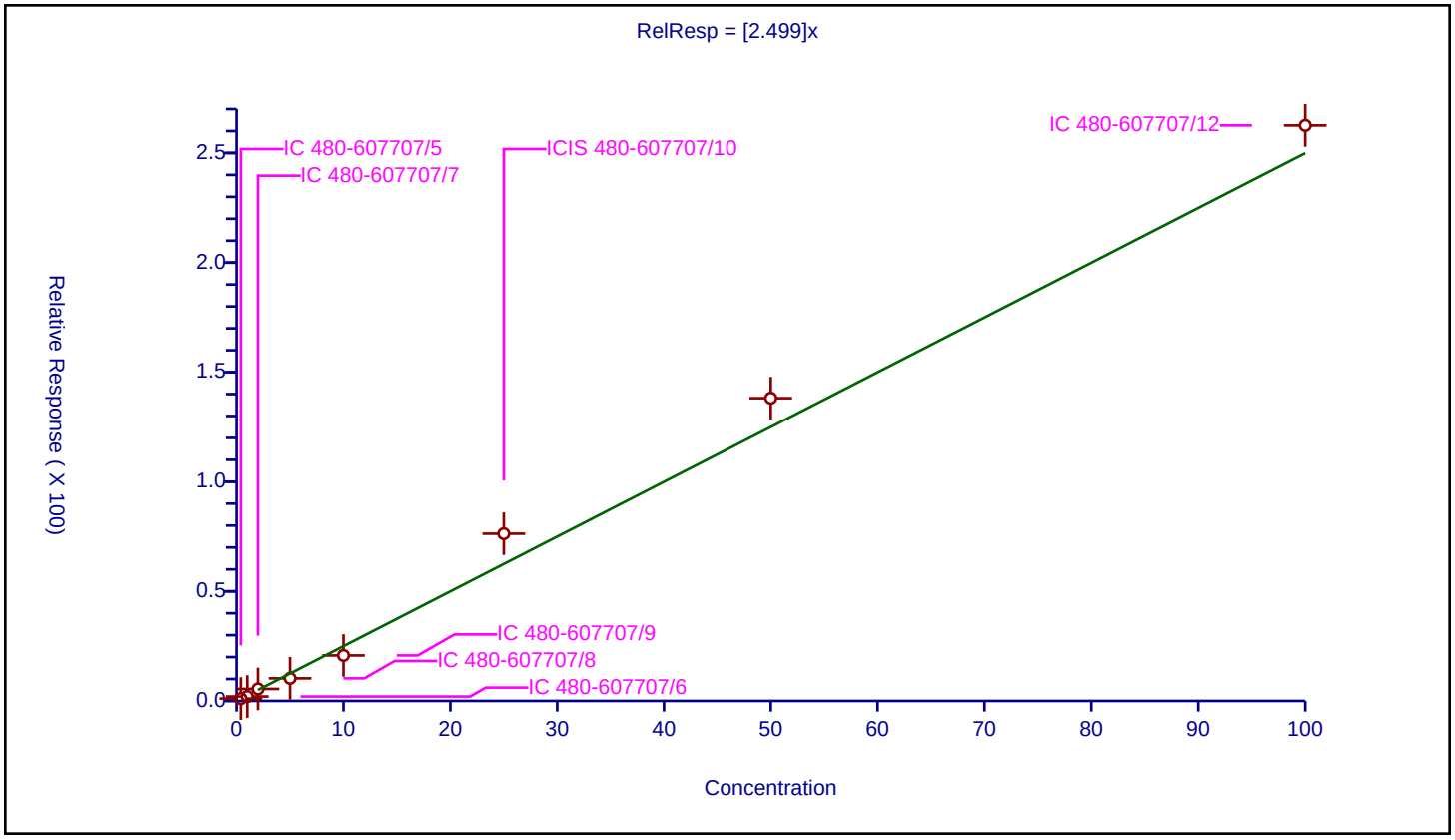
Curve Coefficients

Intercept:	0
Slope:	2.499

Error Coefficients

Standard Error:	807000
Relative Standard Error:	15.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.067545	25.0	137863.0	2.668863	Y
2	IC 480-607707/6	1.0	2.015111	25.0	142548.0	2.015111	Y
3	IC 480-607707/7	2.0	5.469514	25.0	148217.0	2.734757	Y
4	IC 480-607707/8	5.0	10.301282	25.0	156614.0	2.060256	Y
5	IC 480-607707/9	10.0	20.750108	25.0	138880.0	2.075011	Y
6	ICIS 480-607707/10	25.0	76.297477	25.0	159656.0	3.051899	Y
7	IC 480-607707/11	50.0	138.138404	25.0	162495.0	2.762768	Y
8	IC 480-607707/12	100.0	262.556578	25.0	178072.0	2.625566	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

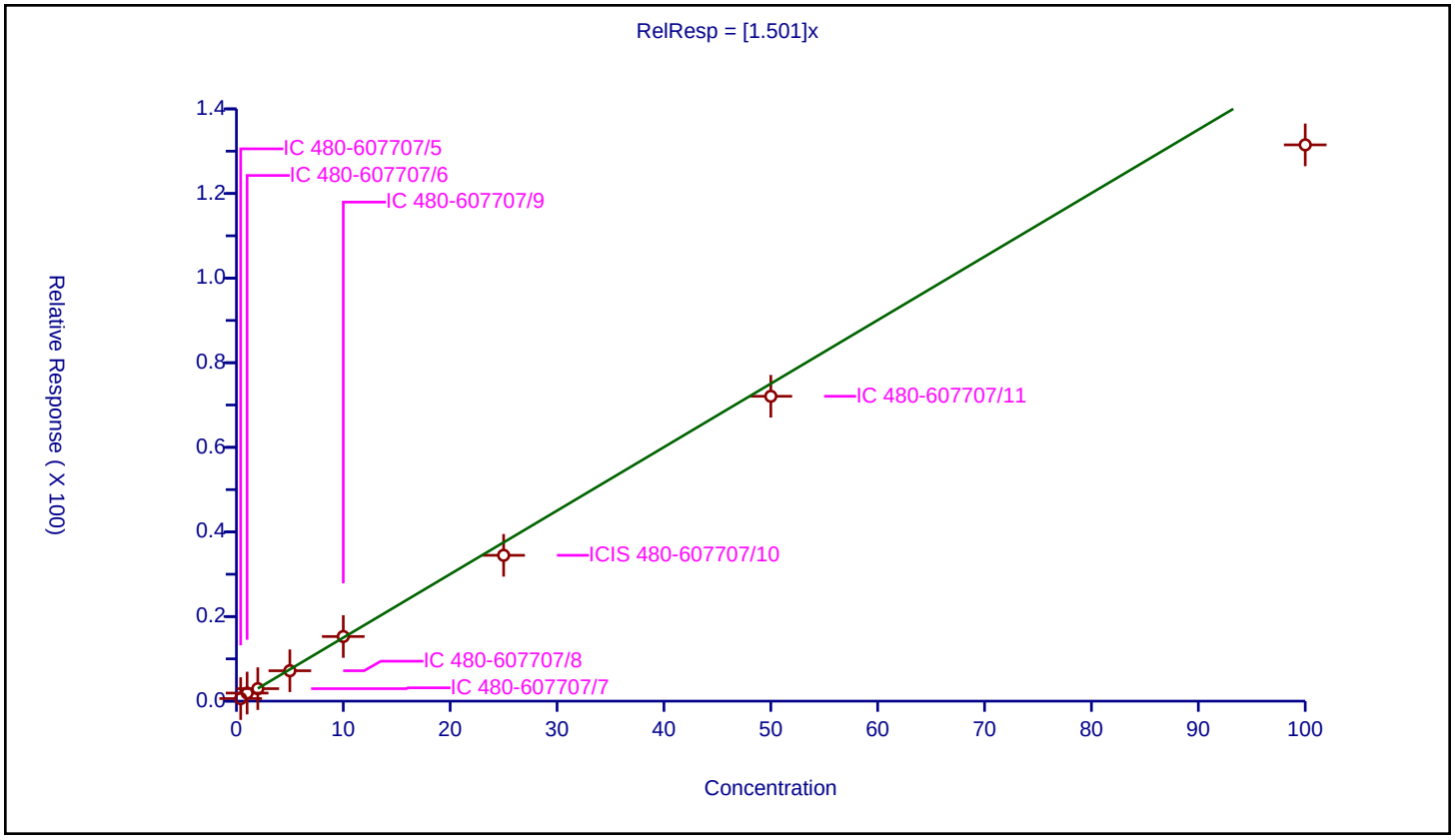
Curve Coefficients

Intercept:	0
Slope:	1.501

Error Coefficients

Standard Error:	406000
Relative Standard Error:	11.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.609845	25.0	137863.0	1.524611	Y
2	IC 480-607707/6	1.0	1.90848	25.0	142548.0	1.90848	Y
3	IC 480-607707/7	2.0	2.949392	25.0	148217.0	1.474696	Y
4	IC 480-607707/8	5.0	7.187097	25.0	156614.0	1.437419	Y
5	IC 480-607707/9	10.0	15.278658	25.0	138880.0	1.527866	Y
6	ICIS 480-607707/10	25.0	34.474276	25.0	159656.0	1.378971	Y
7	IC 480-607707/11	50.0	72.068679	25.0	162495.0	1.441374	Y
8	IC 480-607707/12	100.0	131.492739	25.0	178072.0	1.314927	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

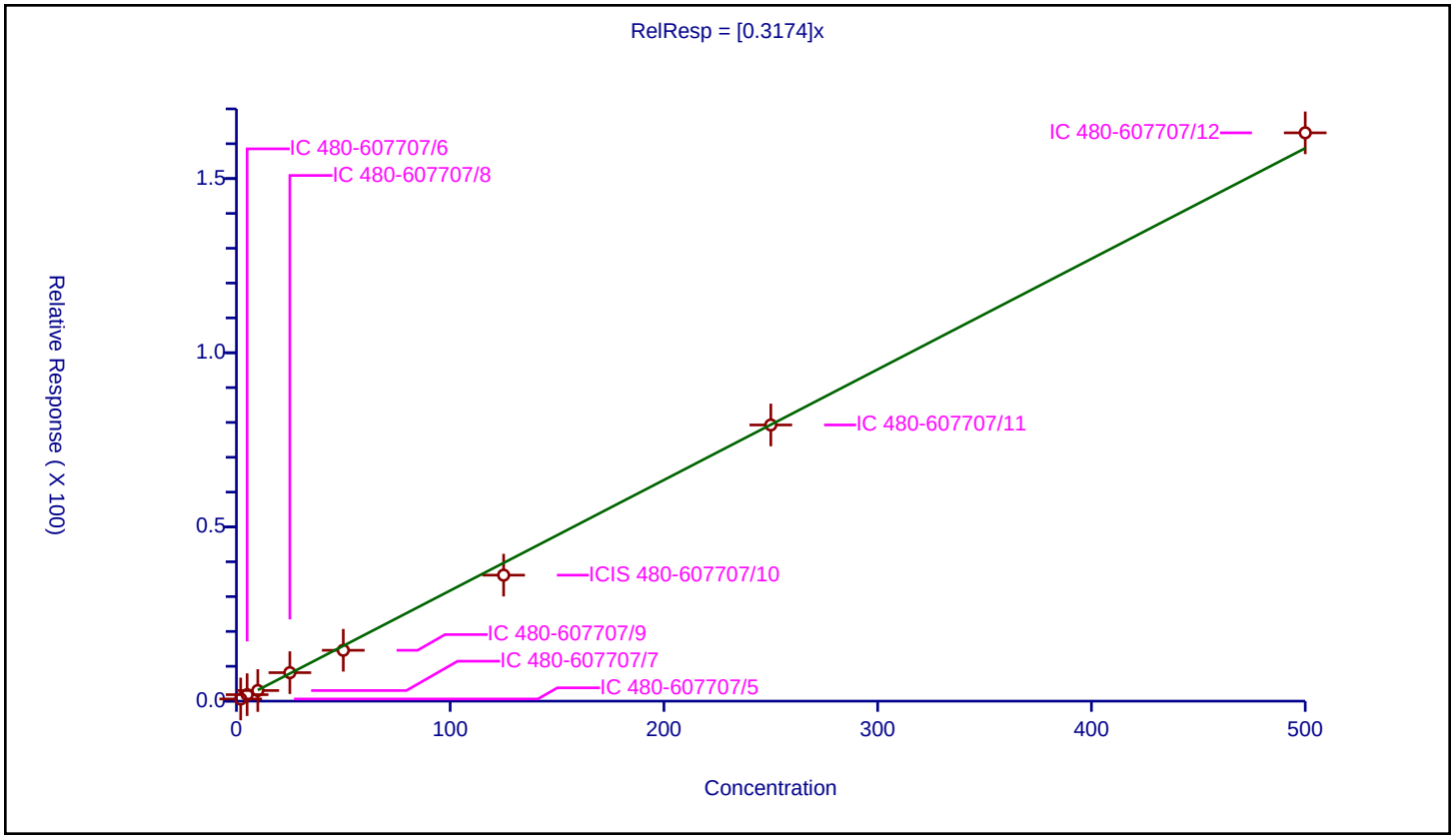
Curve Coefficients

Intercept:	0
Slope:	0.3174

Error Coefficients

Standard Error:	490000
Relative Standard Error:	8.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	2.0	0.619637	25.0	137863.0	0.309818	Y
2	IC 480-607707/6	5.0	1.86446	25.0	142548.0	0.372892	Y
3	IC 480-607707/7	10.0	3.049751	25.0	148217.0	0.304975	Y
4	IC 480-607707/8	25.0	8.17312	25.0	156614.0	0.326925	Y
5	IC 480-607707/9	50.0	14.600014	25.0	138880.0	0.292	Y
6	ICIS 480-607707/10	125.0	36.167917	25.0	159656.0	0.289343	Y
7	IC 480-607707/11	250.0	79.275516	25.0	162495.0	0.317102	Y
8	IC 480-607707/12	500.0	163.126292	25.0	178072.0	0.326253	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

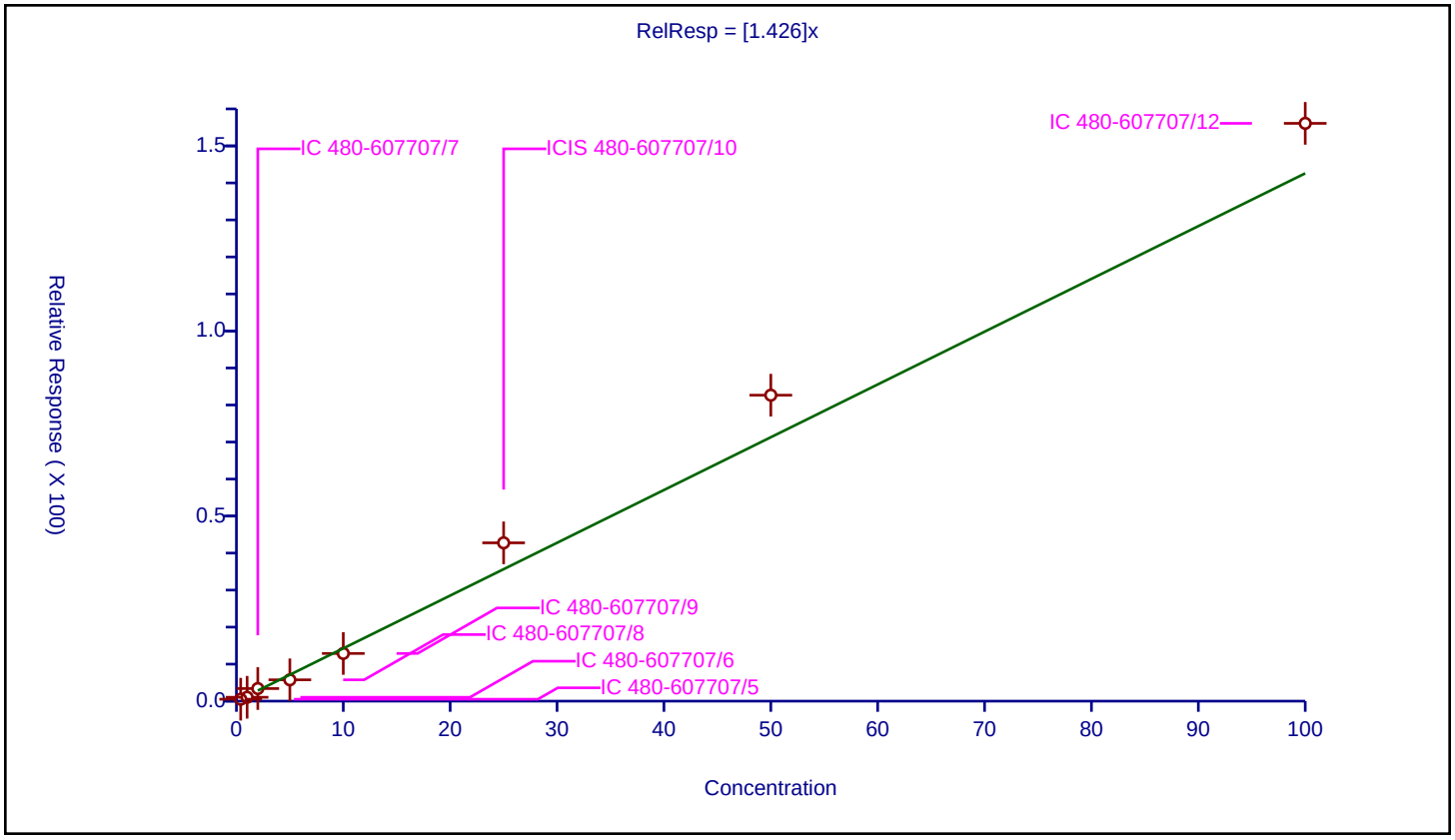
Curve Coefficients

Intercept:	0
Slope:	1.426

Error Coefficients

Standard Error:	479000
Relative Standard Error:	18.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.518631	25.0	137863.0	1.296577	Y
2	IC 480-607707/6	1.0	1.046139	25.0	142548.0	1.046139	Y
3	IC 480-607707/7	2.0	3.397215	25.0	148217.0	1.698607	Y
4	IC 480-607707/8	5.0	5.762576	25.0	156614.0	1.152515	Y
5	IC 480-607707/9	10.0	12.884325	25.0	138880.0	1.288432	Y
6	ICIS 480-607707/10	25.0	42.76413	25.0	159656.0	1.710565	Y
7	IC 480-607707/11	50.0	82.658389	25.0	162495.0	1.653168	Y
8	IC 480-607707/12	100.0	156.094445	25.0	178072.0	1.560944	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

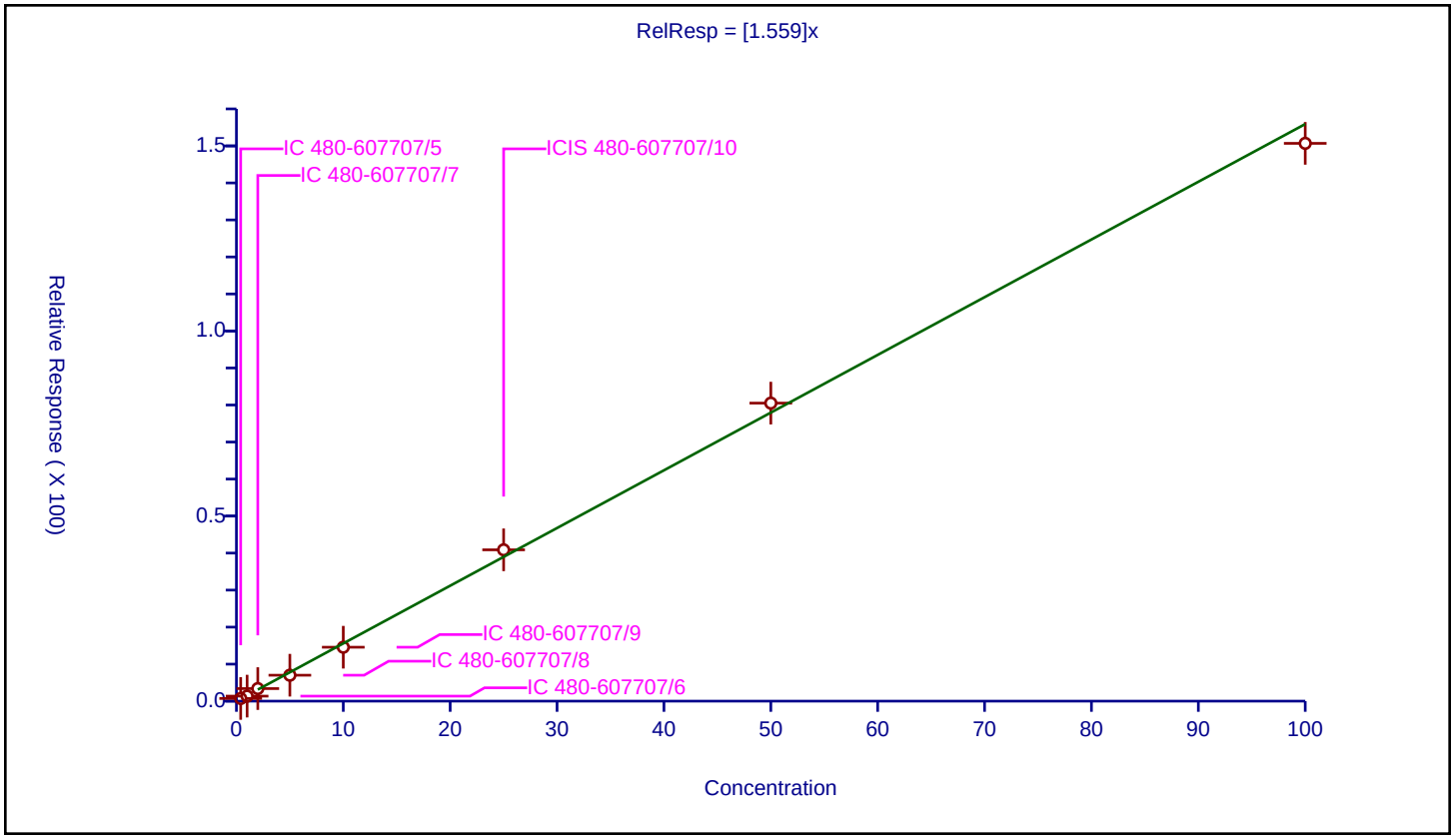
Curve Coefficients

Intercept:	0
Slope:	1.559

Error Coefficients

Standard Error:	463000
Relative Standard Error:	10.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.724451	25.0	137863.0	1.811128	Y
2	IC 480-607707/6	1.0	1.354105	25.0	142548.0	1.354105	Y
3	IC 480-607707/7	2.0	3.392661	25.0	148217.0	1.69633	Y
4	IC 480-607707/8	5.0	7.007196	25.0	156614.0	1.401439	Y
5	IC 480-607707/9	10.0	14.563652	25.0	138880.0	1.456365	Y
6	ICIS 480-607707/10	25.0	40.87867	25.0	159656.0	1.635147	Y
7	IC 480-607707/11	50.0	80.514785	25.0	162495.0	1.610296	Y
8	IC 480-607707/12	100.0	150.688907	25.0	178072.0	1.506889	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

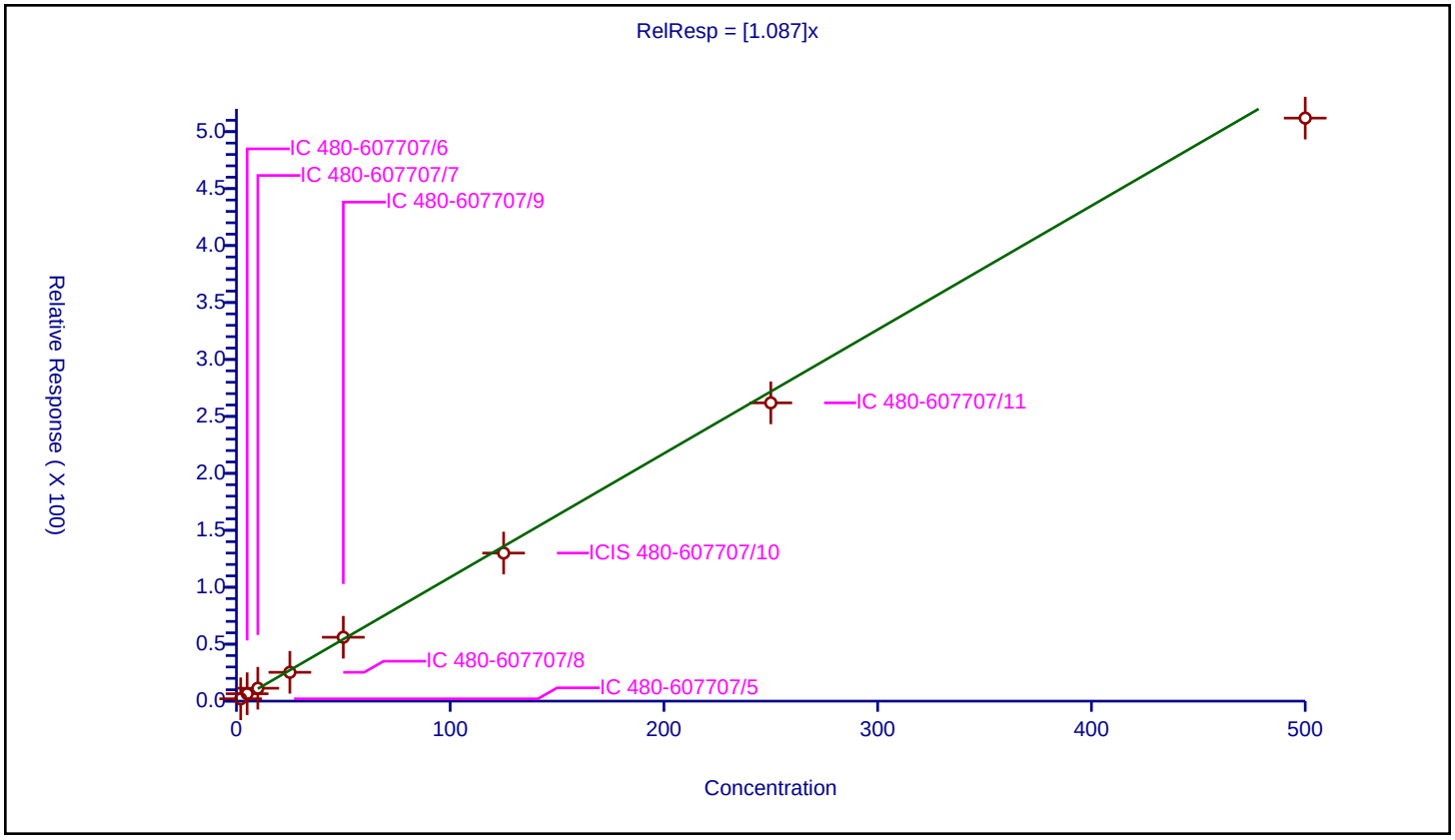
Curve Coefficients

Intercept:	0
Slope:	1.087

Error Coefficients

Standard Error:	1560000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	2.0	2.034266	25.0	137863.0	1.017133	Y
2	IC 480-607707/6	5.0	6.510965	25.0	142548.0	1.302193	Y
3	IC 480-607707/7	10.0	11.332202	25.0	148217.0	1.13322	Y
4	IC 480-607707/8	25.0	25.314787	25.0	156614.0	1.012591	Y
5	IC 480-607707/9	50.0	56.09861	25.0	138880.0	1.121972	Y
6	ICIS 480-607707/10	125.0	129.998559	25.0	159656.0	1.039988	Y
7	IC 480-607707/11	250.0	261.897135	25.0	162495.0	1.047589	Y
8	IC 480-607707/12	500.0	511.924109	25.0	178072.0	1.023848	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

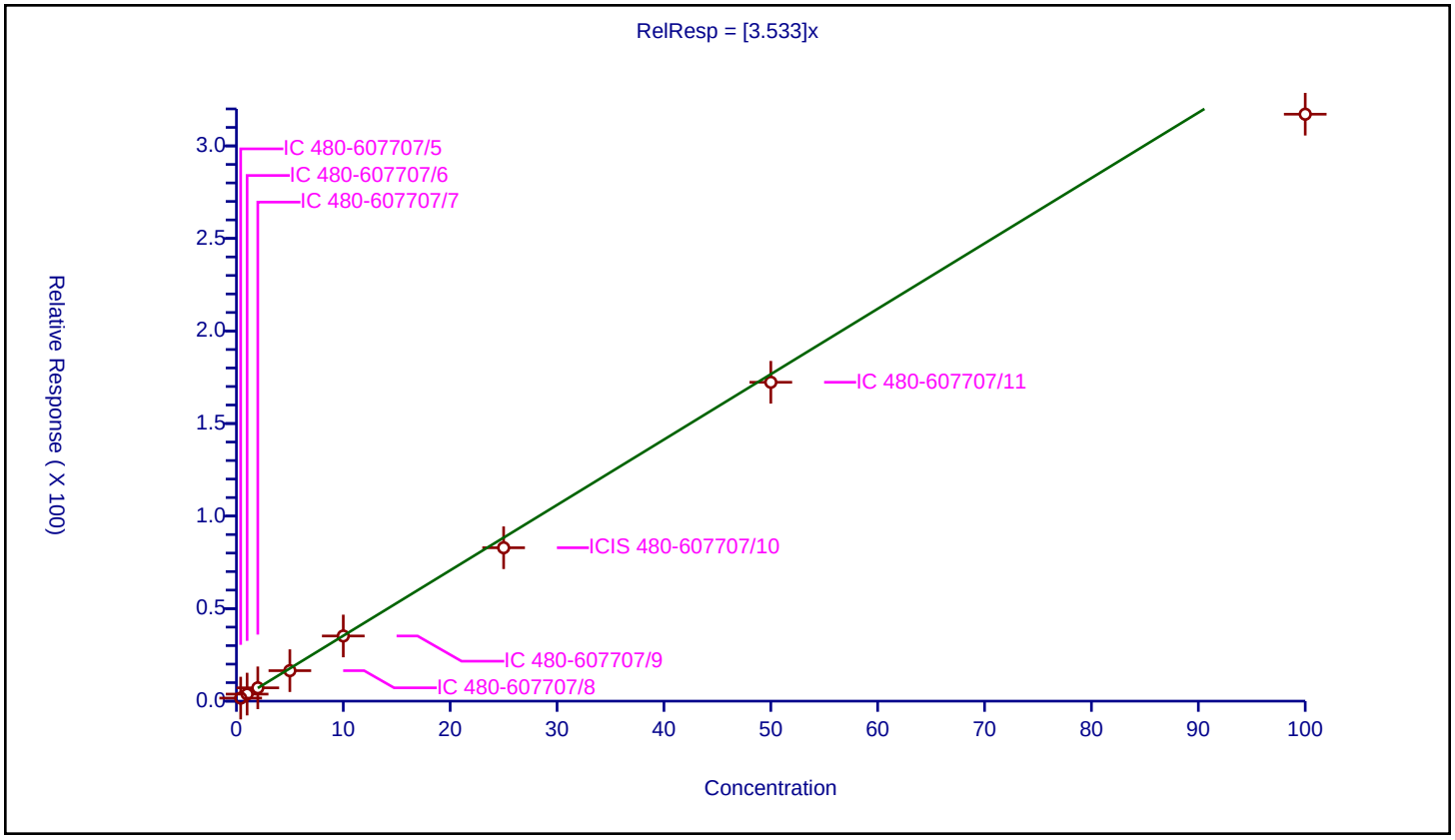
Curve Coefficients

Intercept:	0
Slope:	3.533

Error Coefficients

Standard Error:	977000
Relative Standard Error:	8.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.649282	25.0	137863.0	4.123206	Y
2	IC 480-607707/6	1.0	3.799948	25.0	142548.0	3.799948	Y
3	IC 480-607707/7	2.0	7.187603	25.0	148217.0	3.593802	Y
4	IC 480-607707/8	5.0	16.470909	25.0	156614.0	3.294182	Y
5	IC 480-607707/9	10.0	35.210073	25.0	138880.0	3.521007	Y
6	ICIS 480-607707/10	25.0	82.888836	25.0	159656.0	3.315553	Y
7	IC 480-607707/11	50.0	172.287455	25.0	162495.0	3.445749	Y
8	IC 480-607707/12	100.0	317.132396	25.0	178072.0	3.171324	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

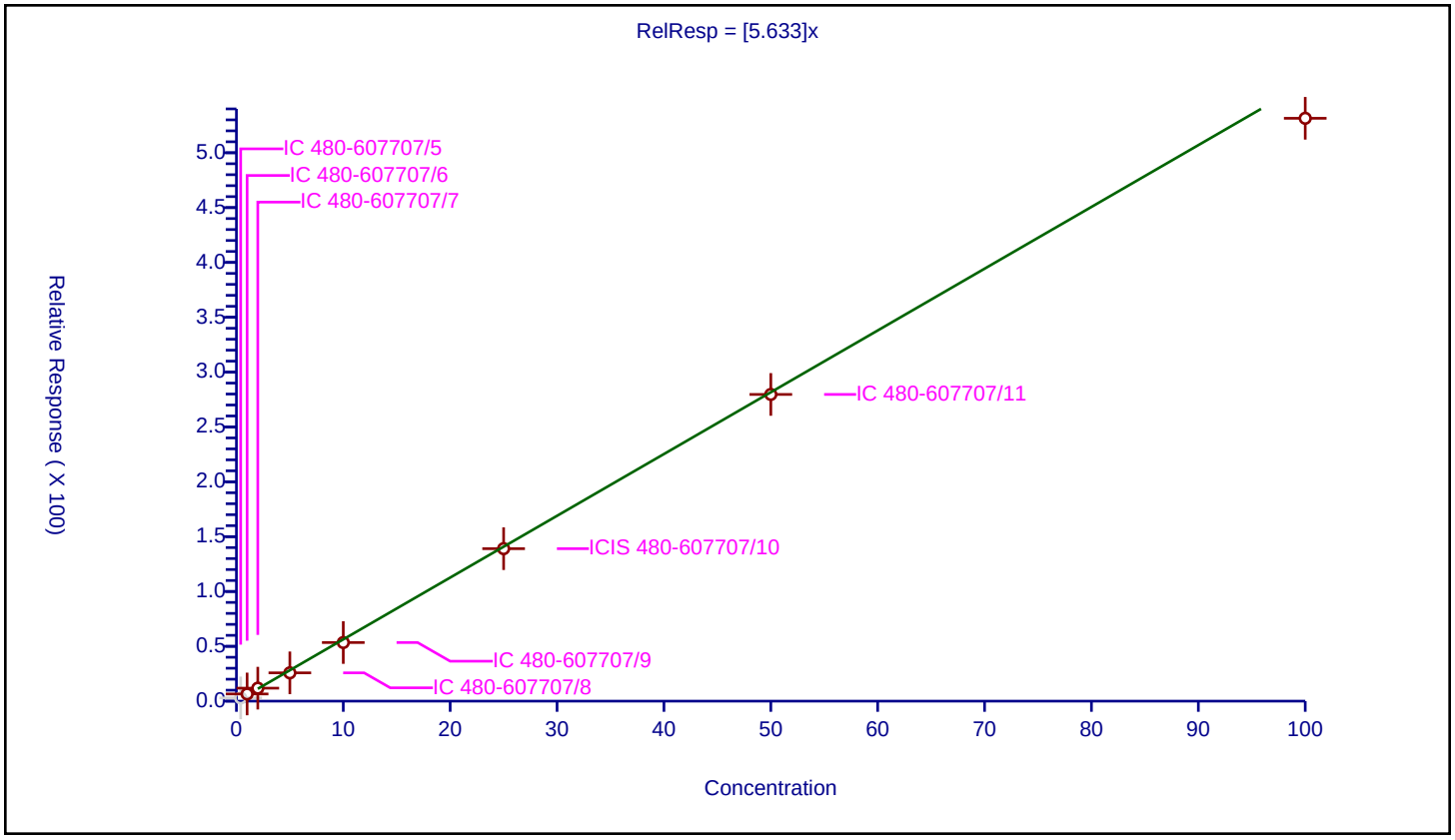
Curve Coefficients

Intercept:	0
Slope:	5.633

Error Coefficients

Standard Error:	1760000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	2.946766	25.0	137863.0	7.366915	N
2	IC 480-607707/6	1.0	6.543936	25.0	142548.0	6.543936	Y
3	IC 480-607707/7	2.0	11.830795	25.0	148217.0	5.915398	Y
4	IC 480-607707/8	5.0	25.790159	25.0	156614.0	5.158032	Y
5	IC 480-607707/9	10.0	53.44128	25.0	138880.0	5.344128	Y
6	ICIS 480-607707/10	25.0	139.010435	25.0	159656.0	5.560417	Y
7	IC 480-607707/11	50.0	279.636297	25.0	162495.0	5.592726	Y
8	IC 480-607707/12	100.0	531.435178	25.0	178072.0	5.314352	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

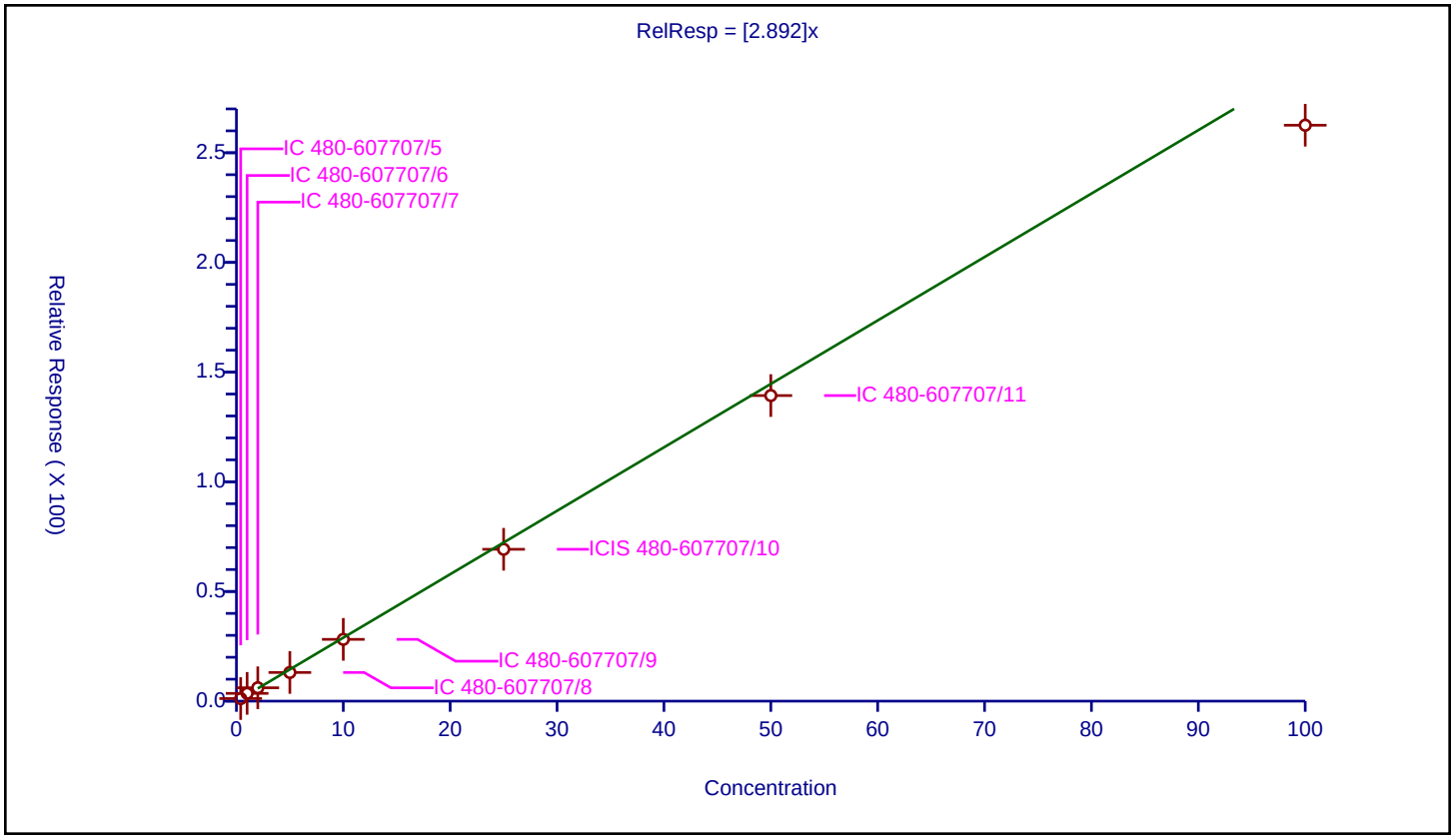
Curve Coefficients

Intercept:	0
Slope:	2.892

Error Coefficients

Standard Error:	806000
Relative Standard Error:	10.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.17925	25.0	137863.0	2.948126	Y
2	IC 480-607707/6	1.0	3.534073	25.0	142548.0	3.534073	Y
3	IC 480-607707/7	2.0	6.090732	25.0	148217.0	3.045366	Y
4	IC 480-607707/8	5.0	13.069394	25.0	156614.0	2.613879	Y
5	IC 480-607707/9	10.0	28.166583	25.0	138880.0	2.816658	Y
6	ICIS 480-607707/10	25.0	69.224927	25.0	159656.0	2.768997	Y
7	IC 480-607707/11	50.0	139.307671	25.0	162495.0	2.786153	Y
8	IC 480-607707/12	100.0	262.559807	25.0	178072.0	2.625598	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

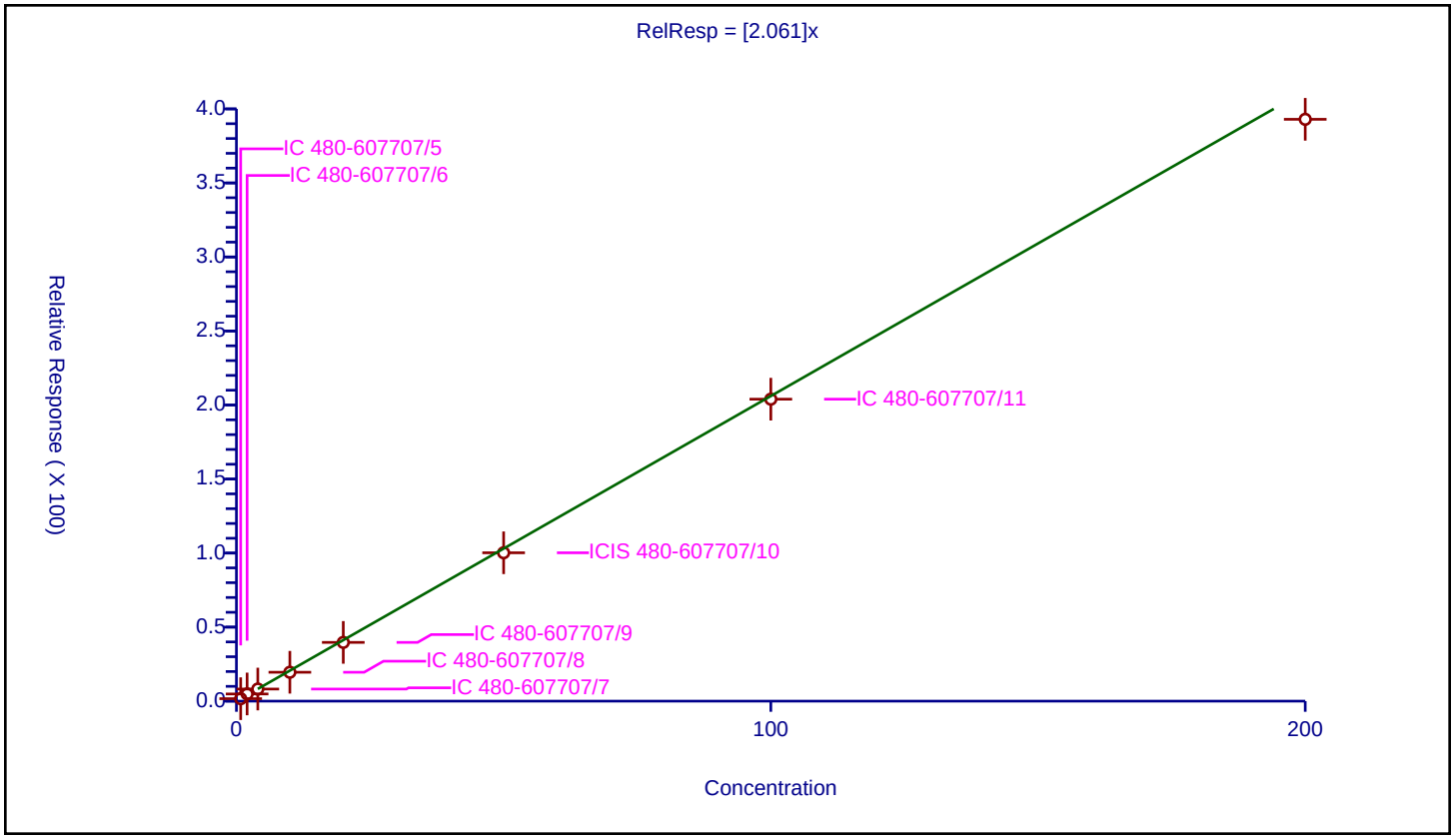
Curve Coefficients

Intercept:	0
Slope:	2.061

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.8	1.658893	25.0	137863.0	2.073617	Y
2	IC 480-607707/6	2.0	4.850121	25.0	142548.0	2.42506	Y
3	IC 480-607707/7	4.0	8.176356	25.0	148217.0	2.044089	Y
4	IC 480-607707/8	10.0	19.508154	25.0	156614.0	1.950815	Y
5	IC 480-607707/9	20.0	39.670939	25.0	138880.0	1.983547	Y
6	ICIS 480-607707/10	50.0	100.195733	25.0	159656.0	2.003915	Y
7	IC 480-607707/11	100.0	203.936121	25.0	162495.0	2.039361	Y
8	IC 480-607707/12	200.0	392.957343	25.0	178072.0	1.964787	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

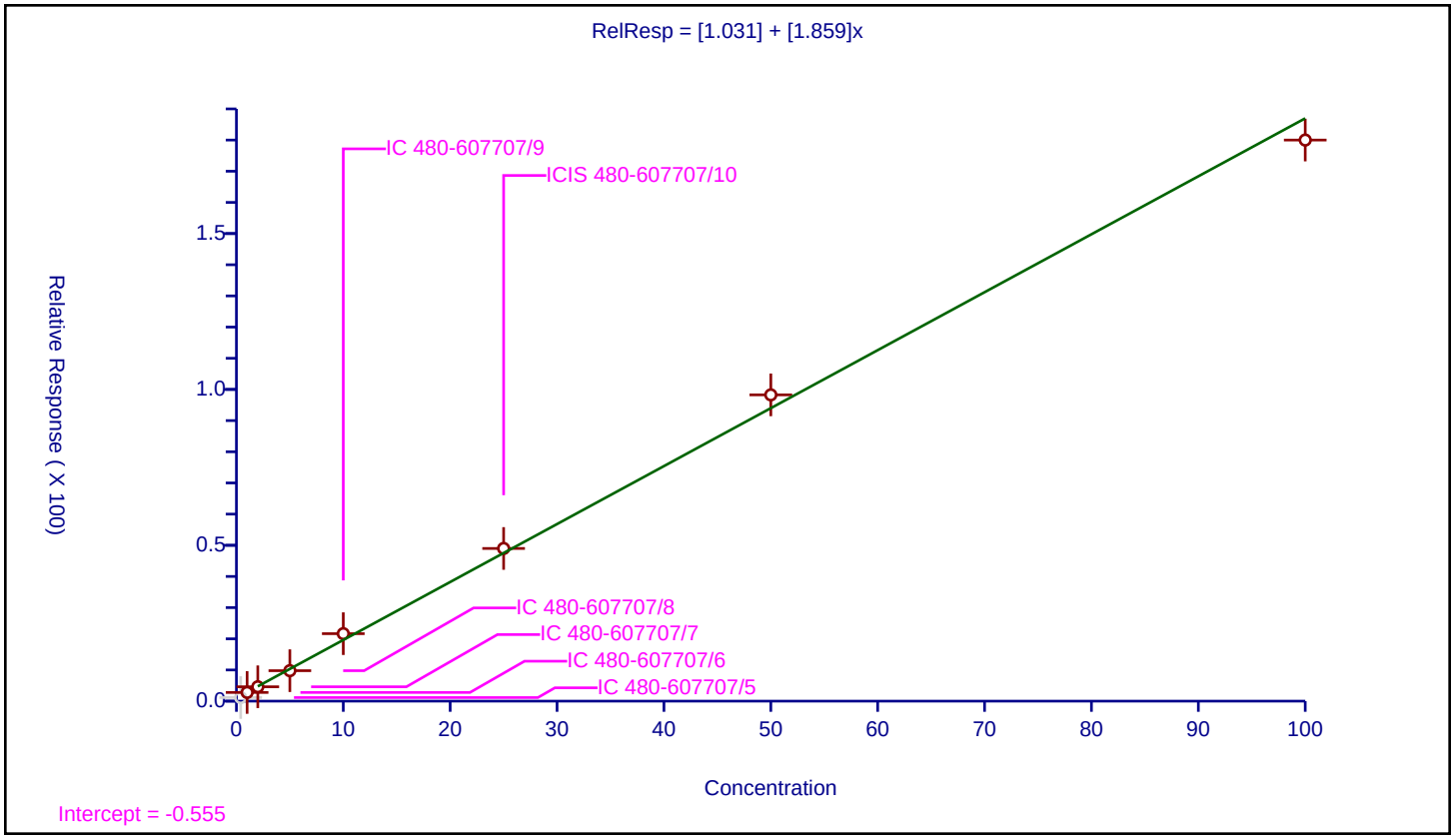
Curve Coefficients

Intercept:	1.031
Slope:	1.859

Error Coefficients

Standard Error:	659000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.1535	25.0	137863.0	2.883751	N
2	IC 480-607707/6	1.0	2.793971	25.0	142548.0	2.793971	Y
3	IC 480-607707/7	2.0	4.61165	25.0	148217.0	2.305825	Y
4	IC 480-607707/8	5.0	9.774829	25.0	156614.0	1.954966	Y
5	IC 480-607707/9	10.0	21.643325	25.0	138880.0	2.164333	Y
6	ICIS 480-607707/10	25.0	48.979055	25.0	159656.0	1.959162	Y
7	IC 480-607707/11	50.0	98.260716	25.0	162495.0	1.965214	Y
8	IC 480-607707/12	100.0	180.006402	25.0	178072.0	1.800064	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

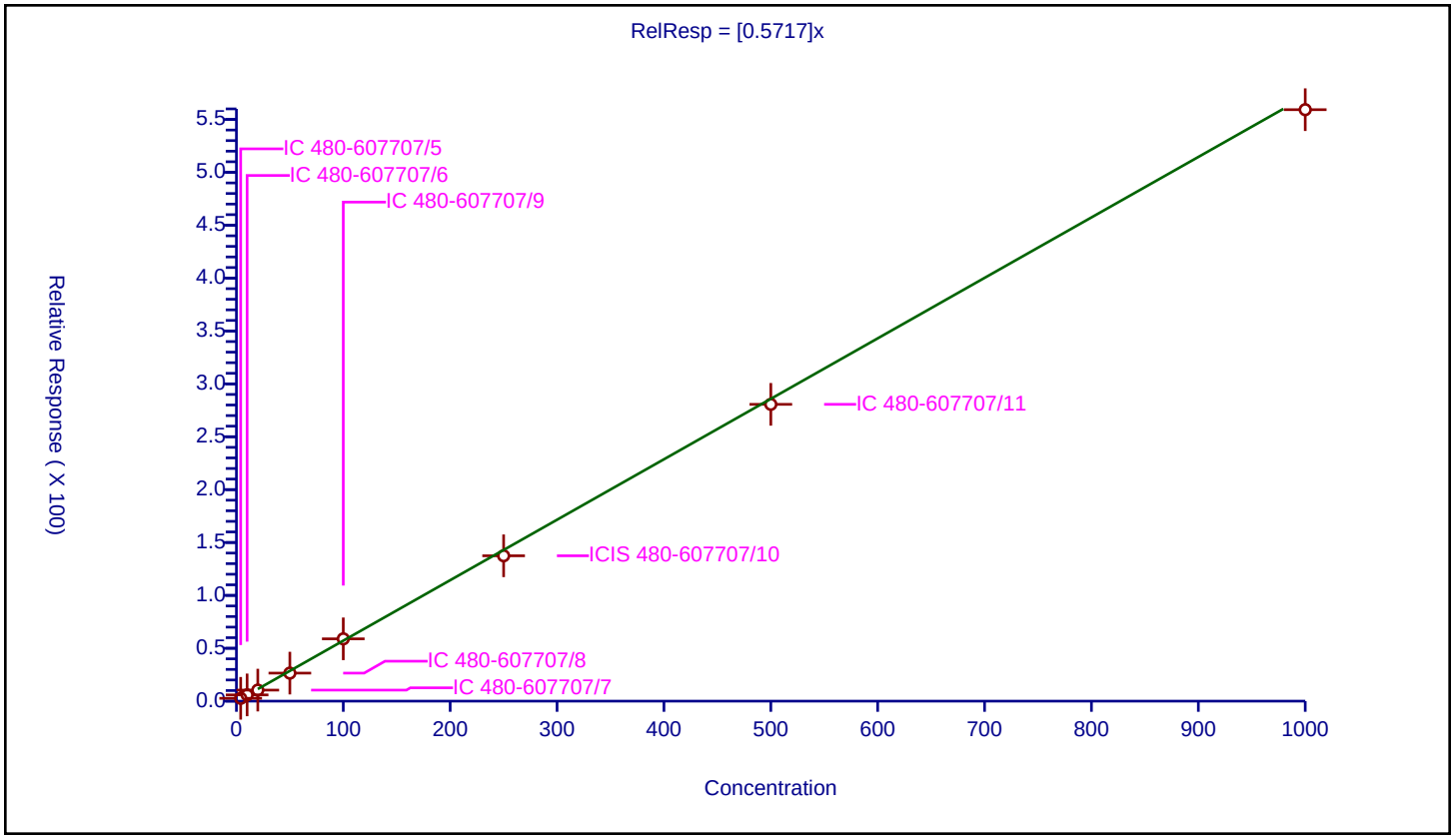
Curve Coefficients

Intercept:	0
Slope:	0.5717

Error Coefficients

Standard Error:	1690000
Relative Standard Error:	8.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	4.0	2.685093	25.0	137863.0	0.671273	Y
2	IC 480-607707/6	10.0	5.906958	25.0	142548.0	0.590696	Y
3	IC 480-607707/7	20.0	10.447688	25.0	148217.0	0.522384	Y
4	IC 480-607707/8	50.0	26.496833	25.0	156614.0	0.529937	Y
5	IC 480-607707/9	100.0	58.91291	25.0	138880.0	0.589129	Y
6	ICIS 480-607707/10	250.0	137.438775	25.0	159656.0	0.549755	Y
7	IC 480-607707/11	500.0	280.636173	25.0	162495.0	0.561272	Y
8	IC 480-607707/12	1000.0	559.244294	25.0	178072.0	0.559244	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

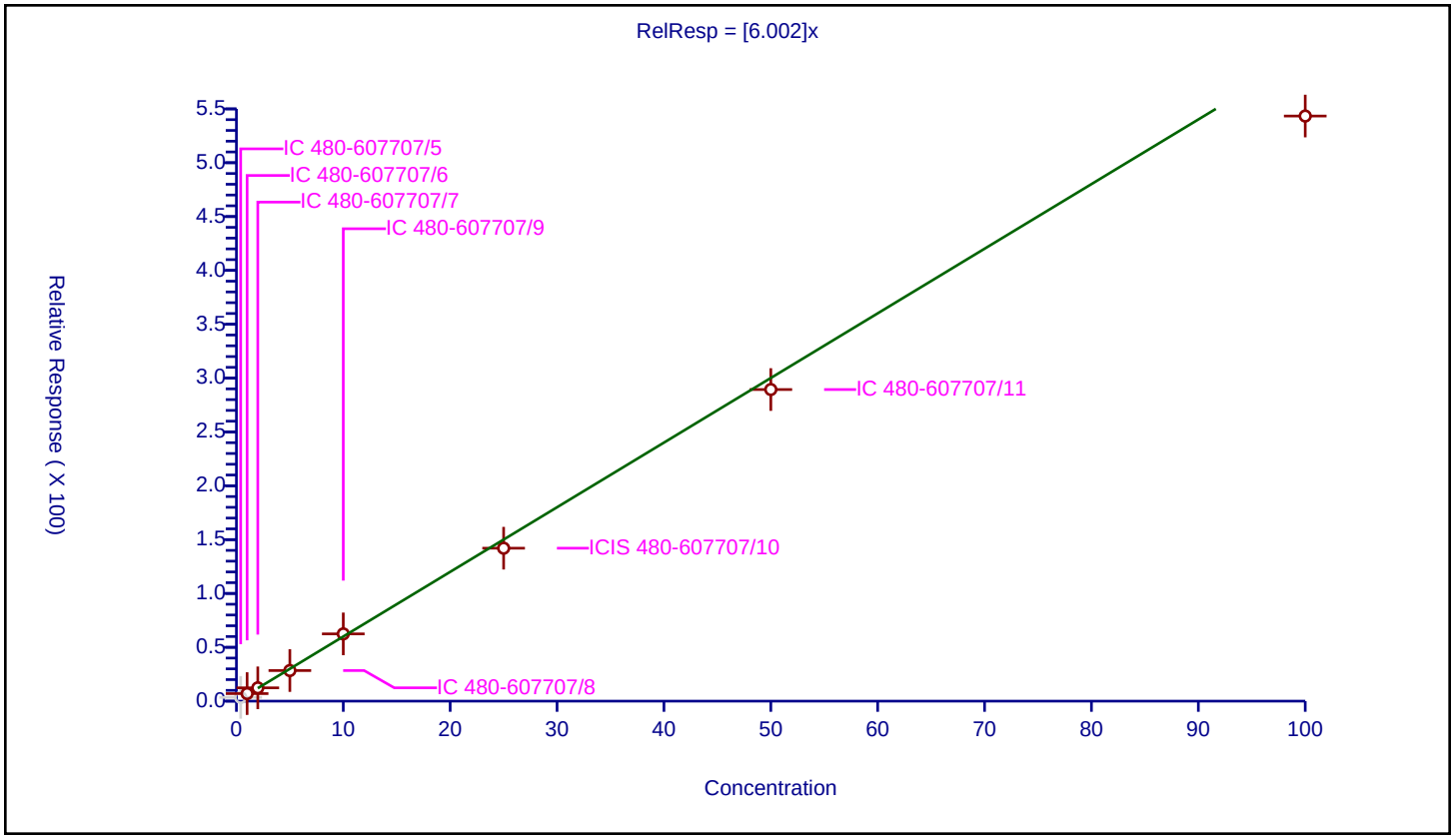
Curve Coefficients

Intercept:	0
Slope:	6.002

Error Coefficients

Standard Error:	1800000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	3.475914	25.0	137863.0	8.689786	N
2	IC 480-607707/6	1.0	7.006412	25.0	142548.0	7.006412	Y
3	IC 480-607707/7	2.0	12.351485	25.0	148217.0	6.175742	Y
4	IC 480-607707/8	5.0	28.413488	25.0	156614.0	5.682698	Y
5	IC 480-607707/9	10.0	62.466158	25.0	138880.0	6.246616	Y
6	ICIS 480-607707/10	25.0	142.040543	25.0	159656.0	5.681622	Y
7	IC 480-607707/11	50.0	289.371673	25.0	162495.0	5.787433	Y
8	IC 480-607707/12	100.0	543.366868	25.0	178072.0	5.433669	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

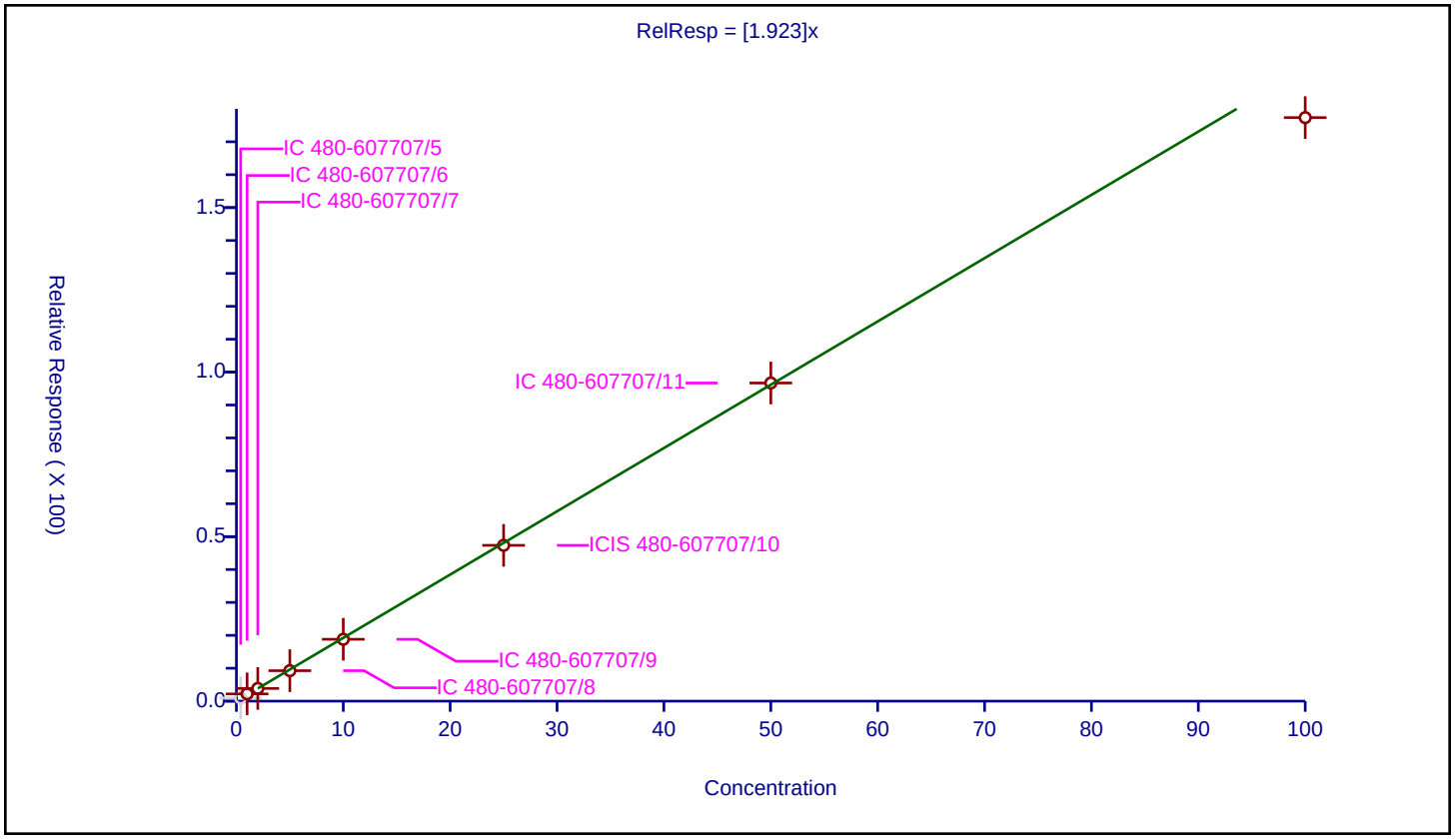
Curve Coefficients

Intercept:	0
Slope:	1.923

Error Coefficients

Standard Error:	591000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.965451	25.0	137863.0	2.413628	N
2	IC 480-607707/6	1.0	2.198908	25.0	142548.0	2.198908	Y
3	IC 480-607707/7	2.0	3.863086	25.0	148217.0	1.931543	Y
4	IC 480-607707/8	5.0	9.256835	25.0	156614.0	1.851367	Y
5	IC 480-607707/9	10.0	18.798423	25.0	138880.0	1.879842	Y
6	ICIS 480-607707/10	25.0	47.352746	25.0	159656.0	1.89411	Y
7	IC 480-607707/11	50.0	96.687898	25.0	162495.0	1.933758	Y
8	IC 480-607707/12	100.0	177.348909	25.0	178072.0	1.773489	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

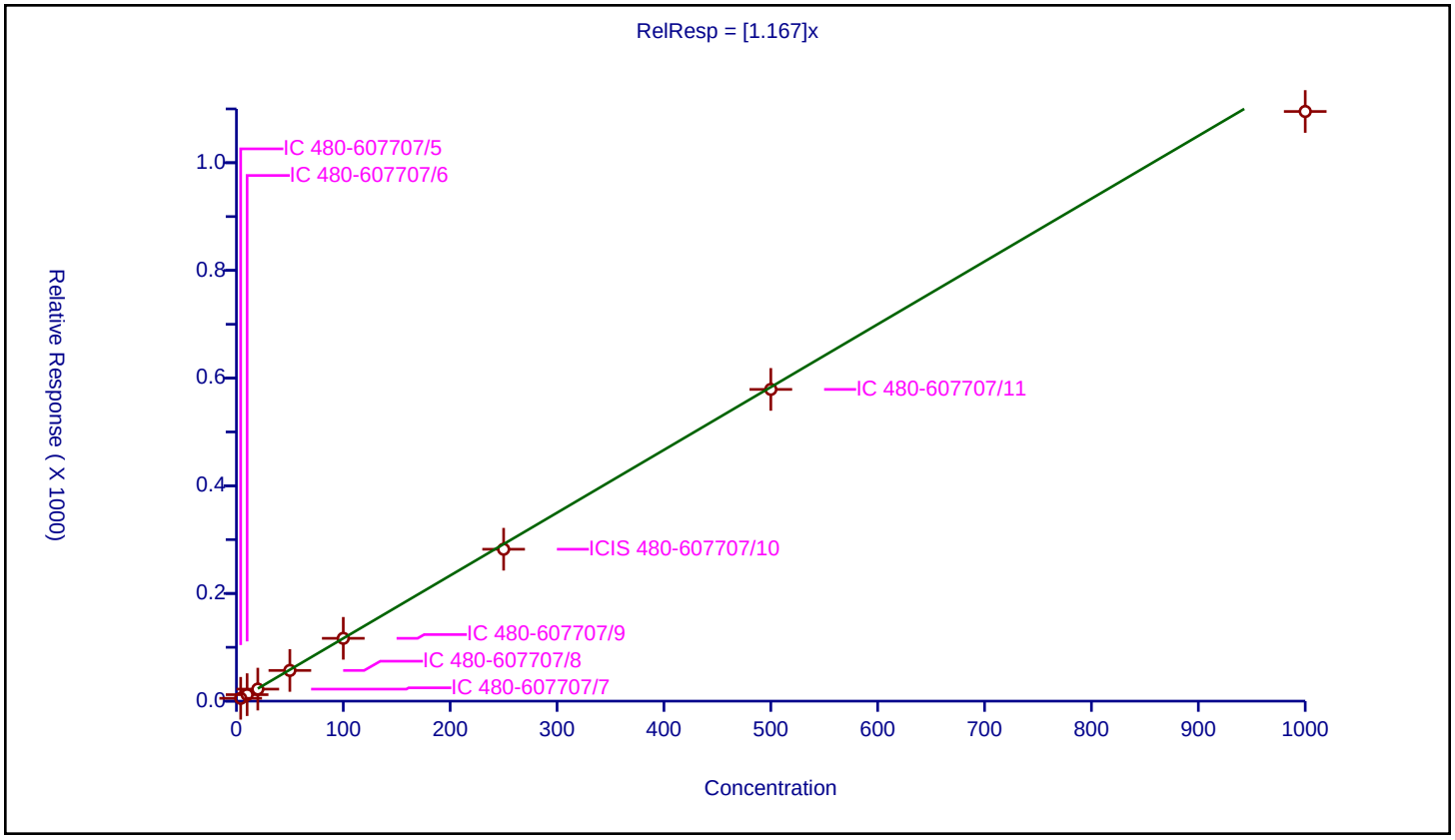
Curve Coefficients

Intercept:	0
Slope:	1.167

Error Coefficients

Standard Error:	3360000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	4.0	5.281874	25.0	137863.0	1.320469	Y
2	IC 480-607707/6	10.0	12.069443	25.0	142548.0	1.206944	Y
3	IC 480-607707/7	20.0	22.330603	25.0	148217.0	1.11653	Y
4	IC 480-607707/8	50.0	57.008154	25.0	156614.0	1.140163	Y
5	IC 480-607707/9	100.0	116.649986	25.0	138880.0	1.1665	Y
6	ICIS 480-607707/10	250.0	282.141604	25.0	159656.0	1.128566	Y
7	IC 480-607707/11	500.0	578.988584	25.0	162495.0	1.157977	Y
8	IC 480-607707/12	1000.0	1095.197167	25.0	178072.0	1.095197	Y



Calibration / Hexane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

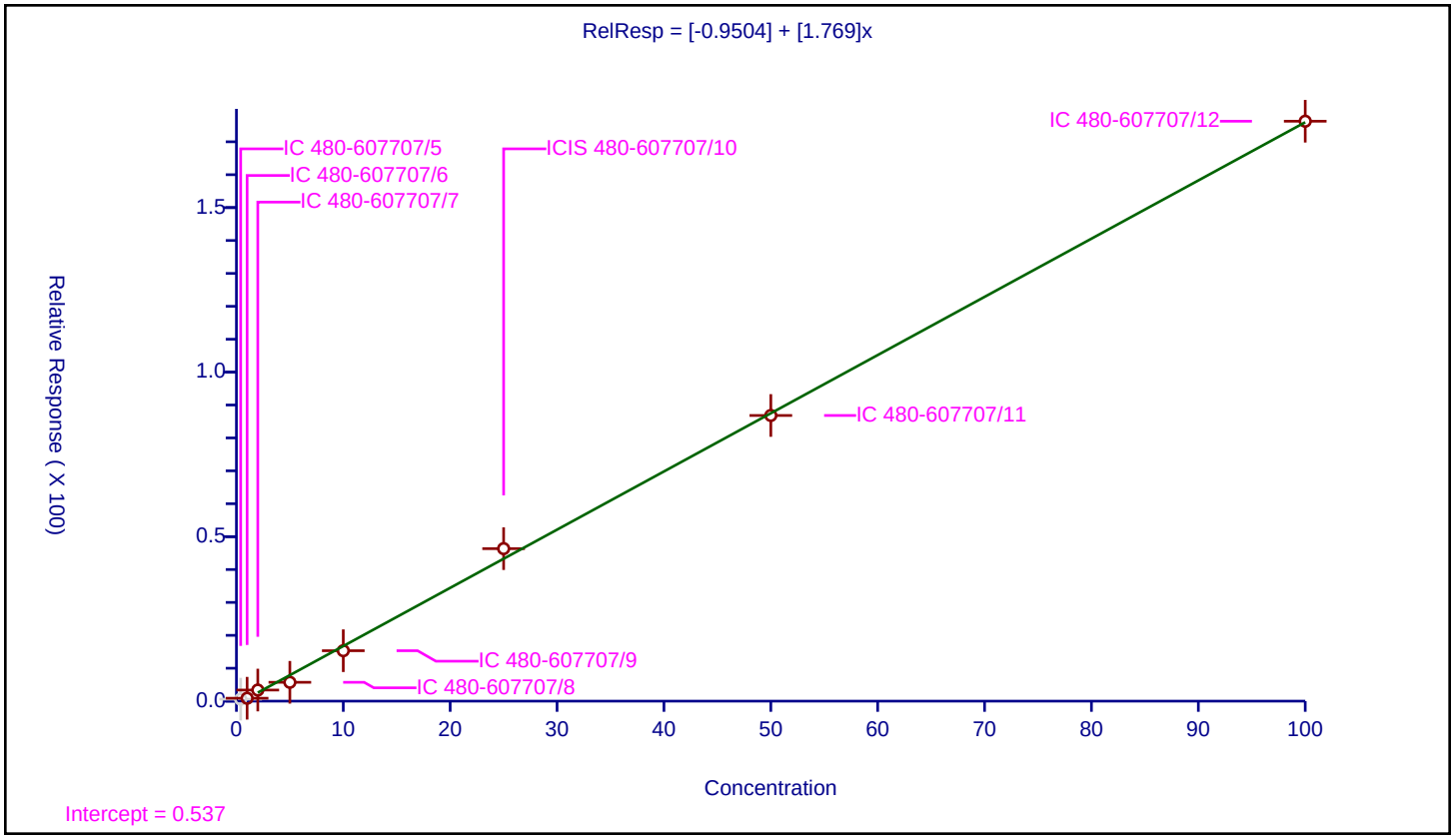
Curve Coefficients

Intercept:	-0.9504
Slope:	1.769

Error Coefficients

Standard Error:	631000
Relative Standard Error:	15.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.59969	25.0	137863.0	1.499224	N
2	IC 480-607707/6	1.0	0.886543	25.0	142548.0	0.886543	Y
3	IC 480-607707/7	2.0	3.372758	25.0	148217.0	1.686379	Y
4	IC 480-607707/8	5.0	5.73065	25.0	156614.0	1.14613	Y
5	IC 480-607707/9	10.0	15.329241	25.0	138880.0	1.532924	Y
6	ICIS 480-607707/10	25.0	46.348869	25.0	159656.0	1.853955	Y
7	IC 480-607707/11	50.0	86.81821	25.0	162495.0	1.736364	Y
8	IC 480-607707/12	100.0	176.249073	25.0	178072.0	1.762491	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

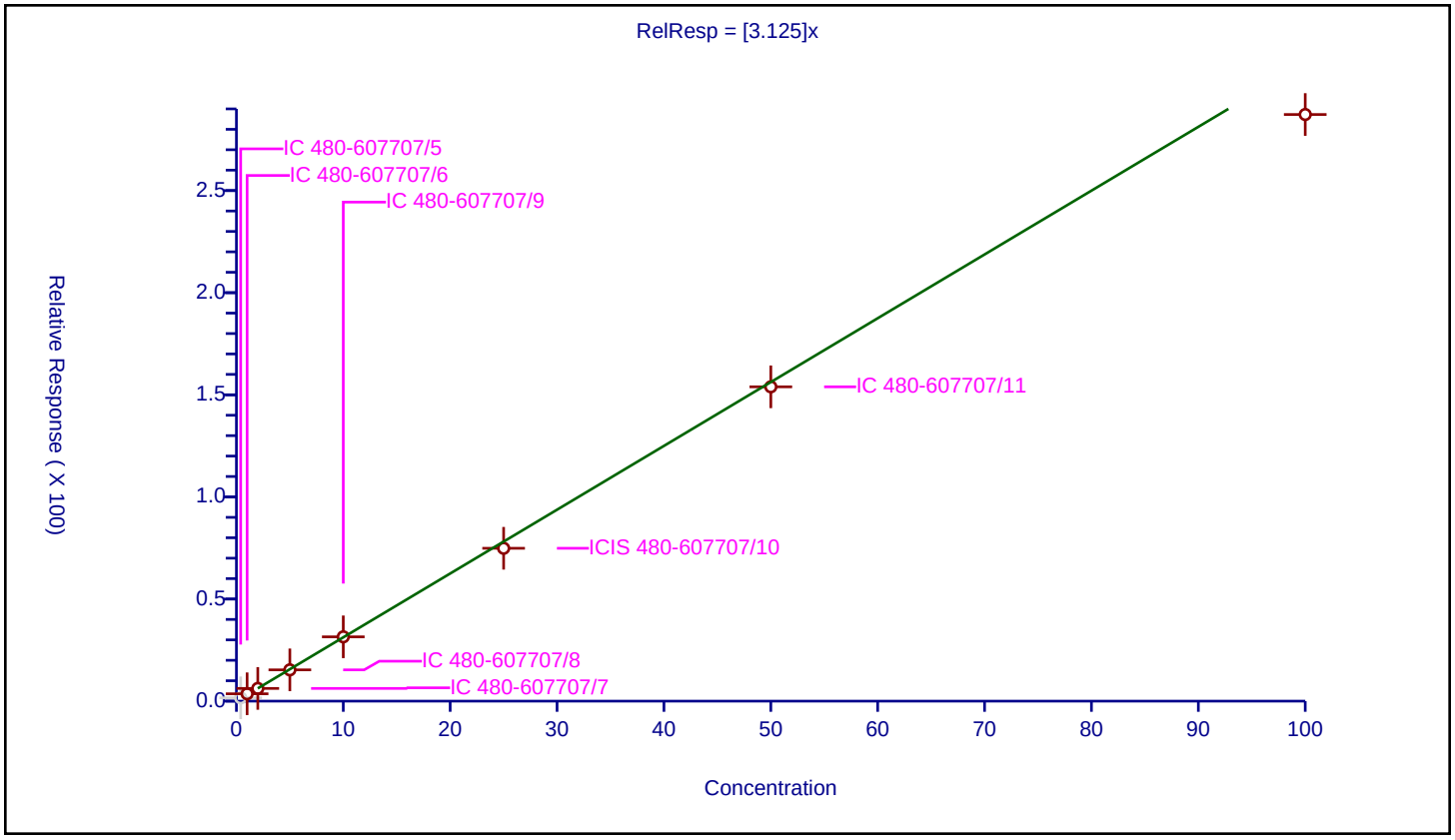
Curve Coefficients

Intercept:	0
Slope:	3.125

Error Coefficients

Standard Error:	954000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.636044	25.0	137863.0	4.090111	N
2	IC 480-607707/6	1.0	3.601945	25.0	142548.0	3.601945	Y
3	IC 480-607707/7	2.0	6.22432	25.0	148217.0	3.11216	Y
4	IC 480-607707/8	5.0	15.319831	25.0	156614.0	3.063966	Y
5	IC 480-607707/9	10.0	31.493556	25.0	138880.0	3.149356	Y
6	ICIS 480-607707/10	25.0	74.846858	25.0	159656.0	2.993874	Y
7	IC 480-607707/11	50.0	153.913659	25.0	162495.0	3.078273	Y
8	IC 480-607707/12	100.0	287.248557	25.0	178072.0	2.872486	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

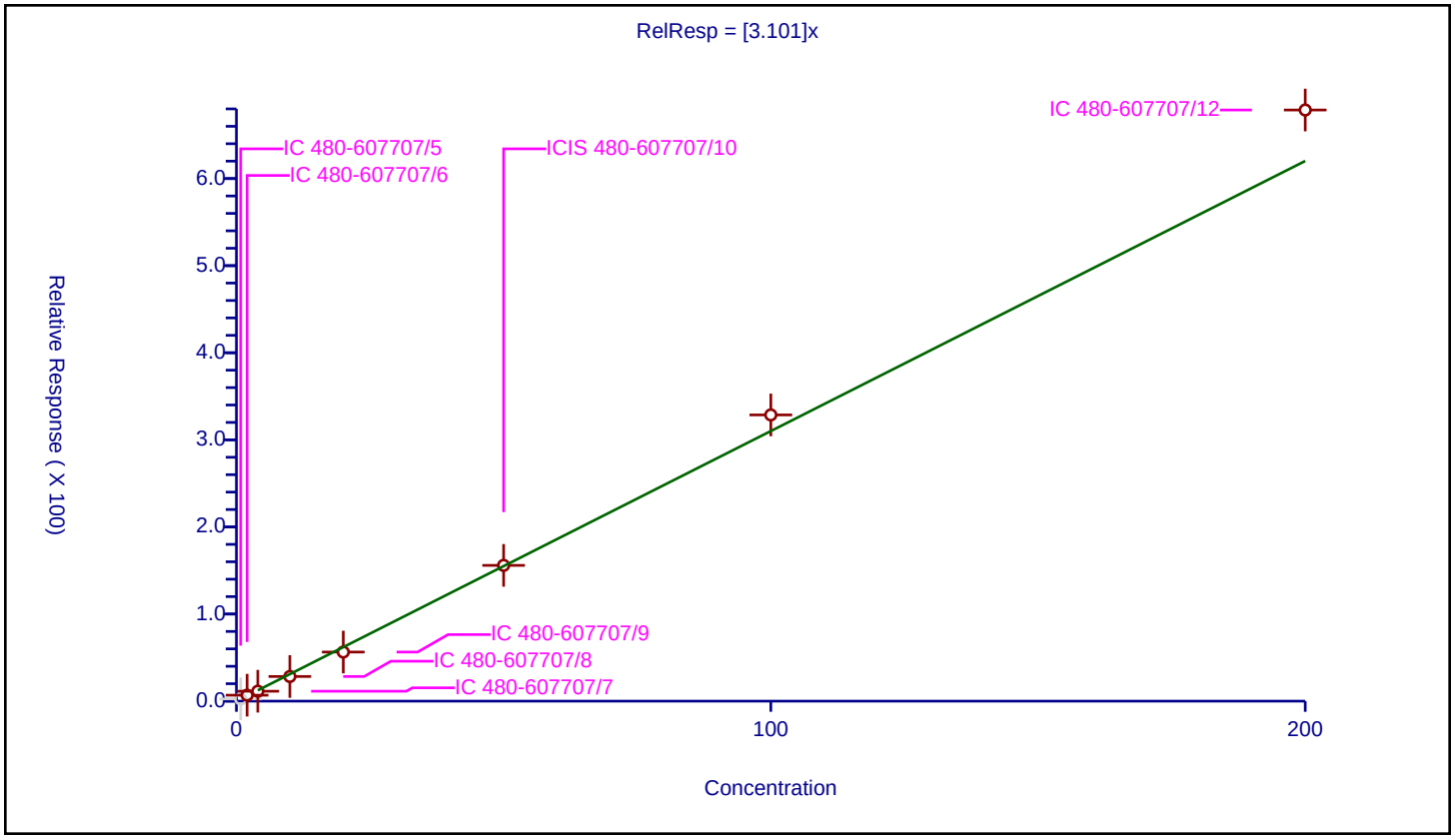
Curve Coefficients

Intercept:	0
Slope:	3.101

Error Coefficients

Standard Error:	2200000
Relative Standard Error:	8.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.8	2.550358	25.0	137863.0	3.187947	N
2	IC 480-607707/6	2.0	6.825946	25.0	142548.0	3.412973	Y
3	IC 480-607707/7	4.0	11.390731	25.0	148217.0	2.847683	Y
4	IC 480-607707/8	10.0	28.290255	25.0	156614.0	2.829026	Y
5	IC 480-607707/9	20.0	56.384289	25.0	138880.0	2.819214	Y
6	ICIS 480-607707/10	50.0	155.873722	25.0	159656.0	3.117474	Y
7	IC 480-607707/11	100.0	328.637189	25.0	162495.0	3.286372	Y
8	IC 480-607707/12	200.0	678.717597	25.0	178072.0	3.393588	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

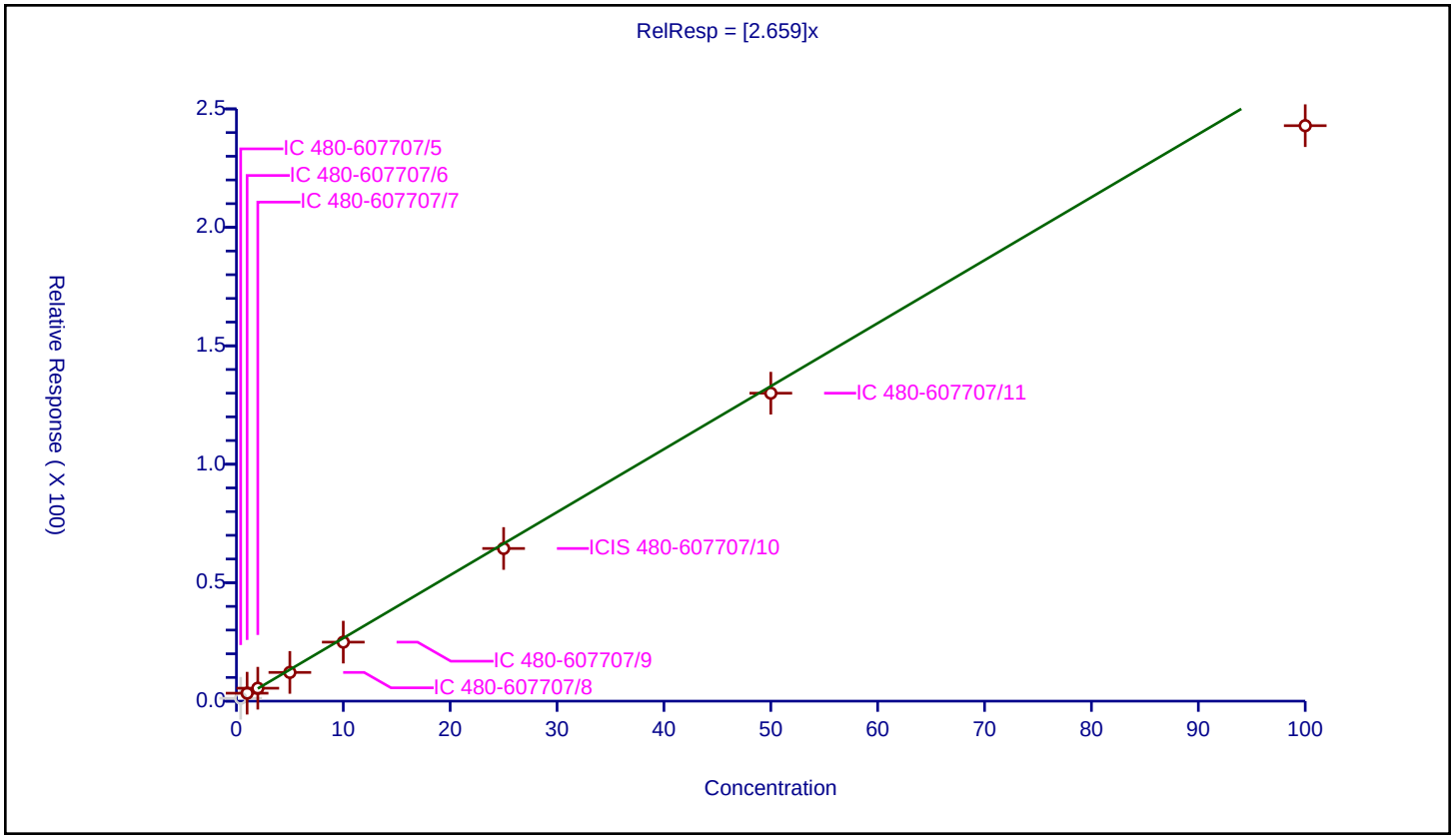
Curve Coefficients

Intercept:	0
Slope:	2.659

Error Coefficients

Standard Error:	806000
Relative Standard Error:	12.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.213705	25.0	137863.0	3.034262	N
2	IC 480-607707/6	1.0	3.360973	25.0	142548.0	3.360973	Y
3	IC 480-607707/7	2.0	5.458045	25.0	148217.0	2.729022	Y
4	IC 480-607707/8	5.0	12.129343	25.0	156614.0	2.425869	Y
5	IC 480-607707/9	10.0	24.908734	25.0	138880.0	2.490873	Y
6	ICIS 480-607707/10	25.0	64.438543	25.0	159656.0	2.577542	Y
7	IC 480-607707/11	50.0	129.98923	25.0	162495.0	2.599785	Y
8	IC 480-607707/12	100.0	242.91326	25.0	178072.0	2.429133	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

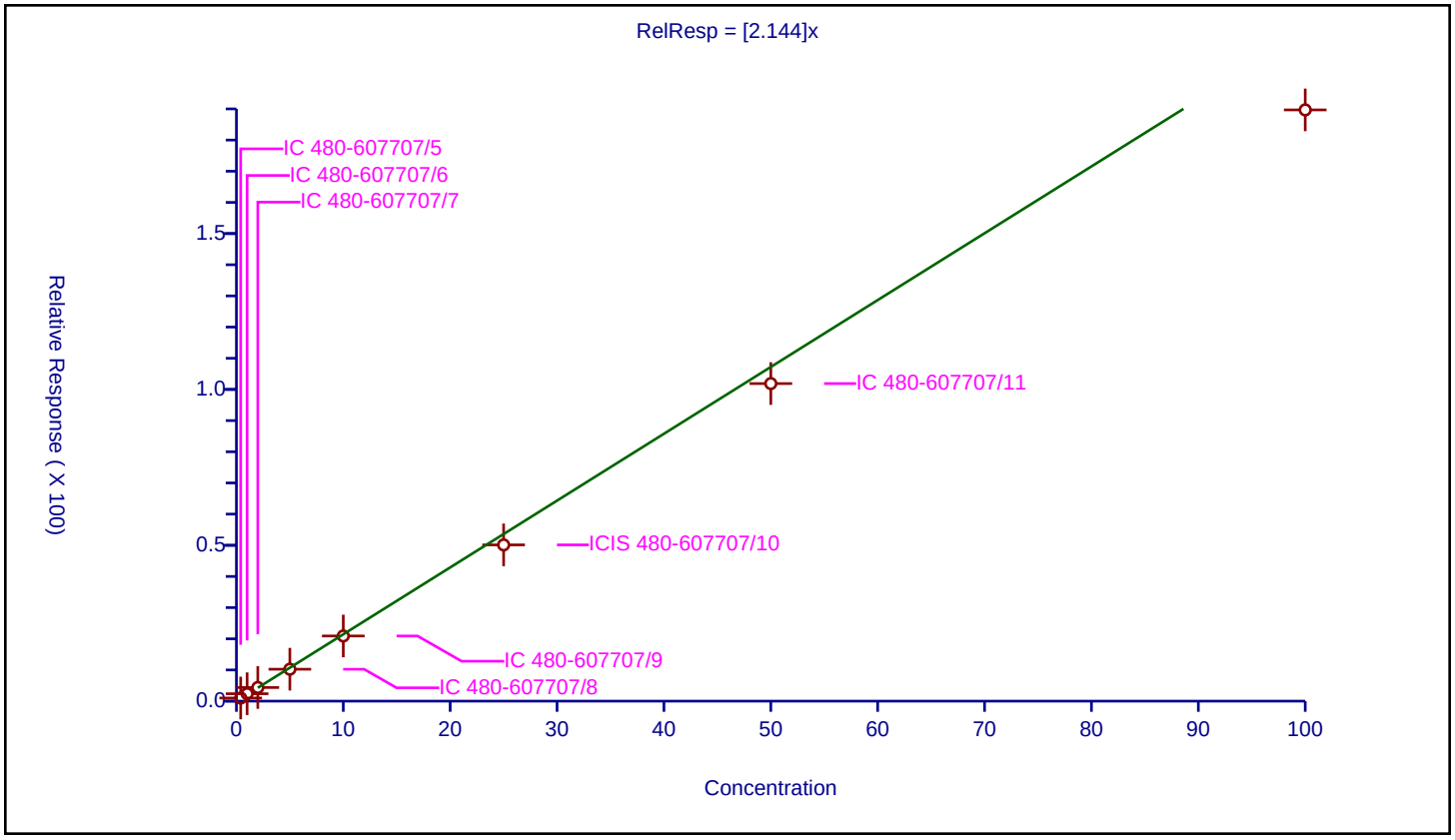
Curve Coefficients

Intercept:	0
Slope:	2.144

Error Coefficients

Standard Error:	584000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.00317	25.0	137863.0	2.507925	Y
2	IC 480-607707/6	1.0	2.381128	25.0	142548.0	2.381128	Y
3	IC 480-607707/7	2.0	4.37433	25.0	148217.0	2.187165	Y
4	IC 480-607707/8	5.0	10.240783	25.0	156614.0	2.048157	Y
5	IC 480-607707/9	10.0	20.907978	25.0	138880.0	2.090798	Y
6	ICIS 480-607707/10	25.0	50.122294	25.0	159656.0	2.004892	Y
7	IC 480-607707/11	50.0	101.879442	25.0	162495.0	2.037589	Y
8	IC 480-607707/12	100.0	189.671594	25.0	178072.0	1.896716	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

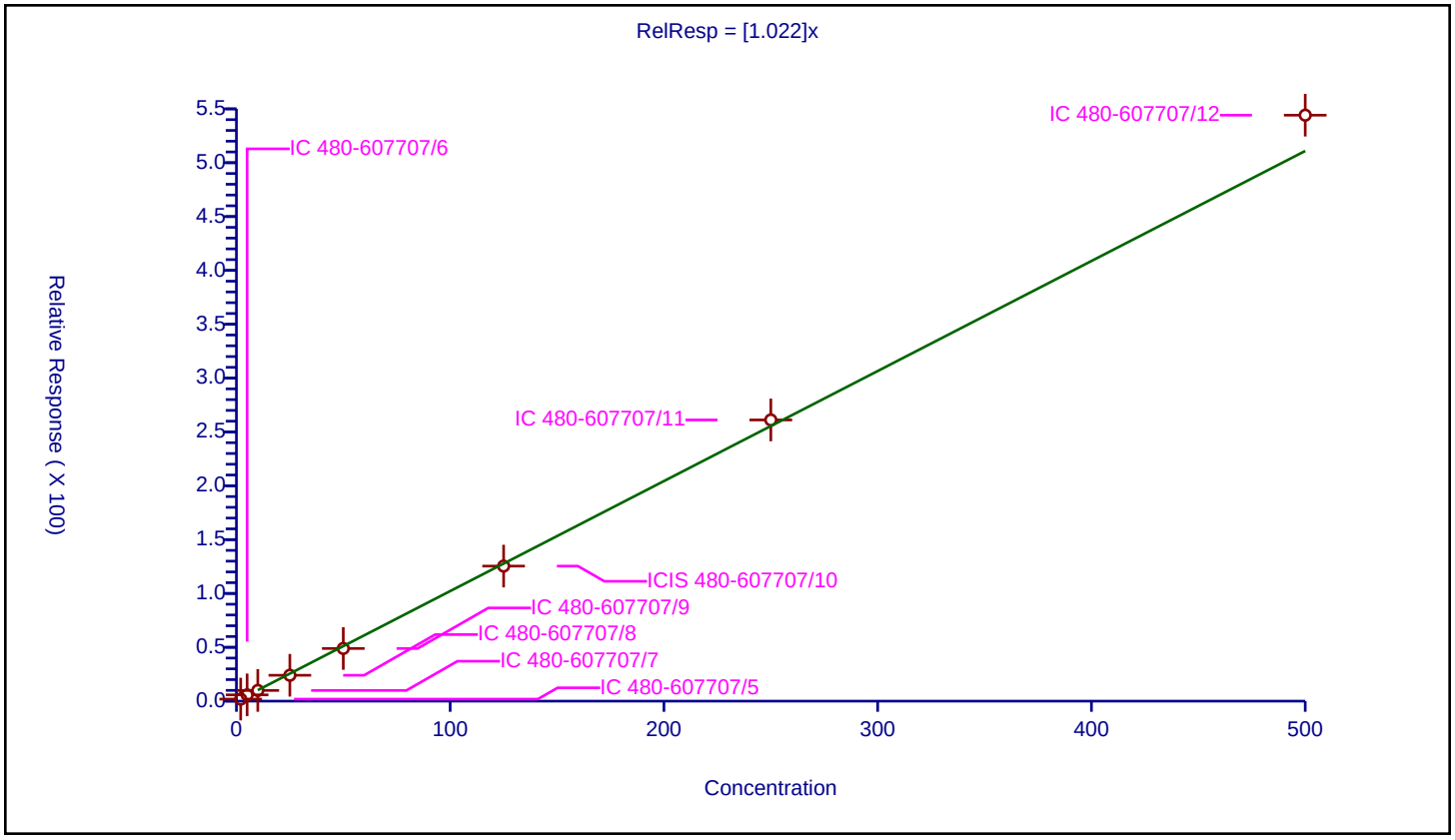
Curve Coefficients

Intercept:	0
Slope:	1.022

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	7.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	2.0	1.887925	25.0	137863.0	0.943962	Y
2	IC 480-607707/6	5.0	5.814708	25.0	142548.0	1.162942	Y
3	IC 480-607707/7	10.0	9.927336	25.0	148217.0	0.992734	Y
4	IC 480-607707/8	25.0	24.018127	25.0	156614.0	0.960725	Y
5	IC 480-607707/9	50.0	48.90733	25.0	138880.0	0.978147	Y
6	ICIS 480-607707/10	125.0	125.418869	25.0	159656.0	1.003351	Y
7	IC 480-607707/11	250.0	261.138804	25.0	162495.0	1.044555	Y
8	IC 480-607707/12	500.0	544.163035	25.0	178072.0	1.088326	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

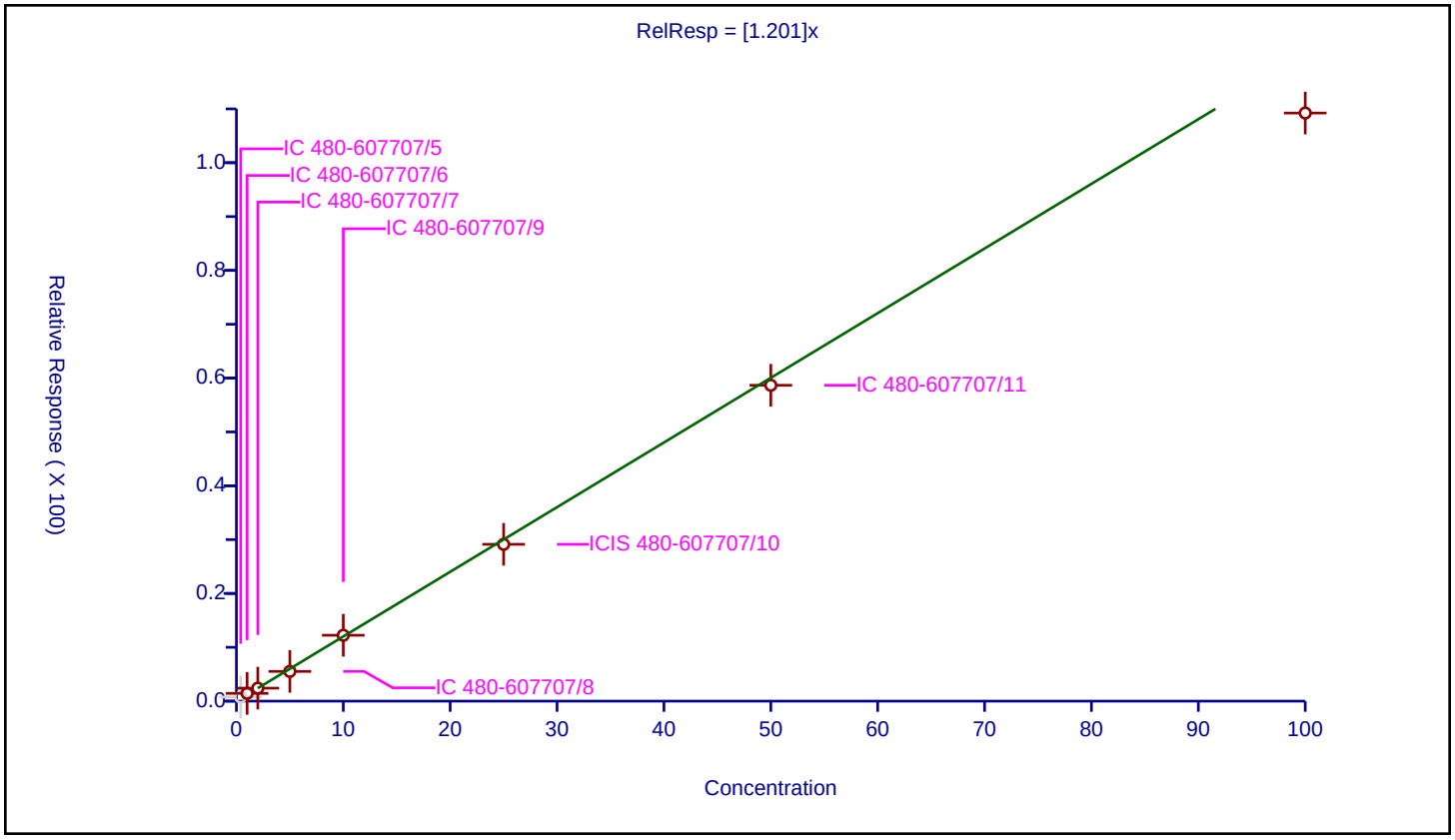
Curve Coefficients

Intercept:	0
Slope:	1.201

Error Coefficients

Standard Error:	363000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.760175	25.0	137863.0	1.900437	N
2	IC 480-607707/6	1.0	1.440918	25.0	142548.0	1.440918	Y
3	IC 480-607707/7	2.0	2.413185	25.0	148217.0	1.206592	Y
4	IC 480-607707/8	5.0	5.522176	25.0	156614.0	1.104435	Y
5	IC 480-607707/9	10.0	12.236643	25.0	138880.0	1.223664	Y
6	ICIS 480-607707/10	25.0	29.127781	25.0	159656.0	1.165111	Y
7	IC 480-607707/11	50.0	58.668113	25.0	162495.0	1.173362	Y
8	IC 480-607707/12	100.0	109.230396	25.0	178072.0	1.092304	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

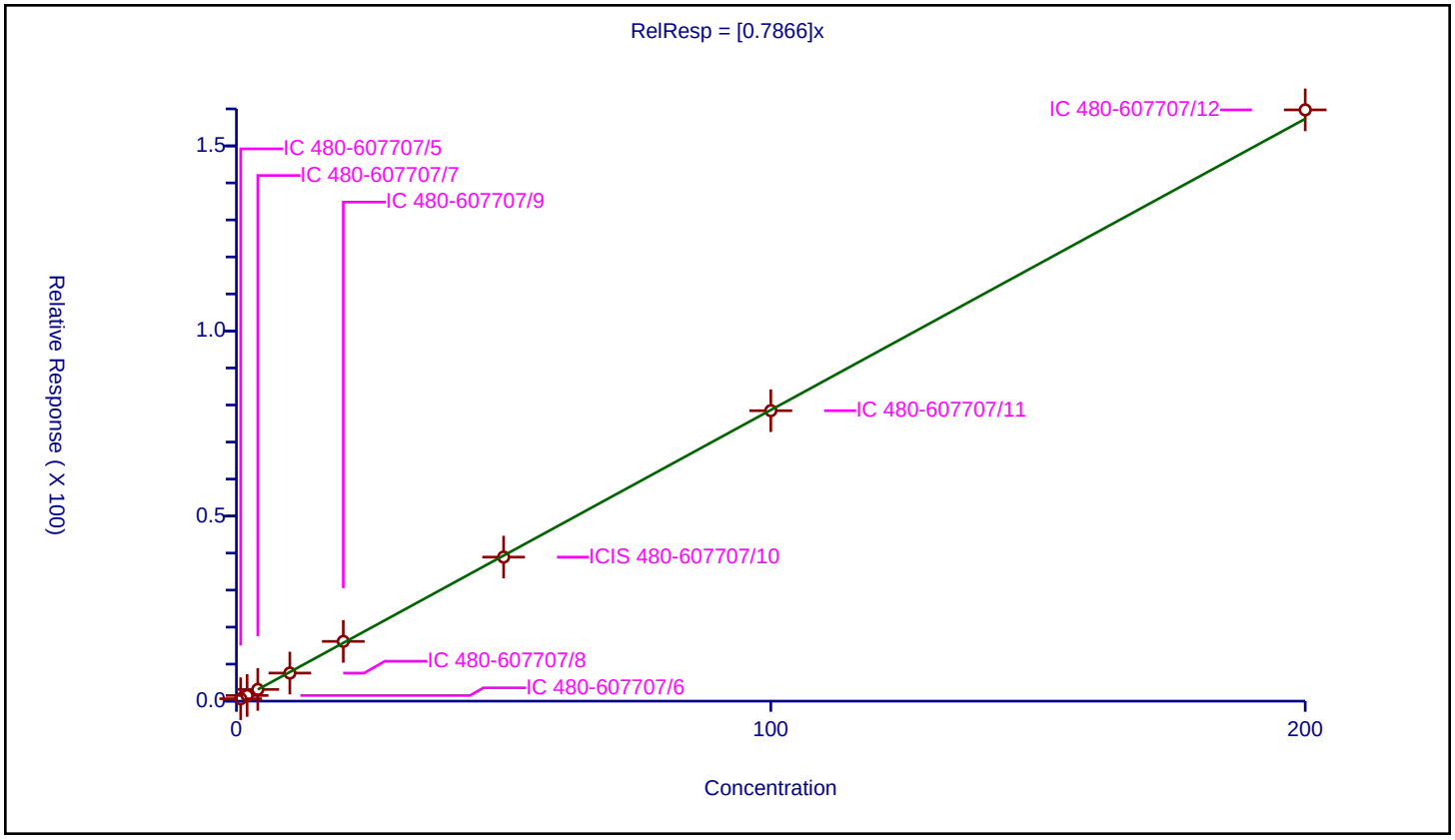
Curve Coefficients

Intercept:	0
Slope:	0.7866

Error Coefficients

Standard Error:	482000
Relative Standard Error:	2.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.8	0.649739	25.0	137863.0	0.812174	Y
2	IC 480-607707/6	2.0	1.525802	25.0	142548.0	0.762901	Y
3	IC 480-607707/7	4.0	3.159051	25.0	148217.0	0.789763	Y
4	IC 480-607707/8	10.0	7.587285	25.0	156614.0	0.758728	Y
5	IC 480-607707/9	20.0	16.143793	25.0	138880.0	0.80719	Y
6	ICIS 480-607707/10	50.0	38.916953	25.0	159656.0	0.778339	Y
7	IC 480-607707/11	100.0	78.468107	25.0	162495.0	0.784681	Y
8	IC 480-607707/12	200.0	159.736792	25.0	178072.0	0.798684	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

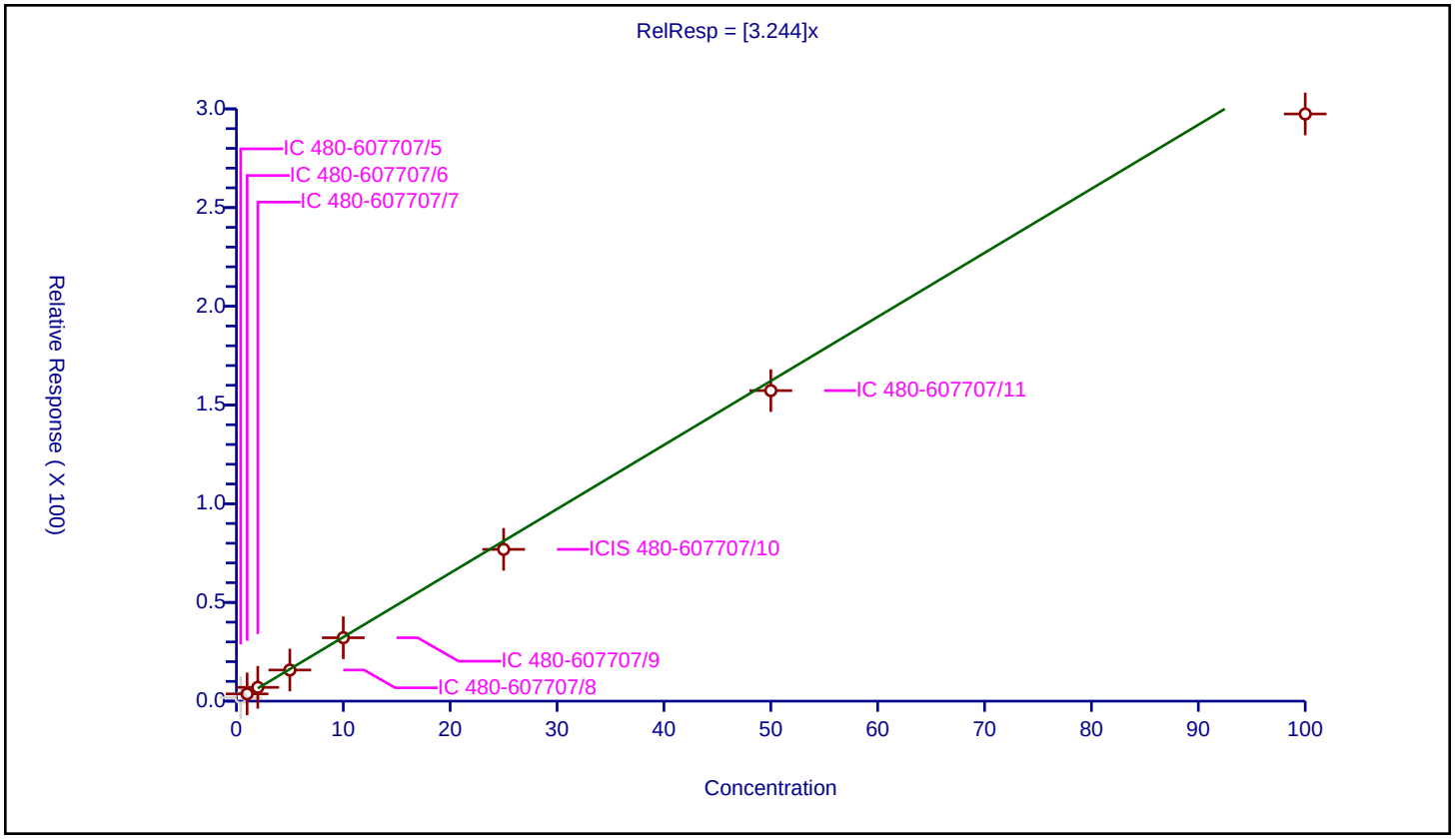
Curve Coefficients

Intercept:	0
Slope:	3.244

Error Coefficients

Standard Error:	985000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.780391	25.0	137863.0	4.450977	N
2	IC 480-607707/6	1.0	3.660872	25.0	142548.0	3.660872	Y
3	IC 480-607707/7	2.0	6.975414	25.0	148217.0	3.487707	Y
4	IC 480-607707/8	5.0	15.758649	25.0	156614.0	3.15173	Y
5	IC 480-607707/9	10.0	32.118556	25.0	138880.0	3.211856	Y
6	ICIS 480-607707/10	25.0	76.884677	25.0	159656.0	3.075387	Y
7	IC 480-607707/11	50.0	157.305763	25.0	162495.0	3.146115	Y
8	IC 480-607707/12	100.0	297.428849	25.0	178072.0	2.974288	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

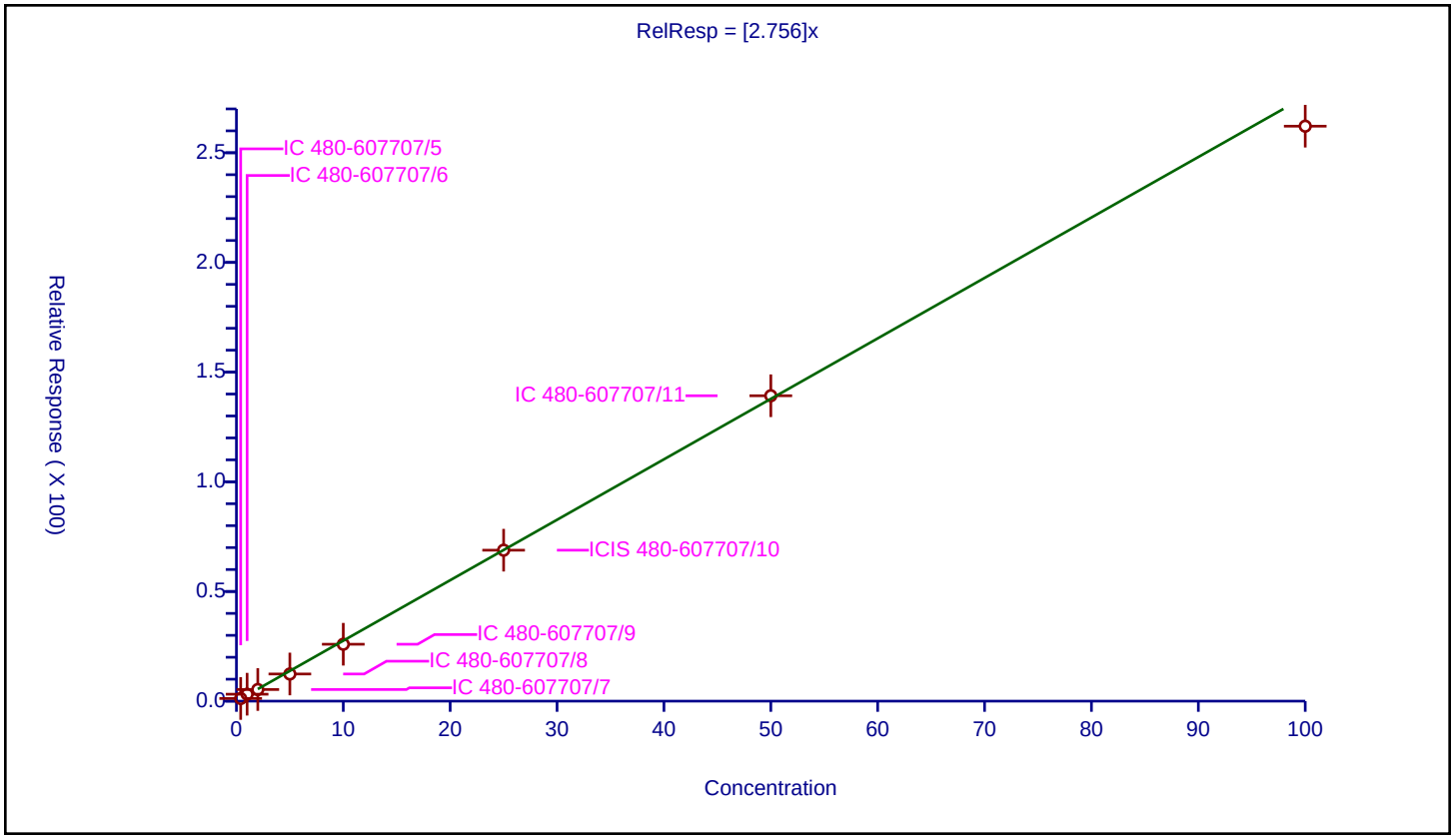
Curve Coefficients

Intercept:	0
Slope:	2.756

Error Coefficients

Standard Error:	804000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.204819	25.0	137863.0	3.012048	Y
2	IC 480-607707/6	1.0	3.159988	25.0	142548.0	3.159988	Y
3	IC 480-607707/7	2.0	5.300168	25.0	148217.0	2.650084	Y
4	IC 480-607707/8	5.0	12.374213	25.0	156614.0	2.474843	Y
5	IC 480-607707/9	10.0	25.93894	25.0	138880.0	2.593894	Y
6	ICIS 480-607707/10	25.0	68.81608	25.0	159656.0	2.752643	Y
7	IC 480-607707/11	50.0	139.230899	25.0	162495.0	2.784618	Y
8	IC 480-607707/12	100.0	262.122484	25.0	178072.0	2.621225	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

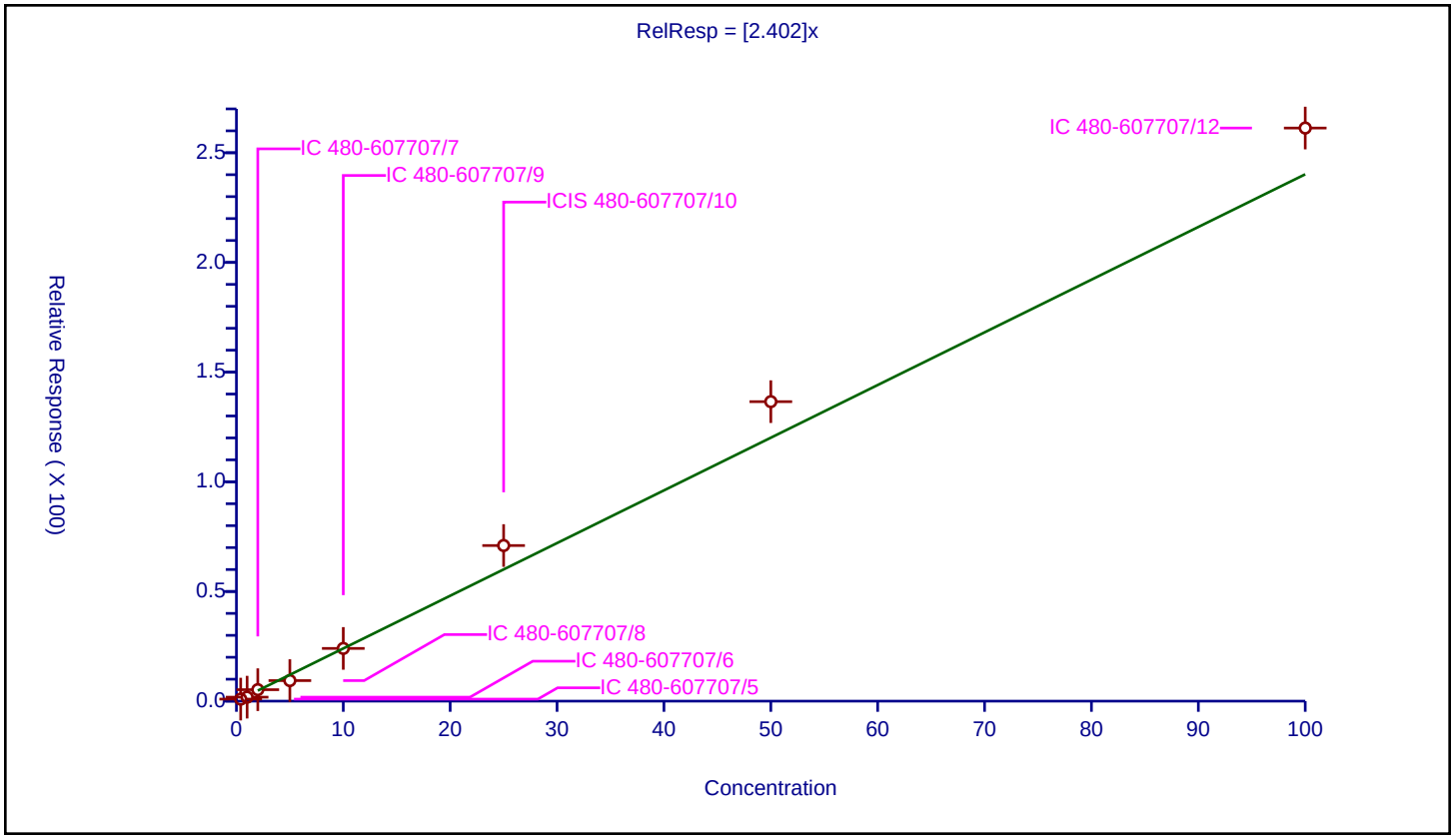
Curve Coefficients

Intercept:	0
Slope:	2.402

Error Coefficients

Standard Error:	800000
Relative Standard Error:	15.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.932629	25.0	137863.0	2.331572	Y
2	IC 480-607707/6	1.0	1.809215	25.0	142548.0	1.809215	Y
3	IC 480-607707/7	2.0	5.230675	25.0	148217.0	2.615338	Y
4	IC 480-607707/8	5.0	9.371608	25.0	156614.0	1.874322	Y
5	IC 480-607707/9	10.0	24.029918	25.0	138880.0	2.402992	Y
6	ICIS 480-607707/10	25.0	70.941117	25.0	159656.0	2.837645	Y
7	IC 480-607707/11	50.0	136.538817	25.0	162495.0	2.730776	Y
8	IC 480-607707/12	100.0	261.275495	25.0	178072.0	2.612755	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

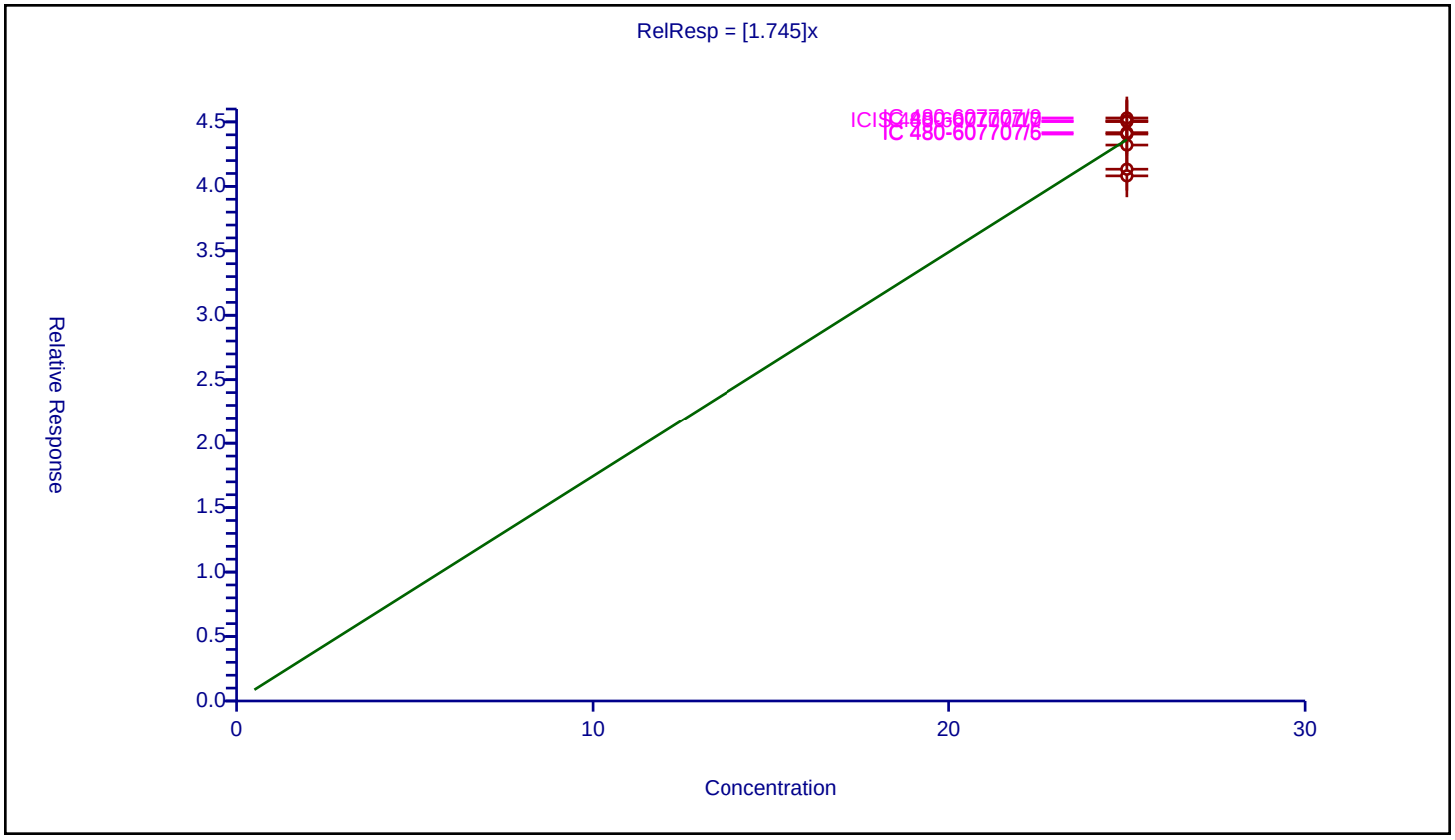
Curve Coefficients

Intercept:	0
Slope:	1.745

Error Coefficients

Standard Error:	285000
Relative Standard Error:	3.9
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0.000000000000000222

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	25.0	44.167579	25.0	137863.0	1.766703	Y
2	IC 480-607707/6	25.0	44.054985	25.0	142548.0	1.762199	Y
3	IC 480-607707/7	25.0	45.021489	25.0	148217.0	1.80086	Y
4	IC 480-607707/8	25.0	43.205109	25.0	156614.0	1.728204	Y
5	IC 480-607707/9	25.0	45.304219	25.0	138880.0	1.812169	Y
6	ICIS 480-607707/10	25.0	45.085058	25.0	159656.0	1.803402	Y
7	IC 480-607707/11	25.0	41.331272	25.0	162495.0	1.653251	Y
8	IC 480-607707/12	25.0	40.813828	25.0	178072.0	1.632553	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

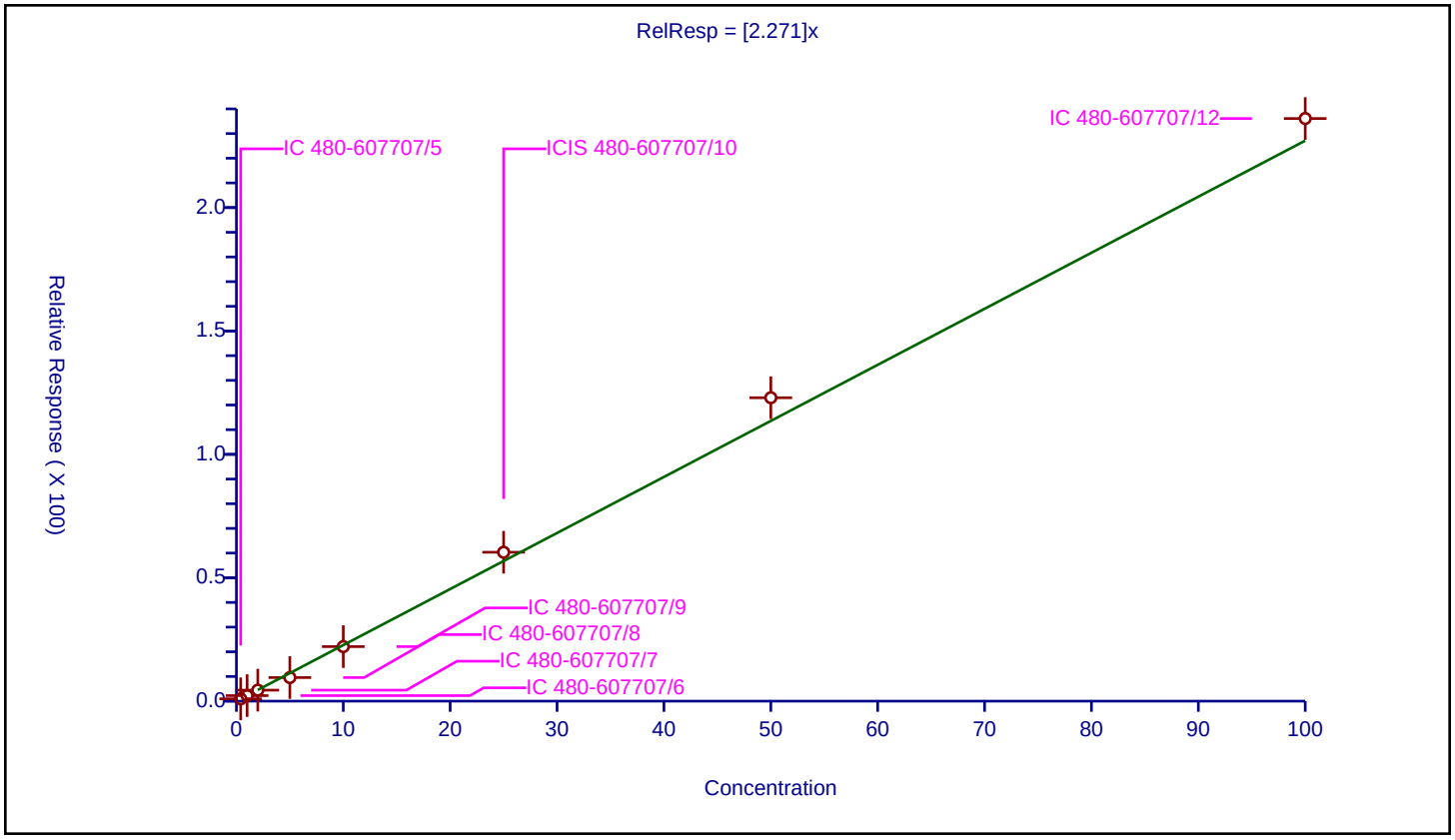
Curve Coefficients

Intercept:	0
Slope:	2.271

Error Coefficients

Standard Error:	720000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.939338	25.0	137863.0	2.348346	Y
2	IC 480-607707/6	1.0	2.23872	25.0	142548.0	2.23872	Y
3	IC 480-607707/7	2.0	4.456473	25.0	148217.0	2.228236	Y
4	IC 480-607707/8	5.0	9.557575	25.0	156614.0	1.911515	Y
5	IC 480-607707/9	10.0	22.095694	25.0	138880.0	2.209569	Y
6	ICIS 480-607707/10	25.0	60.341923	25.0	159656.0	2.413677	Y
7	IC 480-607707/11	50.0	122.950245	25.0	162495.0	2.459005	Y
8	IC 480-607707/12	100.0	236.097056	25.0	178072.0	2.360971	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

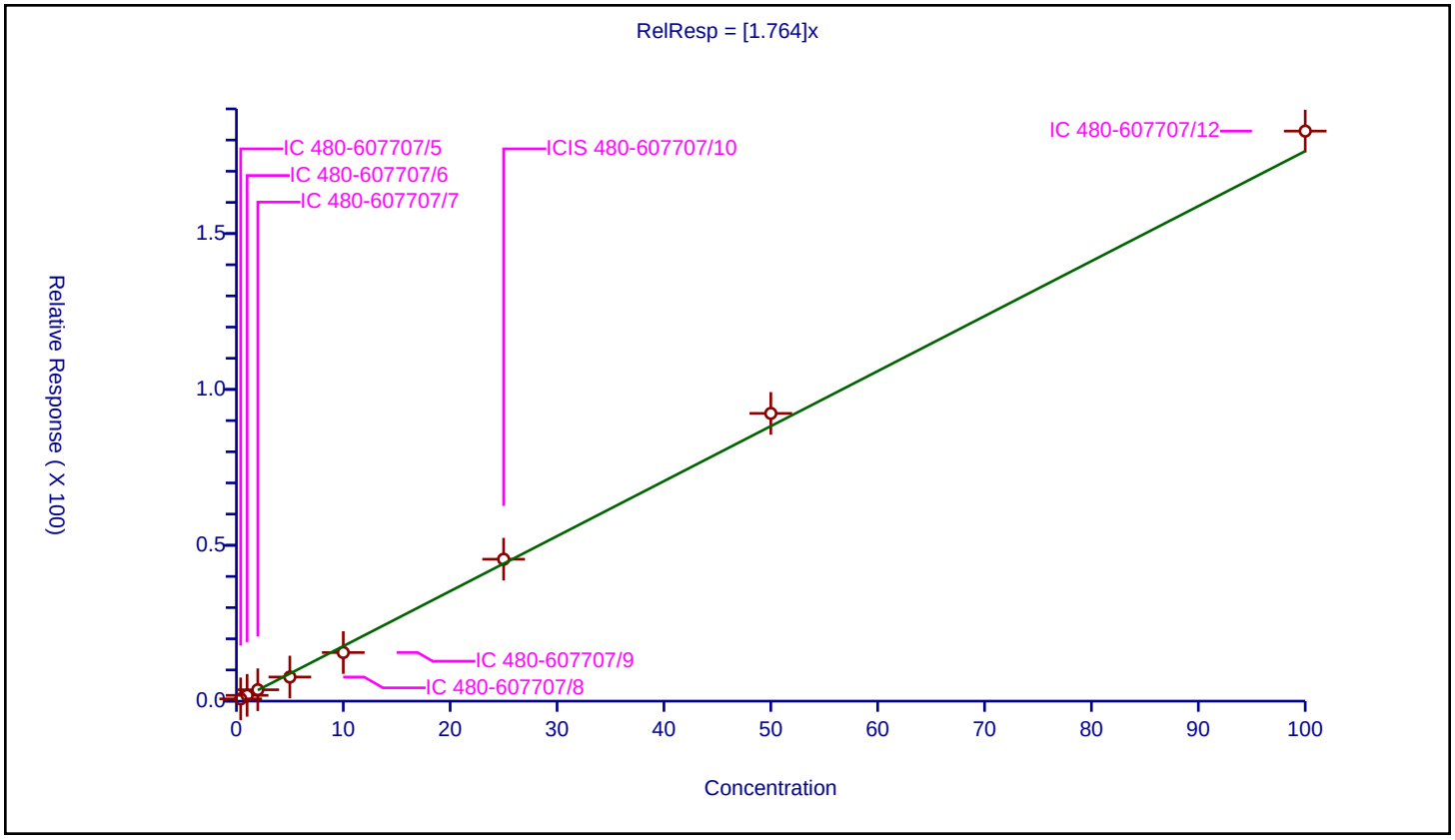
Curve Coefficients

Intercept:	0
Slope:	1.764

Error Coefficients

Standard Error:	554000
Relative Standard Error:	7.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.730254	25.0	137863.0	1.825635	Y
2	IC 480-607707/6	1.0	1.862004	25.0	142548.0	1.862004	Y
3	IC 480-607707/7	2.0	3.649716	25.0	148217.0	1.824858	Y
4	IC 480-607707/8	5.0	7.737335	25.0	156614.0	1.547467	Y
5	IC 480-607707/9	10.0	15.598718	25.0	138880.0	1.559872	Y
6	ICIS 480-607707/10	25.0	45.526632	25.0	159656.0	1.821065	Y
7	IC 480-607707/11	50.0	92.314071	25.0	162495.0	1.846281	Y
8	IC 480-607707/12	100.0	182.876589	25.0	178072.0	1.828766	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

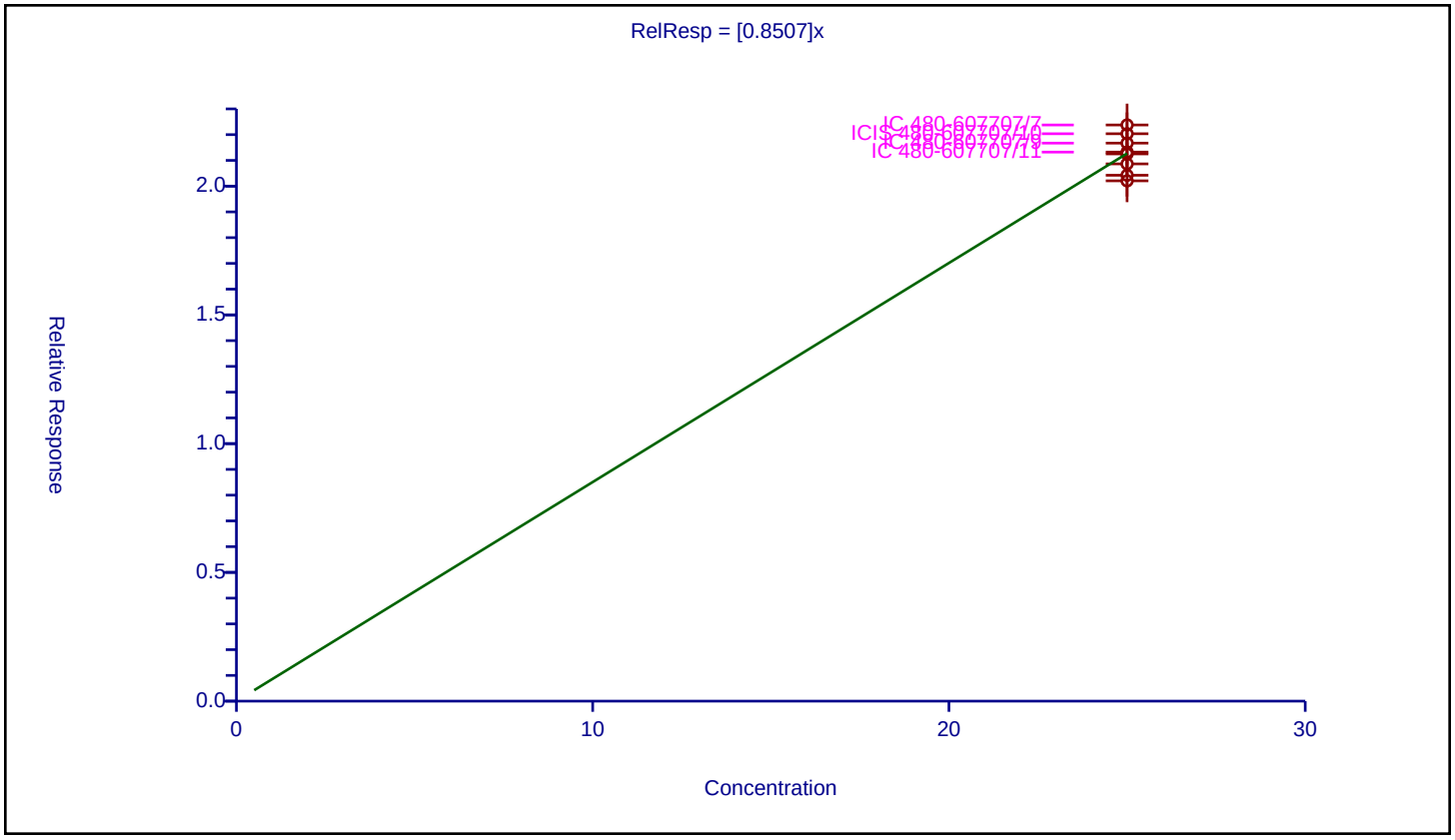
Curve Coefficients

Intercept:	0
Slope:	0.8507

Error Coefficients

Standard Error:	140000
Relative Standard Error:	3.5
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	25.0	20.422811	25.0	137863.0	0.816912	Y
2	IC 480-607707/6	25.0	20.864025	25.0	142548.0	0.834561	Y
3	IC 480-607707/7	25.0	22.374964	25.0	148217.0	0.894999	Y
4	IC 480-607707/8	25.0	21.251772	25.0	156614.0	0.850071	Y
5	IC 480-607707/9	25.0	21.670507	25.0	138880.0	0.86682	Y
6	ICIS 480-607707/10	25.0	22.035032	25.0	159656.0	0.881401	Y
7	IC 480-607707/11	25.0	21.32281	25.0	162495.0	0.852912	Y
8	IC 480-607707/12	25.0	20.206293	25.0	178072.0	0.808252	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

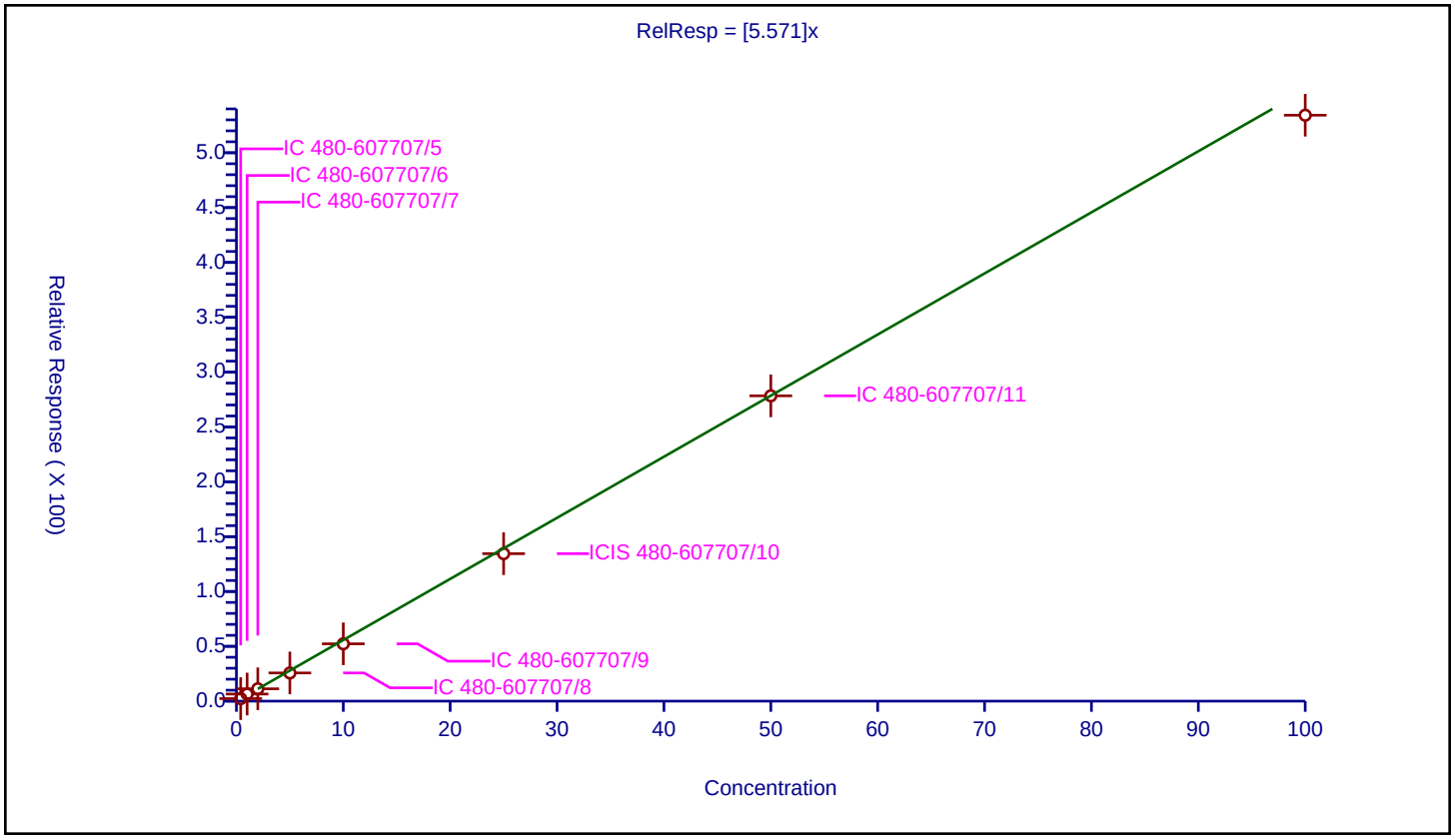
Curve Coefficients

Intercept:	0
Slope:	5.571

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	2.330937	25.0	137863.0	5.827343	Y
2	IC 480-607707/6	1.0	6.462385	25.0	142548.0	6.462385	Y
3	IC 480-607707/7	2.0	11.24736	25.0	148217.0	5.62368	Y
4	IC 480-607707/8	5.0	25.694382	25.0	156614.0	5.138876	Y
5	IC 480-607707/9	10.0	52.275166	25.0	138880.0	5.227517	Y
6	ICIS 480-607707/10	25.0	134.448596	25.0	159656.0	5.377944	Y
7	IC 480-607707/11	50.0	278.37795	25.0	162495.0	5.567559	Y
8	IC 480-607707/12	100.0	534.232642	25.0	178072.0	5.342326	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

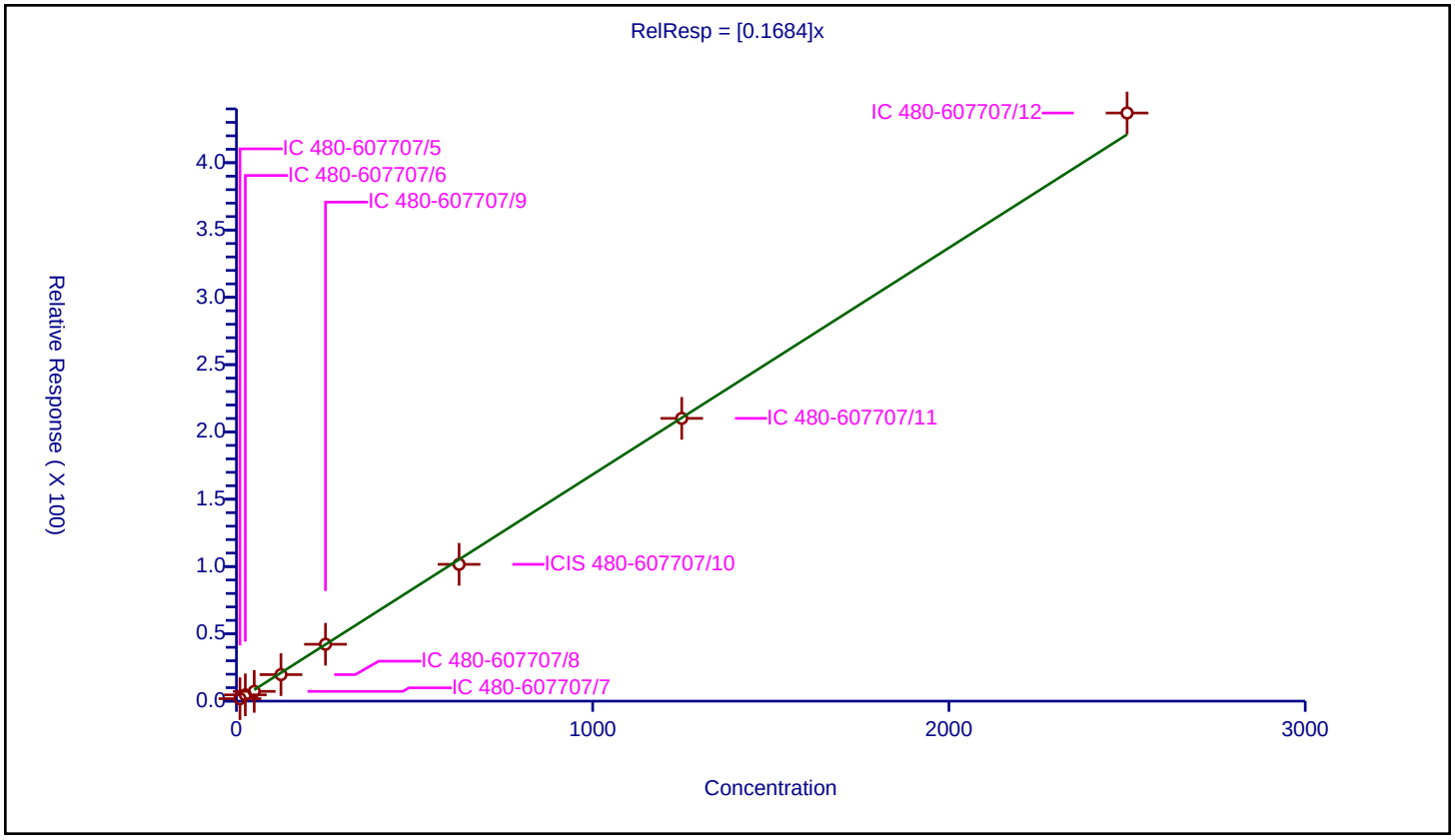
Curve Coefficients

Intercept:	0
Slope:	0.1684

Error Coefficients

Standard Error:	1310000
Relative Standard Error:	8.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	10.0	1.835155	25.0	137863.0	0.183516	Y
2	IC 480-607707/6	25.0	4.666148	25.0	142548.0	0.186646	Y
3	IC 480-607707/7	50.0	7.24394	25.0	148217.0	0.144879	Y
4	IC 480-607707/8	125.0	19.702421	25.0	156614.0	0.157619	Y
5	IC 480-607707/9	250.0	42.256804	25.0	138880.0	0.169027	Y
6	ICIS 480-607707/10	625.0	101.645413	25.0	159656.0	0.162633	Y
7	IC 480-607707/11	1250.0	210.091695	25.0	162495.0	0.168073	Y
8	IC 480-607707/12	2500.0	436.954013	25.0	178072.0	0.174782	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

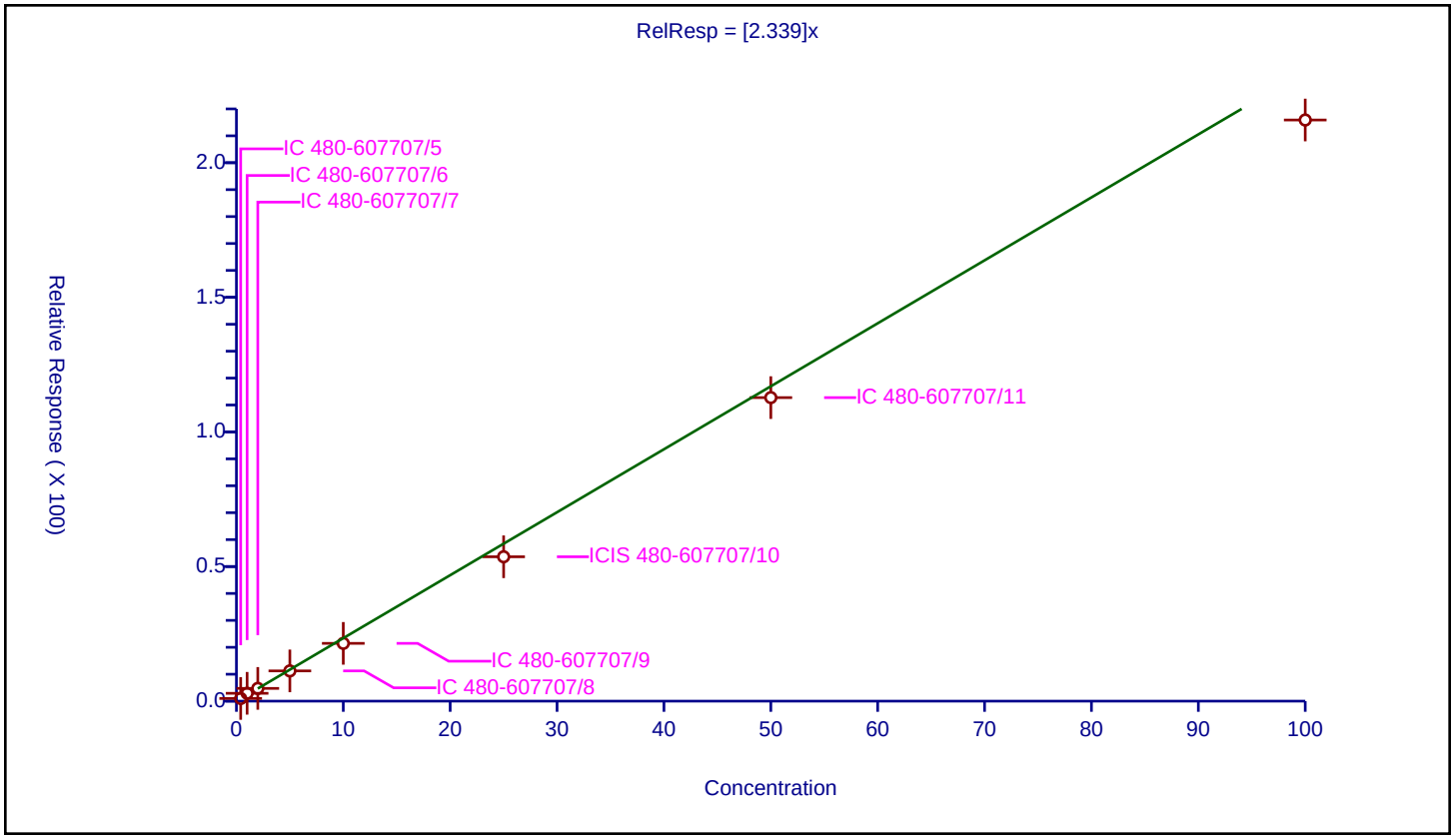
Curve Coefficients

Intercept:	0
Slope:	2.339

Error Coefficients

Standard Error:	659000
Relative Standard Error:	11.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.991927	25.0	137863.0	2.479817	Y
2	IC 480-607707/6	1.0	2.912528	25.0	142548.0	2.912528	Y
3	IC 480-607707/7	2.0	4.73748	25.0	148217.0	2.36874	Y
4	IC 480-607707/8	5.0	11.233032	25.0	156614.0	2.246606	Y
5	IC 480-607707/9	10.0	21.461154	25.0	138880.0	2.146115	Y
6	ICIS 480-607707/10	25.0	53.628583	25.0	159656.0	2.145143	Y
7	IC 480-607707/11	50.0	112.755623	25.0	162495.0	2.255112	Y
8	IC 480-607707/12	100.0	215.873074	25.0	178072.0	2.158731	Y



Calibration / n-Heptane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

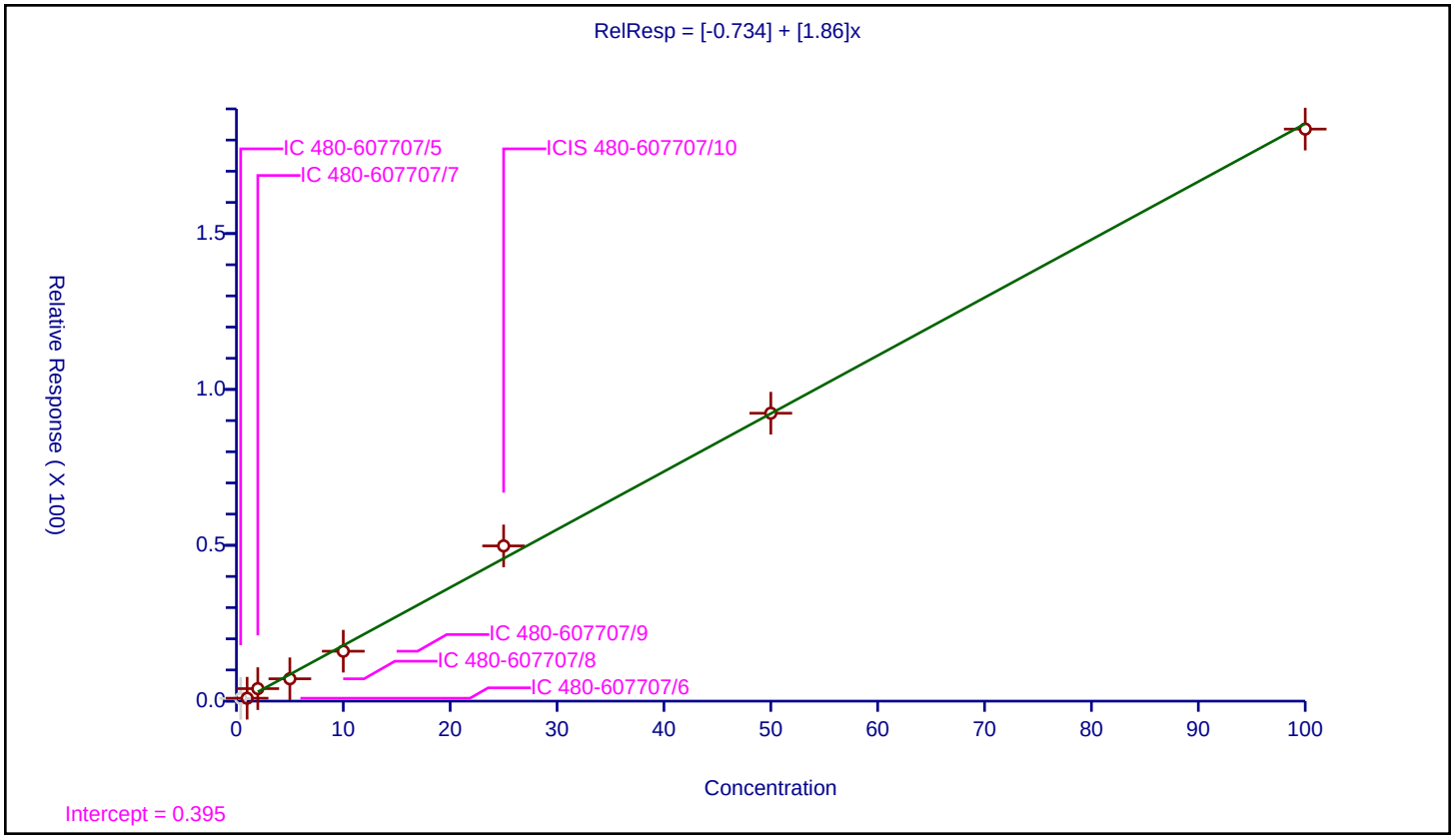
Curve Coefficients

Intercept:	-0.734
Slope:	1.86

Error Coefficients

Standard Error:	660000
Relative Standard Error:	15.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.872787	25.0	137863.0	2.181967	N
2	IC 480-607707/6	1.0	0.932318	25.0	142548.0	0.932318	Y
3	IC 480-607707/7	2.0	4.007637	25.0	148217.0	2.003819	Y
4	IC 480-607707/8	5.0	7.17273	25.0	156614.0	1.434546	Y
5	IC 480-607707/9	10.0	16.012745	25.0	138880.0	1.601274	Y
6	ICIS 480-607707/10	25.0	49.802074	25.0	159656.0	1.992083	Y
7	IC 480-607707/11	50.0	92.371458	25.0	162495.0	1.847429	Y
8	IC 480-607707/12	100.0	183.52394	25.0	178072.0	1.835239	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

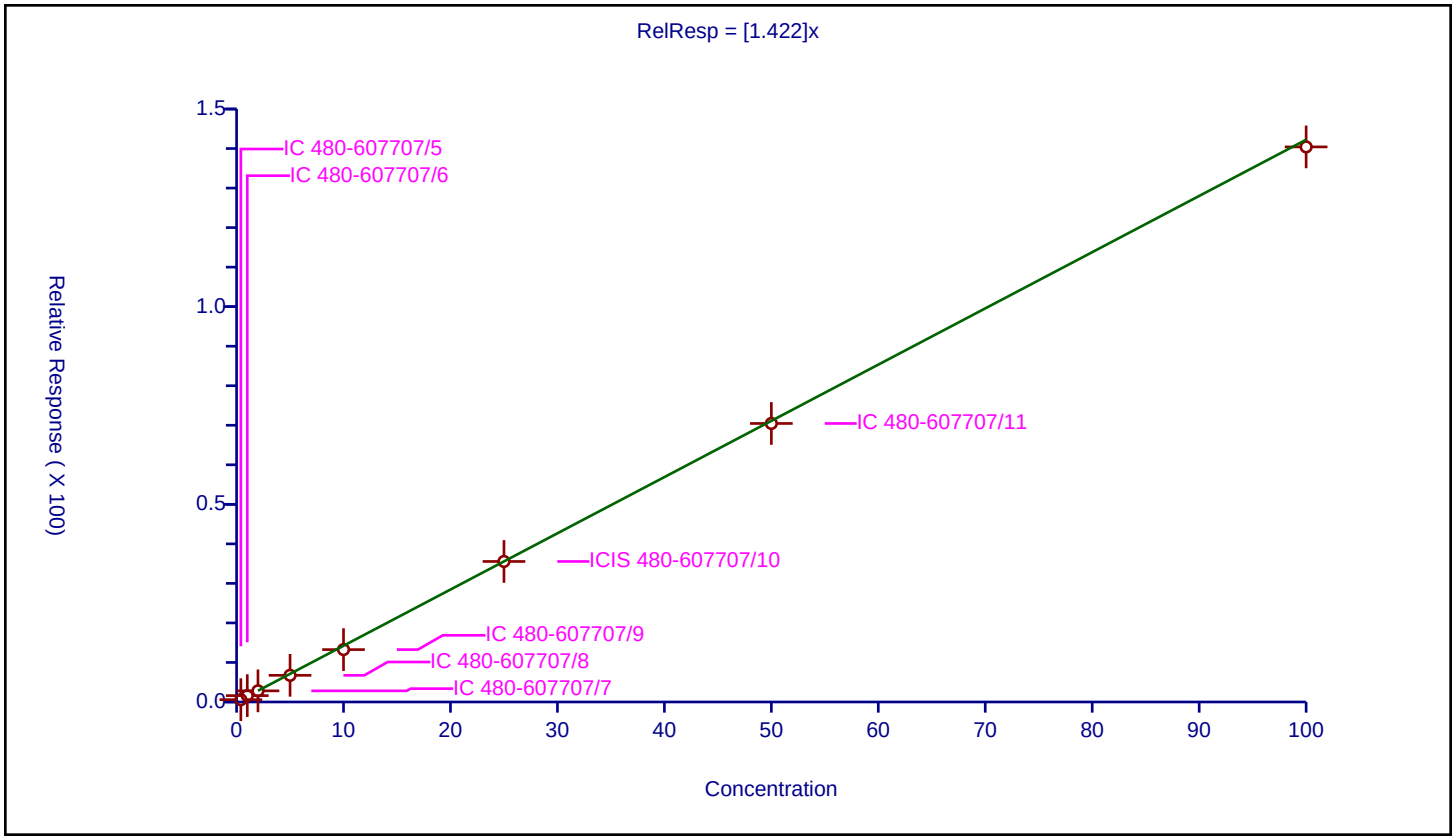
Curve Coefficients

Intercept:	0
Slope:	1.422

Error Coefficients

Standard Error:	426000
Relative Standard Error:	6.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.58083	25.0	137863.0	1.452076	Y
2	IC 480-607707/6	1.0	1.607704	25.0	142548.0	1.607704	Y
3	IC 480-607707/7	2.0	2.819009	25.0	148217.0	1.409504	Y
4	IC 480-607707/8	5.0	6.744608	25.0	156614.0	1.348922	Y
5	IC 480-607707/9	10.0	13.250108	25.0	138880.0	1.325011	Y
6	ICIS 480-607707/10	25.0	35.547364	25.0	159656.0	1.421895	Y
7	IC 480-607707/11	50.0	70.457091	25.0	162495.0	1.409142	Y
8	IC 480-607707/12	100.0	140.411744	25.0	178072.0	1.404117	Y



Calibration / Methylcyclohexane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

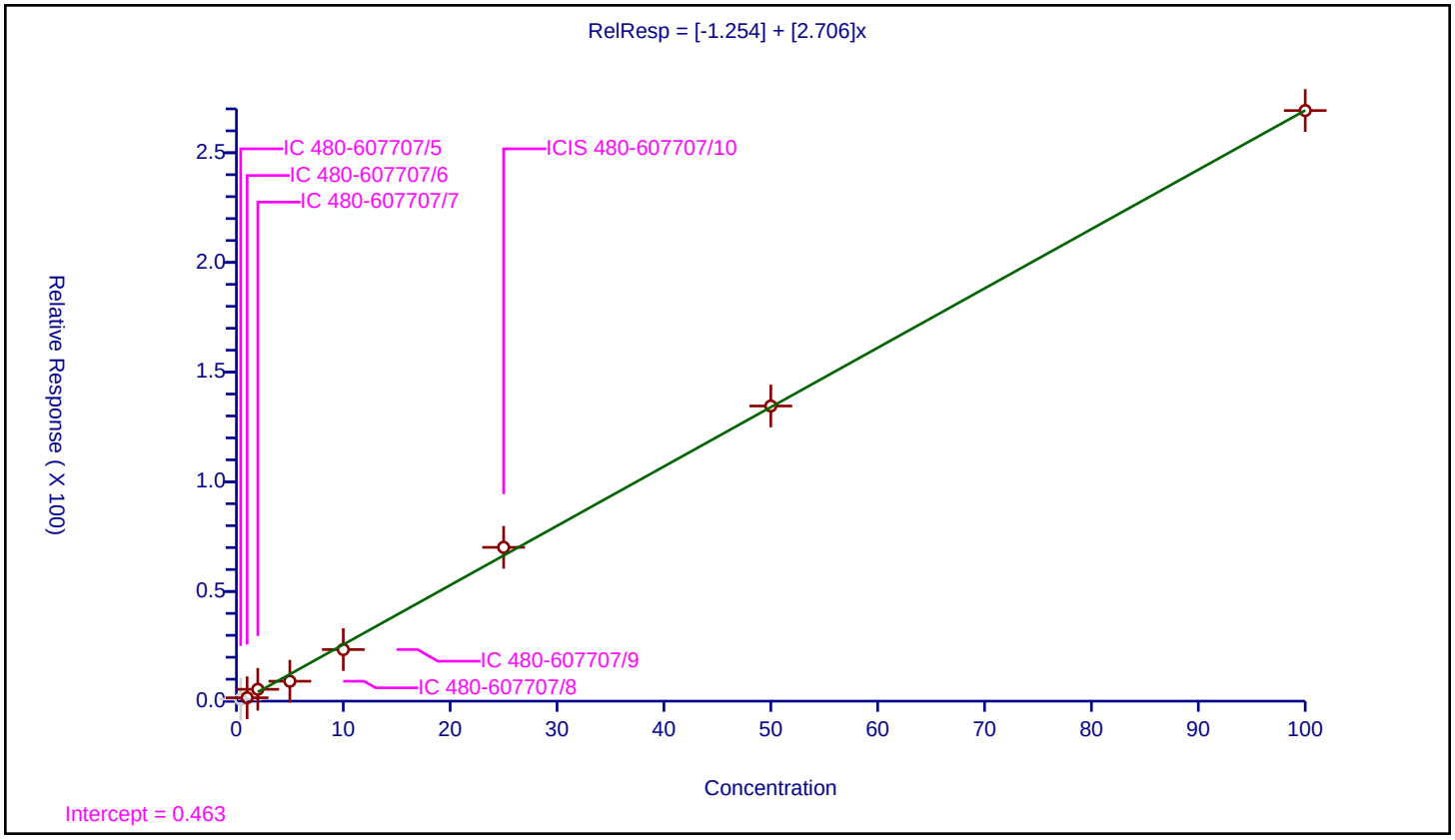
Curve Coefficients

Intercept:	-1.254
Slope:	2.706

Error Coefficients

Standard Error:	966000
Relative Standard Error:	15.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.922292	25.0	137863.0	2.305731	N
2	IC 480-607707/6	1.0	1.54334	25.0	142548.0	1.54334	Y
3	IC 480-607707/7	2.0	5.396986	25.0	148217.0	2.698493	Y
4	IC 480-607707/8	5.0	9.073263	25.0	156614.0	1.814653	Y
5	IC 480-607707/9	10.0	23.510225	25.0	138880.0	2.351022	Y
6	ICIS 480-607707/10	25.0	70.112147	25.0	159656.0	2.804486	Y
7	IC 480-607707/11	50.0	134.555679	25.0	162495.0	2.691114	Y
8	IC 480-607707/12	100.0	269.234635	25.0	178072.0	2.692346	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

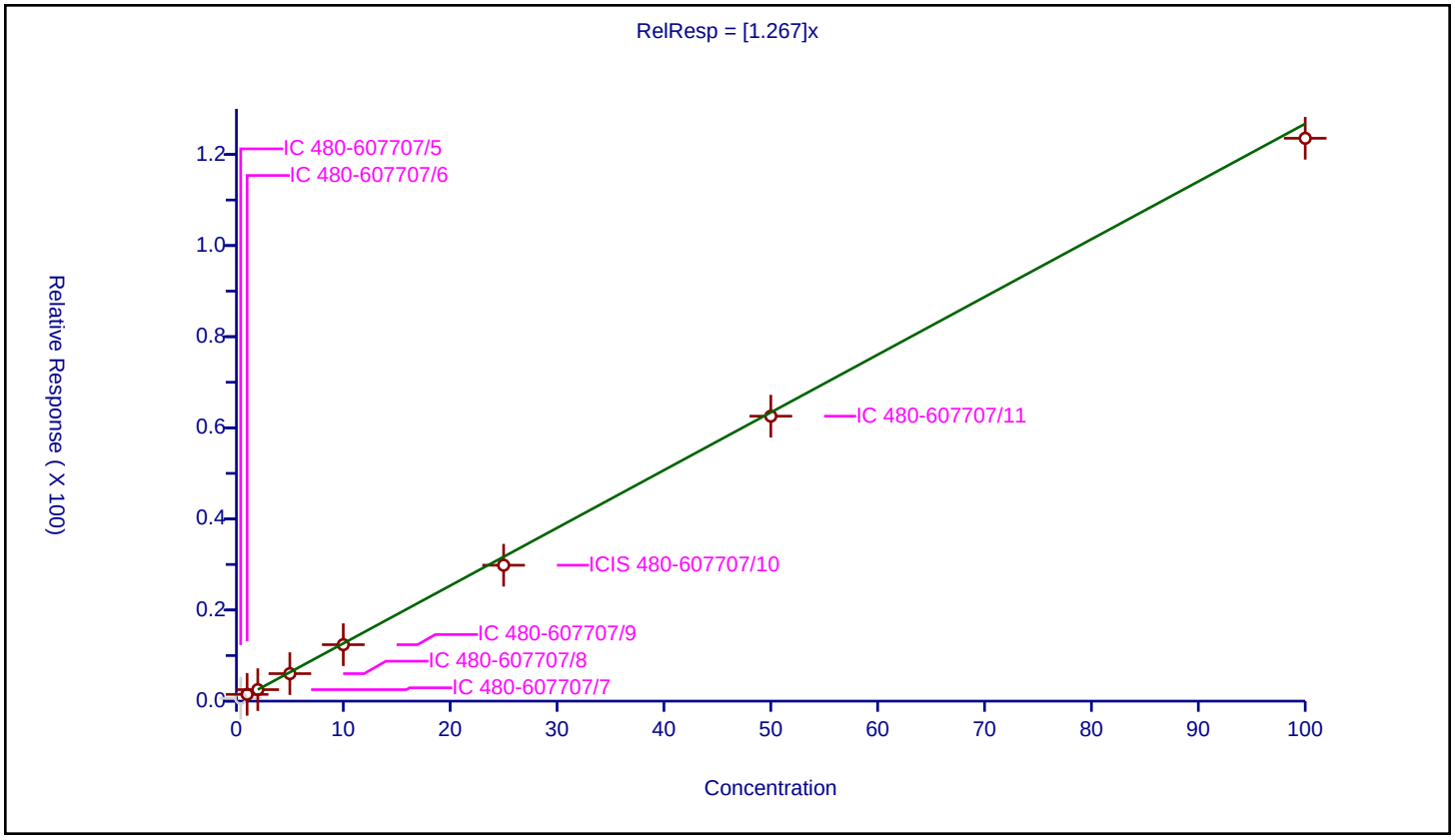
Curve Coefficients

Intercept:	0
Slope:	1.267

Error Coefficients

Standard Error:	405000
Relative Standard Error:	7.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.633781	25.0	137863.0	1.584453	N
2	IC 480-607707/6	1.0	1.484938	25.0	142548.0	1.484938	Y
3	IC 480-607707/7	2.0	2.521641	25.0	148217.0	1.26082	Y
4	IC 480-607707/8	5.0	6.034901	25.0	156614.0	1.20698	Y
5	IC 480-607707/9	10.0	12.390013	25.0	138880.0	1.239001	Y
6	ICIS 480-607707/10	25.0	29.837275	25.0	159656.0	1.193491	Y
7	IC 480-607707/11	50.0	62.551617	25.0	162495.0	1.251032	Y
8	IC 480-607707/12	100.0	123.552411	25.0	178072.0	1.235524	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

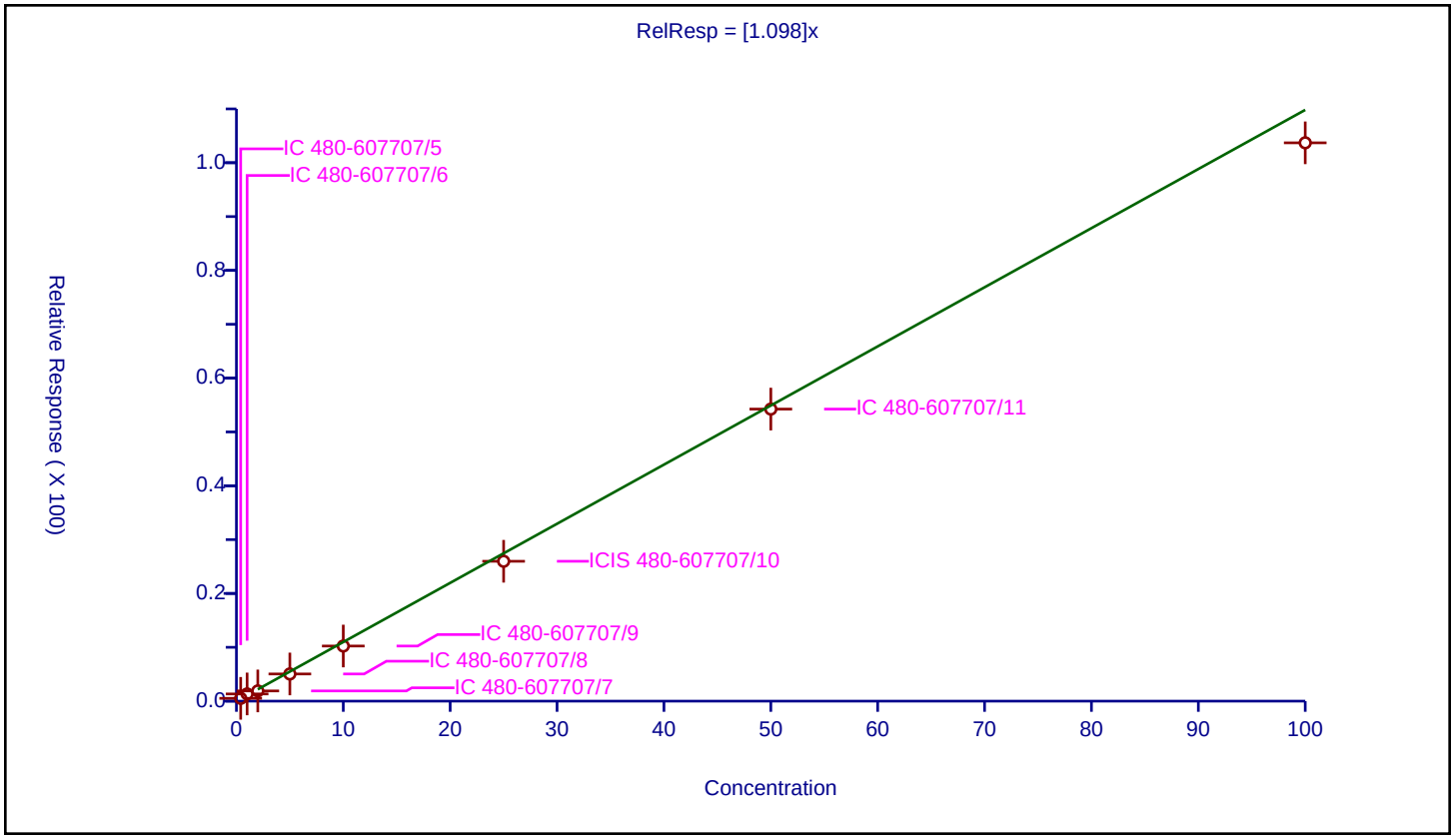
Curve Coefficients

Intercept:	0
Slope:	1.098

Error Coefficients

Standard Error:	317000
Relative Standard Error:	13.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.521895	25.0	137863.0	1.304737	Y
2	IC 480-607707/6	1.0	1.336918	25.0	142548.0	1.336918	Y
3	IC 480-607707/7	2.0	1.89705	25.0	148217.0	0.948525	Y
4	IC 480-607707/8	5.0	5.050155	25.0	156614.0	1.010031	Y
5	IC 480-607707/9	10.0	10.236355	25.0	138880.0	1.023636	Y
6	ICIS 480-607707/10	25.0	25.979919	25.0	159656.0	1.039197	Y
7	IC 480-607707/11	50.0	54.242131	25.0	162495.0	1.084843	Y
8	IC 480-607707/12	100.0	103.698083	25.0	178072.0	1.036981	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

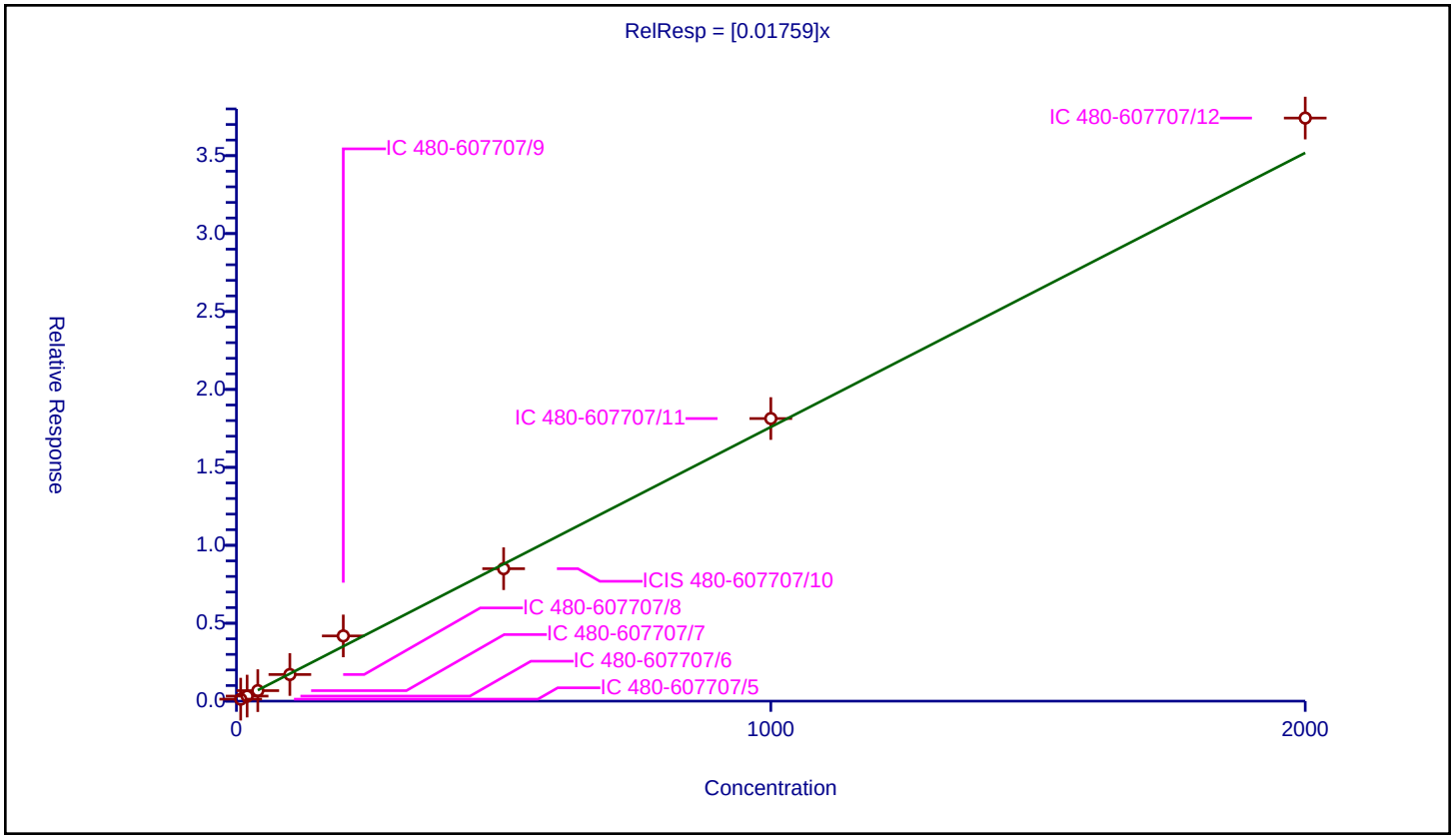
Curve Coefficients

Intercept:	0
Slope:	0.01759

Error Coefficients

Standard Error:	205000
Relative Standard Error:	9.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	8.0	0.126604	25.0	258483.0	0.015826	Y
2	IC 480-607707/6	20.0	0.323755	25.0	268876.0	0.016188	Y
3	IC 480-607707/7	40.0	0.674259	25.0	277082.0	0.016856	Y
4	IC 480-607707/8	100.0	1.708838	25.0	294235.0	0.017088	Y
5	IC 480-607707/9	200.0	4.185019	25.0	257454.0	0.020925	Y
6	ICIS 480-607707/10	500.0	8.49703	25.0	309058.0	0.016994	Y
7	IC 480-607707/11	1000.0	18.132818	25.0	288215.0	0.018133	Y
8	IC 480-607707/12	2000.0	37.411312	25.0	325296.0	0.018706	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

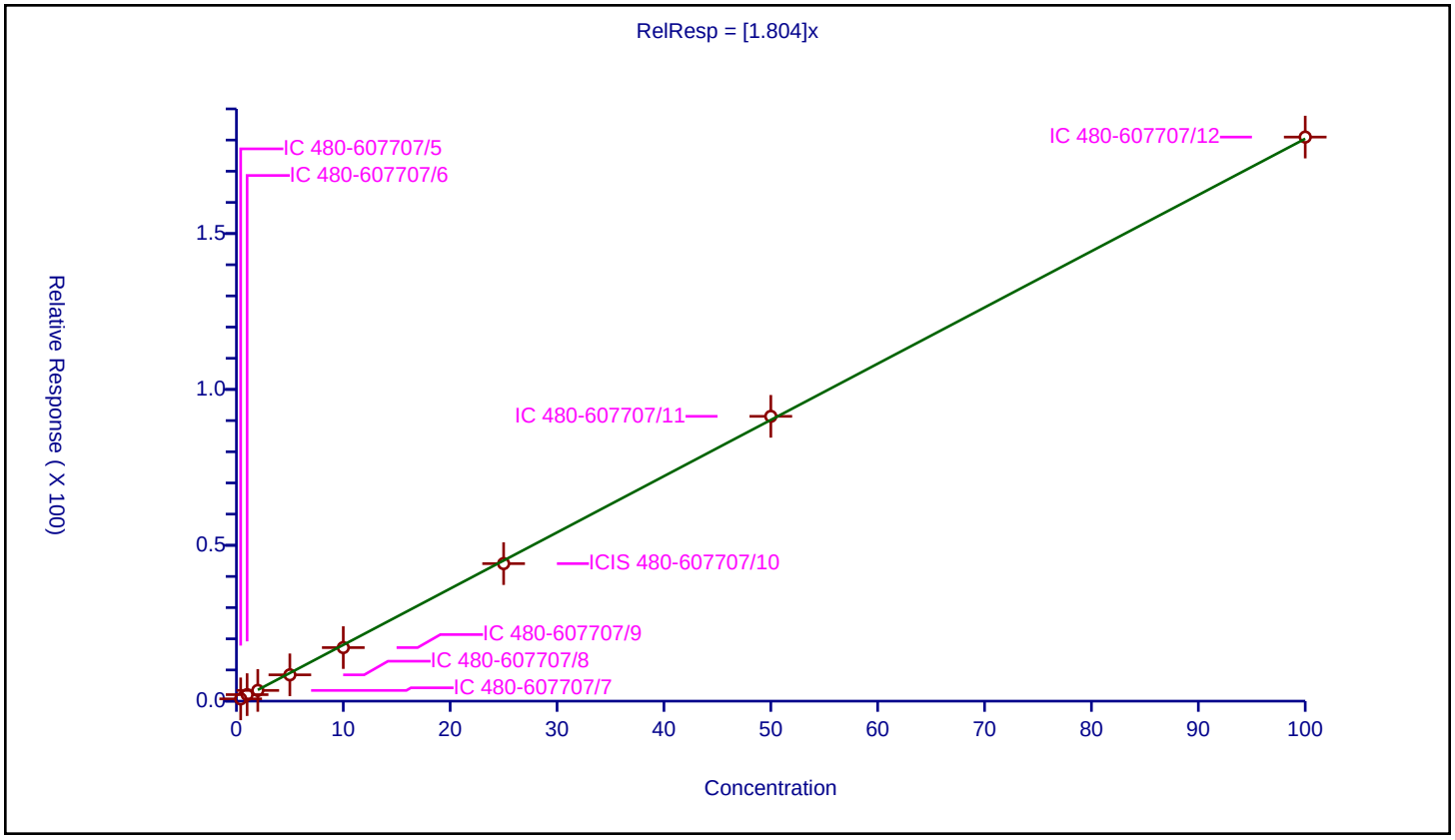
Curve Coefficients

Intercept:	0
Slope:	1.804

Error Coefficients

Standard Error:	548000
Relative Standard Error:	6.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.728259	25.0	137863.0	1.820648	Y
2	IC 480-607707/6	1.0	2.084912	25.0	142548.0	2.084912	Y
3	IC 480-607707/7	2.0	3.44107	25.0	148217.0	1.720535	Y
4	IC 480-607707/8	5.0	8.440816	25.0	156614.0	1.688163	Y
5	IC 480-607707/9	10.0	17.176159	25.0	138880.0	1.717616	Y
6	ICIS 480-607707/10	25.0	44.119388	25.0	159656.0	1.764776	Y
7	IC 480-607707/11	50.0	91.371888	25.0	162495.0	1.827438	Y
8	IC 480-607707/12	100.0	180.958264	25.0	178072.0	1.809583	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

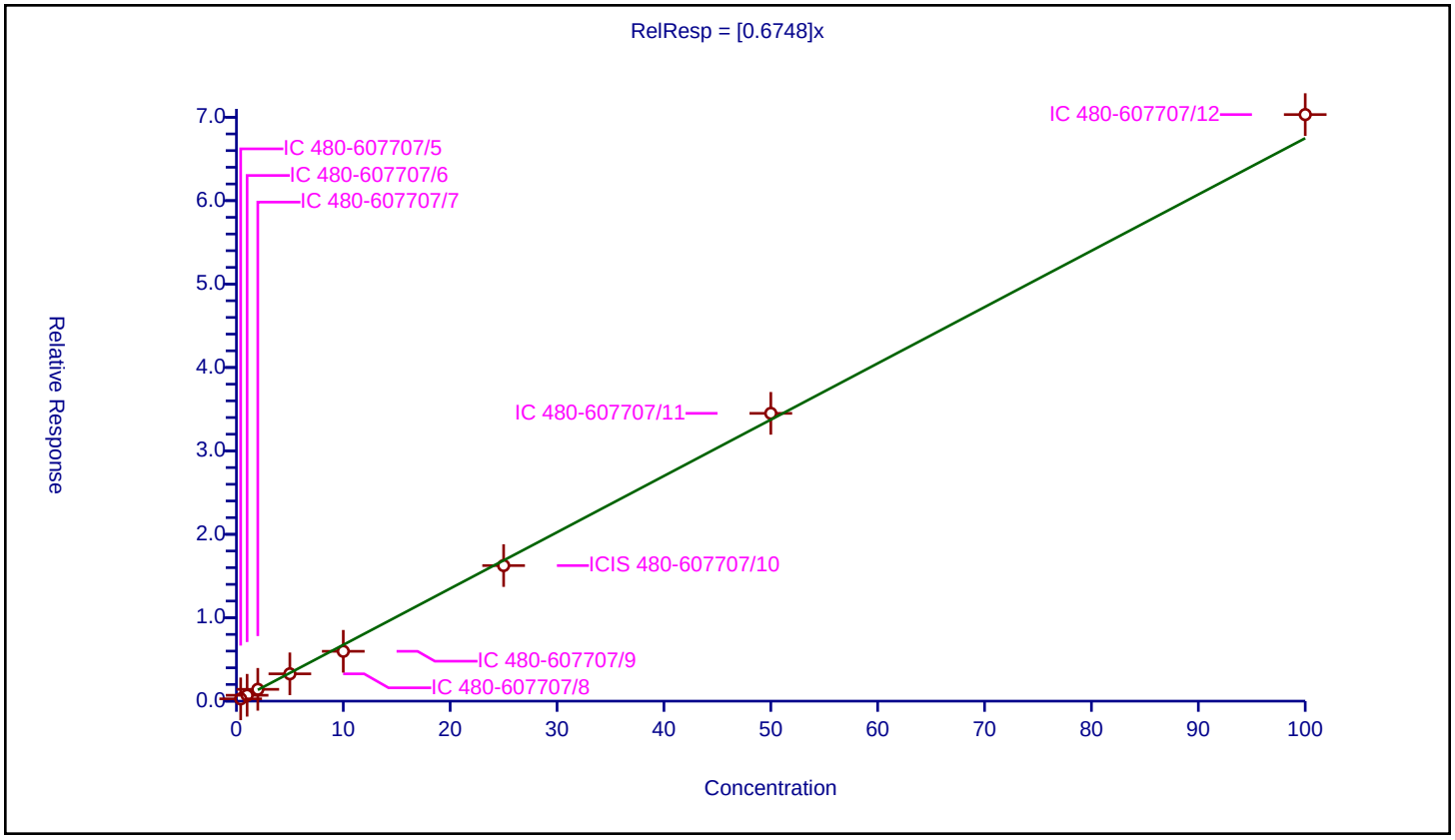
Curve Coefficients

Intercept:	0
Slope:	0.6748

Error Coefficients

Standard Error:	212000
Relative Standard Error:	5.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.276724	25.0	137863.0	0.69181	Y
2	IC 480-607707/6	1.0	0.703272	25.0	142548.0	0.703272	Y
3	IC 480-607707/7	2.0	1.415829	25.0	148217.0	0.707915	Y
4	IC 480-607707/8	5.0	3.274931	25.0	156614.0	0.654986	Y
5	IC 480-607707/9	10.0	5.975482	25.0	138880.0	0.597548	Y
6	ICIS 480-607707/10	25.0	16.252756	25.0	159656.0	0.65011	Y
7	IC 480-607707/11	50.0	34.499831	25.0	162495.0	0.689997	Y
8	IC 480-607707/12	100.0	70.315799	25.0	178072.0	0.703158	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

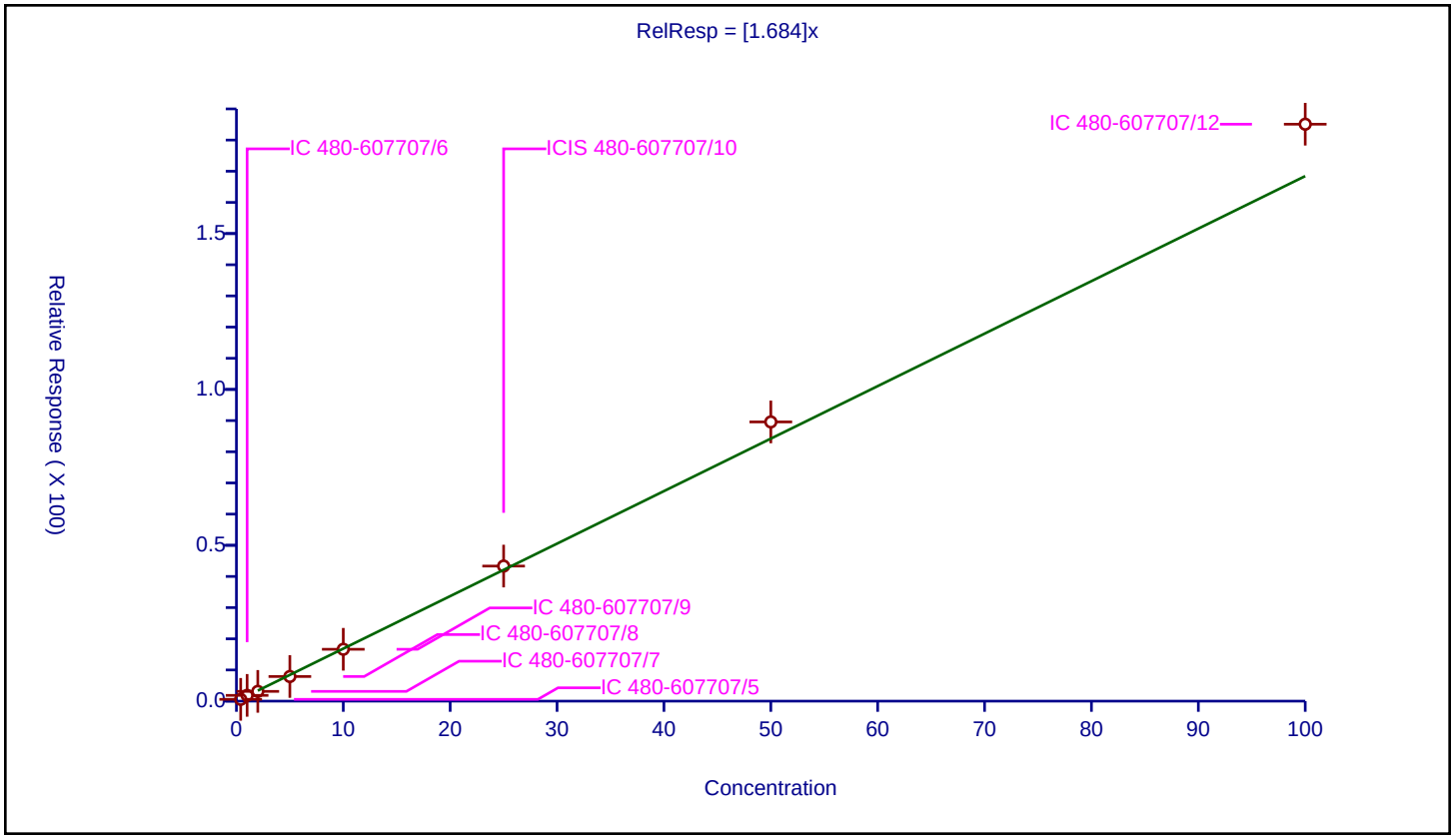
Curve Coefficients

Intercept:	0
Slope:	1.684

Error Coefficients

Standard Error:	556000
Relative Standard Error:	8.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.576478	25.0	137863.0	1.441195	Y
2	IC 480-607707/6	1.0	1.846571	25.0	142548.0	1.846571	Y
3	IC 480-607707/7	2.0	3.134256	25.0	148217.0	1.567128	Y
4	IC 480-607707/8	5.0	7.901273	25.0	156614.0	1.580255	Y
5	IC 480-607707/9	10.0	16.638825	25.0	138880.0	1.663882	Y
6	ICIS 480-607707/10	25.0	43.329565	25.0	159656.0	1.733183	Y
7	IC 480-607707/11	50.0	89.578295	25.0	162495.0	1.791566	Y
8	IC 480-607707/12	100.0	185.090581	25.0	178072.0	1.850906	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

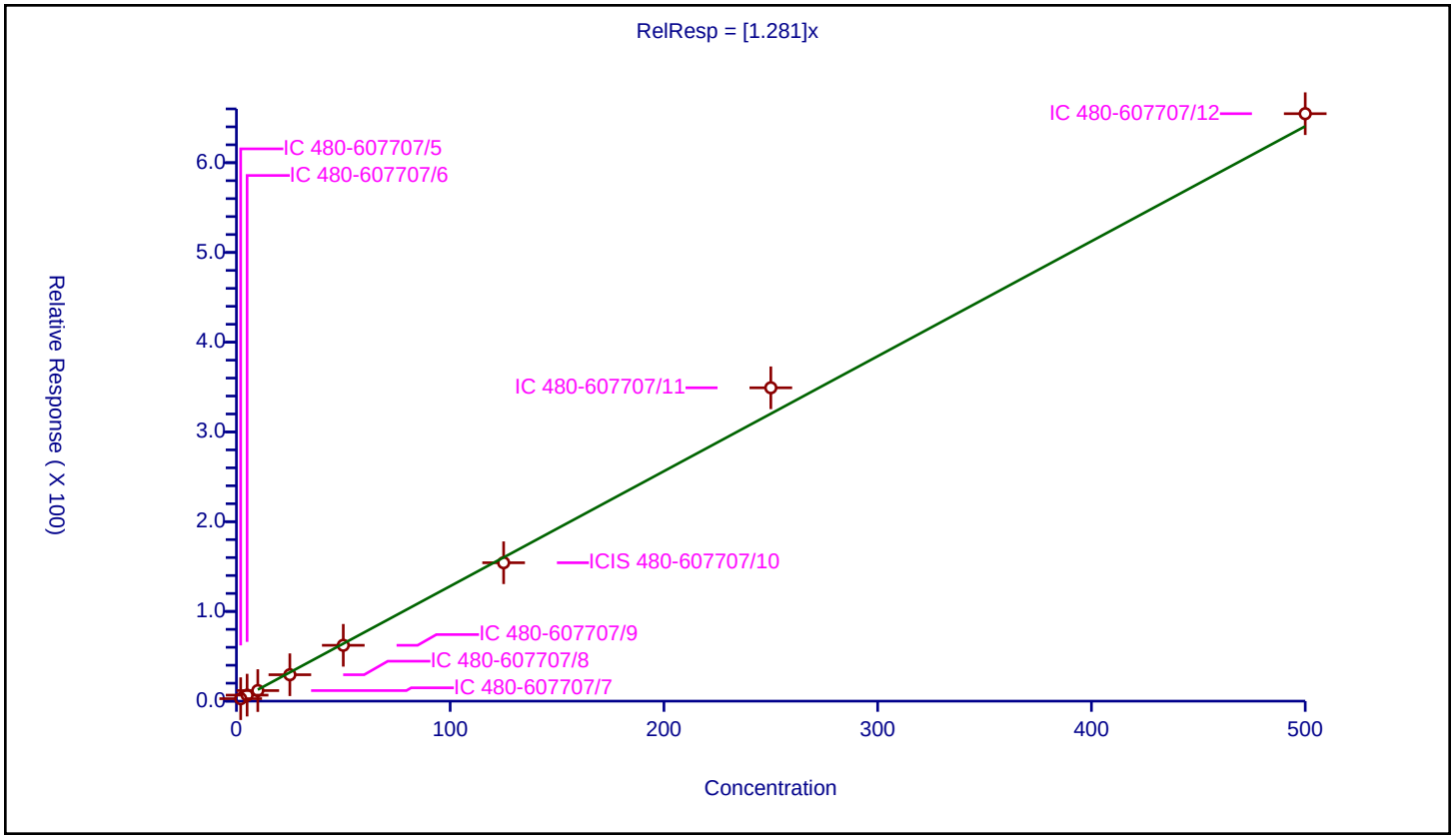
Curve Coefficients

Intercept:	0
Slope:	1.281

Error Coefficients

Standard Error:	3640000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	2.0	2.741766	25.0	258483.0	1.370883	Y
2	IC 480-607707/6	5.0	6.69779	25.0	268876.0	1.339558	Y
3	IC 480-607707/7	10.0	11.778102	25.0	277082.0	1.17781	Y
4	IC 480-607707/8	25.0	29.438204	25.0	294235.0	1.177528	Y
5	IC 480-607707/9	50.0	62.212861	25.0	257454.0	1.244257	Y
6	ICIS 480-607707/10	125.0	154.244511	25.0	309058.0	1.233956	Y
7	IC 480-607707/11	250.0	349.198342	25.0	288215.0	1.396793	Y
8	IC 480-607707/12	500.0	654.658142	25.0	325296.0	1.309316	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

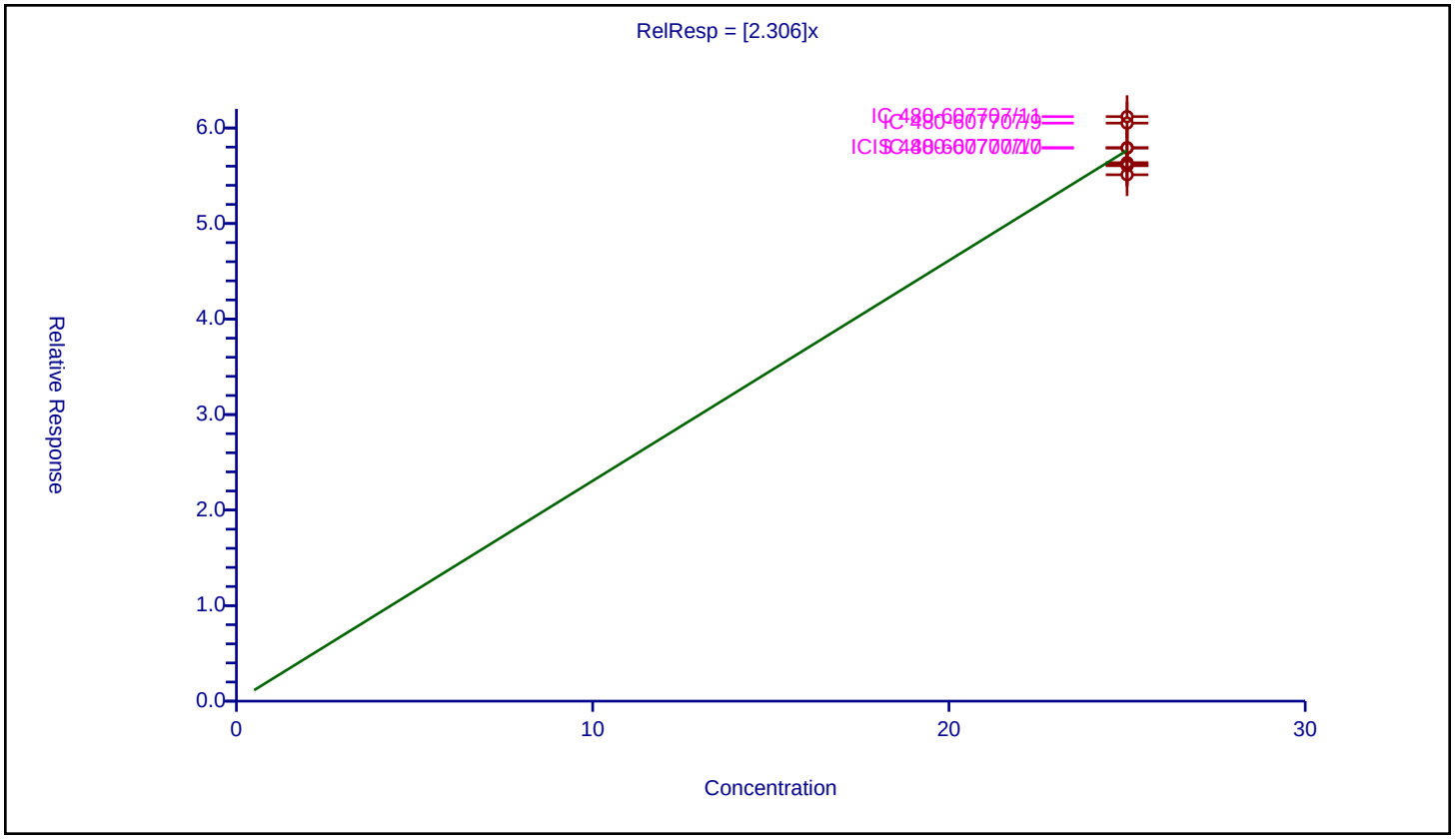
Curve Coefficients

Intercept:	0
Slope:	2.306

Error Coefficients

Standard Error:	704000
Relative Standard Error:	3.8
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	25.0	56.178259	25.0	258483.0	2.24713	Y
2	IC 480-607707/6	25.0	56.3692	25.0	268876.0	2.254768	Y
3	IC 480-607707/7	25.0	57.942324	25.0	277082.0	2.317693	Y
4	IC 480-607707/8	25.0	55.104083	25.0	294235.0	2.204163	Y
5	IC 480-607707/9	25.0	60.512072	25.0	257454.0	2.420483	Y
6	ICIS 480-607707/10	25.0	57.899407	25.0	309058.0	2.315976	Y
7	IC 480-607707/11	25.0	61.191905	25.0	288215.0	2.447676	Y
8	IC 480-607707/12	25.0	56.049106	25.0	325296.0	2.241964	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

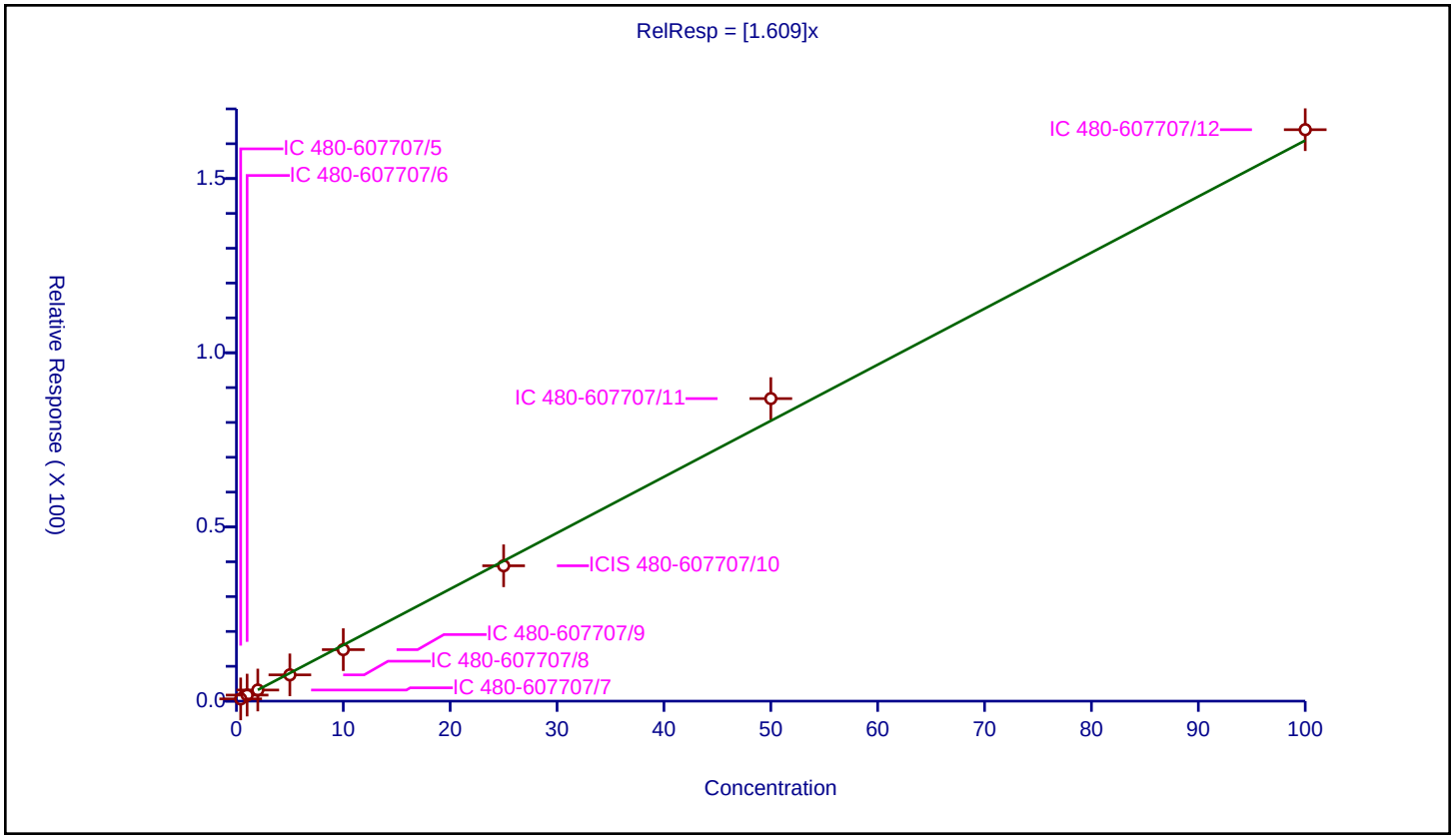
Curve Coefficients

Intercept:	0
Slope:	1.609

Error Coefficients

Standard Error:	912000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.649269	25.0	258483.0	1.623173	Y
2	IC 480-607707/6	1.0	1.736581	25.0	268876.0	1.736581	Y
3	IC 480-607707/7	2.0	3.195444	25.0	277082.0	1.597722	Y
4	IC 480-607707/8	5.0	7.541931	25.0	294235.0	1.508386	Y
5	IC 480-607707/9	10.0	14.782835	25.0	257454.0	1.478283	Y
6	ICIS 480-607707/10	25.0	38.85549	25.0	309058.0	1.55422	Y
7	IC 480-607707/11	50.0	86.841941	25.0	288215.0	1.736839	Y
8	IC 480-607707/12	100.0	164.028685	25.0	325296.0	1.640287	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

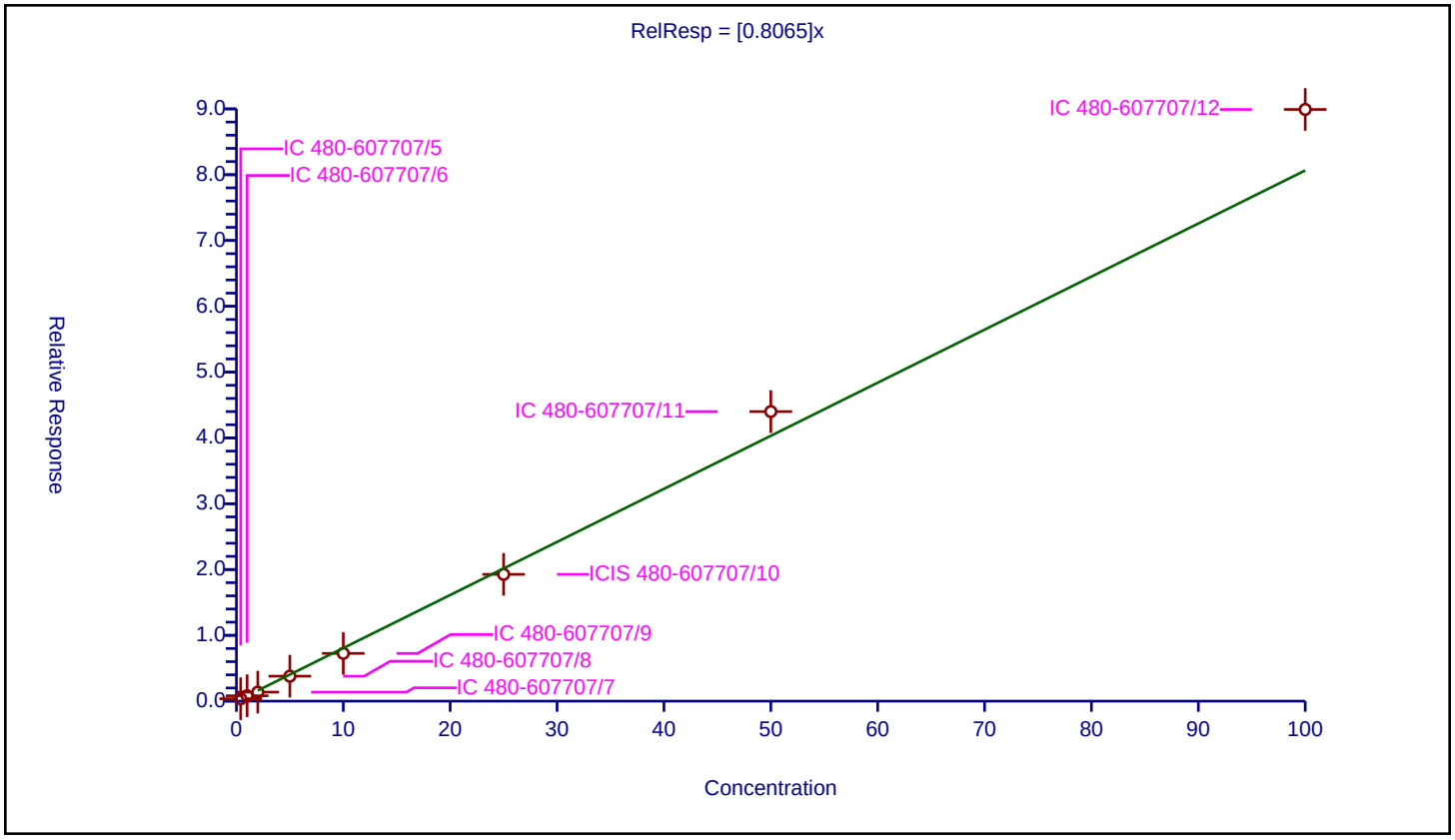
Curve Coefficients

Intercept:	0
Slope:	0.8065

Error Coefficients

Standard Error:	491000
Relative Standard Error:	10.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.365982	25.0	258483.0	0.914954	Y
2	IC 480-607707/6	1.0	0.817012	25.0	268876.0	0.817012	Y
3	IC 480-607707/7	2.0	1.369811	25.0	277082.0	0.684906	Y
4	IC 480-607707/8	5.0	3.79637	25.0	294235.0	0.759274	Y
5	IC 480-607707/9	10.0	7.255956	25.0	257454.0	0.725596	Y
6	ICIS 480-607707/10	25.0	19.266206	25.0	309058.0	0.770648	Y
7	IC 480-607707/11	50.0	44.003261	25.0	288215.0	0.880065	Y
8	IC 480-607707/12	100.0	89.914724	25.0	325296.0	0.899147	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

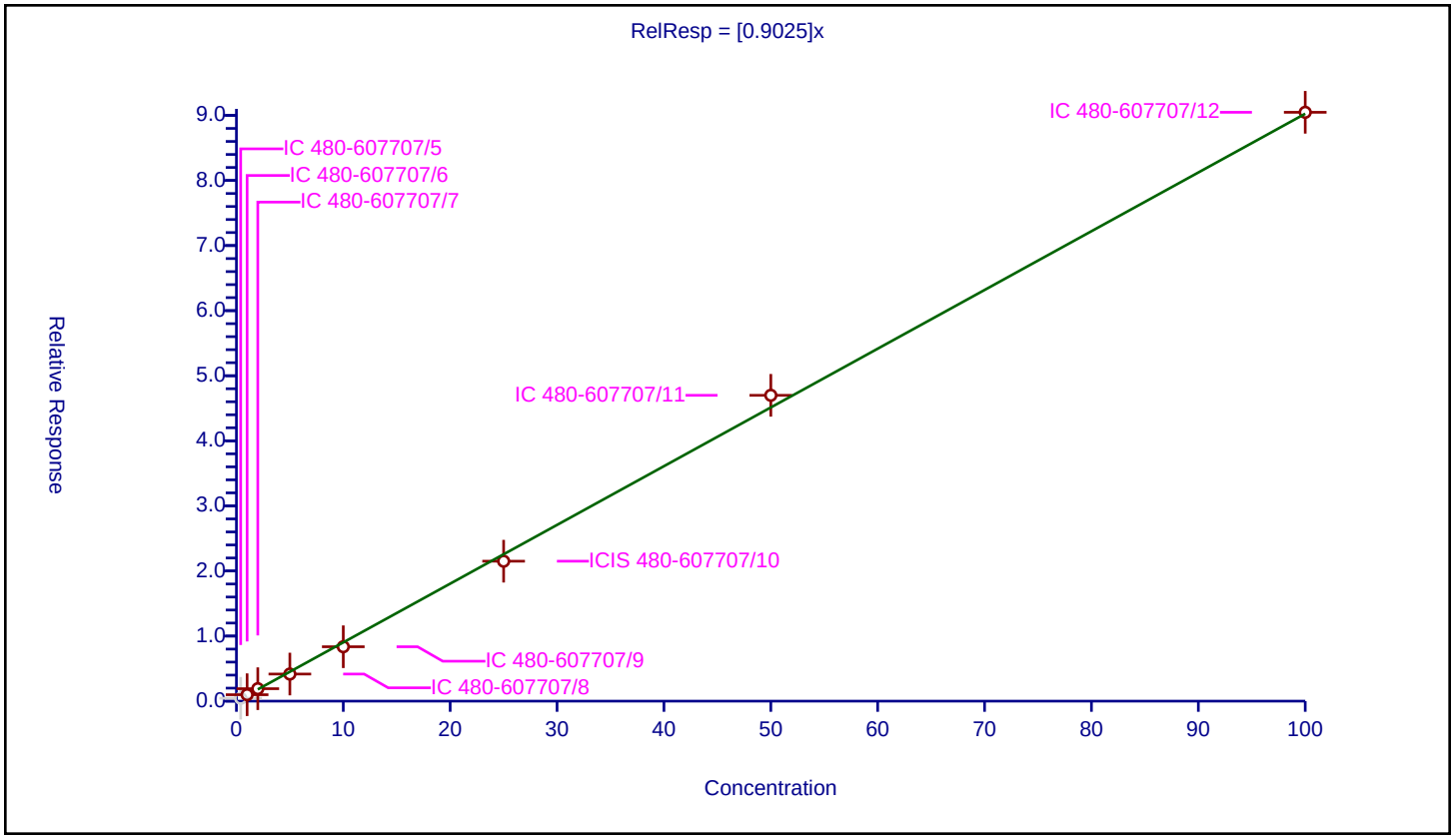
Curve Coefficients

Intercept:	0
Slope:	0.9025

Error Coefficients

Standard Error:	542000
Relative Standard Error:	6.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.445967	25.0	258483.0	1.114919	N
2	IC 480-607707/6	1.0	0.988002	25.0	268876.0	0.988002	Y
3	IC 480-607707/7	2.0	1.91243	25.0	277082.0	0.956215	Y
4	IC 480-607707/8	5.0	4.165973	25.0	294235.0	0.833195	Y
5	IC 480-607707/9	10.0	8.356736	25.0	257454.0	0.835674	Y
6	ICIS 480-607707/10	25.0	21.50276	25.0	309058.0	0.86011	Y
7	IC 480-607707/11	50.0	46.991222	25.0	288215.0	0.939824	Y
8	IC 480-607707/12	100.0	90.474137	25.0	325296.0	0.904741	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

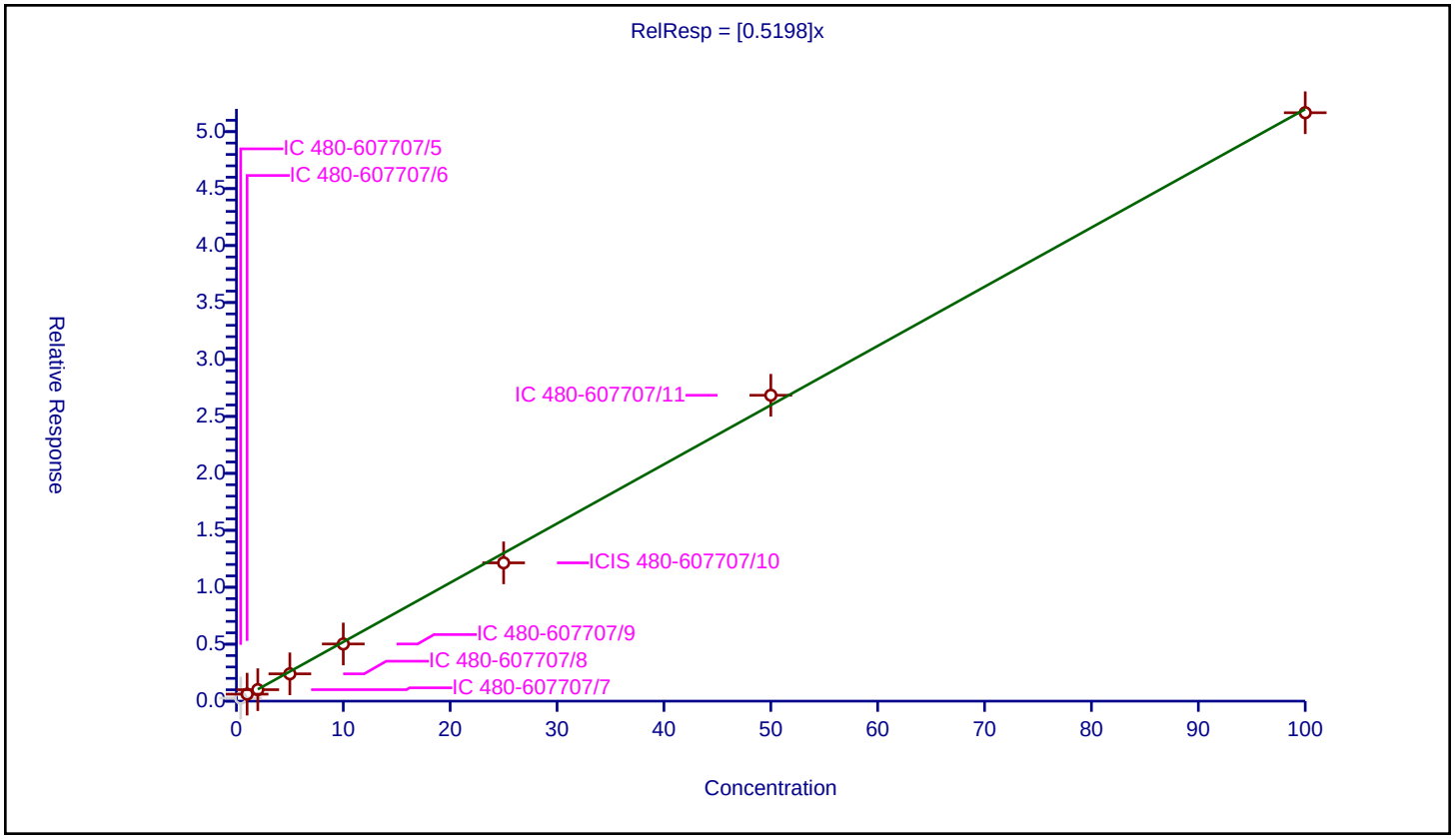
Curve Coefficients

Intercept:	0
Slope:	0.5198

Error Coefficients

Standard Error:	309000
Relative Standard Error:	8.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.268683	25.0	258483.0	0.671708	N
2	IC 480-607707/6	1.0	0.613666	25.0	268876.0	0.613666	Y
3	IC 480-607707/7	2.0	1.007644	25.0	277082.0	0.503822	Y
4	IC 480-607707/8	5.0	2.397403	25.0	294235.0	0.479481	Y
5	IC 480-607707/9	10.0	5.018566	25.0	257454.0	0.501857	Y
6	ICIS 480-607707/10	25.0	12.142866	25.0	309058.0	0.485715	Y
7	IC 480-607707/11	50.0	26.857381	25.0	288215.0	0.537148	Y
8	IC 480-607707/12	100.0	51.66433	25.0	325296.0	0.516643	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

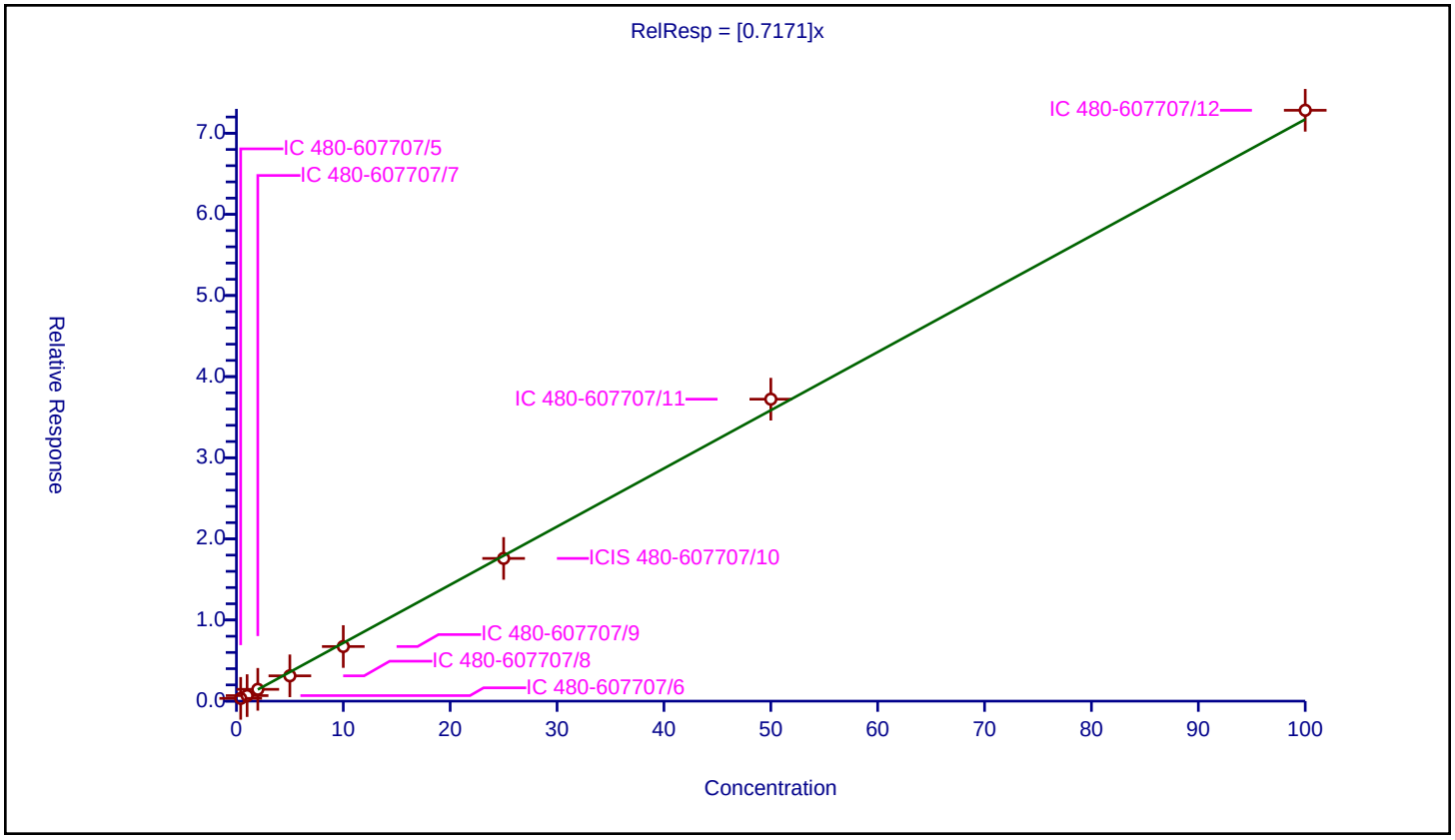
Curve Coefficients

Intercept:	0
Slope:	0.7171

Error Coefficients

Standard Error:	403000
Relative Standard Error:	9.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.340932	25.0	258483.0	0.852329	Y
2	IC 480-607707/6	1.0	0.681634	25.0	268876.0	0.681634	Y
3	IC 480-607707/7	2.0	1.45733	25.0	277082.0	0.728665	Y
4	IC 480-607707/8	5.0	3.121654	25.0	294235.0	0.624331	Y
5	IC 480-607707/9	10.0	6.732853	25.0	257454.0	0.673285	Y
6	ICIS 480-607707/10	25.0	17.592814	25.0	309058.0	0.703713	Y
7	IC 480-607707/11	50.0	37.221258	25.0	288215.0	0.744425	Y
8	IC 480-607707/12	100.0	72.829746	25.0	325296.0	0.728297	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

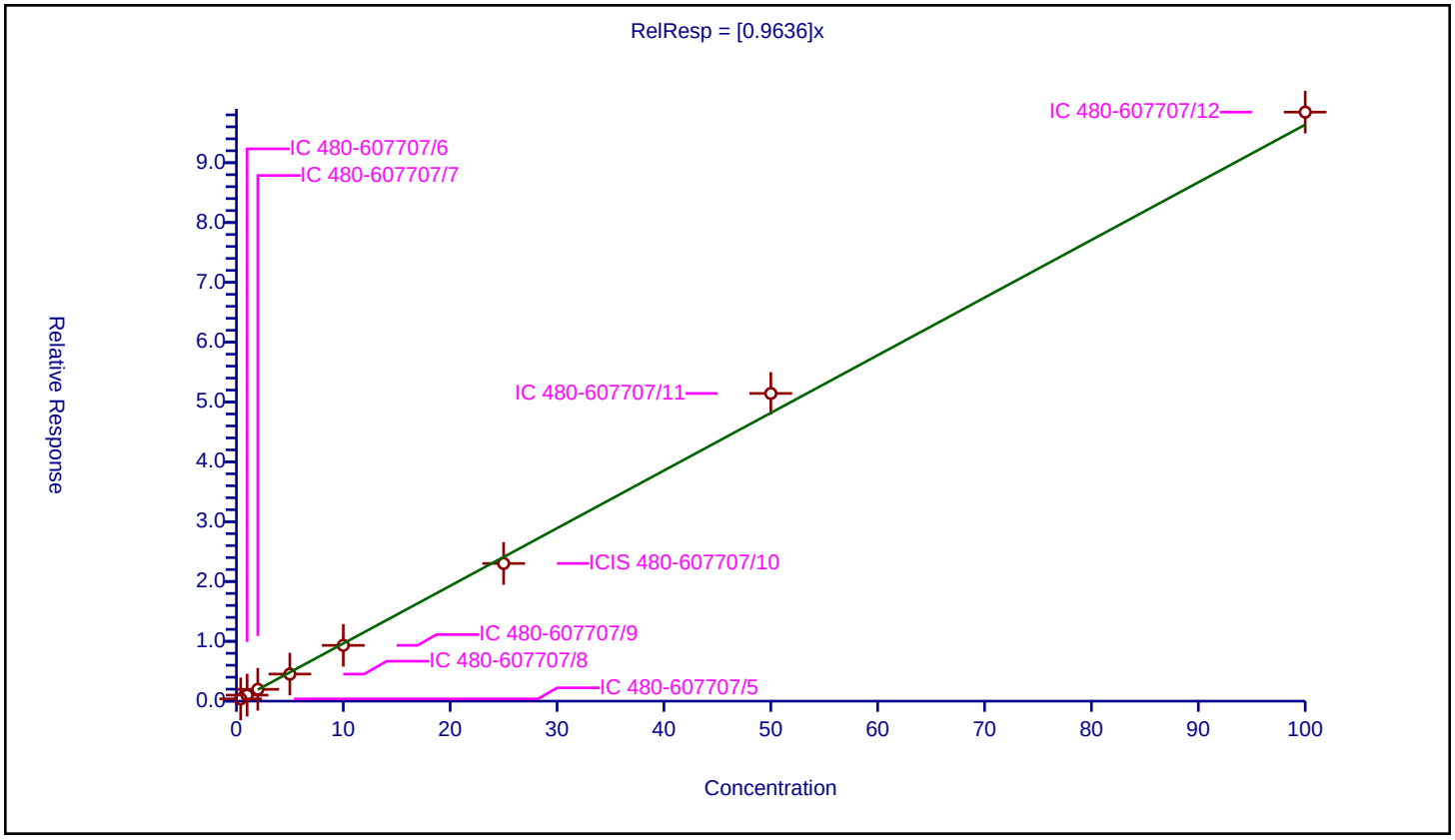
Curve Coefficients

Intercept:	0
Slope:	0.9636

Error Coefficients

Standard Error:	546000
Relative Standard Error:	4.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.378942	25.0	258483.0	0.947354	Y
2	IC 480-607707/6	1.0	1.0026	25.0	268876.0	1.0026	Y
3	IC 480-607707/7	2.0	1.975137	25.0	277082.0	0.987569	Y
4	IC 480-607707/8	5.0	4.525124	25.0	294235.0	0.905025	Y
5	IC 480-607707/9	10.0	9.323219	25.0	257454.0	0.932322	Y
6	ICIS 480-607707/10	25.0	23.015745	25.0	309058.0	0.92063	Y
7	IC 480-607707/11	50.0	51.436861	25.0	288215.0	1.028737	Y
8	IC 480-607707/12	100.0	98.458097	25.0	325296.0	0.984581	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

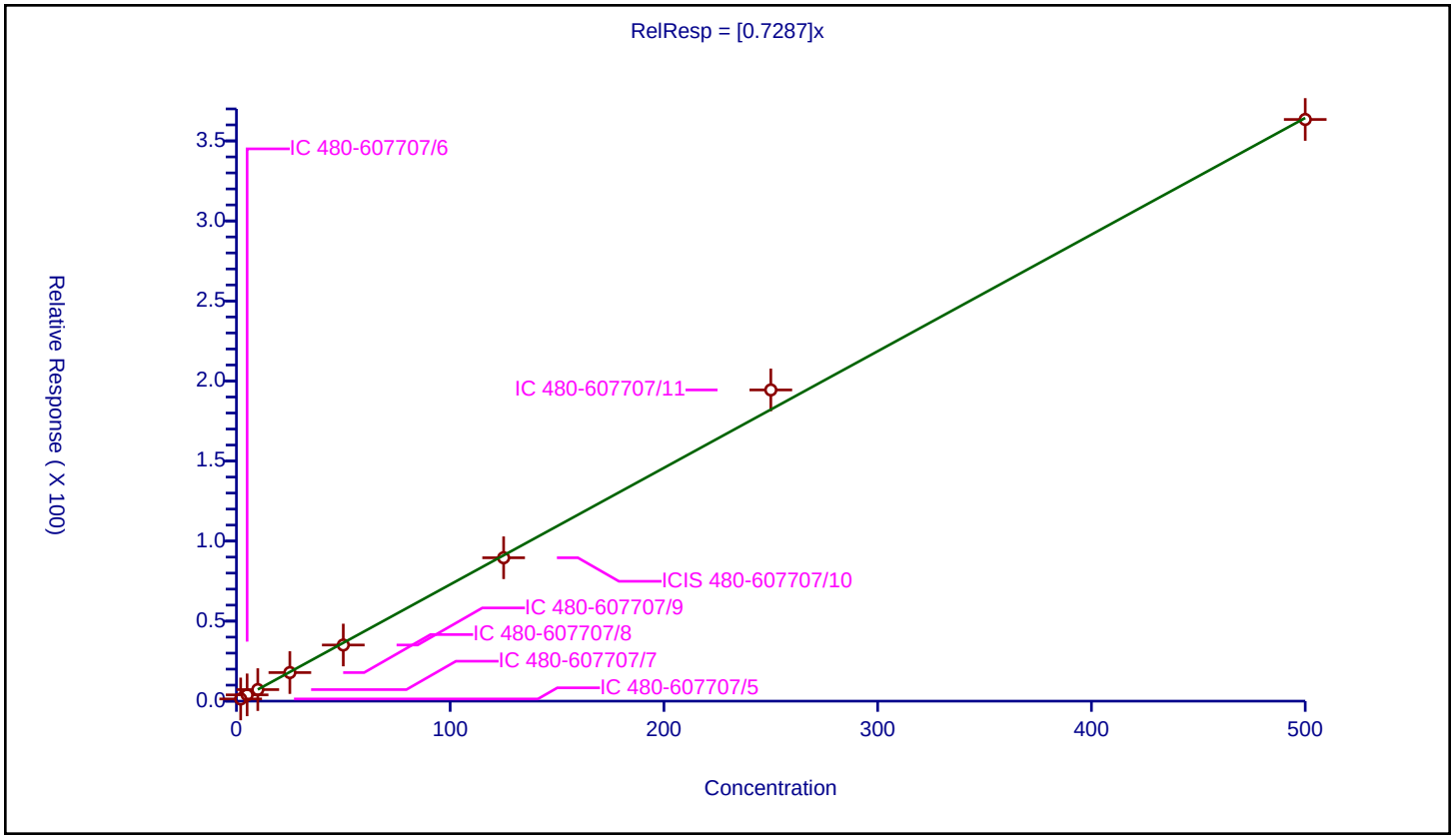
Curve Coefficients

Intercept:	0
Slope:	0.7287

Error Coefficients

Standard Error:	2030000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	2.0	1.376203	25.0	258483.0	0.688101	Y
2	IC 480-607707/6	5.0	3.920952	25.0	268876.0	0.78419	Y
3	IC 480-607707/7	10.0	7.212757	25.0	277082.0	0.721276	Y
4	IC 480-607707/8	25.0	17.840417	25.0	294235.0	0.713617	Y
5	IC 480-607707/9	50.0	35.064031	25.0	257454.0	0.701281	Y
6	ICIS 480-607707/10	125.0	89.571537	25.0	309058.0	0.716572	Y
7	IC 480-607707/11	250.0	194.420311	25.0	288215.0	0.777681	Y
8	IC 480-607707/12	500.0	363.386347	25.0	325296.0	0.726773	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

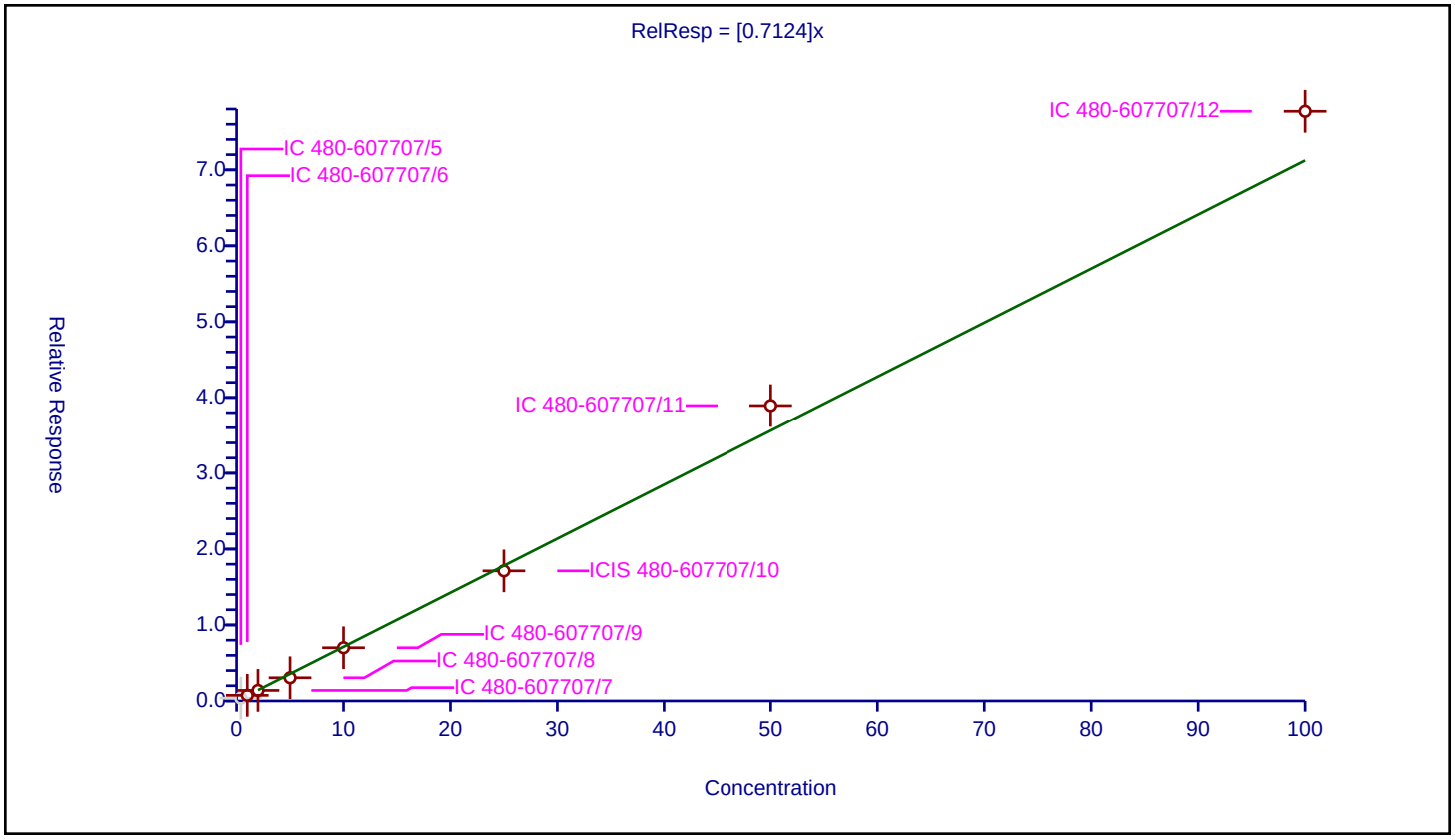
Curve Coefficients

Intercept:	0
Slope:	0.7124

Error Coefficients

Standard Error:	461000
Relative Standard Error:	8.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.365304	25.0	258483.0	0.913261	N
2	IC 480-607707/6	1.0	0.740769	25.0	268876.0	0.740769	Y
3	IC 480-607707/7	2.0	1.387766	25.0	277082.0	0.693883	Y
4	IC 480-607707/8	5.0	3.055211	25.0	294235.0	0.611042	Y
5	IC 480-607707/9	10.0	7.003193	25.0	257454.0	0.700319	Y
6	ICIS 480-607707/10	25.0	17.123404	25.0	309058.0	0.684936	Y
7	IC 480-607707/11	50.0	38.935951	25.0	288215.0	0.778719	Y
8	IC 480-607707/12	100.0	77.704998	25.0	325296.0	0.77705	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

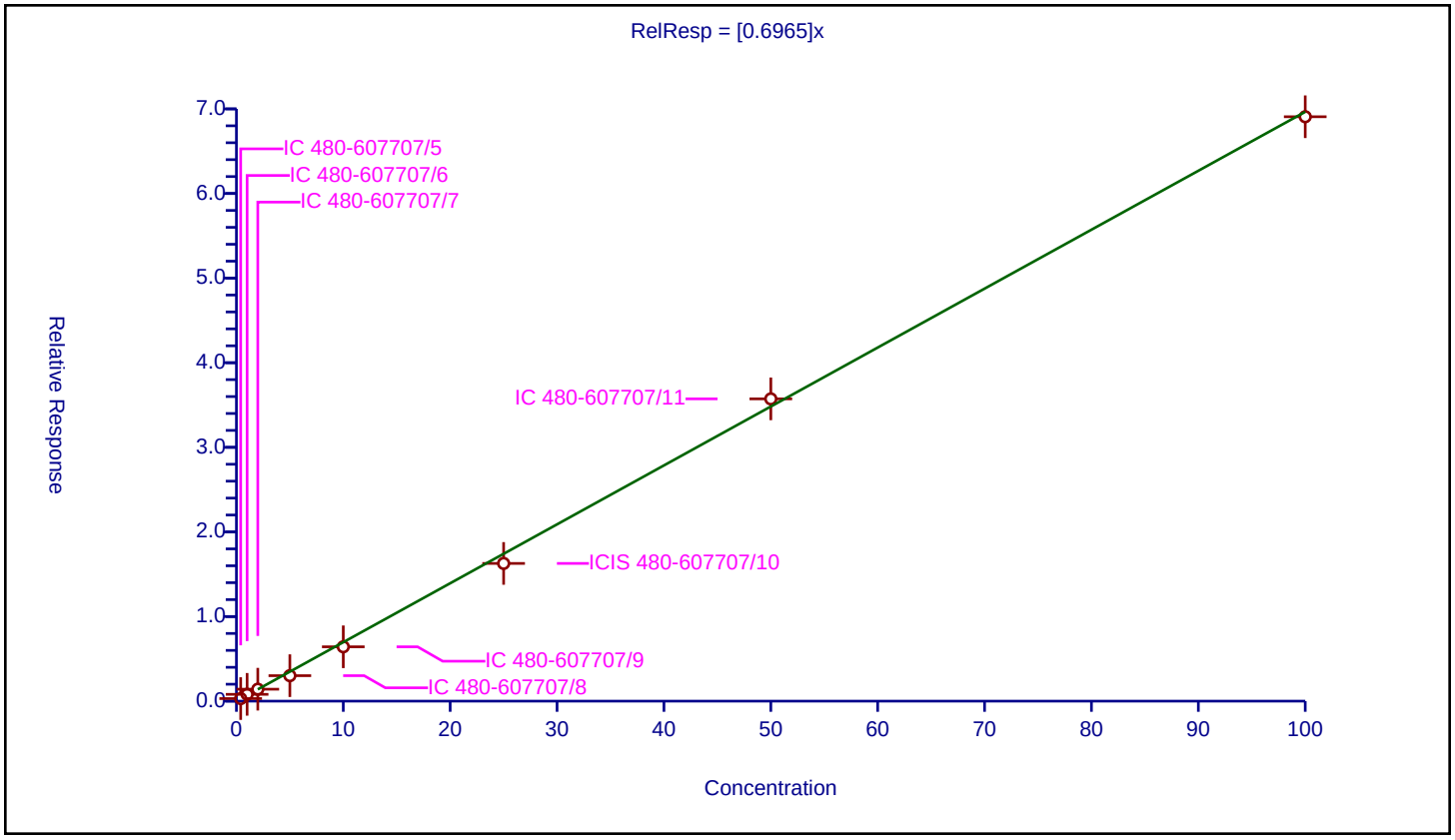
Curve Coefficients

Intercept:	0
Slope:	0.6965

Error Coefficients

Standard Error:	382000
Relative Standard Error:	9.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.304082	25.0	258483.0	0.760205	Y
2	IC 480-607707/6	1.0	0.805204	25.0	268876.0	0.805204	Y
3	IC 480-607707/7	2.0	1.411766	25.0	277082.0	0.705883	Y
4	IC 480-607707/8	5.0	3.010689	25.0	294235.0	0.602138	Y
5	IC 480-607707/9	10.0	6.421924	25.0	257454.0	0.642192	Y
6	ICIS 480-607707/10	25.0	16.277851	25.0	309058.0	0.651114	Y
7	IC 480-607707/11	50.0	35.726367	25.0	288215.0	0.714527	Y
8	IC 480-607707/12	100.0	69.071938	25.0	325296.0	0.690719	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

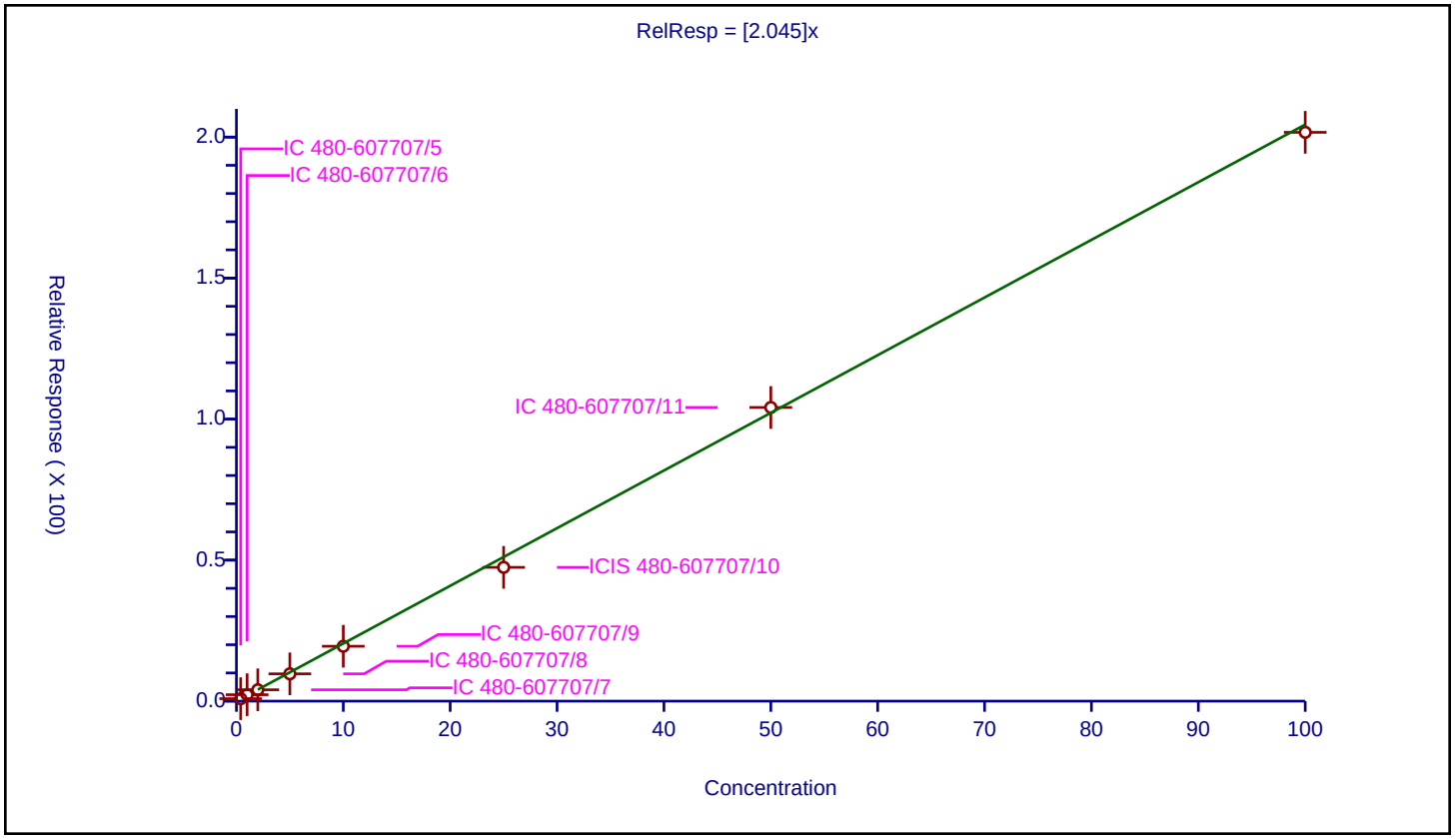
Curve Coefficients

Intercept:	0
Slope:	2.045

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	6.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.874622	25.0	258483.0	2.186556	Y
2	IC 480-607707/6	1.0	2.276514	25.0	268876.0	2.276514	Y
3	IC 480-607707/7	2.0	4.025523	25.0	277082.0	2.012762	Y
4	IC 480-607707/8	5.0	9.68554	25.0	294235.0	1.937108	Y
5	IC 480-607707/9	10.0	19.463283	25.0	257454.0	1.946328	Y
6	ICIS 480-607707/10	25.0	47.432763	25.0	309058.0	1.897311	Y
7	IC 480-607707/11	50.0	104.13025	25.0	288215.0	2.082605	Y
8	IC 480-607707/12	100.0	201.688616	25.0	325296.0	2.016886	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

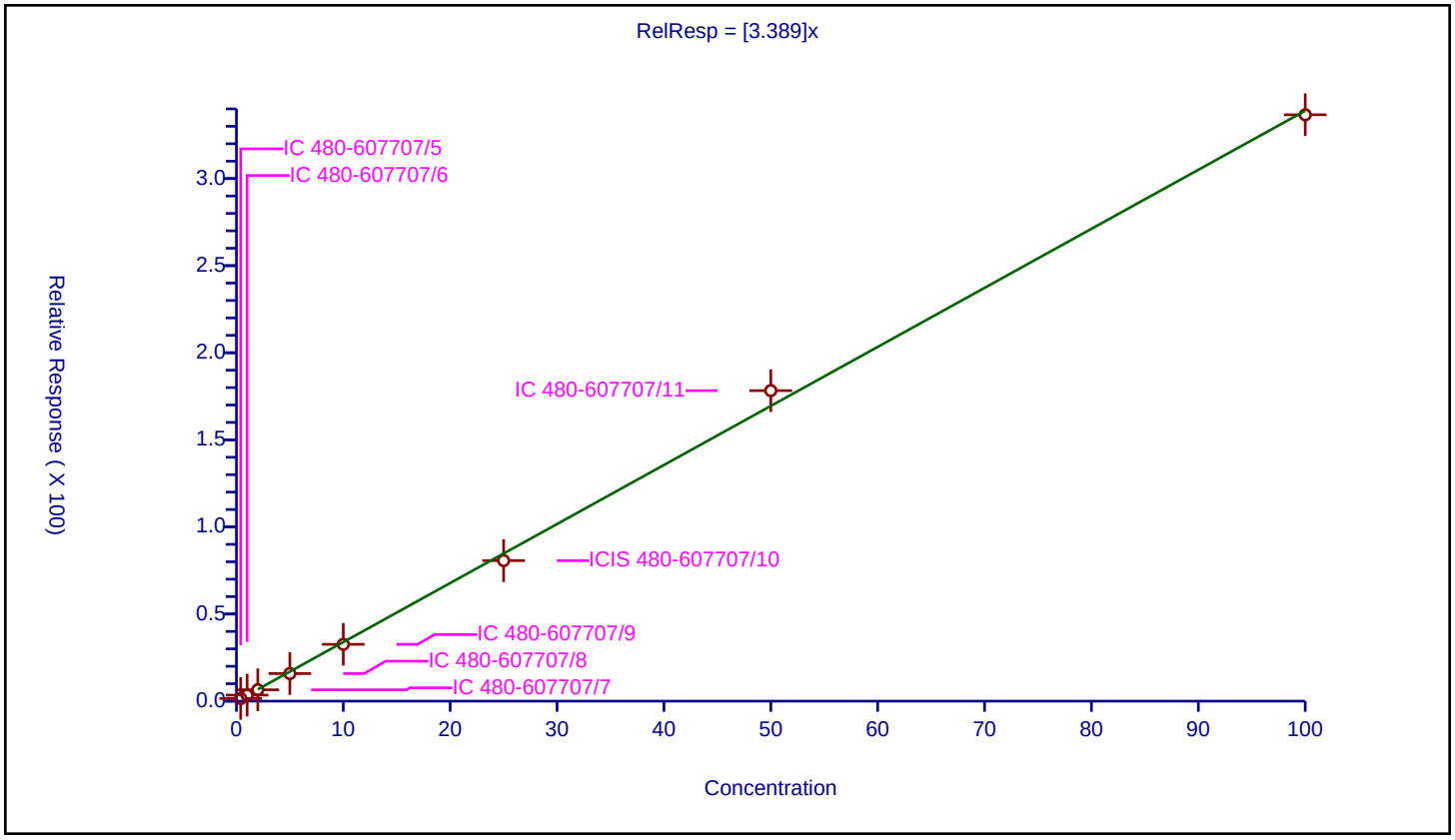
Curve Coefficients

Intercept:	0
Slope:	3.389

Error Coefficients

Standard Error:	1870000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.519636	25.0	258483.0	3.799089	Y
2	IC 480-607707/6	1.0	3.467584	25.0	268876.0	3.467584	Y
3	IC 480-607707/7	2.0	6.520994	25.0	277082.0	3.260497	Y
4	IC 480-607707/8	5.0	15.835387	25.0	294235.0	3.167077	Y
5	IC 480-607707/9	10.0	32.615632	25.0	257454.0	3.261563	Y
6	ICIS 480-607707/10	25.0	80.671508	25.0	309058.0	3.22686	Y
7	IC 480-607707/11	50.0	178.266312	25.0	288215.0	3.565326	Y
8	IC 480-607707/12	100.0	336.617189	25.0	325296.0	3.366172	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

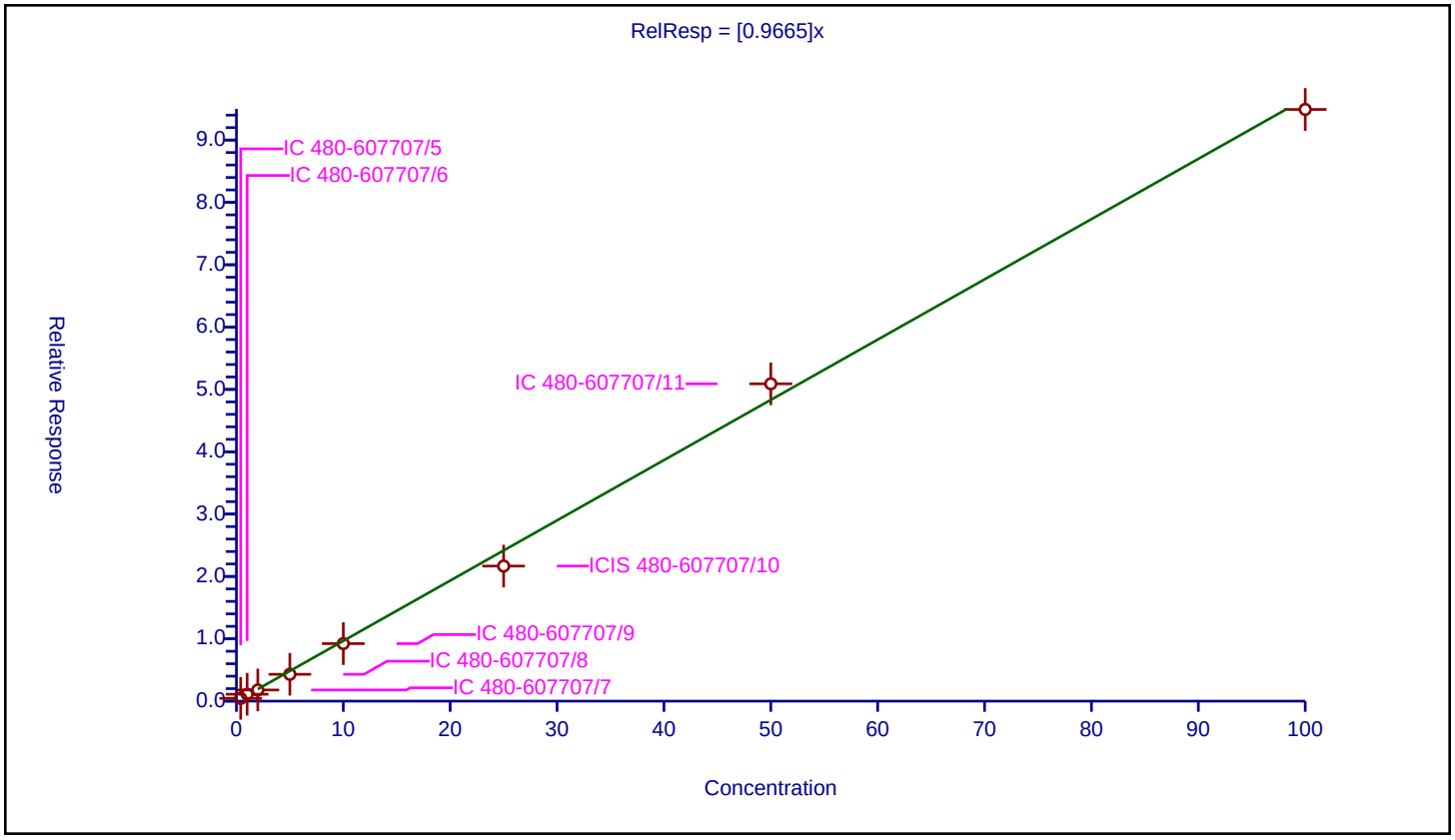
Curve Coefficients

Intercept:	0
Slope:	0.9665

Error Coefficients

Standard Error:	528000
Relative Standard Error:	10.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.444613	25.0	258483.0	1.111533	Y
2	IC 480-607707/6	1.0	1.108968	25.0	268876.0	1.108968	Y
3	IC 480-607707/7	2.0	1.788099	25.0	277082.0	0.894049	Y
4	IC 480-607707/8	5.0	4.305487	25.0	294235.0	0.861097	Y
5	IC 480-607707/9	10.0	9.226794	25.0	257454.0	0.922679	Y
6	ICIS 480-607707/10	25.0	21.665998	25.0	309058.0	0.86664	Y
7	IC 480-607707/11	50.0	50.902191	25.0	288215.0	1.018044	Y
8	IC 480-607707/12	100.0	94.910558	25.0	325296.0	0.949106	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

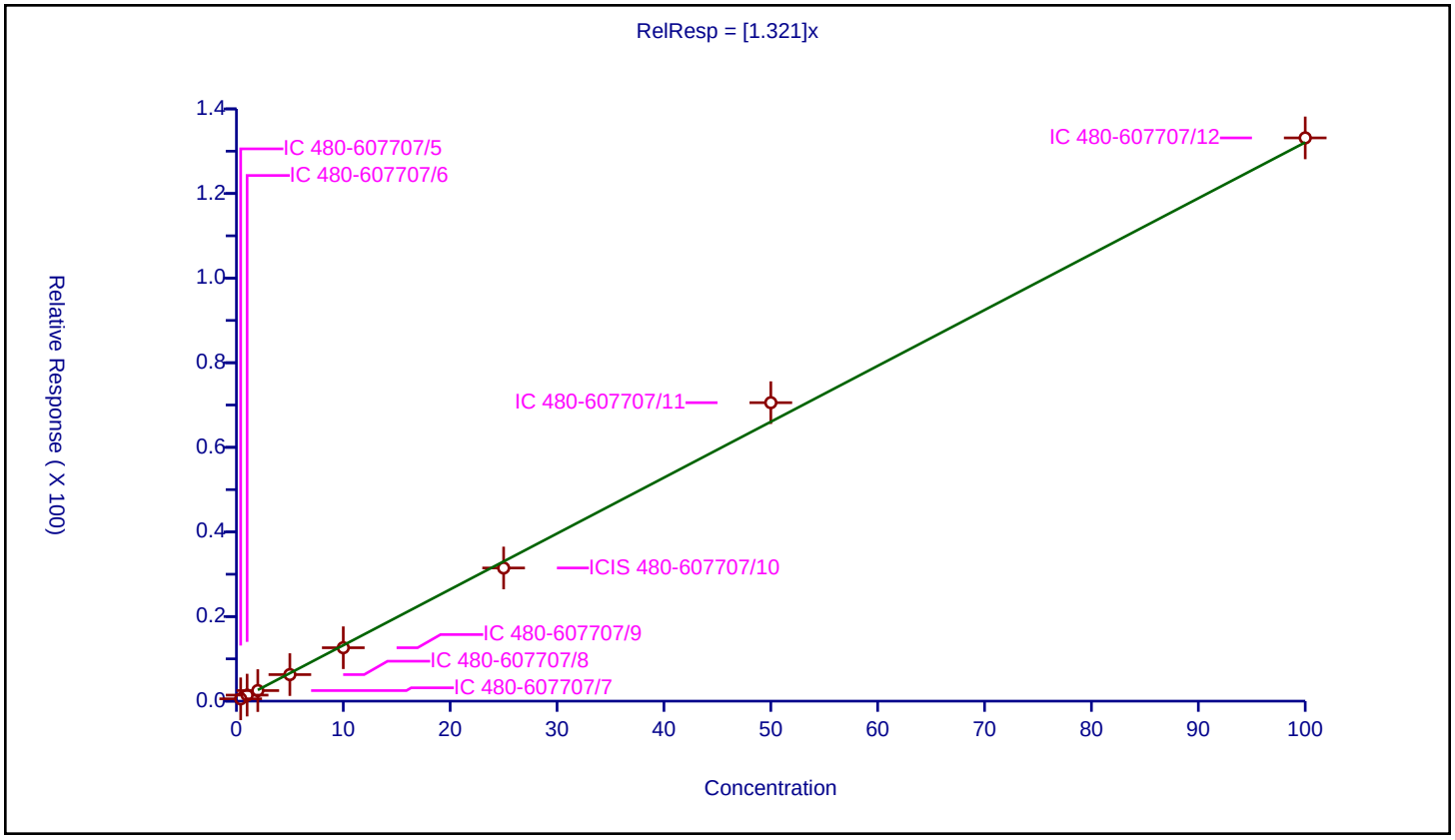
Curve Coefficients

Intercept:	0
Slope:	1.321

Error Coefficients

Standard Error:	740000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.549456	25.0	258483.0	1.37364	Y
2	IC 480-607707/6	1.0	1.424541	25.0	268876.0	1.424541	Y
3	IC 480-607707/7	2.0	2.497817	25.0	277082.0	1.248908	Y
4	IC 480-607707/8	5.0	6.276021	25.0	294235.0	1.255204	Y
5	IC 480-607707/9	10.0	12.62711	25.0	257454.0	1.262711	Y
6	ICIS 480-607707/10	25.0	31.473623	25.0	309058.0	1.258945	Y
7	IC 480-607707/11	50.0	70.552973	25.0	288215.0	1.411059	Y
8	IC 480-607707/12	100.0	133.146273	25.0	325296.0	1.331463	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

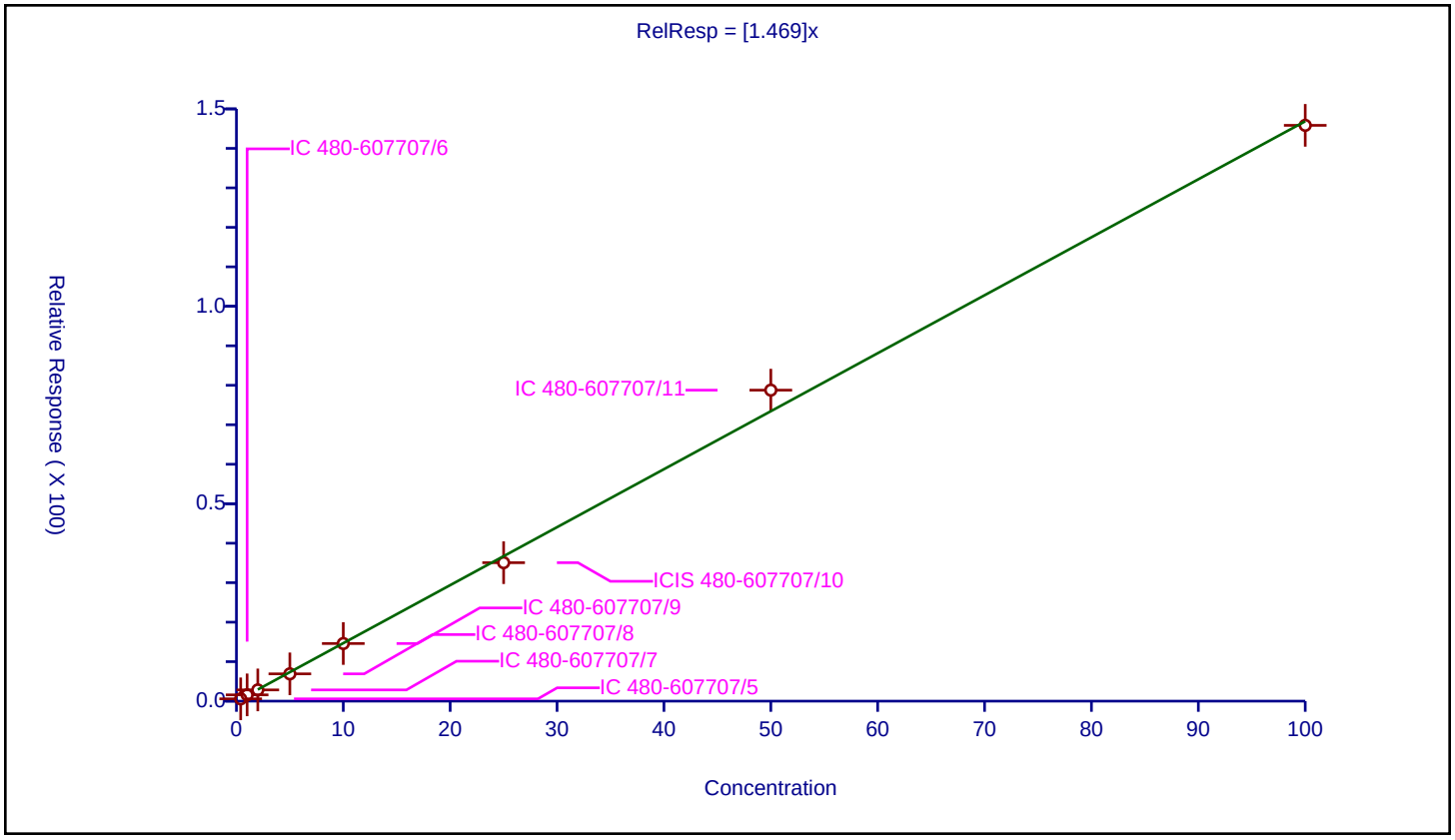
Curve Coefficients

Intercept:	0
Slope:	1.469

Error Coefficients

Standard Error:	814000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.582437	25.0	258483.0	1.456092	Y
2	IC 480-607707/6	1.0	1.591812	25.0	268876.0	1.591812	Y
3	IC 480-607707/7	2.0	2.844735	25.0	277082.0	1.422368	Y
4	IC 480-607707/8	5.0	6.913097	25.0	294235.0	1.382619	Y
5	IC 480-607707/9	10.0	14.593675	25.0	257454.0	1.459367	Y
6	ICIS 480-607707/10	25.0	35.069712	25.0	309058.0	1.402788	Y
7	IC 480-607707/11	50.0	78.764377	25.0	288215.0	1.575288	Y
8	IC 480-607707/12	100.0	145.828492	25.0	325296.0	1.458285	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

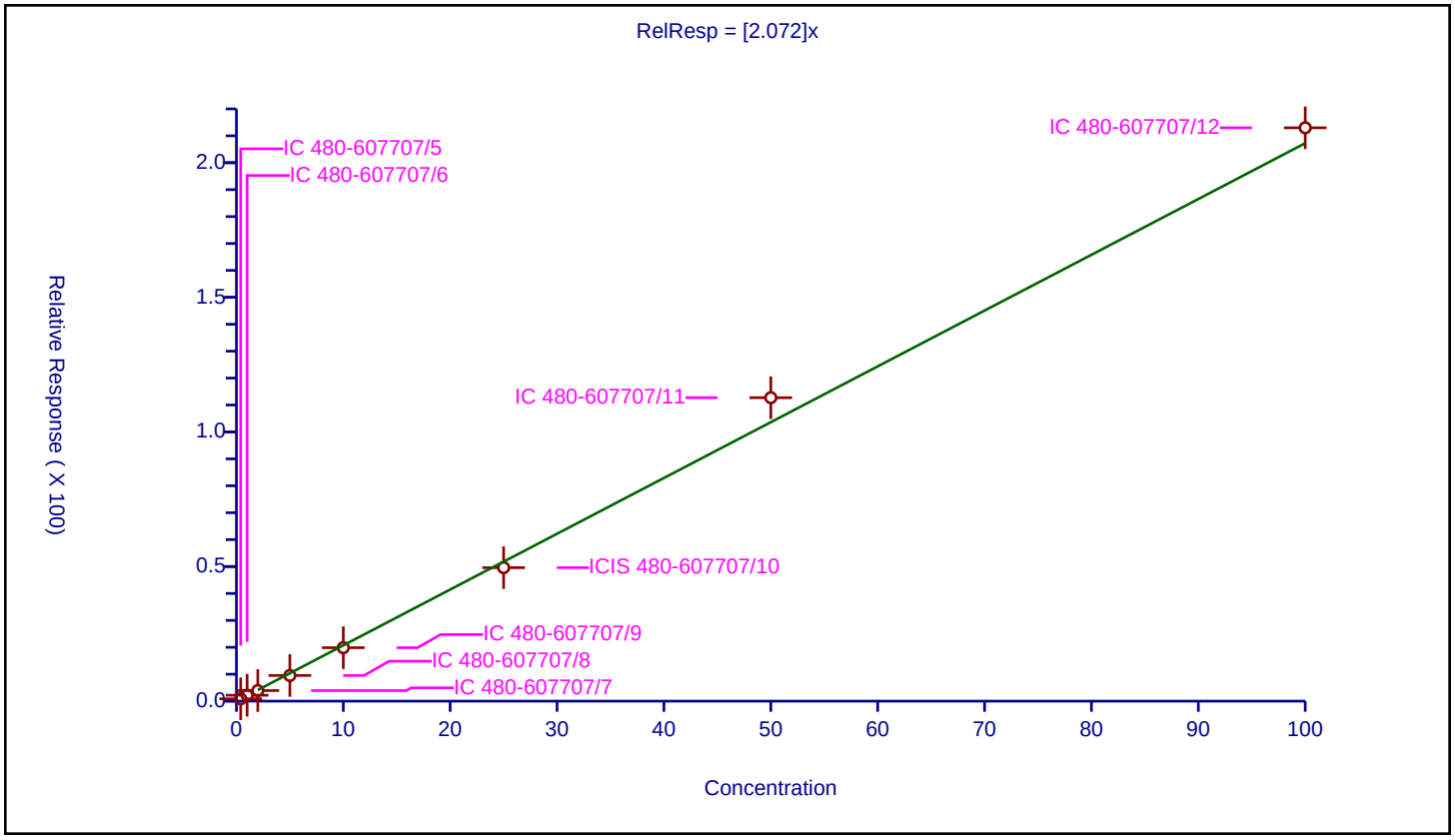
Curve Coefficients

Intercept:	0
Slope:	2.072

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	6.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.860501	25.0	258483.0	2.151254	Y
2	IC 480-607707/6	1.0	2.205757	25.0	268876.0	2.205757	Y
3	IC 480-607707/7	2.0	3.927538	25.0	277082.0	1.963769	Y
4	IC 480-607707/8	5.0	9.531752	25.0	294235.0	1.90635	Y
5	IC 480-607707/9	10.0	19.851119	25.0	257454.0	1.985112	Y
6	ICIS 480-607707/10	25.0	49.58325	25.0	309058.0	1.98333	Y
7	IC 480-607707/11	50.0	112.72236	25.0	288215.0	2.254447	Y
8	IC 480-607707/12	100.0	212.979563	25.0	325296.0	2.129796	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

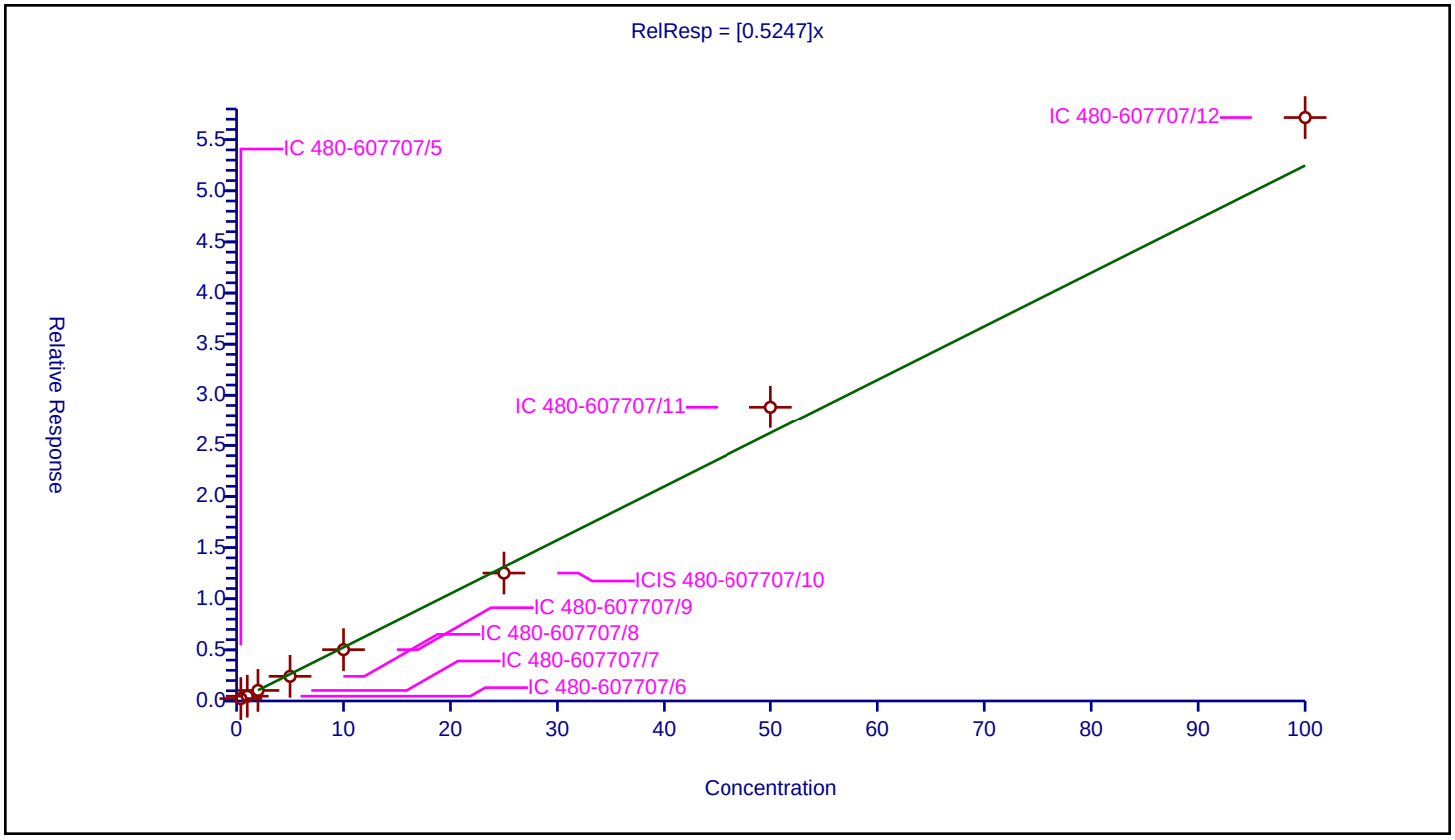
Curve Coefficients

Intercept:	0
Slope:	0.5247

Error Coefficients

Standard Error:	314000
Relative Standard Error:	8.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.232414	25.0	258483.0	0.581034	Y
2	IC 480-607707/6	1.0	0.467874	25.0	268876.0	0.467874	Y
3	IC 480-607707/7	2.0	1.031734	25.0	277082.0	0.515867	Y
4	IC 480-607707/8	5.0	2.410913	25.0	294235.0	0.482183	Y
5	IC 480-607707/9	10.0	5.021382	25.0	257454.0	0.502138	Y
6	ICIS 480-607707/10	25.0	12.513104	25.0	309058.0	0.500524	Y
7	IC 480-607707/11	50.0	28.823881	25.0	288215.0	0.576478	Y
8	IC 480-607707/12	100.0	57.166166	25.0	325296.0	0.571662	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

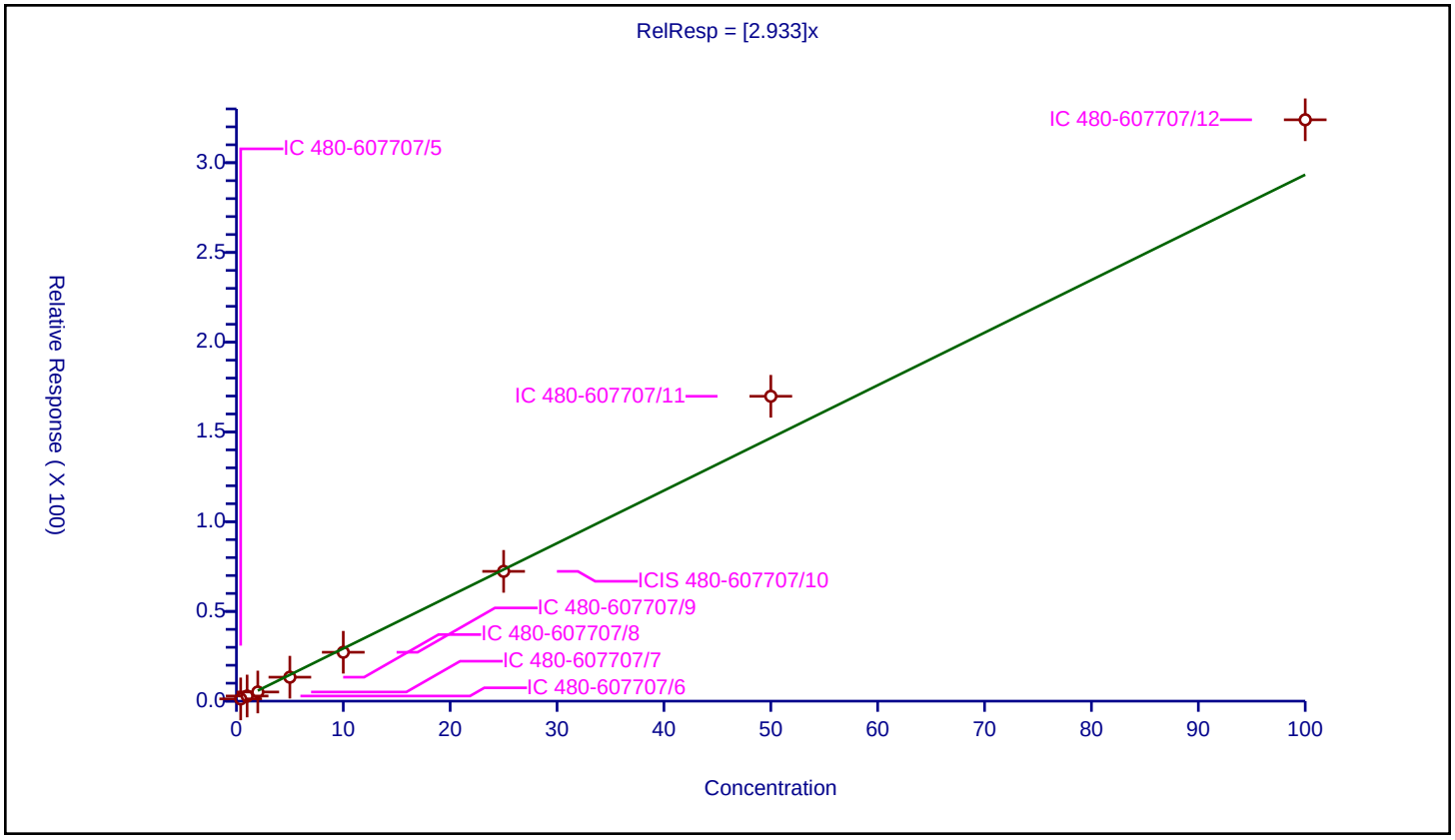
Curve Coefficients

Intercept:	0
Slope:	2.933

Error Coefficients

Standard Error:	2260000
Relative Standard Error:	10.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.254065	25.0	353032.0	3.135162	Y
2	IC 480-607707/6	1.0	2.856728	25.0	368271.0	2.856728	Y
3	IC 480-607707/7	2.0	5.104115	25.0	389475.0	2.552057	Y
4	IC 480-607707/8	5.0	13.344913	25.0	380261.0	2.668983	Y
5	IC 480-607707/9	10.0	27.240143	25.0	352723.0	2.724014	Y
6	ICIS 480-607707/10	25.0	72.303135	25.0	408706.0	2.892125	Y
7	IC 480-607707/11	50.0	169.876666	25.0	362269.0	3.397533	Y
8	IC 480-607707/12	100.0	323.928166	25.0	410208.0	3.239282	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

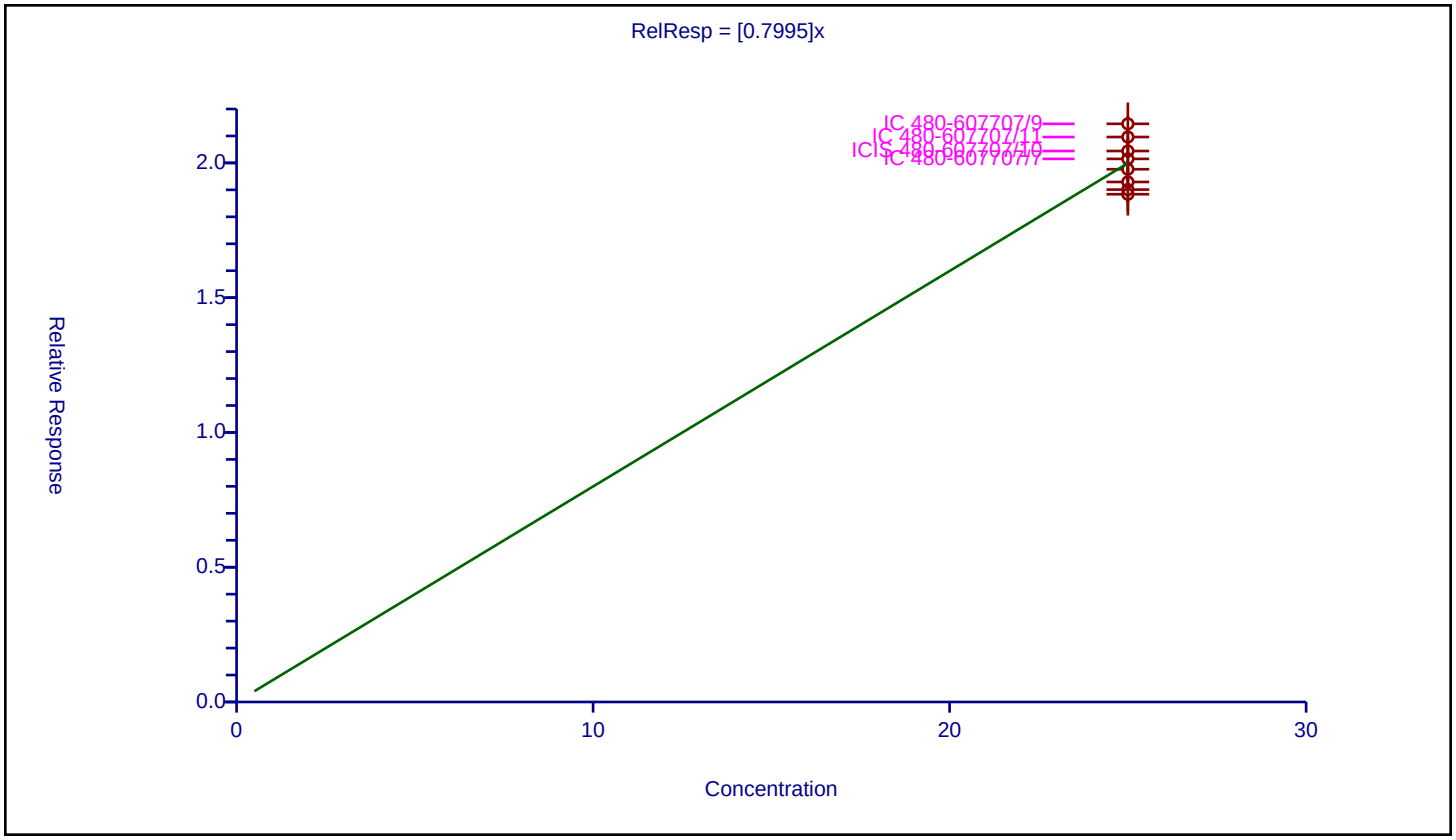
Curve Coefficients

Intercept:	0
Slope:	0.7995

Error Coefficients

Standard Error:	244000
Relative Standard Error:	4.7
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	25.0	19.009858	25.0	258483.0	0.760394	Y
2	IC 480-607707/6	25.0	19.764966	25.0	268876.0	0.790599	Y
3	IC 480-607707/7	25.0	20.150082	25.0	277082.0	0.806003	Y
4	IC 480-607707/8	25.0	19.293337	25.0	294235.0	0.771733	Y
5	IC 480-607707/9	25.0	21.44956	25.0	257454.0	0.857982	Y
6	ICIS 480-607707/10	25.0	20.441471	25.0	309058.0	0.817659	Y
7	IC 480-607707/11	25.0	20.960828	25.0	288215.0	0.838433	Y
8	IC 480-607707/12	25.0	18.838304	25.0	325296.0	0.753532	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

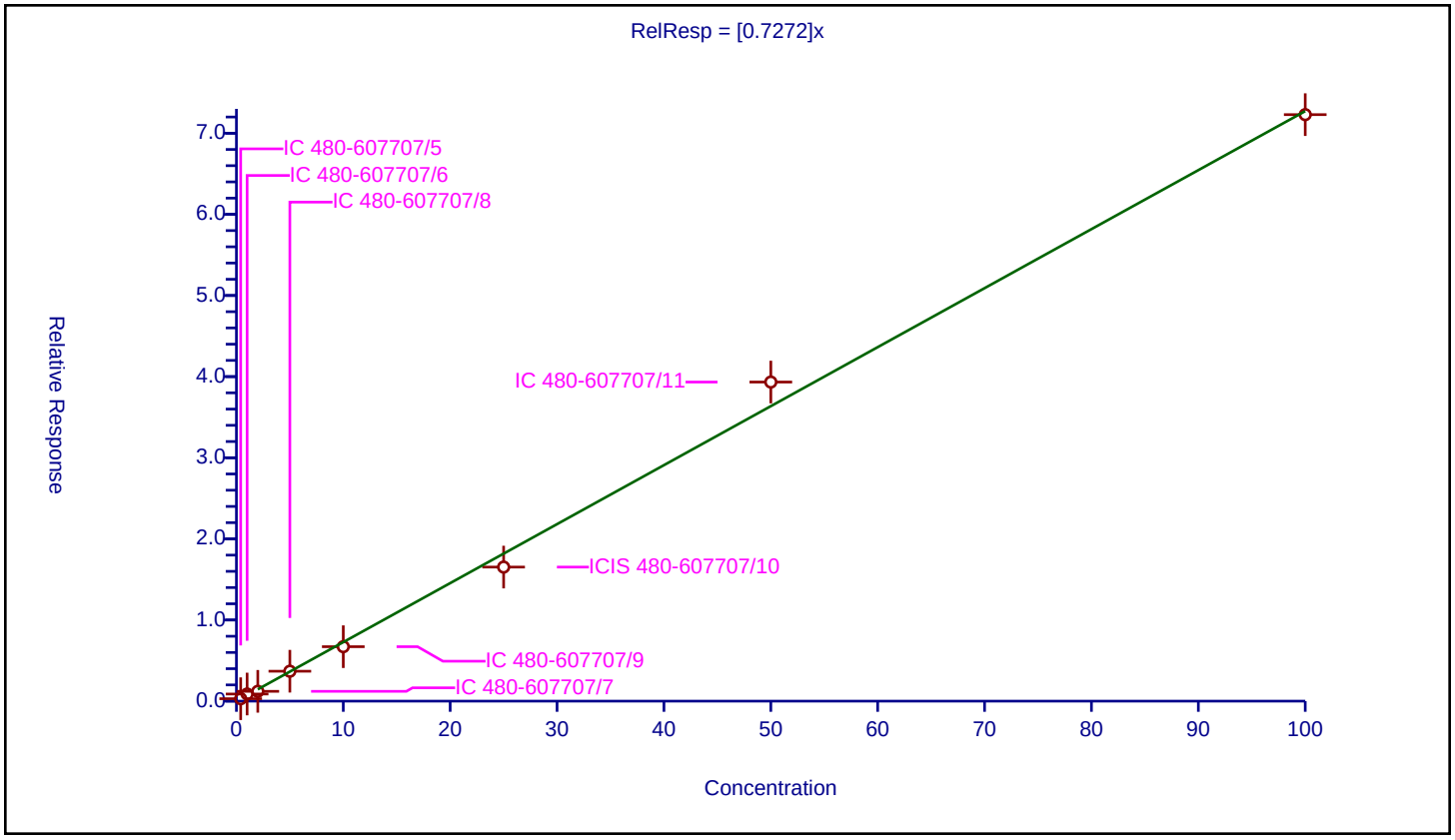
Curve Coefficients

Intercept:	0
Slope:	0.7272

Error Coefficients

Standard Error:	510000
Relative Standard Error:	11.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.301956	25.0	353032.0	0.754889	Y
2	IC 480-607707/6	1.0	0.877547	25.0	368271.0	0.877547	Y
3	IC 480-607707/7	2.0	1.211118	25.0	389475.0	0.605559	Y
4	IC 480-607707/8	5.0	3.689045	25.0	380261.0	0.737809	Y
5	IC 480-607707/9	10.0	6.712916	25.0	352723.0	0.671292	Y
6	ICIS 480-607707/10	25.0	16.525265	25.0	408706.0	0.661011	Y
7	IC 480-607707/11	50.0	39.331339	25.0	362269.0	0.786627	Y
8	IC 480-607707/12	100.0	72.290582	25.0	410208.0	0.722906	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

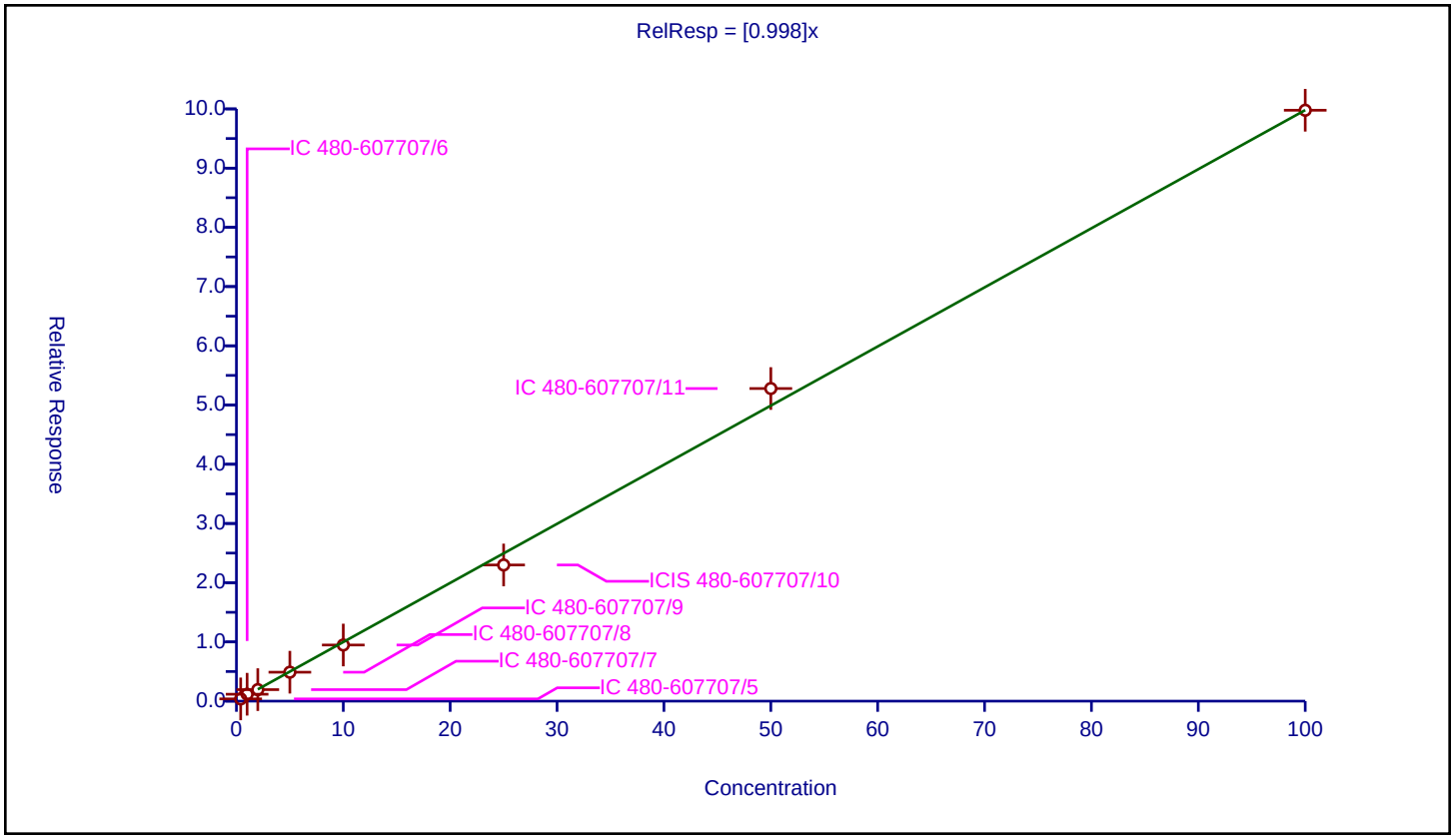
Curve Coefficients

Intercept:	0
Slope:	0.998

Error Coefficients

Standard Error:	700000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.378719	25.0	353032.0	0.946798	Y
2	IC 480-607707/6	1.0	1.16694	25.0	368271.0	1.16694	Y
3	IC 480-607707/7	2.0	1.943321	25.0	389475.0	0.971661	Y
4	IC 480-607707/8	5.0	4.88763	25.0	380261.0	0.977526	Y
5	IC 480-607707/9	10.0	9.478684	25.0	352723.0	0.947868	Y
6	ICIS 480-607707/10	25.0	22.9922	25.0	408706.0	0.919688	Y
7	IC 480-607707/11	50.0	52.785292	25.0	362269.0	1.055706	Y
8	IC 480-607707/12	100.0	99.769081	25.0	410208.0	0.997691	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

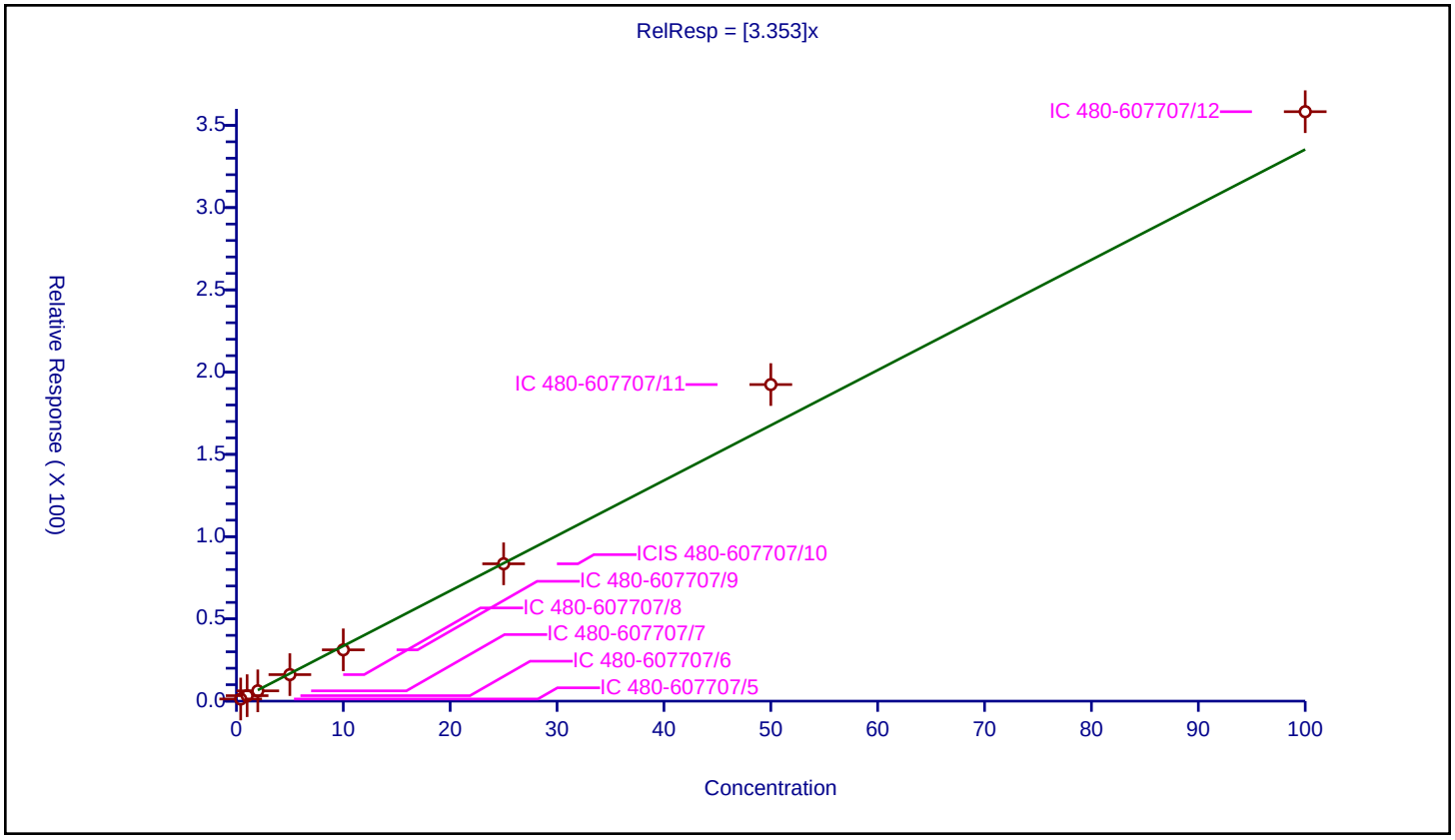
Curve Coefficients

Intercept:	0
Slope:	3.353

Error Coefficients

Standard Error:	2520000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.300944	25.0	353032.0	3.252361	Y
2	IC 480-607707/6	1.0	3.332872	25.0	368271.0	3.332872	Y
3	IC 480-607707/7	2.0	6.260158	25.0	389475.0	3.130079	Y
4	IC 480-607707/8	5.0	16.113604	25.0	380261.0	3.222721	Y
5	IC 480-607707/9	10.0	31.184811	25.0	352723.0	3.118481	Y
6	ICIS 480-607707/10	25.0	83.474613	25.0	408706.0	3.338985	Y
7	IC 480-607707/11	50.0	192.436146	25.0	362269.0	3.848723	Y
8	IC 480-607707/12	100.0	358.294329	25.0	410208.0	3.582943	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

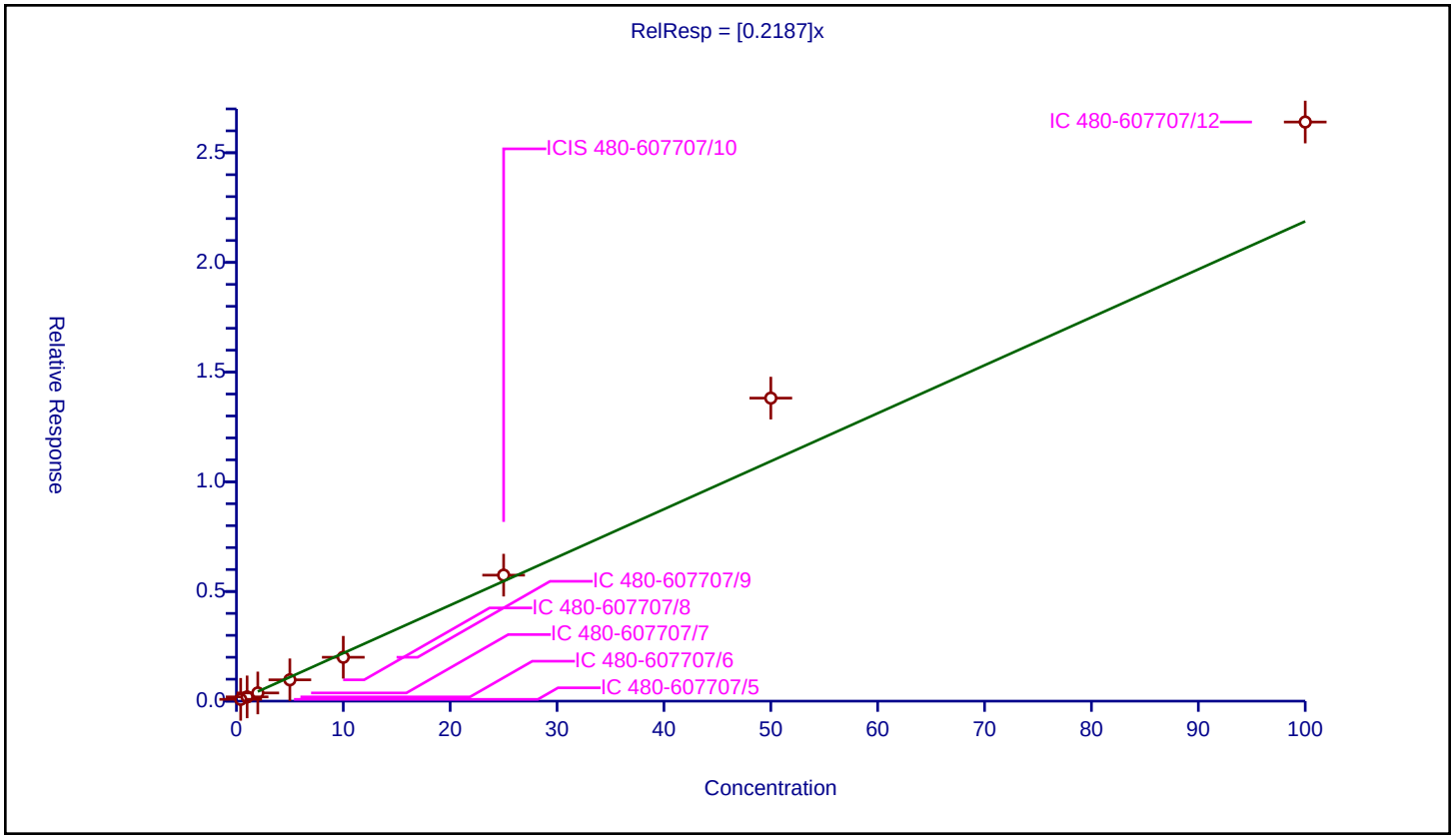
Curve Coefficients

Intercept:	0
Slope:	0.2187

Error Coefficients

Standard Error:	184000
Relative Standard Error:	15.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.081933	25.0	353032.0	0.204833	Y
2	IC 480-607707/6	1.0	0.19354	25.0	368271.0	0.19354	Y
3	IC 480-607707/7	2.0	0.373708	25.0	389475.0	0.186854	Y
4	IC 480-607707/8	5.0	0.972556	25.0	380261.0	0.194511	Y
5	IC 480-607707/9	10.0	2.001004	25.0	352723.0	0.2001	Y
6	ICIS 480-607707/10	25.0	5.743371	25.0	408706.0	0.229735	Y
7	IC 480-607707/11	50.0	13.814251	25.0	362269.0	0.276285	Y
8	IC 480-607707/12	100.0	26.401789	25.0	410208.0	0.264018	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

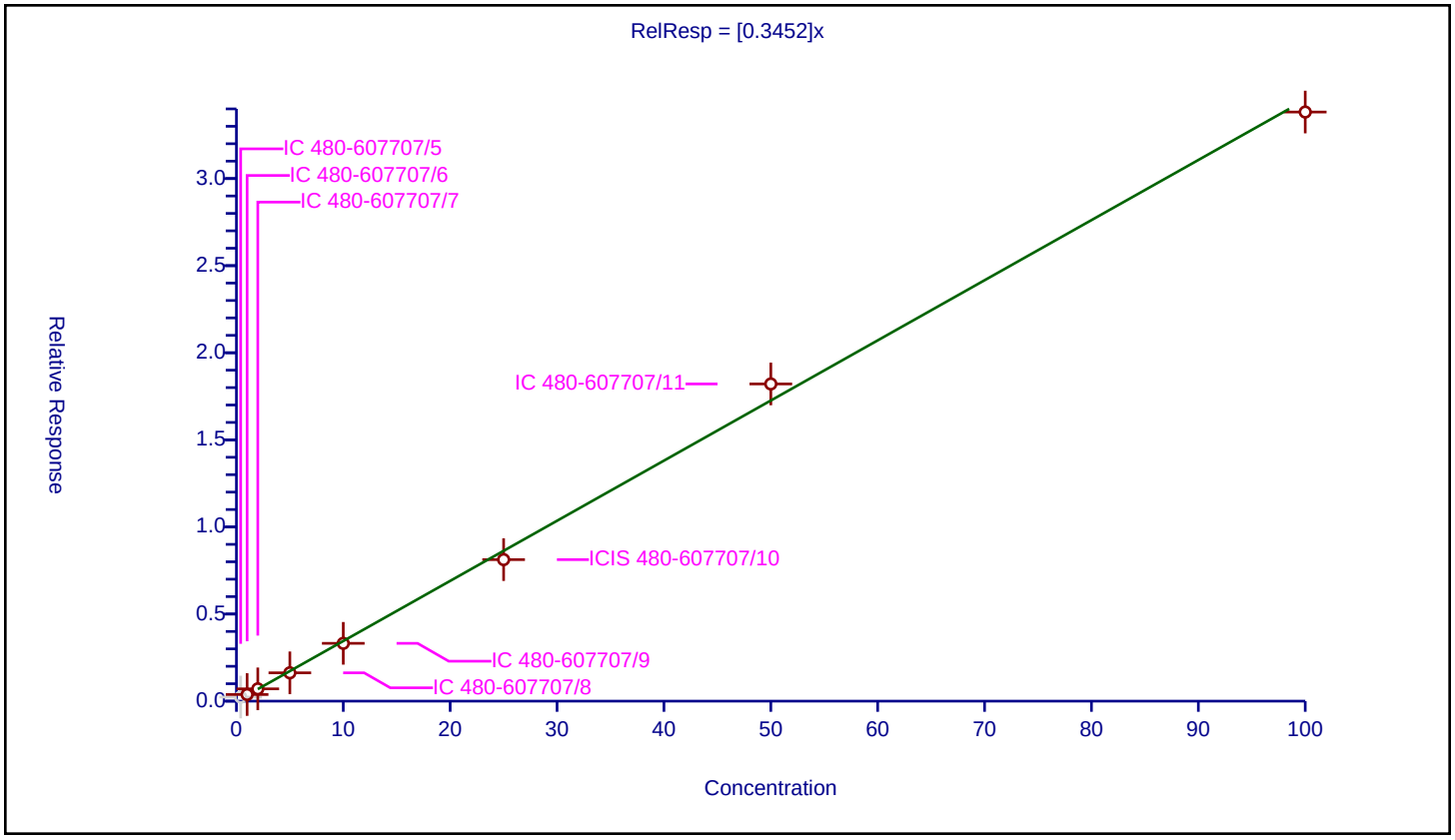
Curve Coefficients

Intercept:	0
Slope:	0.3452

Error Coefficients

Standard Error:	258000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.234823	25.0	353032.0	0.587057	N
2	IC 480-607707/6	1.0	0.37934	25.0	368271.0	0.37934	Y
3	IC 480-607707/7	2.0	0.704923	25.0	389475.0	0.352462	Y
4	IC 480-607707/8	5.0	1.625725	25.0	380261.0	0.325145	Y
5	IC 480-607707/9	10.0	3.318752	25.0	352723.0	0.331875	Y
6	ICIS 480-607707/10	25.0	8.123871	25.0	408706.0	0.324955	Y
7	IC 480-607707/11	50.0	18.210156	25.0	362269.0	0.364203	Y
8	IC 480-607707/12	100.0	33.819489	25.0	410208.0	0.338195	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

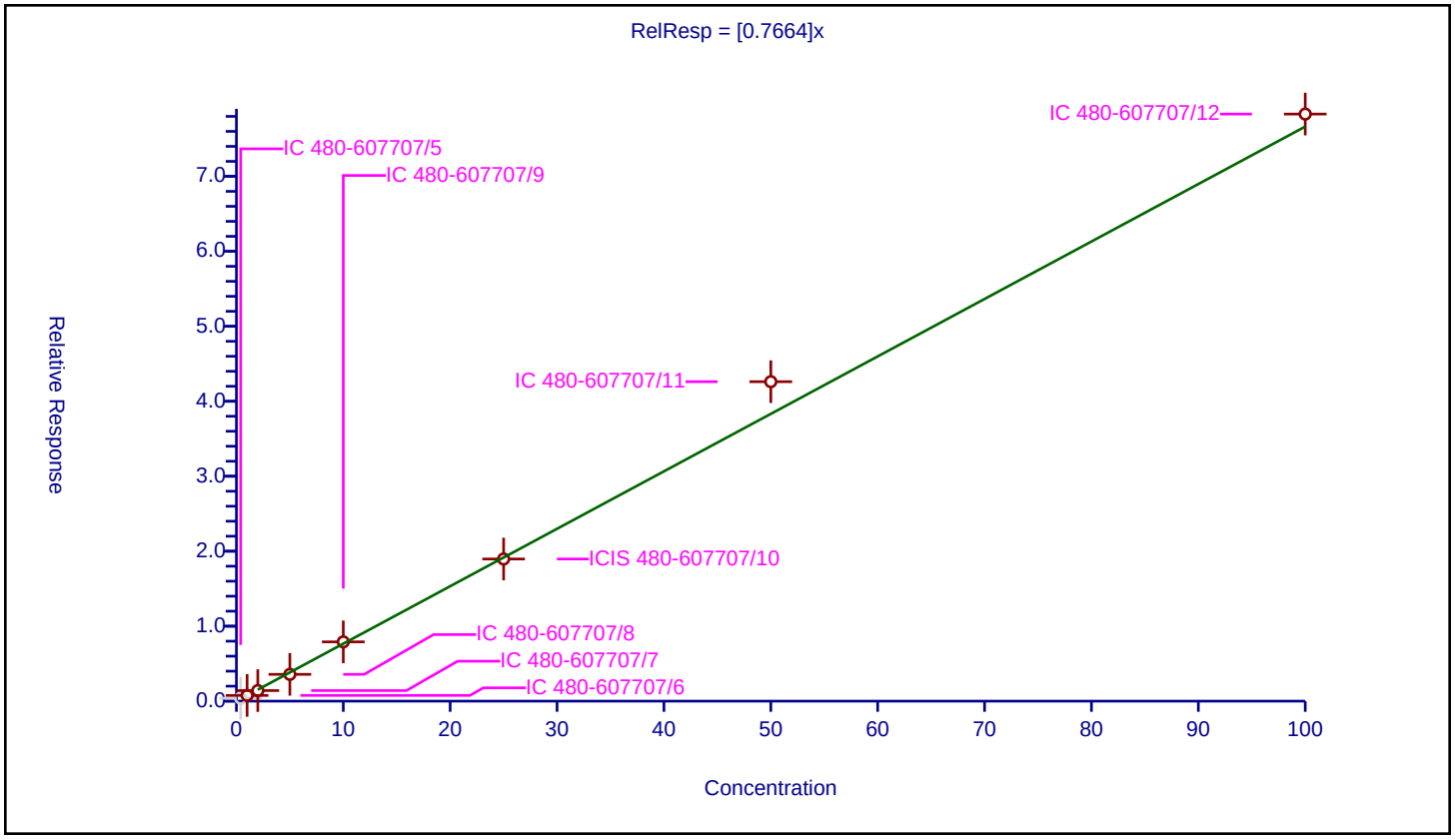
Curve Coefficients

Intercept:	0
Slope:	0.7664

Error Coefficients

Standard Error:	598000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.391253	25.0	353032.0	0.978134	N
2	IC 480-607707/6	1.0	0.760581	25.0	368271.0	0.760581	Y
3	IC 480-607707/7	2.0	1.409461	25.0	389475.0	0.704731	Y
4	IC 480-607707/8	5.0	3.573927	25.0	380261.0	0.714785	Y
5	IC 480-607707/9	10.0	7.906133	25.0	352723.0	0.790613	Y
6	ICIS 480-607707/10	25.0	18.960573	25.0	408706.0	0.758423	Y
7	IC 480-607707/11	50.0	42.614121	25.0	362269.0	0.852282	Y
8	IC 480-607707/12	100.0	78.311064	25.0	410208.0	0.783111	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

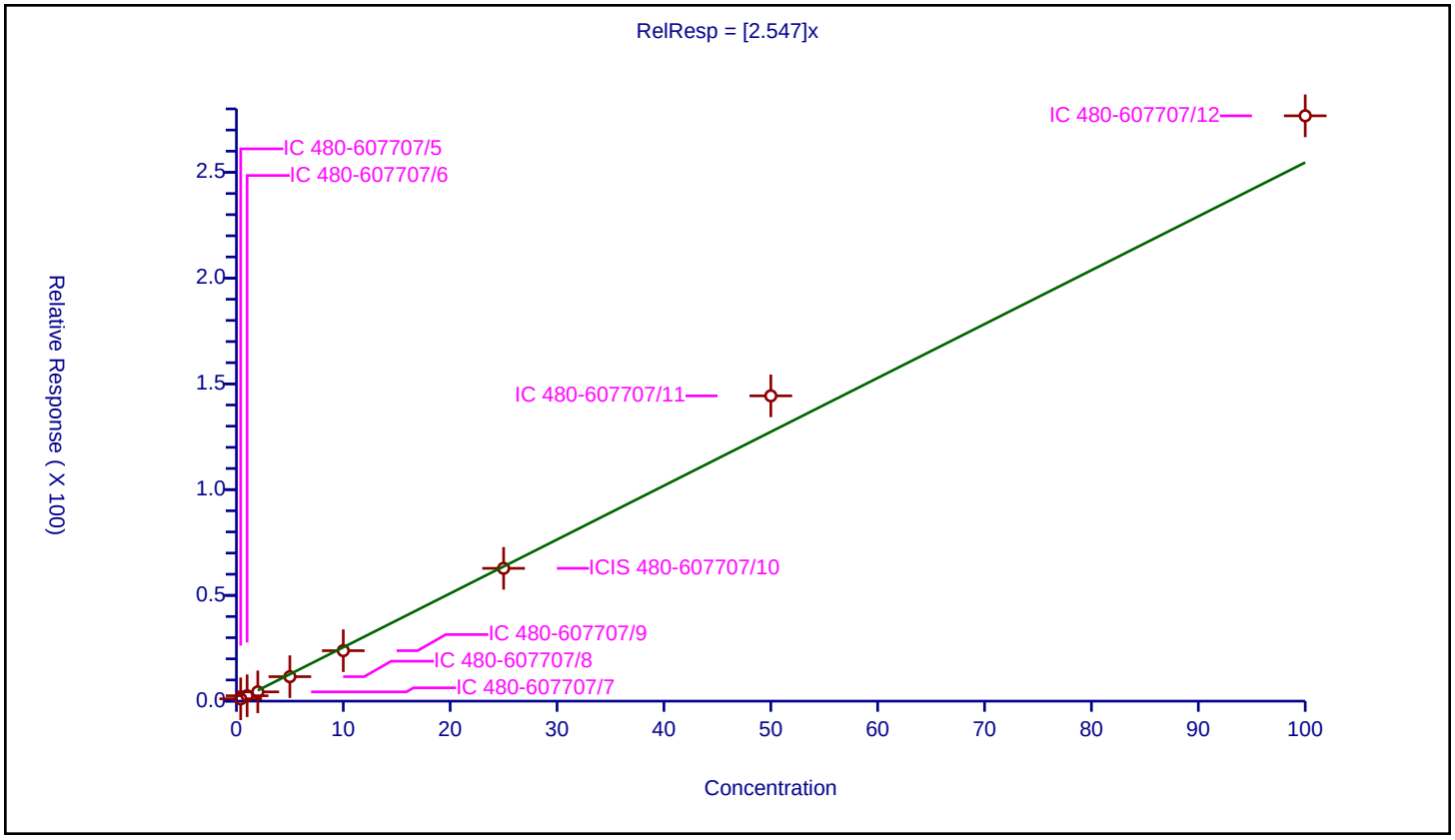
Curve Coefficients

Intercept:	0
Slope:	2.547

Error Coefficients

Standard Error:	1930000
Relative Standard Error:	9.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.105566	25.0	353032.0	2.763914	Y
2	IC 480-607707/6	1.0	2.547241	25.0	368271.0	2.547241	Y
3	IC 480-607707/7	2.0	4.393286	25.0	389475.0	2.196643	Y
4	IC 480-607707/8	5.0	11.565149	25.0	380261.0	2.31303	Y
5	IC 480-607707/9	10.0	23.861288	25.0	352723.0	2.386129	Y
6	ICIS 480-607707/10	25.0	62.795383	25.0	408706.0	2.511815	Y
7	IC 480-607707/11	50.0	144.340462	25.0	362269.0	2.886809	Y
8	IC 480-607707/12	100.0	276.72315	25.0	410208.0	2.767232	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

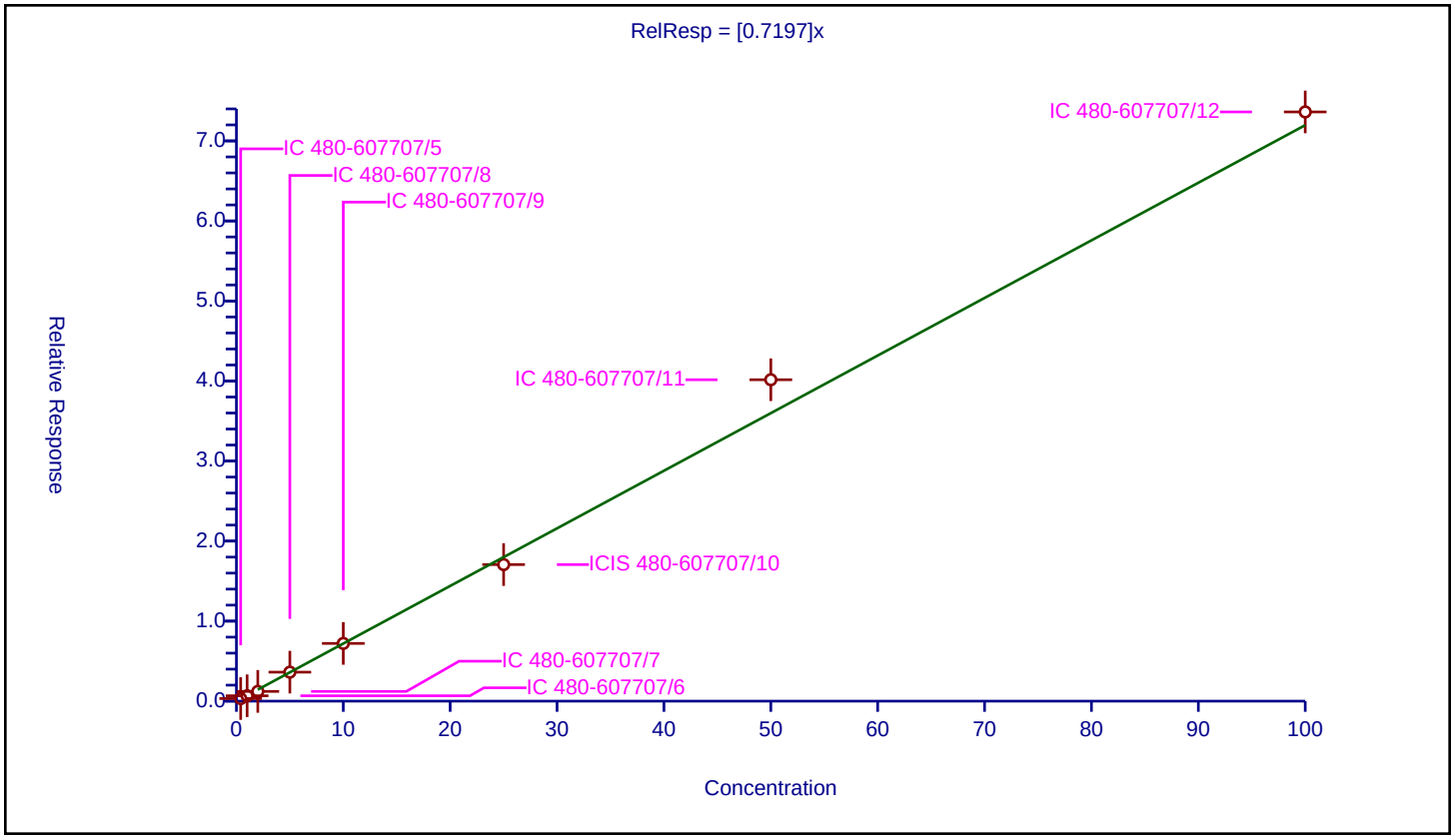
Curve Coefficients

Intercept:	0
Slope:	0.7197

Error Coefficients

Standard Error:	520000
Relative Standard Error:	9.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.325112	25.0	353032.0	0.81278	Y
2	IC 480-607707/6	1.0	0.669412	25.0	368271.0	0.669412	Y
3	IC 480-607707/7	2.0	1.215161	25.0	389475.0	0.607581	Y
4	IC 480-607707/8	5.0	3.62192	25.0	380261.0	0.724384	Y
5	IC 480-607707/9	10.0	7.211679	25.0	352723.0	0.721168	Y
6	ICIS 480-607707/10	25.0	17.062142	25.0	408706.0	0.682486	Y
7	IC 480-607707/11	50.0	40.160143	25.0	362269.0	0.803203	Y
8	IC 480-607707/12	100.0	73.620456	25.0	410208.0	0.736205	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

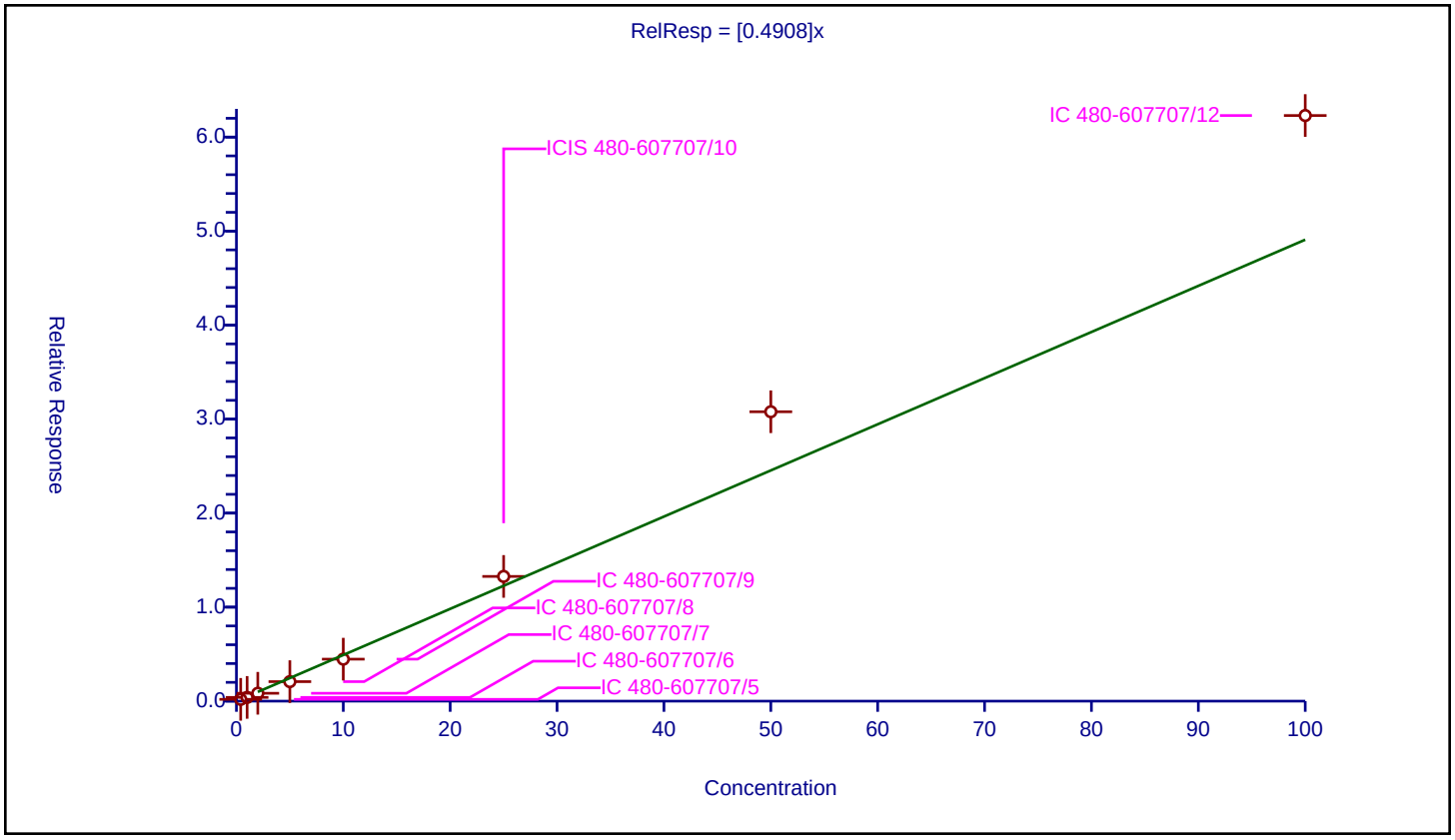
Curve Coefficients

Intercept:	0
Slope:	0.4908

Error Coefficients

Standard Error:	430000
Relative Standard Error:	18.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.191838	25.0	353032.0	0.479595	Y
2	IC 480-607707/6	1.0	0.397873	25.0	368271.0	0.397873	Y
3	IC 480-607707/7	2.0	0.836511	25.0	389475.0	0.418255	Y
4	IC 480-607707/8	5.0	2.075482	25.0	380261.0	0.415096	Y
5	IC 480-607707/9	10.0	4.466253	25.0	352723.0	0.446625	Y
6	ICIS 480-607707/10	25.0	13.265036	25.0	408706.0	0.530601	Y
7	IC 480-607707/11	50.0	30.783548	25.0	362269.0	0.615671	Y
8	IC 480-607707/12	100.0	62.293276	25.0	410208.0	0.622933	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

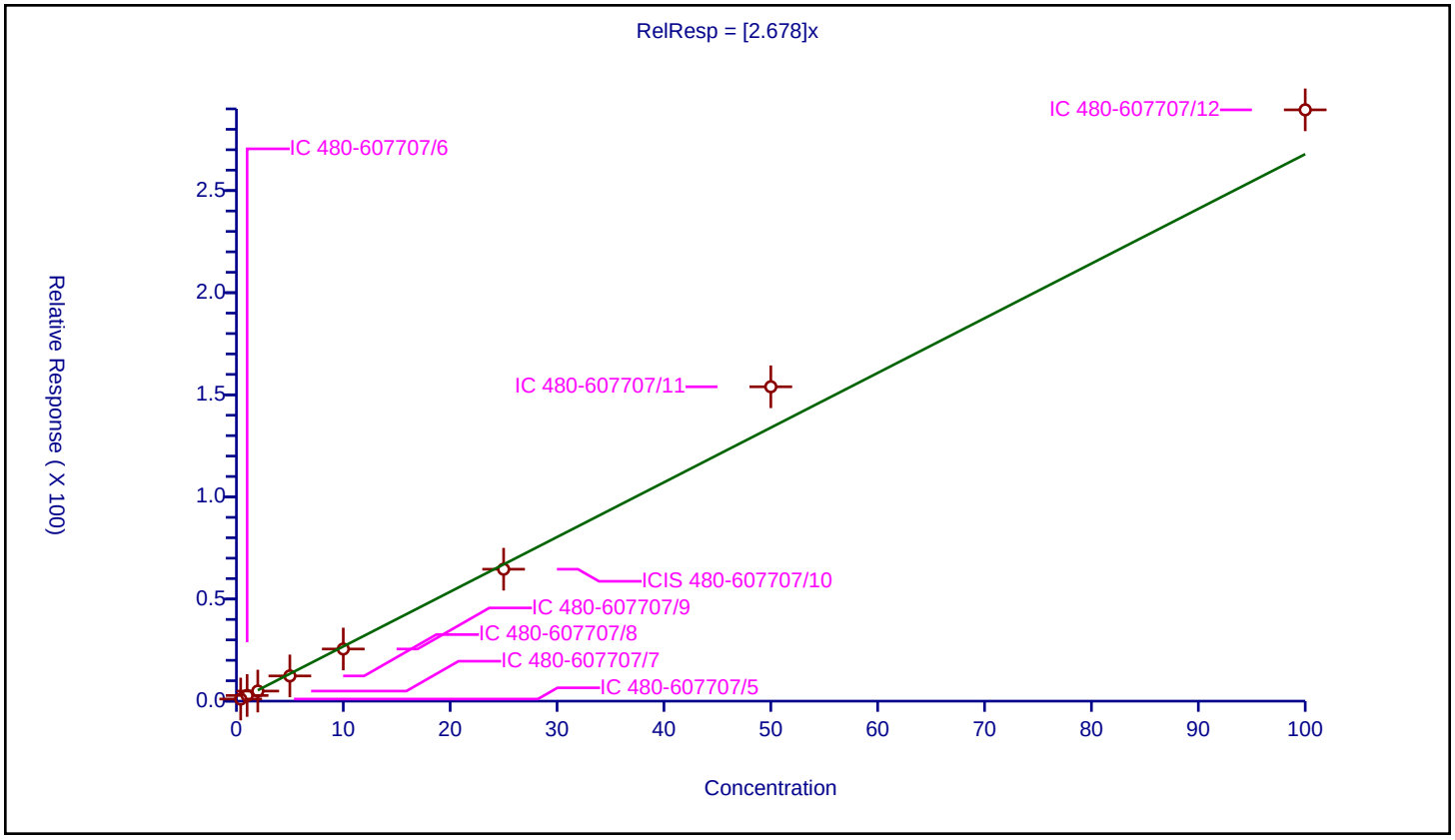
Curve Coefficients

Intercept:	0
Slope:	2.678

Error Coefficients

Standard Error:	2030000
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.041761	25.0	353032.0	2.604403	Y
2	IC 480-607707/6	1.0	2.774112	25.0	368271.0	2.774112	Y
3	IC 480-607707/7	2.0	4.937865	25.0	389475.0	2.468933	Y
4	IC 480-607707/8	5.0	12.345271	25.0	380261.0	2.469054	Y
5	IC 480-607707/9	10.0	25.522719	25.0	352723.0	2.552272	Y
6	ICIS 480-607707/10	25.0	64.602612	25.0	408706.0	2.584104	Y
7	IC 480-607707/11	50.0	153.936923	25.0	362269.0	3.078738	Y
8	IC 480-607707/12	100.0	289.533359	25.0	410208.0	2.895334	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

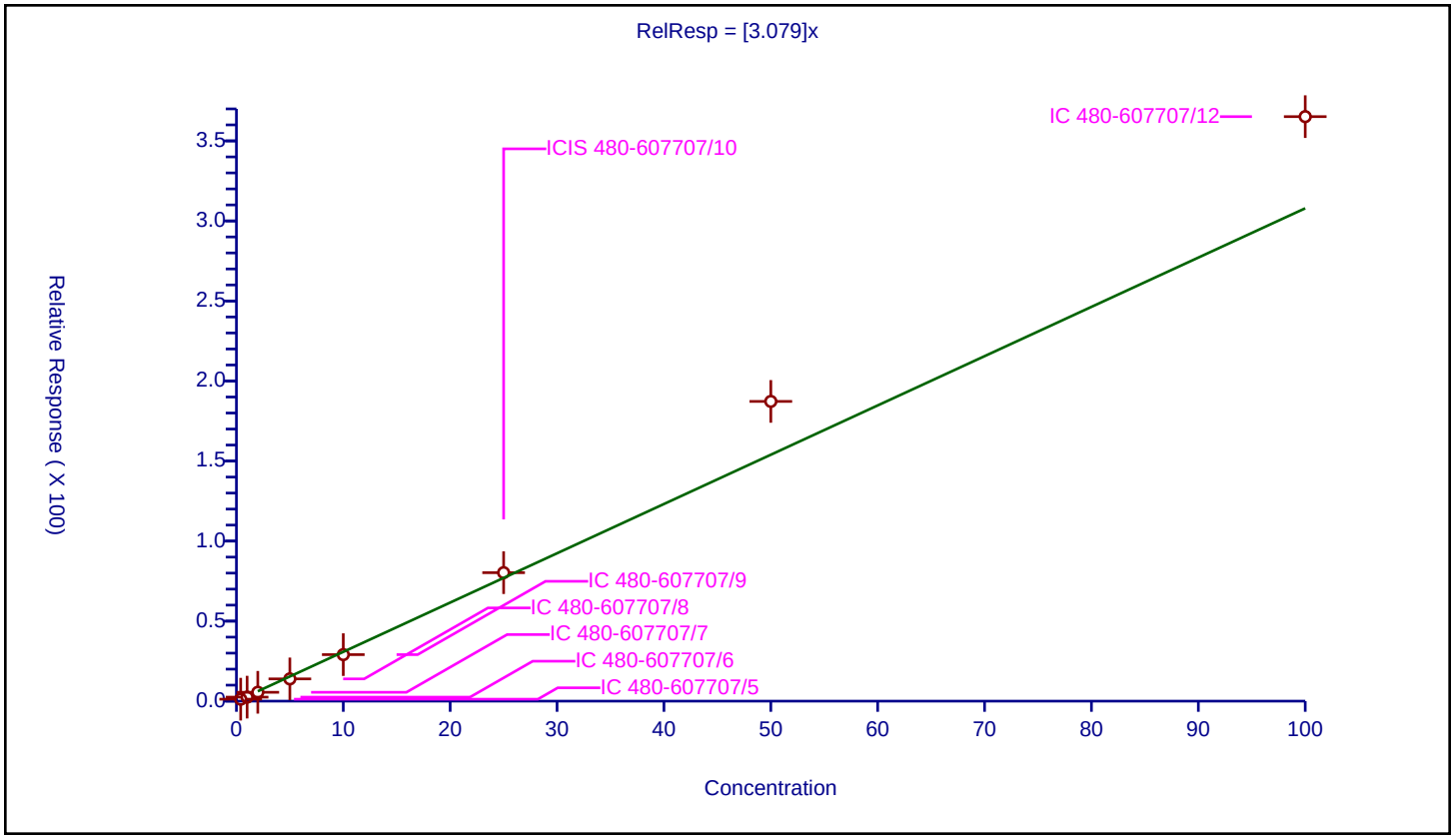
Curve Coefficients

Intercept:	0
Slope:	3.079

Error Coefficients

Standard Error:	2540000
Relative Standard Error:	14.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.228359	25.0	353032.0	3.070897	Y
2	IC 480-607707/6	1.0	2.504813	25.0	368271.0	2.504813	Y
3	IC 480-607707/7	2.0	5.525066	25.0	389475.0	2.762533	Y
4	IC 480-607707/8	5.0	13.902293	25.0	380261.0	2.780459	Y
5	IC 480-607707/9	10.0	29.054811	25.0	352723.0	2.905481	Y
6	ICIS 480-607707/10	25.0	80.260872	25.0	408706.0	3.210435	Y
7	IC 480-607707/11	50.0	187.256776	25.0	362269.0	3.745136	Y
8	IC 480-607707/12	100.0	365.154324	25.0	410208.0	3.651543	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

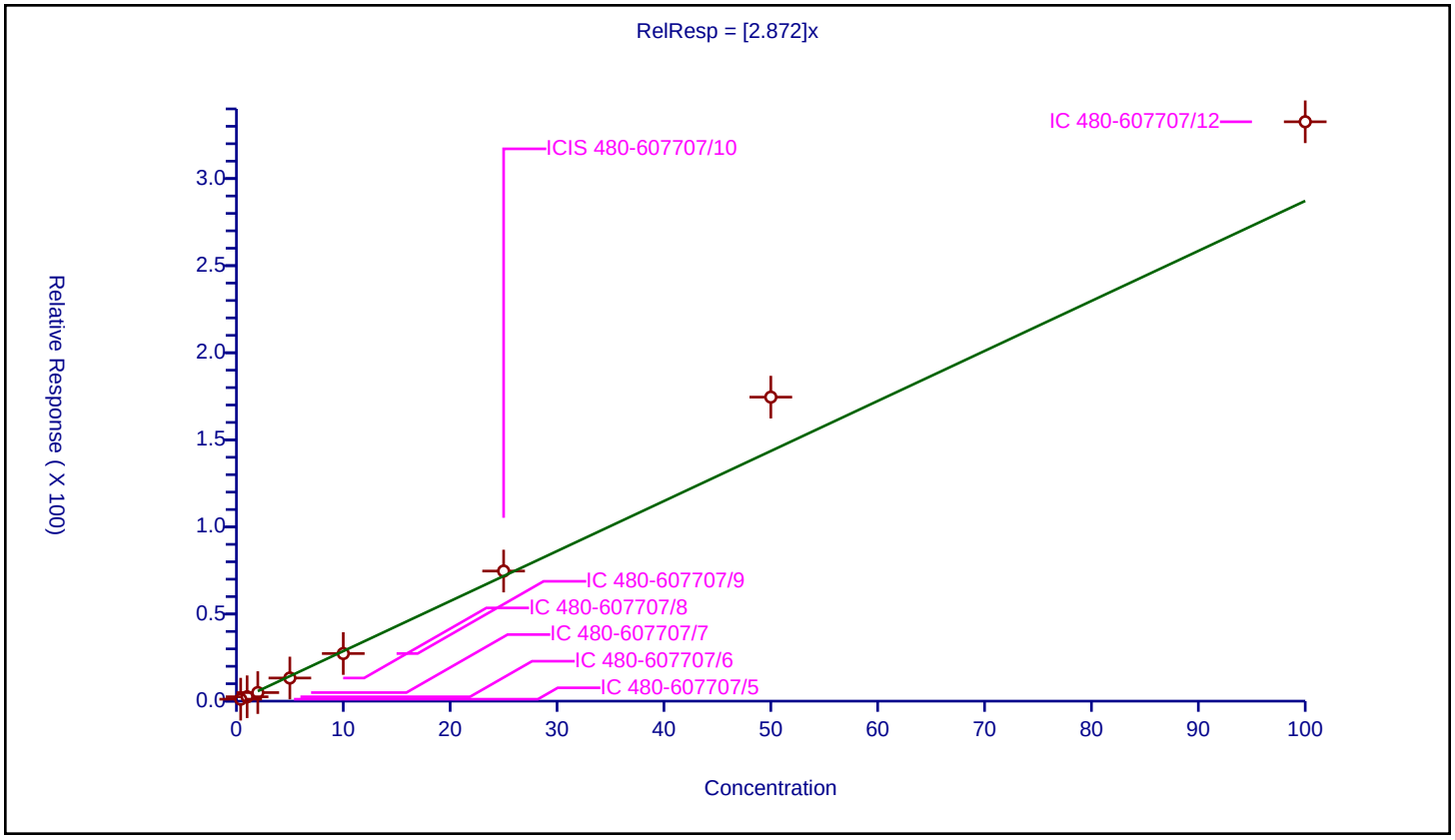
Curve Coefficients

Intercept:	0
Slope:	2.872

Error Coefficients

Standard Error:	2330000
Relative Standard Error:	13.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.126244	25.0	353032.0	2.815609	Y
2	IC 480-607707/6	1.0	2.512212	25.0	368271.0	2.512212	Y
3	IC 480-607707/7	2.0	4.910649	25.0	389475.0	2.455324	Y
4	IC 480-607707/8	5.0	13.272134	25.0	380261.0	2.654427	Y
5	IC 480-607707/9	10.0	27.328031	25.0	352723.0	2.732803	Y
6	ICIS 480-607707/10	25.0	74.677641	25.0	408706.0	2.987106	Y
7	IC 480-607707/11	50.0	174.535635	25.0	362269.0	3.490713	Y
8	IC 480-607707/12	100.0	332.592246	25.0	410208.0	3.325922	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

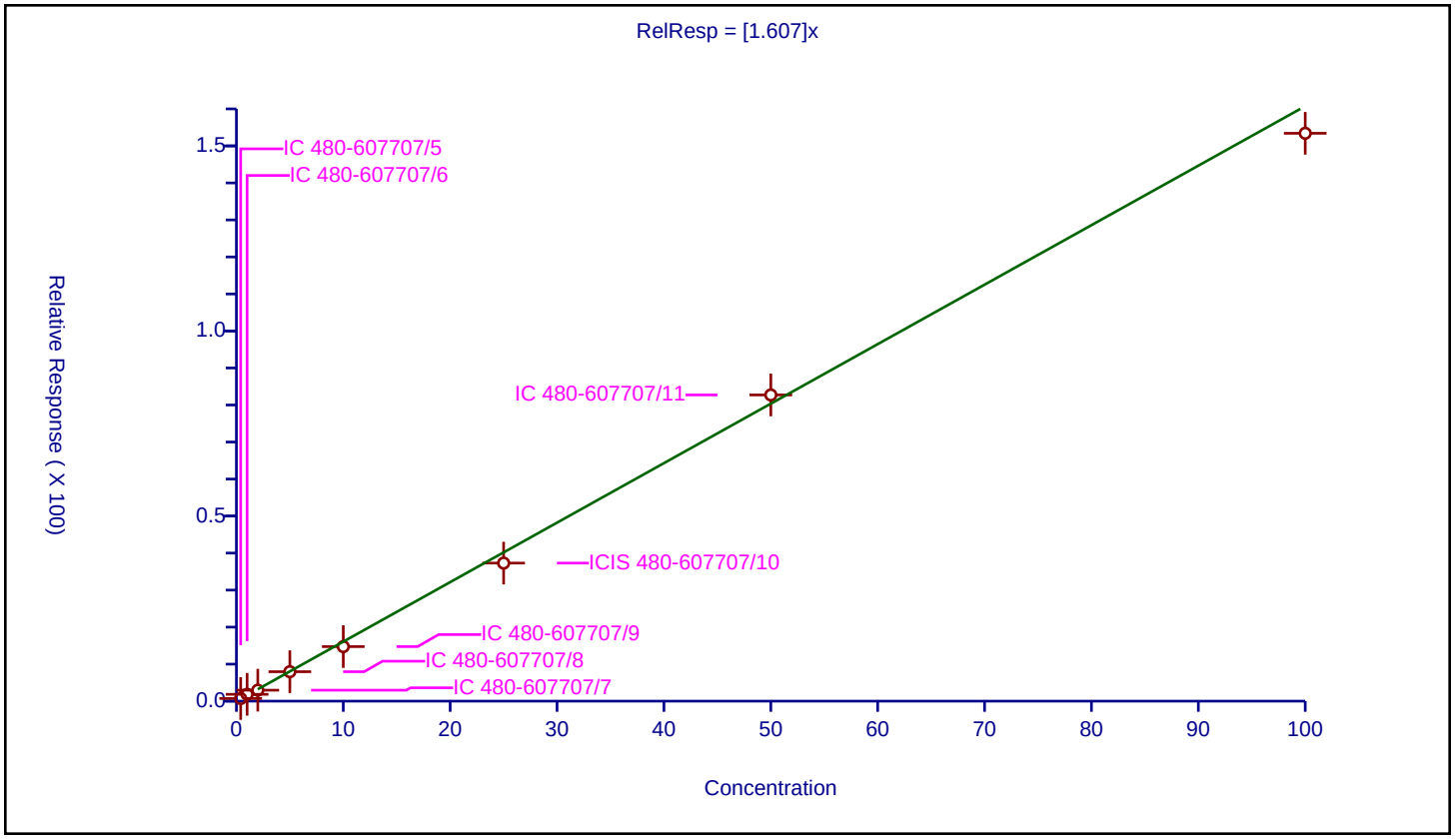
Curve Coefficients

Intercept:	0
Slope:	1.607

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	9.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.714029	25.0	353032.0	1.785072	Y
2	IC 480-607707/6	1.0	1.849182	25.0	368271.0	1.849182	Y
3	IC 480-607707/7	2.0	2.960909	25.0	389475.0	1.480454	Y
4	IC 480-607707/8	5.0	7.951841	25.0	380261.0	1.590368	Y
5	IC 480-607707/9	10.0	14.732169	25.0	352723.0	1.473217	Y
6	ICIS 480-607707/10	25.0	37.29588	25.0	408706.0	1.491835	Y
7	IC 480-607707/11	50.0	82.722783	25.0	362269.0	1.654456	Y
8	IC 480-607707/12	100.0	153.406808	25.0	410208.0	1.534068	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

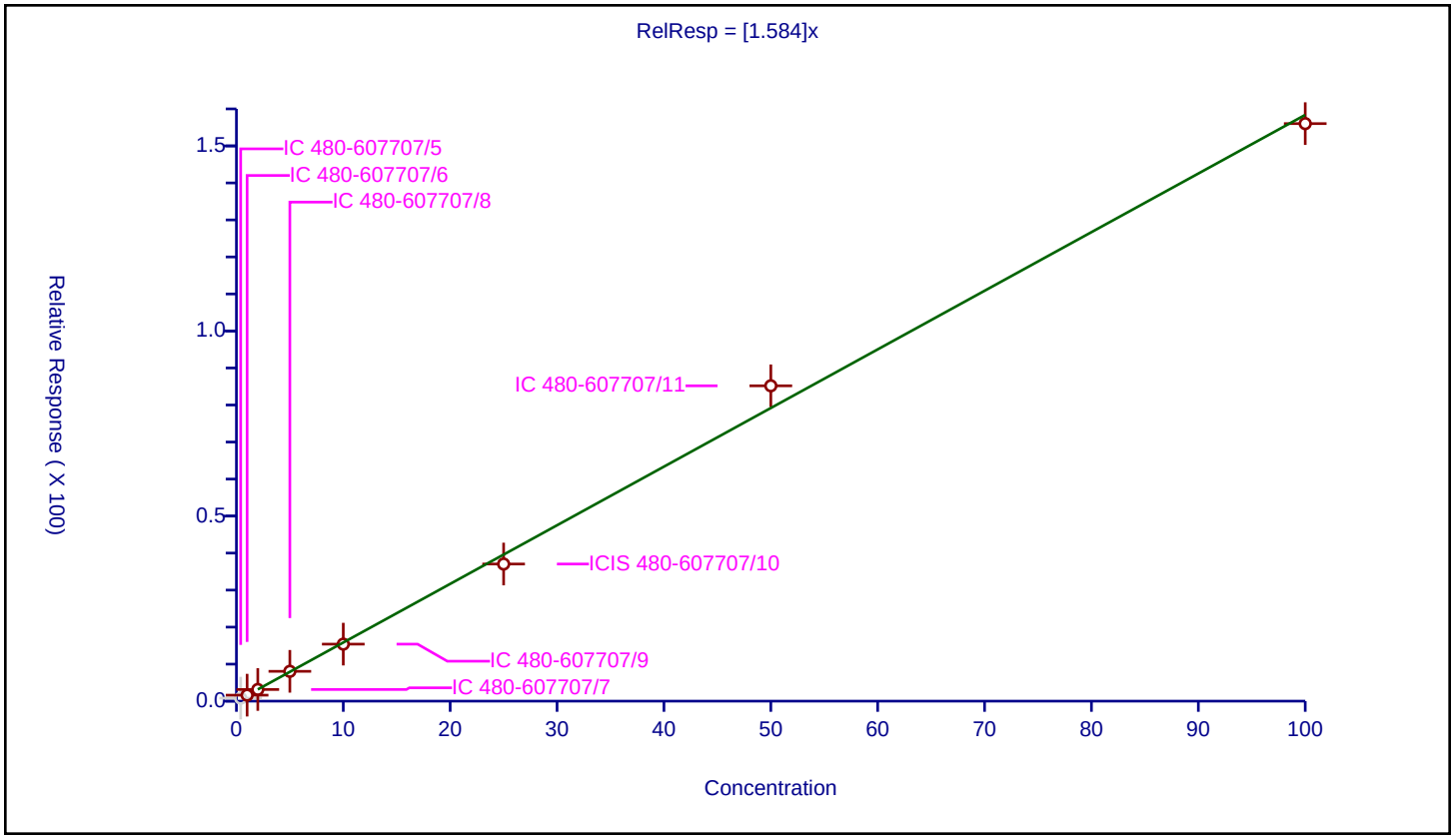
Curve Coefficients

Intercept:	0
Slope:	1.584

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.809204	25.0	353032.0	2.023011	N
2	IC 480-607707/6	1.0	1.616948	25.0	368271.0	1.616948	Y
3	IC 480-607707/7	2.0	3.145645	25.0	389475.0	1.572822	Y
4	IC 480-607707/8	5.0	8.053284	25.0	380261.0	1.610657	Y
5	IC 480-607707/9	10.0	15.400612	25.0	352723.0	1.540061	Y
6	ICIS 480-607707/10	25.0	37.044232	25.0	408706.0	1.481769	Y
7	IC 480-607707/11	50.0	85.187457	25.0	362269.0	1.703749	Y
8	IC 480-607707/12	100.0	156.023773	25.0	410208.0	1.560238	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

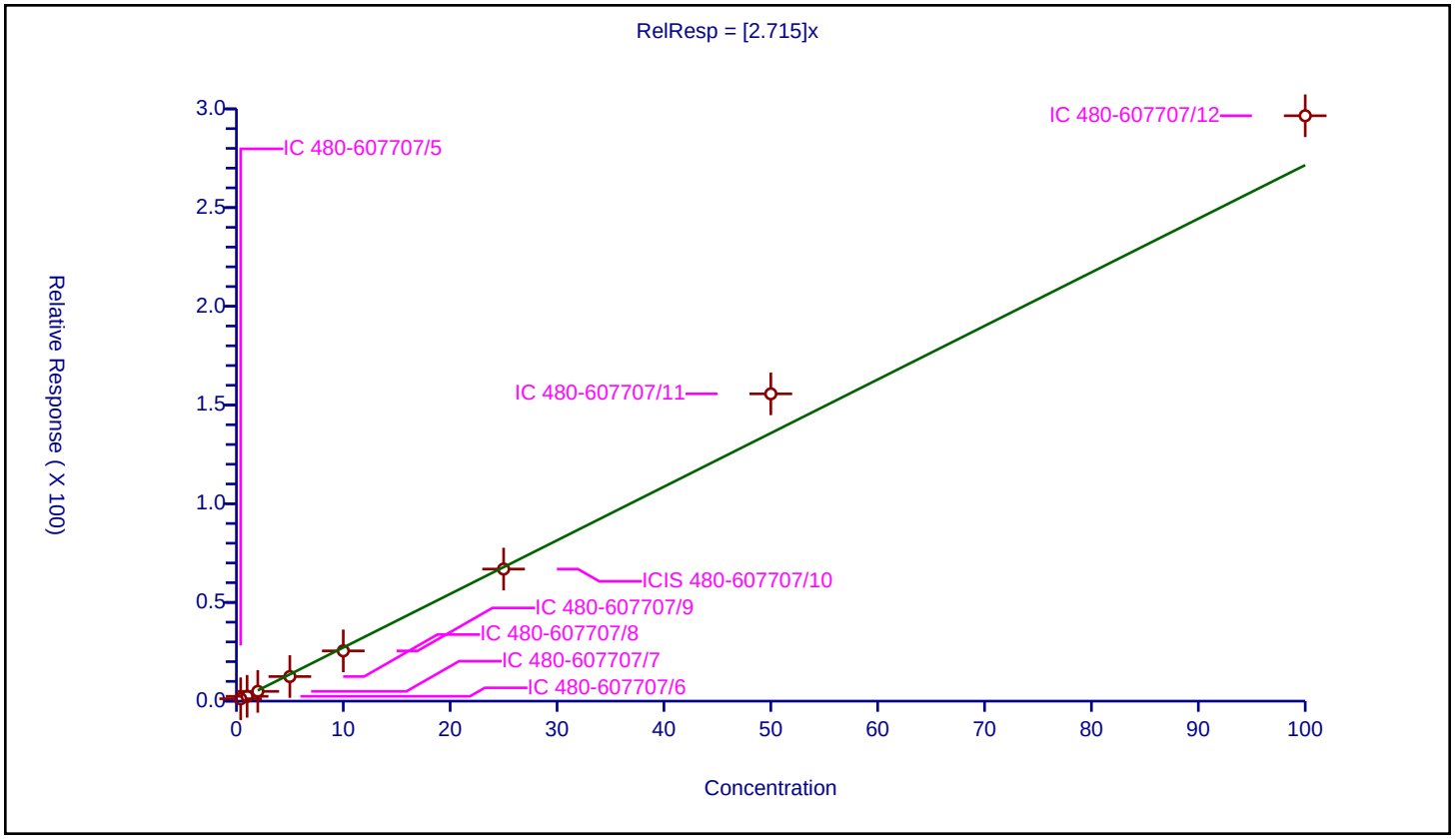
Curve Coefficients

Intercept:	0
Slope:	2.715

Error Coefficients

Standard Error:	2070000
Relative Standard Error:	10.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	1.203574	25.0	353032.0	3.008934	Y
2	IC 480-607707/6	1.0	2.451591	25.0	368271.0	2.451591	Y
3	IC 480-607707/7	2.0	4.937993	25.0	389475.0	2.468997	Y
4	IC 480-607707/8	5.0	12.453815	25.0	380261.0	2.490763	Y
5	IC 480-607707/9	10.0	25.466868	25.0	352723.0	2.546687	Y
6	ICIS 480-607707/10	25.0	66.90916	25.0	408706.0	2.676366	Y
7	IC 480-607707/11	50.0	155.676307	25.0	362269.0	3.113526	Y
8	IC 480-607707/12	100.0	296.519571	25.0	410208.0	2.965196	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

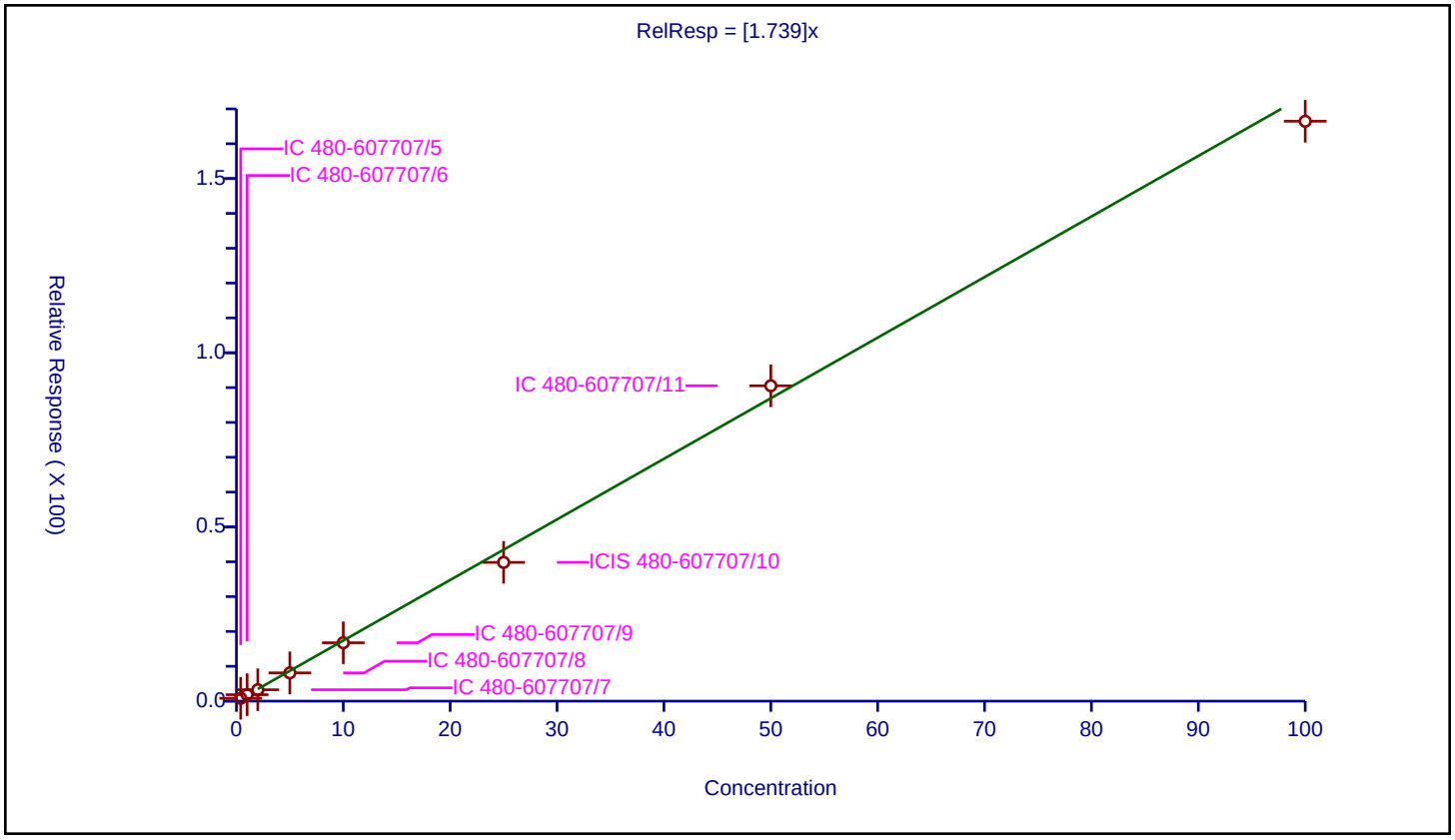
Curve Coefficients

Intercept:	0
Slope:	1.739

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.824571	25.0	353032.0	2.061428	Y
2	IC 480-607707/6	1.0	1.850879	25.0	368271.0	1.850879	Y
3	IC 480-607707/7	2.0	3.264394	25.0	389475.0	1.632197	Y
4	IC 480-607707/8	5.0	8.114624	25.0	380261.0	1.622925	Y
5	IC 480-607707/9	10.0	16.757555	25.0	352723.0	1.675755	Y
6	ICIS 480-607707/10	25.0	39.827039	25.0	408706.0	1.593082	Y
7	IC 480-607707/11	50.0	90.520097	25.0	362269.0	1.810402	Y
8	IC 480-607707/12	100.0	166.456103	25.0	410208.0	1.664561	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

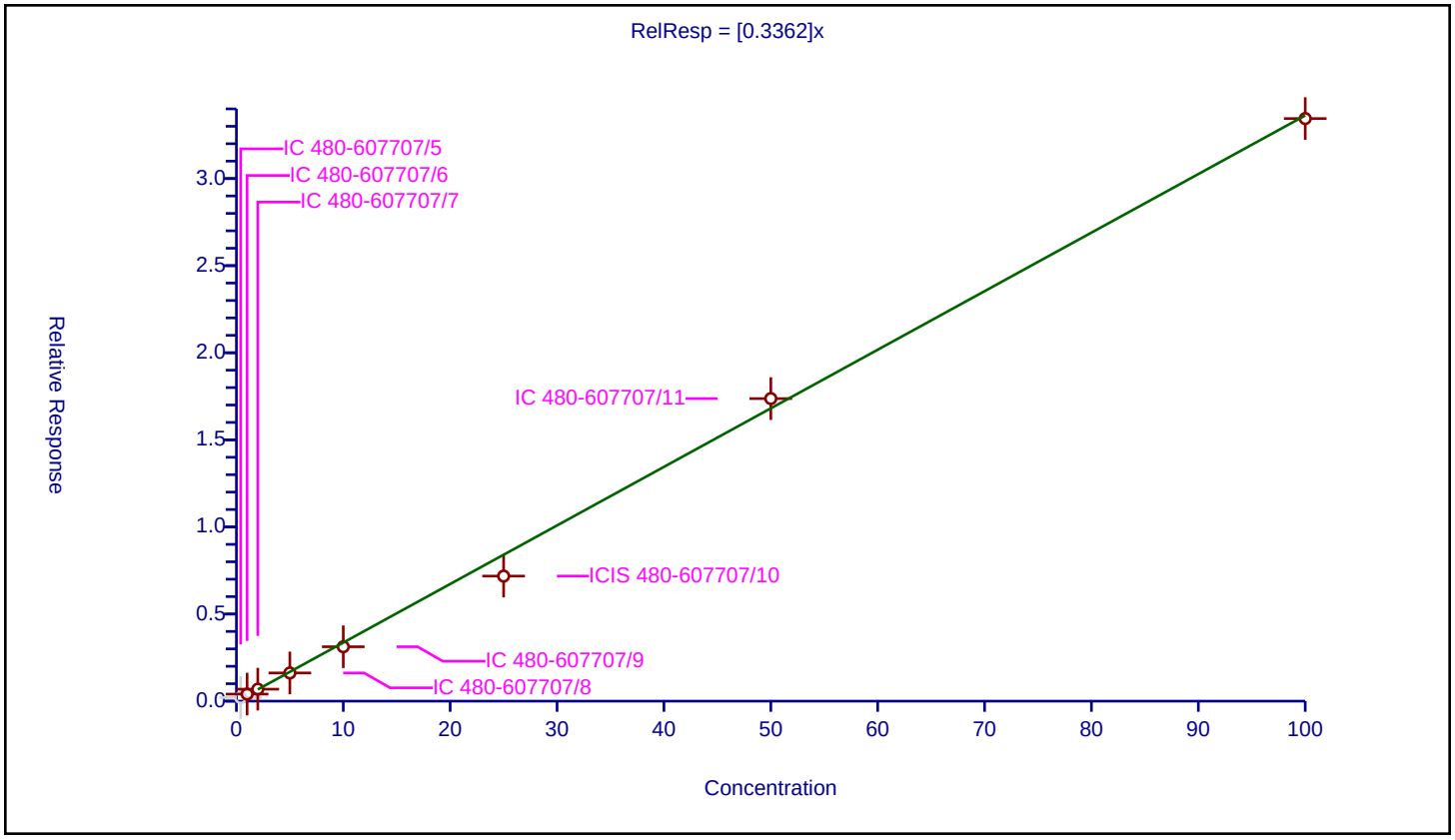
Curve Coefficients

Intercept:	0
Slope:	0.3362

Error Coefficients

Standard Error:	252000
Relative Standard Error:	10.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.204797	25.0	353032.0	0.511993	N
2	IC 480-607707/6	1.0	0.404525	25.0	368271.0	0.404525	Y
3	IC 480-607707/7	2.0	0.687785	25.0	389475.0	0.343892	Y
4	IC 480-607707/8	5.0	1.618822	25.0	380261.0	0.323764	Y
5	IC 480-607707/9	10.0	3.122776	25.0	352723.0	0.312278	Y
6	ICIS 480-607707/10	25.0	7.179244	25.0	408706.0	0.28717	Y
7	IC 480-607707/11	50.0	17.368792	25.0	362269.0	0.347376	Y
8	IC 480-607707/12	100.0	33.443399	25.0	410208.0	0.334434	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

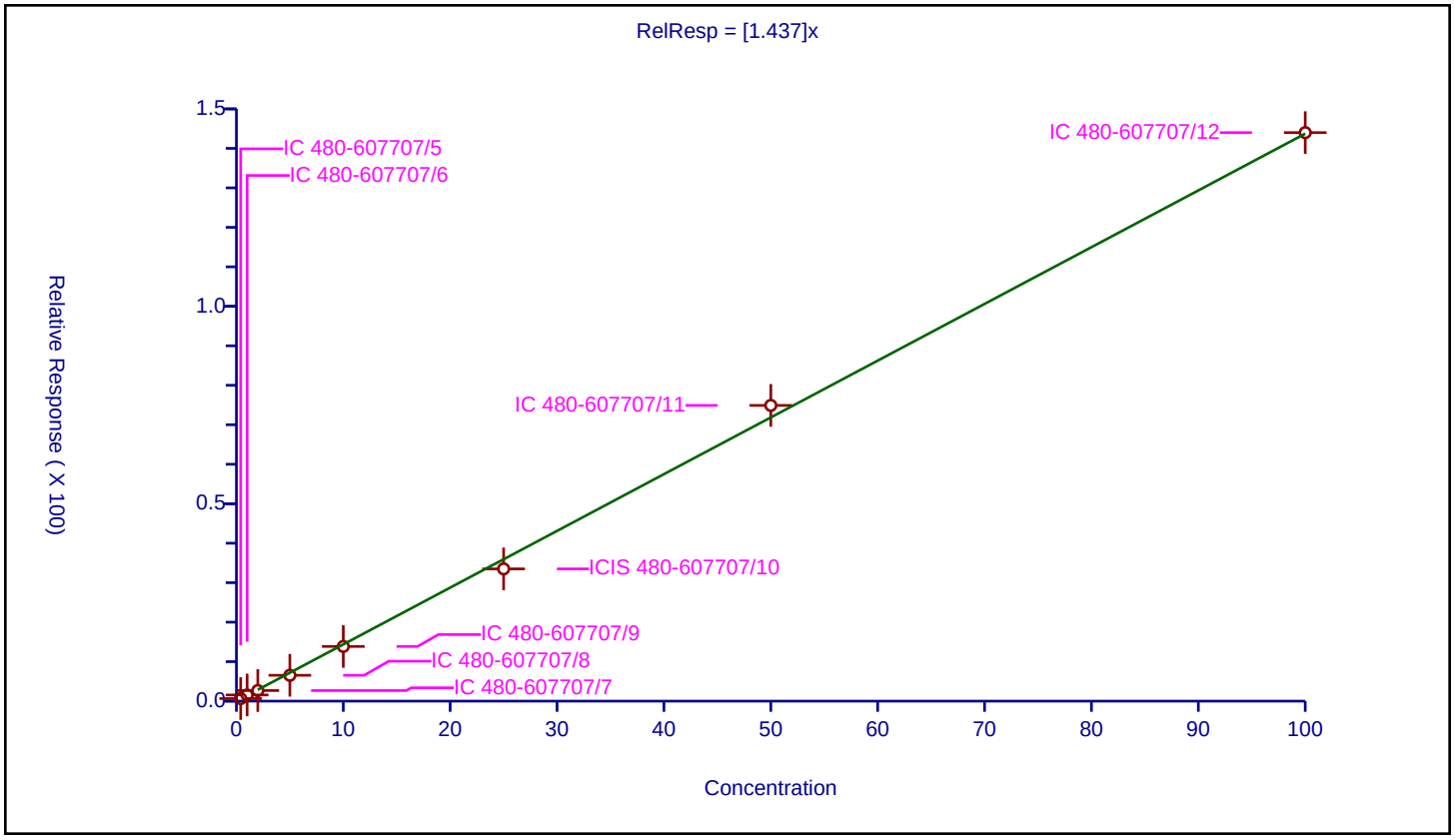
Curve Coefficients

Intercept:	0
Slope:	1.437

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	8.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.649375	25.0	353032.0	1.623436	Y
2	IC 480-607707/6	1.0	1.561893	25.0	368271.0	1.561893	Y
3	IC 480-607707/7	2.0	2.679376	25.0	389475.0	1.339688	Y
4	IC 480-607707/8	5.0	6.549383	25.0	380261.0	1.309877	Y
5	IC 480-607707/9	10.0	13.84982	25.0	352723.0	1.384982	Y
6	ICIS 480-607707/10	25.0	33.49437	25.0	408706.0	1.339775	Y
7	IC 480-607707/11	50.0	74.899867	25.0	362269.0	1.497997	Y
8	IC 480-607707/12	100.0	143.991889	25.0	410208.0	1.439919	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

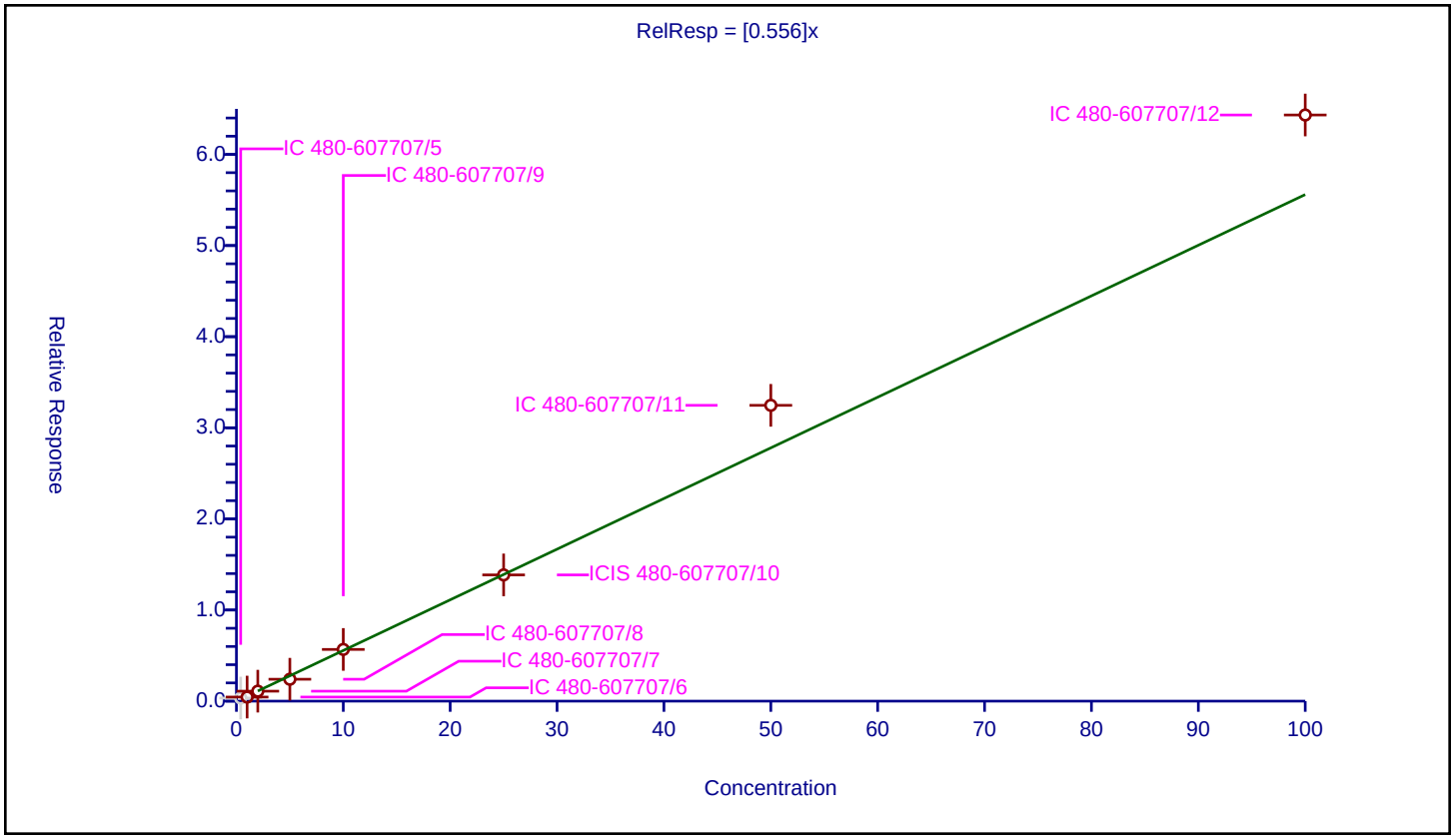
Curve Coefficients

Intercept:	0
Slope:	0.556

Error Coefficients

Standard Error:	482000
Relative Standard Error:	13.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.339275	25.0	353032.0	0.848188	N
2	IC 480-607707/6	1.0	0.448718	25.0	368271.0	0.448718	Y
3	IC 480-607707/7	2.0	1.095449	25.0	389475.0	0.547725	Y
4	IC 480-607707/8	5.0	2.404664	25.0	380261.0	0.480933	Y
5	IC 480-607707/9	10.0	5.675417	25.0	352723.0	0.567542	Y
6	ICIS 480-607707/10	25.0	13.853663	25.0	408706.0	0.554147	Y
7	IC 480-607707/11	50.0	32.465378	25.0	362269.0	0.649308	Y
8	IC 480-607707/12	100.0	64.330291	25.0	410208.0	0.643303	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

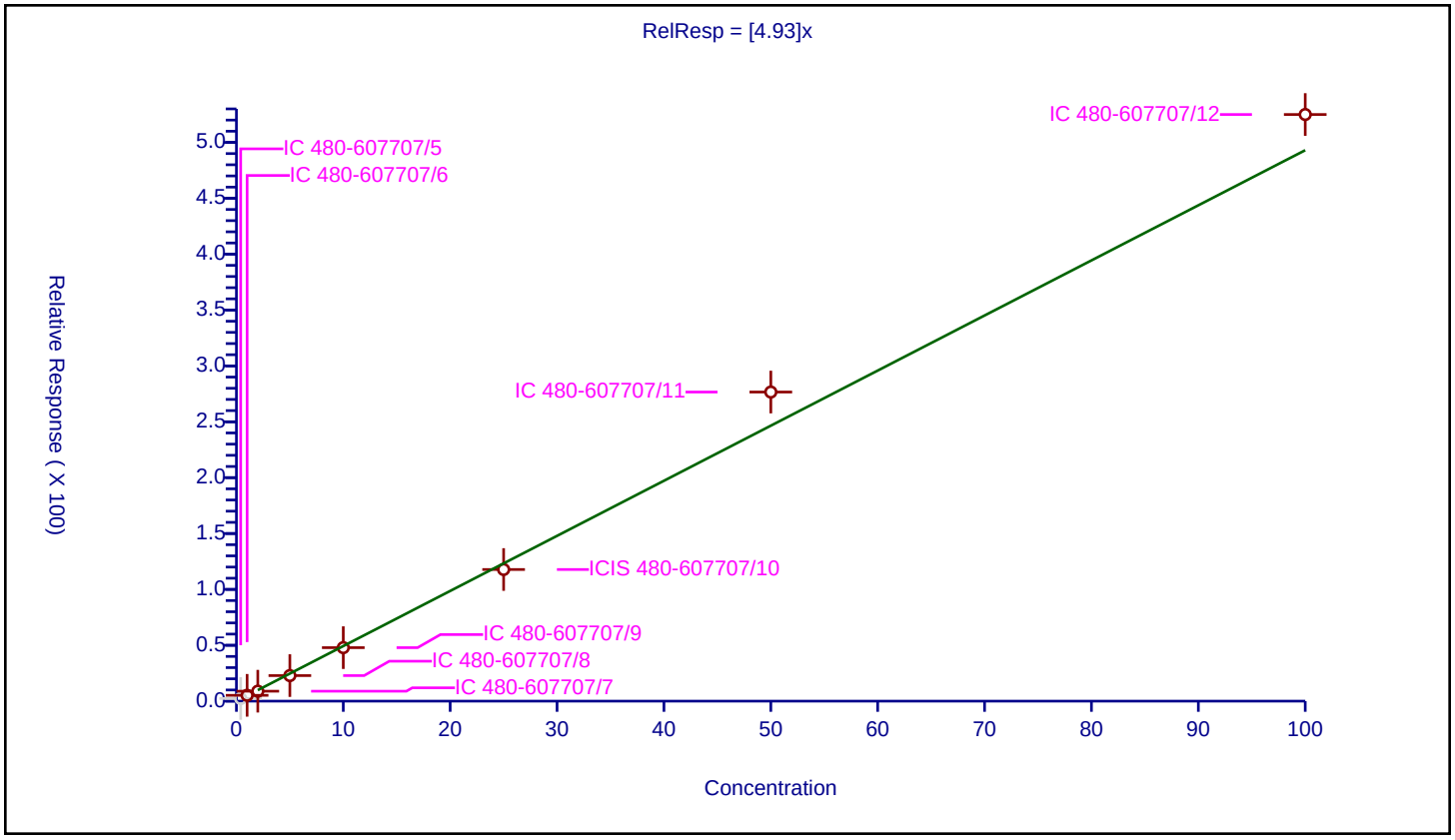
Curve Coefficients

Intercept:	0
Slope:	4.93

Error Coefficients

Standard Error:	3970000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	2.376626	25.0	353032.0	5.941565	N
2	IC 480-607707/6	1.0	5.206628	25.0	368271.0	5.206628	Y
3	IC 480-607707/7	2.0	8.896527	25.0	389475.0	4.448264	Y
4	IC 480-607707/8	5.0	22.876984	25.0	380261.0	4.575397	Y
5	IC 480-607707/9	10.0	47.868299	25.0	352723.0	4.78683	Y
6	ICIS 480-607707/10	25.0	117.800081	25.0	408706.0	4.712003	Y
7	IC 480-607707/11	50.0	276.609232	25.0	362269.0	5.532185	Y
8	IC 480-607707/12	100.0	524.962336	25.0	410208.0	5.249623	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

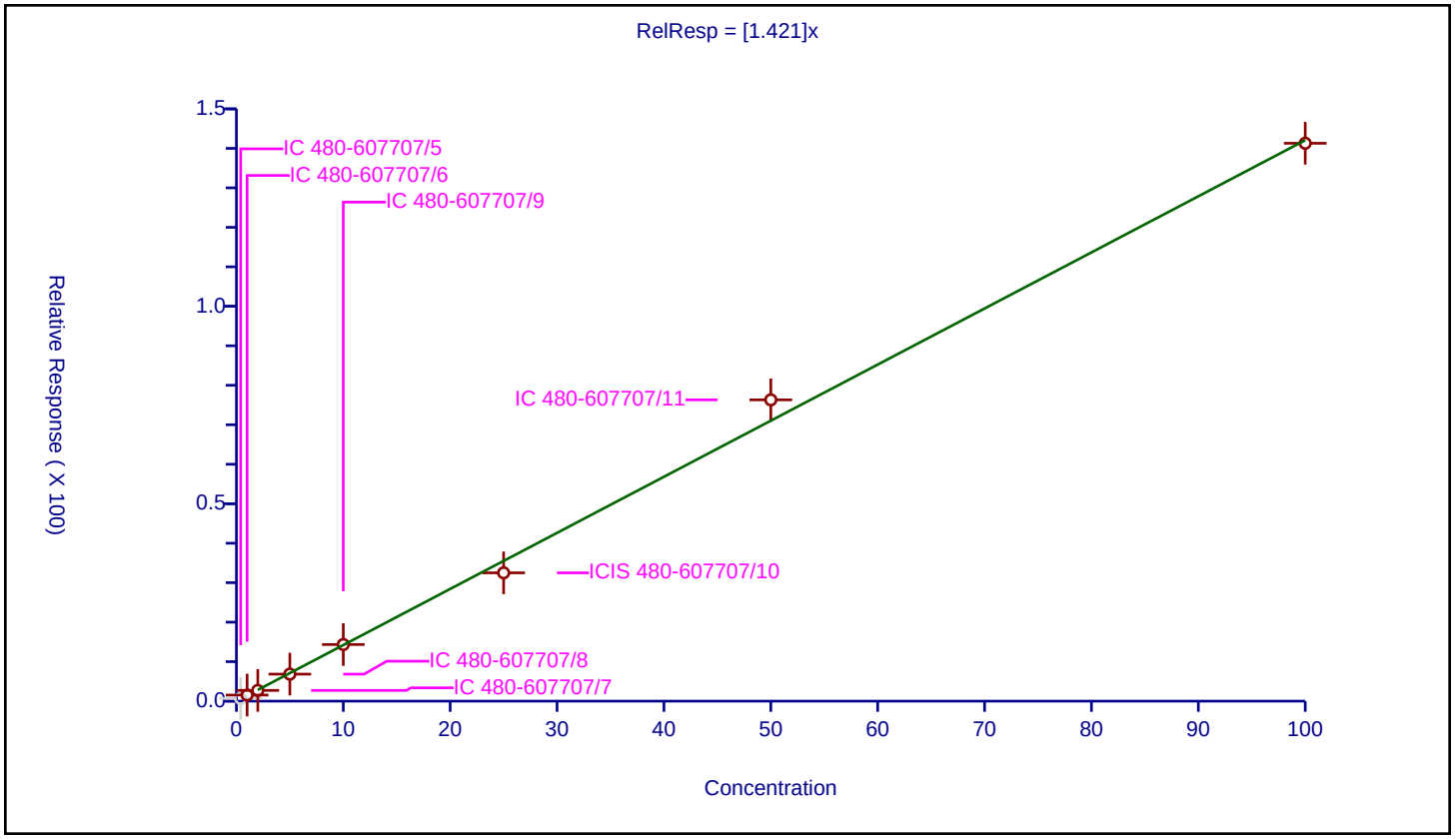
Curve Coefficients

Intercept:	0
Slope:	1.421

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-607707/5	0.4	0.689173	25.0	353032.0	1.722932	N
2	IC 480-607707/6	1.0	1.544175	25.0	368271.0	1.544175	Y
3	IC 480-607707/7	2.0	2.716477	25.0	389475.0	1.358239	Y
4	IC 480-607707/8	5.0	6.844838	25.0	380261.0	1.368968	Y
5	IC 480-607707/9	10.0	14.340857	25.0	352723.0	1.434086	Y
6	ICIS 480-607707/10	25.0	32.496587	25.0	408706.0	1.299863	Y
7	IC 480-607707/11	50.0	76.308696	25.0	362269.0	1.526174	Y
8	IC 480-607707/12	100.0	141.294234	25.0	410208.0	1.412942	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab Sample ID: ICV 480-607707/26 Calibration Date: 12/06/2021 23:12

Instrument ID: HP5973C Calib Start Date: 12/06/2021 15:09

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 12/06/2021 17:50

Lab File ID: C1036.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		2.543	0.1000	35.3	25.0	41.2	50.0
Chloromethane	Ave	2.061	2.244	0.1000	27.2	25.0	8.9	30.0
Vinyl chloride	Ave	1.864	2.068	0.1000	27.7	25.0	10.9	30.0
Butadiene	Ave	1.665	1.800		27.0	25.0	8.1	30.0
Bromomethane	Lin1		1.364	0.1000	26.8	25.0	7.1	50.0
Chloroethane	Lin1		1.200	0.1000	27.3	25.0	9.4	50.0
Dichlorofluoromethane	Ave	3.221	3.023		23.5	25.0	-6.2	30.0
Trichlorofluoromethane	Ave	2.499	3.131	0.1000	31.3	25.0	25.3	30.0
Ethyl ether	Ave	1.501	1.481		24.7	25.0	-1.3	30.0
Acrolein	Ave	0.3174	0.3359		132	125	5.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.426	1.745	0.1000	30.6	25.0	22.4	30.0
1,1-Dichloroethene	Ave	1.559	1.711	0.1000	27.4	25.0	9.7	30.0
Acetone	Ave	1.087	0.9706	0.1000	112	125	-10.7	50.0
Iodomethane	Ave	3.533	3.479		24.6	25.0	-1.5	30.0
Carbon disulfide	Ave	5.633	5.791	0.1000	25.7	25.0	2.8	30.0
Allyl chloride	Ave	2.892	2.791		24.1	25.0	-3.5	30.0
Methyl acetate	Ave	2.061	2.040	0.1000	49.5	50.0	-1.0	50.0
Methylene Chloride	Lin1		2.010	0.1000	26.5	25.0	5.9	30.0
2-Methyl-2-propanol	Ave	0.5717	0.4867		213	250	-14.9	50.0
trans-1,2-Dichloroethene	Ave	1.923	1.996	0.1000	25.9	25.0	3.8	30.0
Methyl tert-butyl ether	Ave	6.002	5.771	0.1000	24.0	25.0	-3.8	30.0
Acrylonitrile	Ave	1.167	1.110		238	250	-4.9	30.0
Hexane	Lin1		1.847		26.6	25.0	6.6	30.0
1,1-Dichloroethane	Ave	3.125	3.186	0.2000	25.5	25.0	2.0	30.0
Vinyl acetate	Ave	3.101	3.044		49.1	50.0	-1.8	30.0
2,2-Dichloropropane	Ave	2.659	2.439		22.9	25.0	-8.3	30.0
cis-1,2-Dichloroethene	Ave	2.144	2.082	0.1000	24.3	25.0	-2.9	30.0
2-Butanone (MEK)	Ave	1.022	0.9858	0.1000	121	125	-3.5	30.0
Chlorobromomethane	Ave	1.201	1.204		25.1	25.0	0.2	30.0
Tetrahydrofuran	Ave	0.7866	0.7387		47.0	50.0	-6.1	30.0
Chloroform	Ave	3.244	3.219	0.2000	24.8	25.0	-0.8	30.0
1,1,1-Trichloroethane	Ave	2.756	2.907	0.1000	26.4	25.0	5.5	30.0
Cyclohexane	Ave	2.402	3.028	0.1000	31.5	25.0	26.1	30.0
Carbon tetrachloride	Ave	2.271	2.565	0.1000	28.2	25.0	12.9	30.0
1,1-Dichloropropene	Ave	1.764	1.885		26.7	25.0	6.8	30.0
Benzene	Ave	5.571	5.540	0.5000	24.9	25.0	-0.6	30.0
Isobutyl alcohol	Ave	0.1684	0.1425		529	625	-15.4	50.0
1,2-Dichloroethane	Ave	2.339	2.237	0.1000	23.9	25.0	-4.4	30.0
n-Heptane	Lin1		1.978		27.0	25.0	8.0	30.0
Trichloroethene	Ave	1.422	1.476	0.2000	26.0	25.0	3.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab Sample ID: ICV 480-607707/26 Calibration Date: 12/06/2021 23:12

Instrument ID: HP5973C Calib Start Date: 12/06/2021 15:09

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 12/06/2021 17:50

Lab File ID: C1036.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Lin1		2.881	0.1000	27.1	25.0	8.3	30.0
1,2-Dichloropropane	Ave	1.267	1.219	0.1000	24.0	25.0	-3.8	30.0
Dibromomethane	Ave	1.098	1.068	0.1000	24.3	25.0	-2.7	30.0
1,4-Dioxane	Ave	0.0176	0.0163		465	500	-7.1	50.0
Bromodichloromethane	Ave	1.804	1.778	0.2000	24.6	25.0	-1.4	30.0
2-Chloroethyl vinyl ether	Ave	0.6748	0.6598		24.4	25.0	-2.2	30.0
cis-1,3-Dichloropropene	Ave	1.684	1.706	0.2000	25.3	25.0	1.3	30.0
4-Methyl-2-pentanone (MIBK)	Ave	1.281	1.242	0.1000	121	125	-3.1	30.0
Toluene	Ave	1.609	1.557	0.4000	24.2	25.0	-3.3	30.0
trans-1,3-Dichloropropene	Ave	0.8065	0.8006	0.1000	24.8	25.0	-0.7	30.0
Ethyl methacrylate	Ave	0.9025	0.8476		23.5	25.0	-6.1	30.0
1,1,2-Trichloroethane	Ave	0.5198	0.5037	0.1000	24.2	25.0	-3.1	30.0
Tetrachloroethene	Ave	0.7171	0.7329	0.2000	25.6	25.0	2.2	30.0
1,3-Dichloropropane	Ave	0.9636	0.9153		23.7	25.0	-5.0	30.0
2-Hexanone	Ave	0.7287	0.6907	0.1000	118	125	-5.2	30.0
Dibromochloromethane	Ave	0.7124	0.6726	0.1000	23.6	25.0	-5.6	30.0
1,2-Dibromoethane	Ave	0.6965	0.6391		22.9	25.0	-8.2	30.0
Chlorobenzene	Ave	2.045	1.910	0.5000	23.3	25.0	-6.6	30.0
Ethylbenzene	Ave	3.389	3.361	0.1000	24.8	25.0	-0.8	30.0
1,1,1,2-Tetrachloroethane	Ave	0.9665	0.9346		24.2	25.0	-3.3	30.0
m,p-Xylene	Ave	1.321	1.312	0.1000	24.8	25.0	-0.7	30.0
o-Xylene	Ave	1.469	1.484	0.3000	25.3	25.0	1.0	30.0
Styrene	Ave	2.072	2.019	0.3000	24.4	25.0	-2.6	30.0
Bromoform	Ave	0.5247	0.5098	0.1000	24.3	25.0	-2.9	50.0
Isopropylbenzene	Ave	2.933	3.009	0.1000	25.6	25.0	2.6	30.0
Bromobenzene	Ave	0.7272	0.6863		23.6	25.0	-5.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.998	0.9440	0.3000	23.6	25.0	-5.4	30.0
N-Propylbenzene	Ave	3.353	3.422		25.5	25.0	2.0	30.0
1,2,3-Trichloropropane	Ave	0.3452	0.3204		23.2	25.0	-7.2	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2187	0.2247		25.7	25.0	2.7	50.0
2-Chlorotoluene	Ave	0.7664	0.7686		25.1	25.0	0.3	30.0
1,3,5-Trimethylbenzene	Ave	2.547	2.528		24.8	25.0	-0.7	30.0
4-Chlorotoluene	Ave	0.7197	0.6962		24.2	25.0	-3.3	30.0
tert-Butylbenzene	Ave	0.4908	0.5135		26.2	25.0	4.6	30.0
1,2,4-Trimethylbenzene	Ave	2.678	2.633		24.6	25.0	-1.7	30.0
sec-Butylbenzene	Ave	3.079	3.288		26.7	25.0	6.8	30.0
4-Isopropyltoluene	Ave	2.872	2.965		25.8	25.0	3.2	30.0
1,3-Dichlorobenzene	Ave	1.607	1.475	0.6000	22.9	25.0	-8.2	30.0
1,4-Dichlorobenzene	Ave	1.584	1.477	0.5000	23.3	25.0	-6.7	30.0
n-Butylbenzene	Ave	2.715	2.752		25.3	25.0	1.4	30.0
1,2-Dichlorobenzene	Ave	1.739	1.585	0.4000	22.8	25.0	-8.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab Sample ID: ICV 480-607707/26 Calibration Date: 12/06/2021 23:12

Instrument ID: HP5973C Calib Start Date: 12/06/2021 15:09

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 12/06/2021 17:50

Lab File ID: C1036.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.3362	0.2905	0.0500	21.6	25.0	-13.6	50.0
1,2,4-Trichlorobenzene	Ave	1.437	1.330	0.2000	23.1	25.0	-7.5	30.0
Hexachlorobutadiene	Ave	0.5560	0.5877		26.4	25.0	5.7	30.0
Naphthalene	Ave	4.930	4.696		23.8	25.0	-4.7	30.0
1,2,3-Trichlorobenzene	Ave	1.421	1.338		23.5	25.0	-5.8	30.0
Dibromofluoromethane (Surr)	Ave	1.745	1.778		25.5	25.0	1.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8507	0.8642		25.4	25.0	1.6	30.0
Toluene-d8 (Surr)	Ave	2.306	2.230		24.2	25.0	-3.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7995	0.7774		24.3	25.0	-2.8	30.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1036.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-Dec-2021 23:12:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 480-0102880-026
Operator ID: wd Instrument ID: HP5973C
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Dec-2021 14:13:23 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1604

First Level Reviewer: dahnw Date: 07-Dec-2021 13:44:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	161102	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	306101	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	96	407844	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.394	4.394	0.000	92	286379	25.0	25.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	97	139224	25.0	25.4	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	93	682520	25.0	24.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	89	237965	25.0	24.3	
10 Dichlorodifluoromethane	85	1.140	1.140	0.000	99	409655	25.0	35.3	
12 Chloromethane	50	1.306	1.295	0.011	99	361550	25.0	27.2	
13 Vinyl chloride	62	1.399	1.388	0.011	98	333173	25.0	27.7	
151 Butadiene	54	1.409	1.409	0.000	95	289997	25.0	27.0	
14 Bromomethane	94	1.668	1.668	0.000	91	219808	25.0	26.8	
15 Chloroethane	64	1.762	1.751	0.011	99	193263	25.0	27.3	
17 Trichlorofluoromethane	101	1.969	1.969	0.000	83	504477	25.0	31.3	
16 Dichlorofluoromethane	67	1.969	1.969	0.000	93	486935	25.0	23.5	
18 Ethyl ether	59	2.269	2.269	0.000	93	238558	25.0	24.7	
20 Acrolein	56	2.445	2.445	0.000	99	270587	125.0	132.3	
21 112TCTFE	101	2.456	2.456	0.000	92	281083	25.0	30.6	
22 1,1-Dichloroethene	96	2.466	2.466	0.000	97	275606	25.0	27.4	
23 Acetone	43	2.601	2.601	0.000	98	781797	125.0	111.6	
25 Iodomethane	142	2.611	2.611	0.000	99	560405	25.0	24.6	
26 Carbon disulfide	76	2.642	2.642	0.000	100	932986	25.0	25.7	
28 3-Chloro-1-propene	41	2.819	2.818	0.001	87	449619	25.0	24.1	
27 Methyl acetate	43	2.870	2.870	0.000	98	657384	50.0	49.5	
30 Methylene Chloride	84	2.953	2.943	0.010	96	323775	25.0	26.5	
31 2-Methyl-2-propanol	59	3.140	3.140	0.000	98	784060	250.0	212.8	
34 trans-1,2-Dichloroethene	96	3.150	3.150	0.000	71	321538	25.0	25.9	
32 Methyl tert-butyl ether	73	3.161	3.150	0.011	99	929748	25.0	24.0	
33 Acrylonitrile	53	3.212	3.212	0.000	100	1788161	250.0	237.9	
35 Hexane	57	3.326	3.326	0.000	94	297614	25.0	26.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.523	3.523	0.000	96	513270	25.0	25.5	
37 Vinyl acetate	43	3.575	3.575	0.000	98	980706	50.0	49.1	
44 2,2-Dichloropropane	77	3.969	3.969	0.000	90	392868	25.0	22.9	
45 cis-1,2-Dichloroethene	96	4.000	4.000	0.000	79	335357	25.0	24.3	
43 2-Butanone (MEK)	43	4.041	4.041	0.000	99	794057	125.0	120.6	
48 Chlorobromomethane	128	4.197	4.197	0.000	93	193946	25.0	25.1	
49 Tetrahydrofuran	42	4.228	4.228	0.000	86	238004	50.0	47.0	
50 Chloroform	83	4.259	4.259	0.000	94	518525	25.0	24.8	
51 1,1,1-Trichloroethane	97	4.352	4.352	0.000	98	468297	25.0	26.4	
52 Cyclohexane	56	4.363	4.352	0.011	92	487793	25.0	31.5	
55 Carbon tetrachloride	117	4.466	4.466	0.000	97	413263	25.0	28.2	
54 1,1-Dichloropropene	75	4.477	4.477	0.000	91	303606	25.0	26.7	
57 Benzene	78	4.642	4.642	0.000	97	892535	25.0	24.9	
53 Isobutyl alcohol	43	4.674	4.673	0.001	93	573978	625.0	528.9	
58 1,2-Dichloroethane	62	4.705	4.705	0.001	97	360405	25.0	23.9	
59 n-Heptane	43	4.777	4.777	0.000	93	318733	25.0	27.0	
62 Trichloroethene	95	5.130	5.129	0.001	96	237852	25.0	26.0	
64 Methylcyclohexane	83	5.223	5.223	0.000	93	464085	25.0	27.1	
65 1,2-Dichloropropane	63	5.326	5.326	0.000	88	196370	25.0	24.0	
67 Dibromomethane	93	5.430	5.430	0.000	95	172068	25.0	24.3	
66 1,4-Dioxane	88	5.451	5.451	0.000	93	100039	500.0	464.5	
68 Dichlorobromomethane	83	5.554	5.554	0.000	98	286519	25.0	24.6	
69 2-Chloroethyl vinyl ether	63	5.762	5.762	0.000	95	106290	25.0	24.4	
72 cis-1,3-Dichloropropene	75	5.865	5.876	-0.011	92	274858	25.0	25.3	
73 4-Methyl-2-pentanone (MIBK)	43	5.979	5.979	0.000	99	1900483	125.0	121.1	
74 Toluene	92	6.093	6.093	0.000	97	476582	25.0	24.2	
77 trans-1,3-Dichloropropene	75	6.301	6.300	0.001	97	245060	25.0	24.8	
75 Ethyl methacrylate	69	6.332	6.332	0.000	91	259456	25.0	23.5	
79 1,1,2-Trichloroethane	83	6.446	6.446	0.000	93	154177	25.0	24.2	
81 Tetrachloroethene	166	6.497	6.497	0.000	94	224355	25.0	25.6	
82 1,3-Dichloropropane	76	6.570	6.570	0.000	93	280184	25.0	23.7	
80 2-Hexanone	43	6.622	6.622	0.000	97	1057177	125.0	118.5	
83 Chlorodibromomethane	129	6.756	6.756	0.000	91	205869	25.0	23.6	
84 Ethylene Dibromide	107	6.839	6.839	0.000	99	195629	25.0	22.9	
87 Chlorobenzene	112	7.192	7.192	0.000	95	584513	25.0	23.3	
88 Ethylbenzene	91	7.254	7.254	0.000	98	1028768	25.0	24.8	
89 1,1,1,2-Tetrachloroethane	131	7.264	7.264	0.000	93	286097	25.0	24.2	
90 m-Xylene & p-Xylene	106	7.347	7.347	0.000	96	401544	25.0	24.8	
91 o-Xylene	106	7.658	7.658	0.000	98	454131	25.0	25.3	
92 Styrene	104	7.689	7.679	0.010	95	618071	25.0	24.4	
95 Bromoform	173	7.876	7.876	0.000	94	156037	25.0	24.3	
94 Isopropylbenzene	105	7.948	7.948	0.000	96	1227209	25.0	25.6	
101 Bromobenzene	156	8.228	8.228	0.000	93	279898	25.0	23.6	
97 1,1,2,2-Tetrachloroethane	83	8.249	8.249	0.000	96	385017	25.0	23.6	
99 N-Propylbenzene	91	8.280	8.280	0.000	99	1395624	25.0	25.5	
100 1,2,3-Trichloropropane	110	8.290	8.290	0.000	89	130677	25.0	23.2	
98 trans-1,4-Dichloro-2-butene	53	8.290	8.290	0.000	74	91644	25.0	25.7	
103 2-Chlorotoluene	126	8.363	8.363	0.000	97	313472	25.0	25.1	
102 1,3,5-Trimethylbenzene	105	8.415	8.414	0.001	96	1030844	25.0	24.8	
105 4-Chlorotoluene	126	8.456	8.456	0.000	98	283943	25.0	24.2	
106 tert-Butylbenzene	134	8.674	8.684	-0.010	93	209425	25.0	26.2	
107 1,2,4-Trimethylbenzene	105	8.725	8.725	0.000	97	1073878	25.0	24.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.860	8.860	0.000	94	1341065	25.0	26.7	
110 4-Isopropyltoluene	119	8.974	8.974	0.000	97	1209116	25.0	25.8	
111 1,3-Dichlorobenzene	146	8.985	8.984	0.001	98	601728	25.0	22.9	
113 1,4-Dichlorobenzene	146	9.057	9.057	0.000	94	602378	25.0	23.3	
115 n-Butylbenzene	91	9.306	9.306	0.000	98	1122428	25.0	25.3	
116 1,2-Dichlorobenzene	146	9.368	9.368	0.000	97	646422	25.0	22.8	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.041	0.001	83	118498	25.0	21.6	
119 1,2,4-Trichlorobenzene	180	10.684	10.684	0.000	94	542434	25.0	23.1	
120 Hexachlorobutadiene	225	10.788	10.798	-0.010	96	239708	25.0	26.4	
121 Naphthalene	128	10.902	10.902	0.000	97	1915317	25.0	23.8	
122 1,2,3-Trichlorobenzene	180	11.088	11.088	0.000	96	545747	25.0	23.5	

QC Flag Legend

Processing Flags

Reagents:

SS 8260 CORP_00097	Amount Added:	12.50	Units: uL	
SS GAS CORP_00435	Amount Added:	12.50	Units: uL	
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent

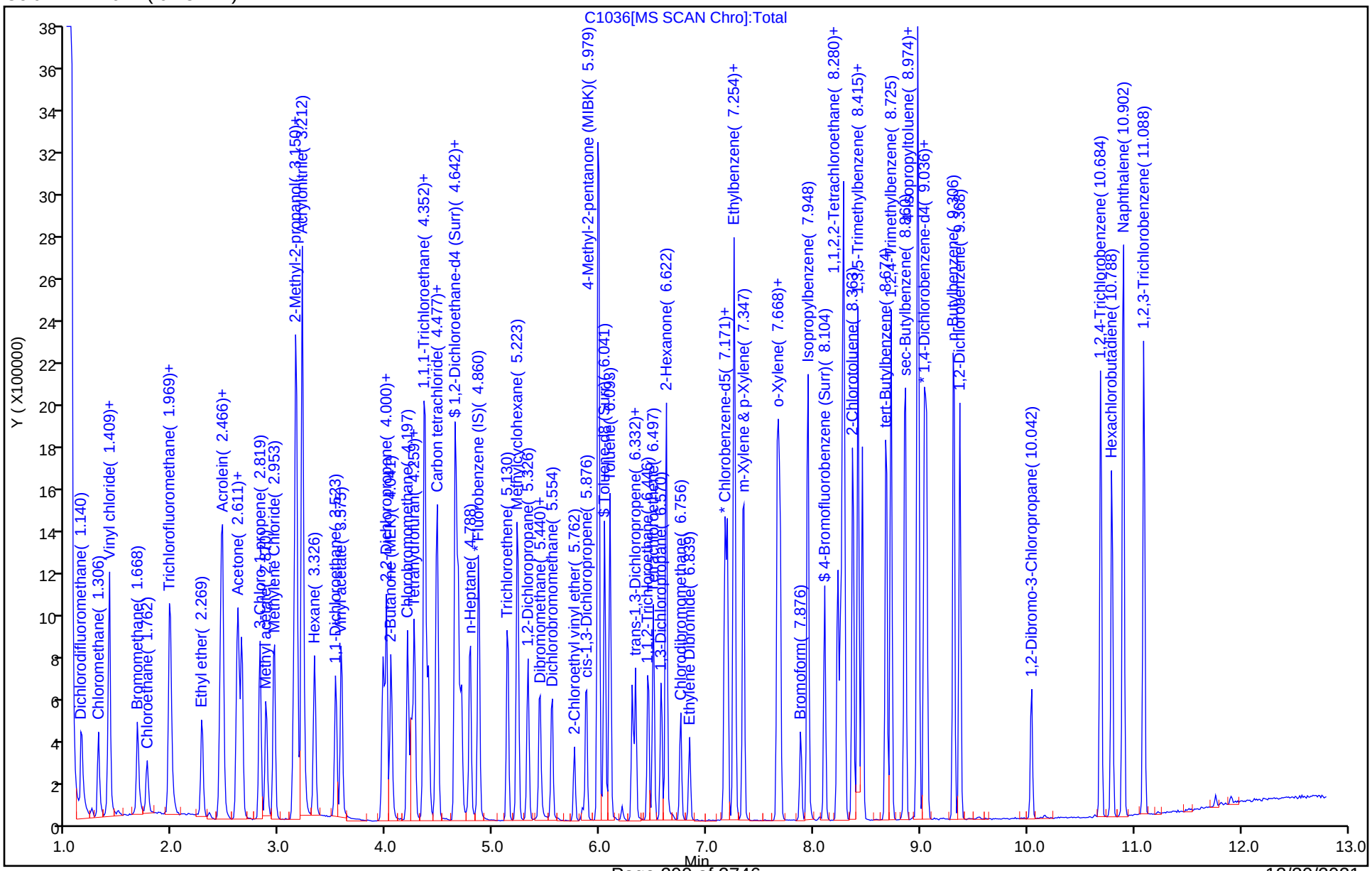
Report Date: 07-Dec-2021 14:13:35 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1036.D

Injection Date:	06-Dec-2021 23:12:30	Instrument ID:	HP5973C	Operator ID:	wd
Lims ID:	ICV			Worklist Smp#:	26
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab Sample ID: CCVIS 480-609322/3 Calibration Date: 12/17/2021 13:12

Instrument ID: HP5973C Calib Start Date: 12/06/2021 15:09

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 12/06/2021 17:50

Lab File ID: C1445.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		2.275	0.1000	31.6	25.0	26.5	50.0
Chloromethane	Ave	2.061	2.150	0.1000	26.1	25.0	4.3	20.0
Vinyl chloride	Ave	1.864	2.014	0.1000	27.0	25.0	8.0	20.0
Butadiene	Ave	1.665	1.971		29.6	25.0	18.4	20.0
Bromomethane	Lin1		1.553	0.1000	30.6	25.0	22.5	50.0
Chloroethane	Lin1		1.214	0.1000	27.7	25.0	10.7	50.0
Dichlorofluoromethane	Ave	3.221	3.156		24.5	25.0	-2.0	20.0
Trichlorofluoromethane	Ave	2.499	3.148	0.1000	31.5	25.0	25.9*	20.0
Ethyl ether	Ave	1.501	1.534		25.6	25.0	2.2	20.0
Acrolein	Ave	0.3174	0.3164		125	125	-0.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.426	1.940	0.1000	34.0	25.0	36.1*	20.0
1,1-Dichloroethene	Ave	1.559	1.790	0.1000	28.7	25.0	14.8	20.0
Acetone	Ave	1.087	0.8475	0.1000	97.4	125	-22.1	50.0
Iodomethane	Ave	3.533	3.456		24.5	25.0	-2.2	20.0
Carbon disulfide	Ave	5.633	5.963	0.1000	26.5	25.0	5.9	20.0
Allyl chloride	Ave	2.892	2.832		24.5	25.0	-2.1	20.0
Methyl acetate	Ave	2.061	1.732	0.1000	42.0	50.0	-16.0	50.0
Methylene Chloride	Lin1		2.026	0.1000	26.7	25.0	6.7	20.0
2-Methyl-2-propanol	Ave	0.5717	0.3851		168	250	-32.6	50.0
Methyl tert-butyl ether	Ave	6.002	5.562	0.1000	23.2	25.0	-7.3	20.0
trans-1,2-Dichloroethene	Ave	1.923	2.029	0.1000	26.4	25.0	5.5	20.0
Acrylonitrile	Ave	1.167	0.9656		207	250	-17.2	20.0
Hexane	Lin1		2.203		31.7	25.0	26.7*	20.0
1,1-Dichloroethane	Ave	3.125	3.198	0.2000	25.6	25.0	2.3	20.0
Vinyl acetate	Ave	3.101	3.323		53.6	50.0	7.2	20.0
2,2-Dichloropropane	Ave	2.659	2.593		24.4	25.0	-2.5	20.0
cis-1,2-Dichloroethene	Ave	2.144	2.168	0.1000	25.3	25.0	1.1	20.0
2-Butanone (MEK)	Ave	1.022	0.9159	0.1000	112	125	-10.4	20.0
Chlorobromomethane	Ave	1.201	1.212		25.2	25.0	0.9	20.0
Tetrahydrofuran	Ave	0.7866	0.6877		43.7	50.0	-12.6	20.0
Chloroform	Ave	3.244	3.368	0.2000	26.0	25.0	3.8	20.0
1,1,1-Trichloroethane	Ave	2.756	2.922	0.1000	26.5	25.0	6.0	20.0
Cyclohexane	Ave	2.402	3.120	0.1000	32.5	25.0	29.9*	20.0
Carbon tetrachloride	Ave	2.271	2.615	0.1000	28.8	25.0	15.1	20.0
1,1-Dichloropropene	Ave	1.764	2.116		30.0	25.0	19.9	20.0
Benzene	Ave	5.571	6.100	0.5000	27.4	25.0	9.5	20.0
Isobutyl alcohol	Ave	0.1684	0.1200		445	625	-28.7	50.0
1,2-Dichloroethane	Ave	2.339	2.407	0.1000	25.7	25.0	2.9	20.0
n-Heptane	Lin1		2.199		29.9	25.0	19.8	20.0
Trichloroethene	Ave	1.422	1.688	0.2000	29.7	25.0	18.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab Sample ID: CCVIS 480-609322/3 Calibration Date: 12/17/2021 13:12

Instrument ID: HP5973C Calib Start Date: 12/06/2021 15:09

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 12/06/2021 17:50

Lab File ID: C1445.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Lin1		3.144	0.1000	29.5	25.0	18.0	20.0
1,2-Dichloropropane	Ave	1.267	1.347	0.1000	26.6	25.0	6.3	20.0
Dibromomethane	Ave	1.098	1.128	0.1000	25.7	25.0	2.8	20.0
1,4-Dioxane	Ave	0.0176	0.0122		347	500	-30.6	50.0
Bromodichloromethane	Ave	1.804	1.958	0.2000	27.1	25.0	8.5	20.0
2-Chloroethyl vinyl ether	Ave	0.6748	0.7302		27.1	25.0	8.2	20.0
cis-1,3-Dichloropropene	Ave	1.684	2.008	0.2000	29.8	25.0	19.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.281	1.068	0.1000	104	125	-16.6	20.0
Toluene	Ave	1.609	1.765	0.4000	27.4	25.0	9.6	20.0
trans-1,3-Dichloropropene	Ave	0.8065	0.8631	0.1000	26.8	25.0	7.0	20.0
Ethyl methacrylate	Ave	0.9025	0.8086		22.4	25.0	-10.4	20.0
1,1,2-Trichloroethane	Ave	0.5198	0.5252	0.1000	25.3	25.0	1.0	20.0
Tetrachloroethene	Ave	0.7171	0.8520	0.2000	29.7	25.0	18.8	20.0
1,3-Dichloropropane	Ave	0.9636	1.020		26.5	25.0	5.9	20.0
2-Hexanone	Ave	0.7287	0.5814	0.1000	99.7	125	-20.2*	20.0
Dibromochloromethane	Ave	0.7124	0.7531	0.1000	26.4	25.0	5.7	20.0
1,2-Dibromoethane	Ave	0.6965	0.7348		26.4	25.0	5.5	20.0
Chlorobenzene	Ave	2.045	2.106	0.5000	25.8	25.0	3.0	20.0
Ethylbenzene	Ave	3.389	3.462	0.1000	25.5	25.0	2.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.9665	0.9153		23.7	25.0	-5.3	20.0
m,p-Xylene	Ave	1.321	1.356	0.1000	25.7	25.0	2.7	20.0
o-Xylene	Ave	1.469	1.469	0.3000	25.0	25.0	0.0	20.0
Styrene	Ave	2.072	2.117	0.3000	25.5	25.0	2.1	20.0
Bromoform	Ave	0.5247	0.4987	0.1000	23.8	25.0	-5.0	50.0
Isopropylbenzene	Ave	2.933	3.355	0.1000	28.6	25.0	14.4	20.0
Bromobenzene	Ave	0.7272	0.7945		27.3	25.0	9.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.998	0.9729	0.3000	24.4	25.0	-2.5	20.0
N-Propylbenzene	Ave	3.353	3.807		28.4	25.0	13.5	20.0
1,2,3-Trichloropropane	Ave	0.3452	0.3228		23.4	25.0	-6.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2187	0.2404		27.5	25.0	9.9	50.0
2-Chlorotoluene	Ave	0.7664	0.8566		27.9	25.0	11.8	20.0
1,3,5-Trimethylbenzene	Ave	2.547	2.842		27.9	25.0	11.6	20.0
4-Chlorotoluene	Ave	0.7197	0.8028		27.9	25.0	11.6	20.0
tert-Butylbenzene	Ave	0.4908	0.6446		32.8	25.0	31.3*	20.0
1,2,4-Trimethylbenzene	Ave	2.678	2.960		27.6	25.0	10.5	20.0
sec-Butylbenzene	Ave	3.079	3.746		30.4	25.0	21.7*	20.0
1,3-Dichlorobenzene	Ave	1.607	1.650	0.6000	25.7	25.0	2.6	20.0
4-Isopropyltoluene	Ave	2.872	3.457		30.1	25.0	20.4*	20.0
1,4-Dichlorobenzene	Ave	1.584	1.699	0.5000	26.8	25.0	7.3	20.0
n-Butylbenzene	Ave	2.715	3.020		27.8	25.0	11.2	20.0
1,2-Dichlorobenzene	Ave	1.739	1.780	0.4000	25.6	25.0	2.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab Sample ID: CCVIS 480-609322/3 Calibration Date: 12/17/2021 13:12

Instrument ID: HP5973C Calib Start Date: 12/06/2021 15:09

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 12/06/2021 17:50

Lab File ID: C1445.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.3362	0.2280	0.0500	17.0	25.0	-32.2	50.0
1,2,4-Trichlorobenzene	Ave	1.437	1.378	0.2000	24.0	25.0	-4.1	20.0
Hexachlorobutadiene	Ave	0.5560	0.6195		27.9	25.0	11.4	20.0
Naphthalene	Ave	4.930	4.513		22.9	25.0	-8.5	20.0
1,2,3-Trichlorobenzene	Ave	1.421	1.426		25.1	25.0	0.4	20.0
Dibromofluoromethane (Surr)	Ave	1.745	1.844		26.4	25.0	5.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8507	0.9271		27.2	25.0	9.0	20.0
Toluene-d8 (Surr)	Ave	2.306	2.422		26.3	25.0	5.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7995	0.7911		24.7	25.0	-1.1	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1445.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 17-Dec-2021 13:12:30 ALS Bottle#: 8 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0103133-003
Operator ID: LH Instrument ID: HP5973C
Sublist: chrom-C-8260*sub56

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Dec-2021 14:35:44 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: HillL Date: 17-Dec-2021 14:35:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	159202	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	317307	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	95	381354	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.383	4.383	0.000	91	293537	25.0	26.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	95	147593	25.0	27.2	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	93	768445	25.0	26.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	91	251022	25.0	24.7	
10 Dichlorodifluoromethane	85	1.140	1.140	0.000	99	362164	25.0	31.6	
12 Chloromethane	50	1.295	1.295	0.000	99	342325	25.0	26.1	
13 Vinyl chloride	62	1.388	1.388	0.000	97	320580	25.0	27.0	
151 Butadiene	54	1.399	1.399	0.000	97	313736	25.0	29.6	
14 Bromomethane	94	1.668	1.668	0.000	92	247311	25.0	30.6	
15 Chloroethane	64	1.751	1.751	0.000	98	193333	25.0	27.7	
16 Dichlorofluoromethane	67	1.969	1.969	0.000	94	502370	25.0	24.5	
17 Trichlorofluoromethane	101	1.969	1.969	0.000	79	501119	25.0	31.5	
18 Ethyl ether	59	2.269	2.269	0.000	94	244236	25.0	25.6	
20 Acrolein	56	2.435	2.435	0.000	98	251839	125.0	124.6	
21 112TCTFE	101	2.456	2.456	0.000	94	308888	25.0	34.0	
22 1,1-Dichloroethene	96	2.456	2.456	0.000	98	284930	25.0	28.7	
23 Acetone	43	2.591	2.591	0.000	99	674587	125.0	97.4	
25 Iodomethane	142	2.611	2.611	0.000	100	550234	25.0	24.5	
26 Carbon disulfide	76	2.642	2.642	0.000	100	949375	25.0	26.5	
28 3-Chloro-1-propene	41	2.808	2.808	0.000	86	450841	25.0	24.5	
27 Methyl acetate	43	2.870	2.870	0.000	99	551332	50.0	42.0	
30 Methylene Chloride	84	2.943	2.943	0.000	96	322493	25.0	26.7	
31 2-Methyl-2-propanol	59	3.129	3.129	0.000	94	613116	250.0	168.4	M
32 Methyl tert-butyl ether	73	3.150	3.150	0.000	99	885524	25.0	23.2	
34 trans-1,2-Dichloroethene	96	3.150	3.150	0.000	75	322990	25.0	26.4	
33 Acrylonitrile	53	3.202	3.202	0.000	98	1537177	250.0	206.9	
35 Hexane	57	3.326	3.326	0.000	94	350705	25.0	31.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.523	3.523	0.000	97	509093	25.0	25.6	
37 Vinyl acetate	43	3.575	3.575	0.000	98	1058169	50.0	53.6	
44 2,2-Dichloropropane	77	3.969	3.969	0.000	91	412743	25.0	24.4	
45 cis-1,2-Dichloroethene	96	4.000	4.000	0.000	78	345168	25.0	25.3	
43 2-Butanone (MEK)	43	4.041	4.041	0.000	99	729083	125.0	112.0	
48 Chlorobromomethane	128	4.197	4.197	0.000	92	192995	25.0	25.2	
49 Tetrahydrofuran	42	4.228	4.228	0.000	87	218959	50.0	43.7	
50 Chloroform	83	4.259	4.259	0.000	96	536260	25.0	26.0	
51 1,1,1-Trichloroethane	97	4.352	4.352	0.000	98	465220	25.0	26.5	
52 Cyclohexane	56	4.352	4.352	0.000	93	496742	25.0	32.5	
55 Carbon tetrachloride	117	4.466	4.466	0.000	97	416234	25.0	28.8	
54 1,1-Dichloropropene	75	4.477	4.477	0.000	91	336933	25.0	30.0	
57 Benzene	78	4.642	4.642	0.000	98	971160	25.0	27.4	
53 Isobutyl alcohol	43	4.663	4.663	0.000	93	477570	625.0	445.3	a
58 1,2-Dichloroethane	62	4.694	4.694	0.000	97	383175	25.0	25.7	a
59 n-Heptane	43	4.777	4.777	0.000	92	350013	25.0	29.9	a
62 Trichloroethene	95	5.130	5.130	0.000	96	268756	25.0	29.7	
64 Methylcyclohexane	83	5.223	5.223	0.000	92	500464	25.0	29.5	
65 1,2-Dichloropropane	63	5.326	5.326	0.000	88	214478	25.0	26.6	
67 Dibromomethane	93	5.430	5.430	0.000	93	179632	25.0	25.7	
66 1,4-Dioxane	88	5.440	5.440	0.000	96	77458	500.0	347.0	
68 Dichlorobromomethane	83	5.544	5.544	0.000	98	311670	25.0	27.1	
69 2-Chloroethyl vinyl ether	63	5.762	5.762	0.000	95	116254	25.0	27.1	
72 cis-1,3-Dichloropropene	75	5.865	5.865	0.000	92	319744	25.0	29.8	
73 4-Methyl-2-pentanone (MIBK)	43	5.979	5.979	0.000	98	1694558	125.0	104.2	a
74 Toluene	92	6.093	6.093	0.000	98	559893	25.0	27.4	
77 trans-1,3-Dichloropropene	75	6.301	6.301	0.000	96	273873	25.0	26.8	
75 Ethyl methacrylate	69	6.332	6.332	0.000	91	256578	25.0	22.4	a
79 1,1,2-Trichloroethane	83	6.446	6.446	0.000	93	166650	25.0	25.3	
81 Tetrachloroethene	166	6.497	6.497	0.000	96	270346	25.0	29.7	
82 1,3-Dichloropropane	76	6.570	6.570	0.000	93	323790	25.0	26.5	
80 2-Hexanone	43	6.611	6.611	0.000	98	922444	125.0	99.7	
83 Chlorodibromomethane	129	6.756	6.756	0.000	89	238959	25.0	26.4	
84 Ethylene Dibromide	107	6.839	6.839	0.000	97	233159	25.0	26.4	
87 Chlorobenzene	112	7.192	7.192	0.000	96	668402	25.0	25.8	
88 Ethylbenzene	91	7.254	7.254	0.000	98	1098519	25.0	25.5	
89 1,1,1,2-Tetrachloroethane	131	7.264	7.264	0.000	93	290434	25.0	23.7	
90 m-Xylene & p-Xylene	106	7.337	7.337	0.000	96	430270	25.0	25.7	
91 o-Xylene	106	7.658	7.658	0.000	98	466188	25.0	25.0	
92 Styrene	104	7.679	7.679	0.000	95	671625	25.0	25.5	
95 Bromoform	173	7.876	7.876	0.000	95	158252	25.0	23.8	
94 Isopropylbenzene	105	7.948	7.948	0.000	96	1279273	25.0	28.6	
101 Bromobenzene	156	8.228	8.228	0.000	92	302974	25.0	27.3	
97 1,1,2,2-Tetrachloroethane	83	8.249	8.249	0.000	95	371006	25.0	24.4	
99 N-Propylbenzene	91	8.270	8.270	0.000	99	1451830	25.0	28.4	
100 1,2,3-Trichloropropane	110	8.280	8.280	0.000	90	123098	25.0	23.4	
98 trans-1,4-Dichloro-2-butene	53	8.290	8.290	0.000	73	91695	25.0	27.5	
103 2-Chlorotoluene	126	8.363	8.363	0.000	98	326668	25.0	27.9	
102 1,3,5-Trimethylbenzene	105	8.415	8.415	0.000	95	1083832	25.0	27.9	
105 4-Chlorotoluene	126	8.456	8.456	0.000	97	306149	25.0	27.9	
106 tert-Butylbenzene	134	8.674	8.674	0.000	92	245830	25.0	32.8	
107 1,2,4-Trimethylbenzene	105	8.725	8.725	0.000	96	1128916	25.0	27.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.850	8.850	0.000	94	1428600	25.0	30.4	
110 4-Isopropyltoluene	119	8.974	8.974	0.000	97	1318304	25.0	30.1	
111 1,3-Dichlorobenzene	146	8.974	8.974	0.000	99	629189	25.0	25.7	
113 1,4-Dichlorobenzene	146	9.057	9.057	0.000	95	647941	25.0	26.8	
115 n-Butylbenzene	91	9.306	9.306	0.000	98	1151503	25.0	27.8	
116 1,2-Dichlorobenzene	146	9.368	9.368	0.000	98	678936	25.0	25.6	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.042	0.000	83	86936	25.0	17.0	
119 1,2,4-Trichlorobenzene	180	10.684	10.684	0.000	95	525550	25.0	24.0	
120 Hexachlorobutadiene	225	10.788	10.788	0.000	96	236231	25.0	27.9	
121 Naphthalene	128	10.902	10.902	0.000	97	1721019	25.0	22.9	
122 1,2,3-Trichlorobenzene	180	11.088	11.088	0.000	96	543824	25.0	25.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00218	Amount Added: 12.50	Units: uL	
GAS CORP mix_00485	Amount Added: 12.50	Units: uL	
C_8260_Surr_00177	Amount Added: 2.00	Units: uL	Run Reagent
C_8260_IS_00159	Amount Added: 2.00	Units: uL	Run Reagent

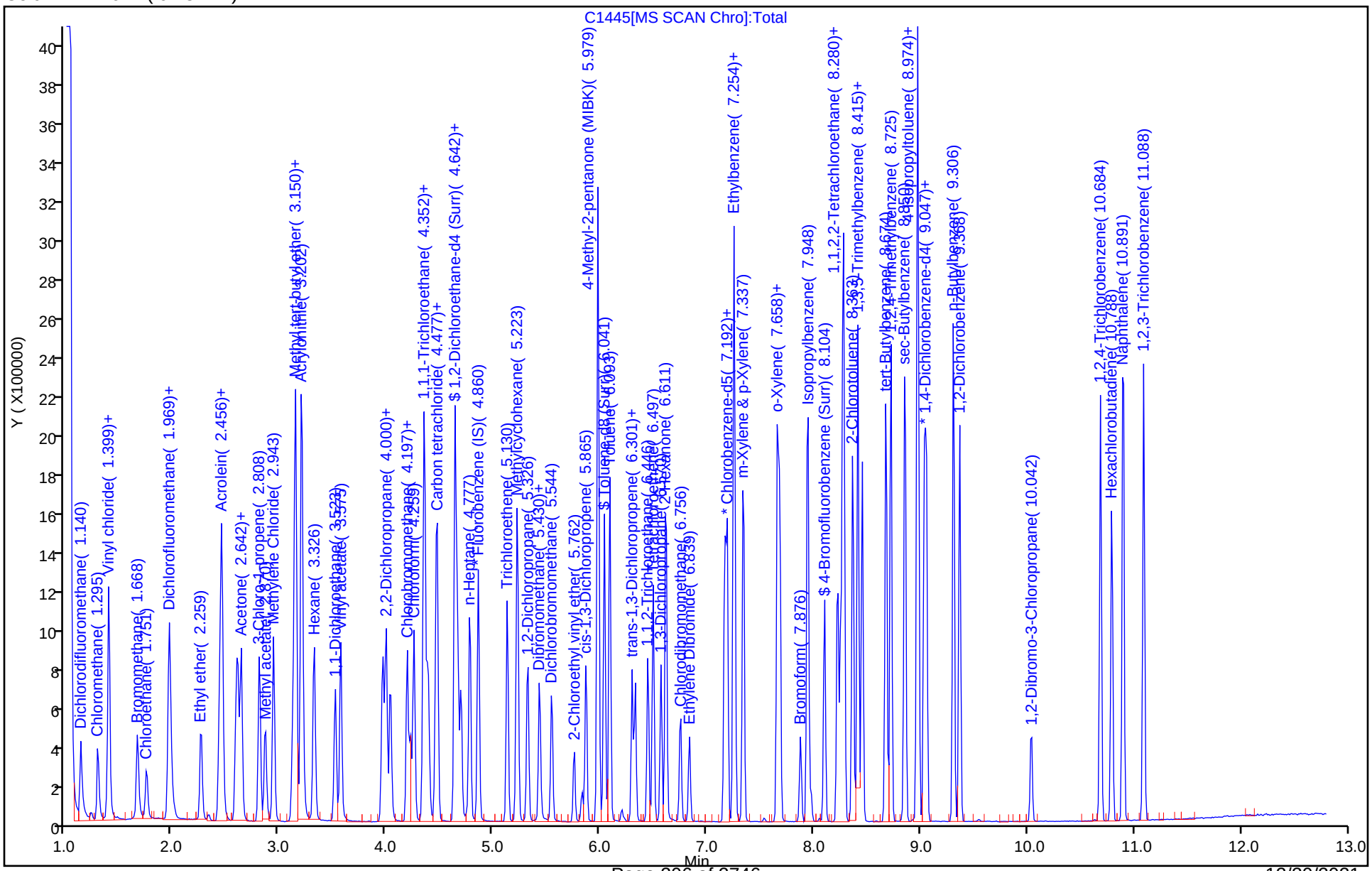
Report Date: 17-Dec-2021 14:35:45 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1445.D

Injection Date:	17-Dec-2021 13:12:30	Instrument ID:	HP5973C	Operator ID:	LH
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

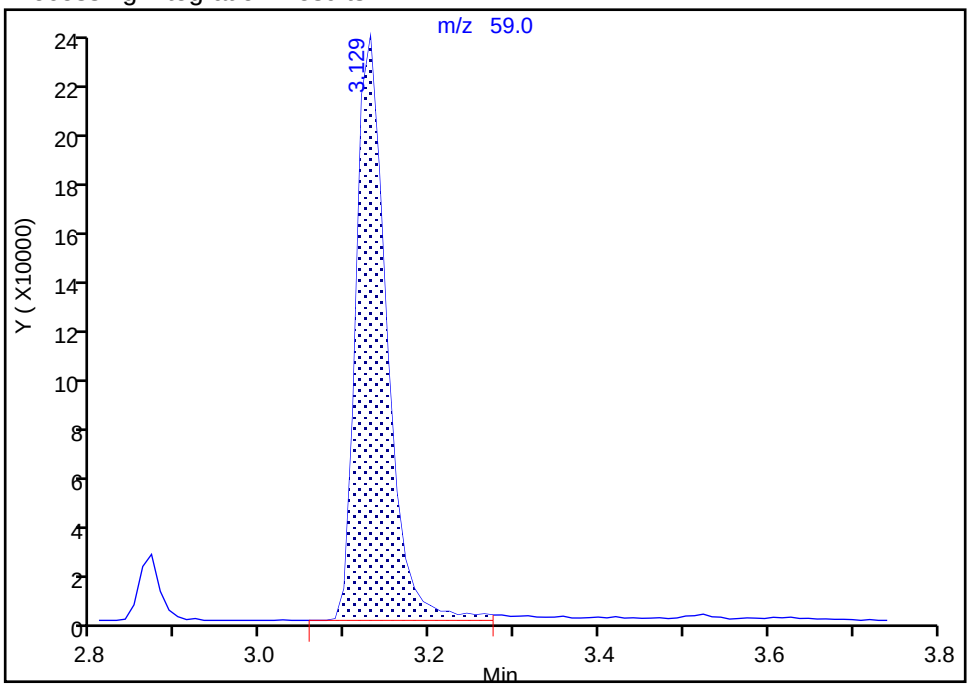
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1445.D
Injection Date: 17-Dec-2021 13:12:30 Instrument ID: HP5973C
Lims ID: CCVIS
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

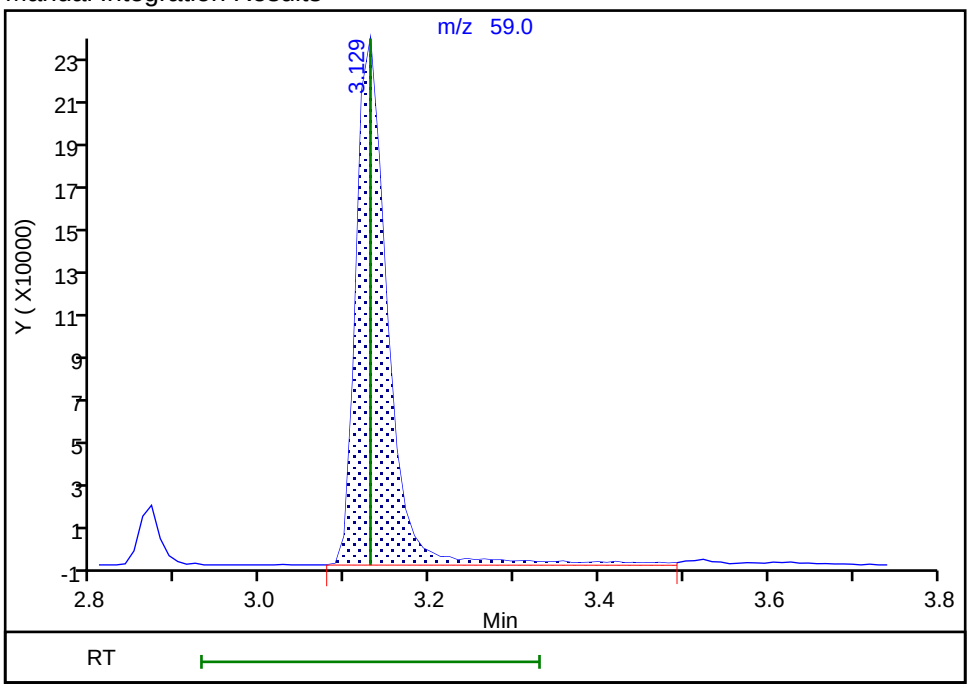
Processing Integration Results

RT: 3.13
Area: 593995
Amount: 163.1539
Amount Units: ug/L



Manual Integration Results

RT: 3.13
Area: 613116
Amount: 168.4059
Amount Units: ug/L



Reviewer: HillL, 17-Dec-2021 14:35:41
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

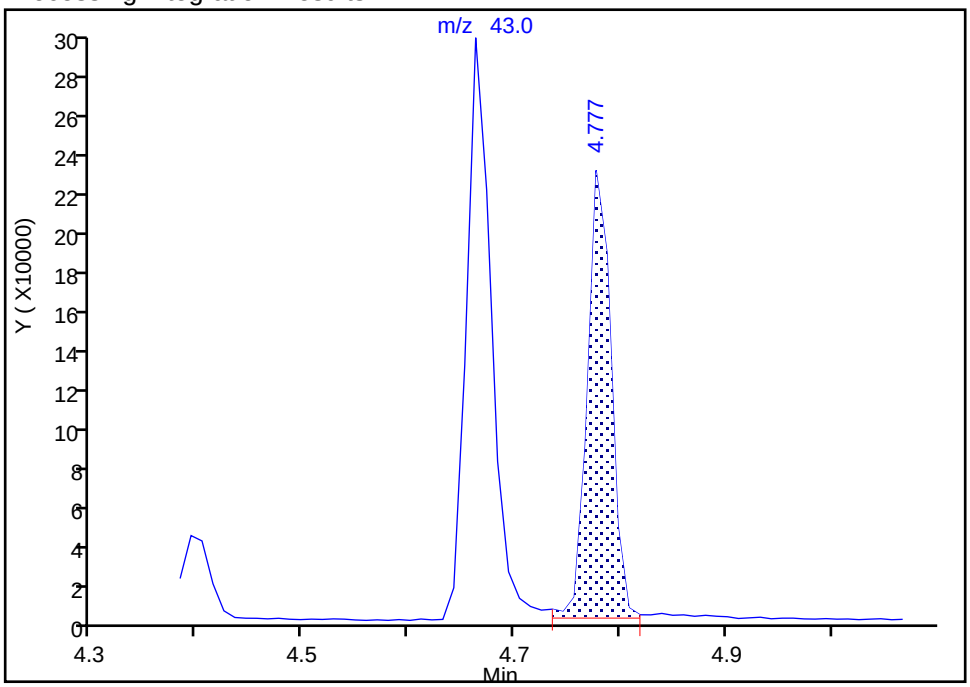
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1445.D
Injection Date: 17-Dec-2021 13:12:30 Instrument ID: HP5973C
Lims ID: CCVIS
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

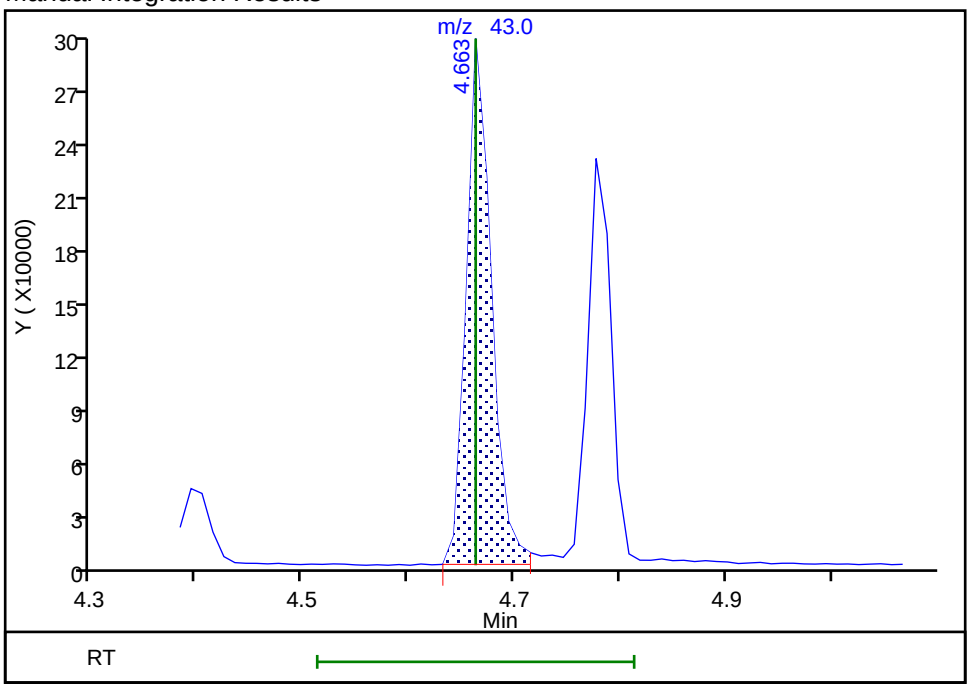
Processing Integration Results

RT: 4.78
Area: 350013
Amount: 326.3937
Amount Units: ug/L



Manual Integration Results

RT: 4.66
Area: 477570
Amount: 445.3431
Amount Units: ug/L



Reviewer: HillL, 17-Dec-2021 13:29:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

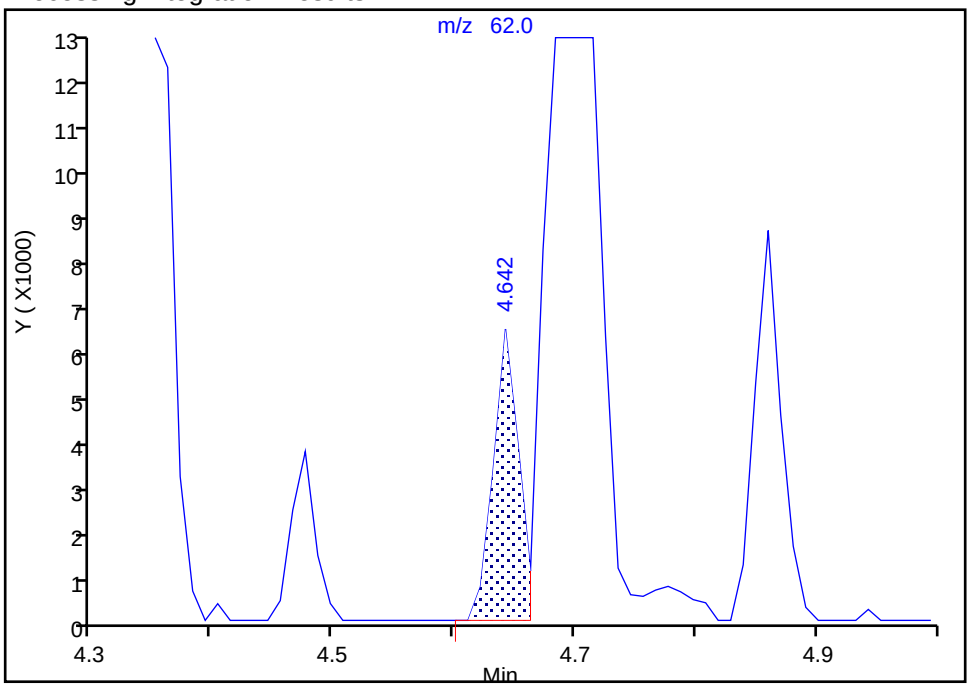
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1445.D
Injection Date: 17-Dec-2021 13:12:30 Instrument ID: HP5973C
Lims ID: CCVIS
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

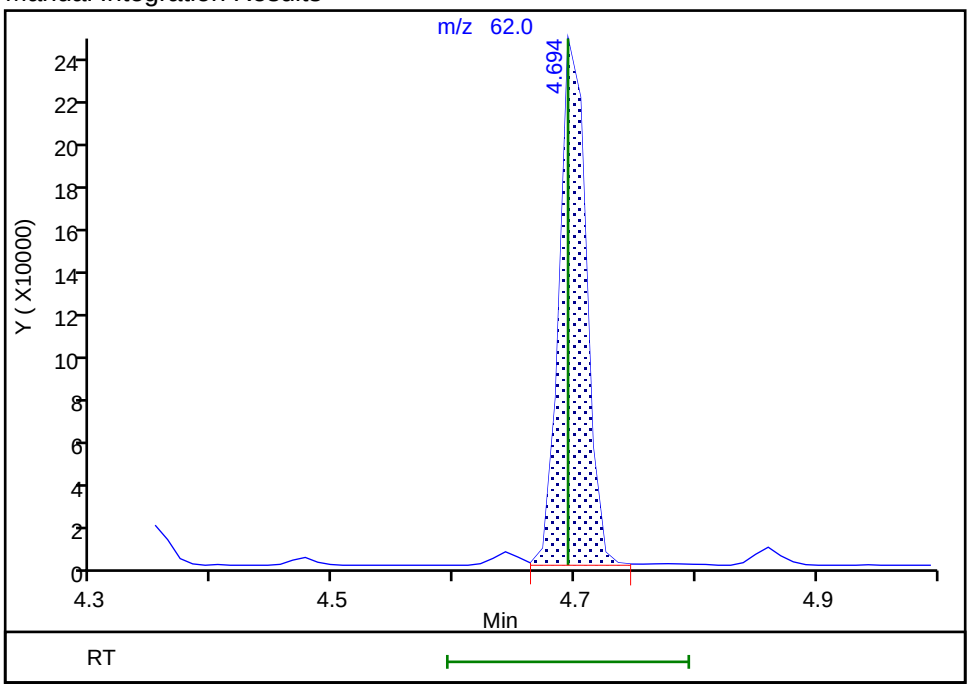
Processing Integration Results

RT: 4.64
Area: 9405
Amount: 0.631396
Amount Units: ug/L



Manual Integration Results

RT: 4.69
Area: 383175
Amount: 25.724091
Amount Units: ug/L



Reviewer: HillL, 17-Dec-2021 13:29:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

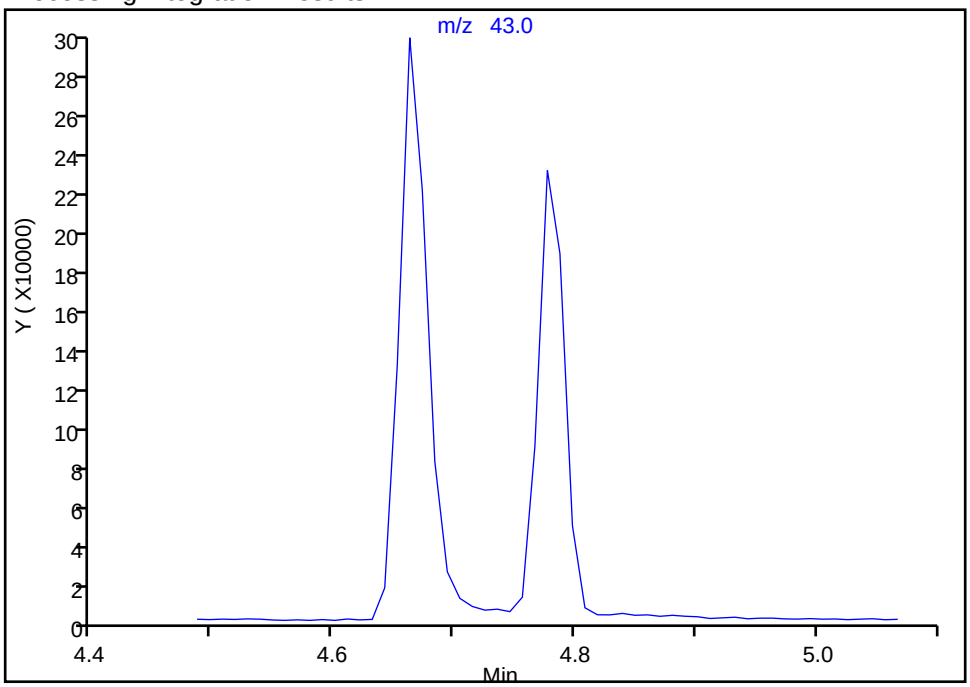
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1445.D
Injection Date: 17-Dec-2021 13:12:30 Instrument ID: HP5973C
Lims ID: CCVIS
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

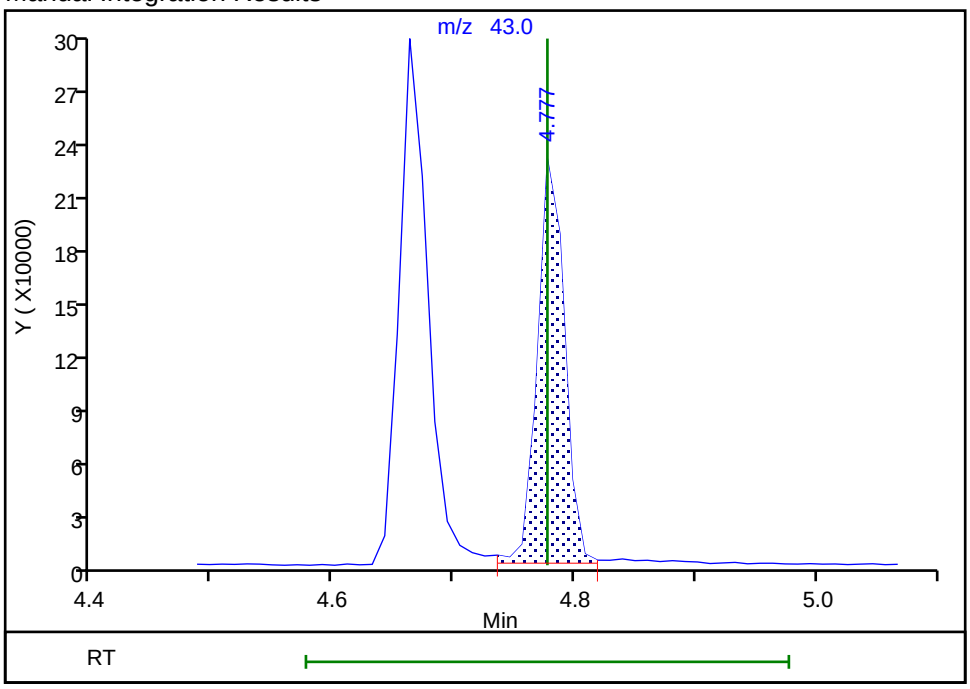
Not Detected
Expected RT: 4.78

Processing Integration Results



Manual Integration Results

RT: 4.78
Area: 350013
Amount: 29.946572
Amount Units: ug/L



Reviewer: HillL, 17-Dec-2021 13:29:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Buffalo

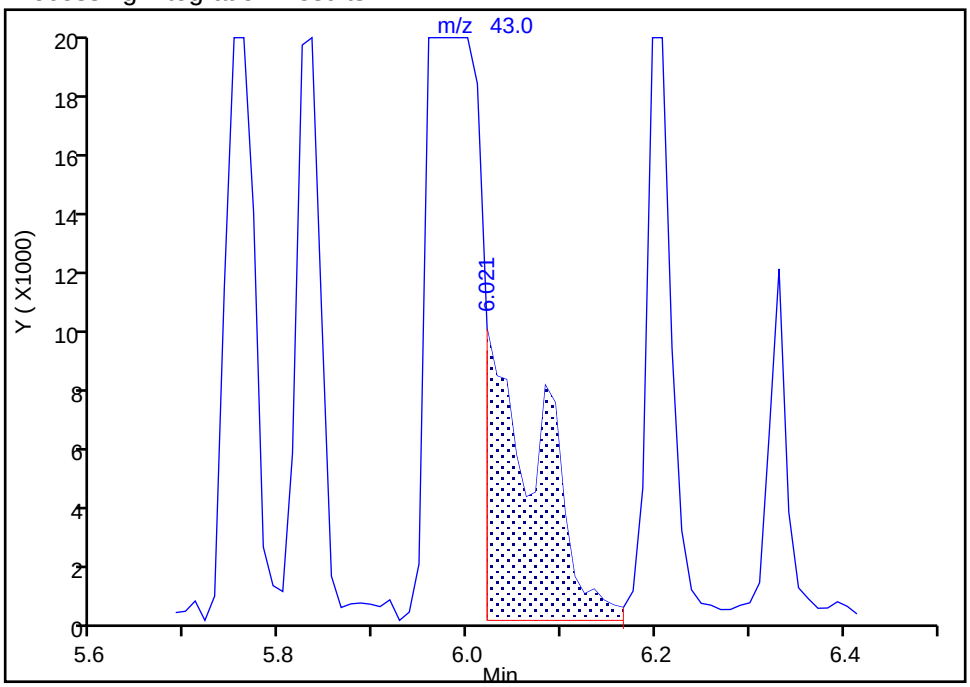
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1445.D
Injection Date: 17-Dec-2021 13:12:30 Instrument ID: HP5973C
Lims ID: CCVIS
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

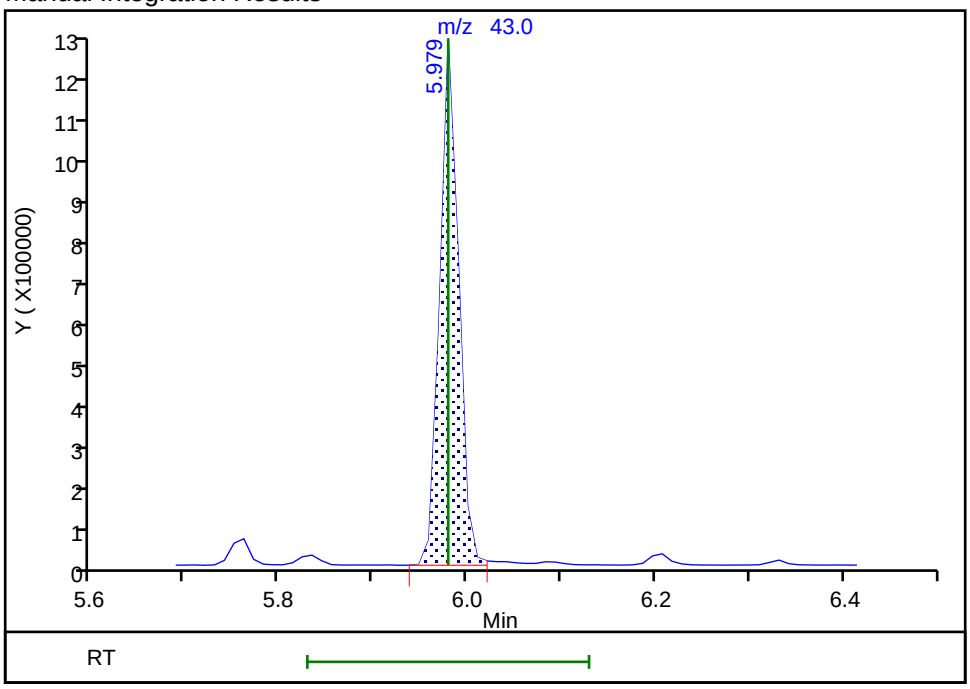
Processing Integration Results

RT: 6.02
Area: 40379
Amount: 2.483006
Amount Units: ug/L



Manual Integration Results

RT: 5.98
Area: 1694558
Amount: 104.2026
Amount Units: ug/L



Reviewer: HillL, 17-Dec-2021 13:29:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

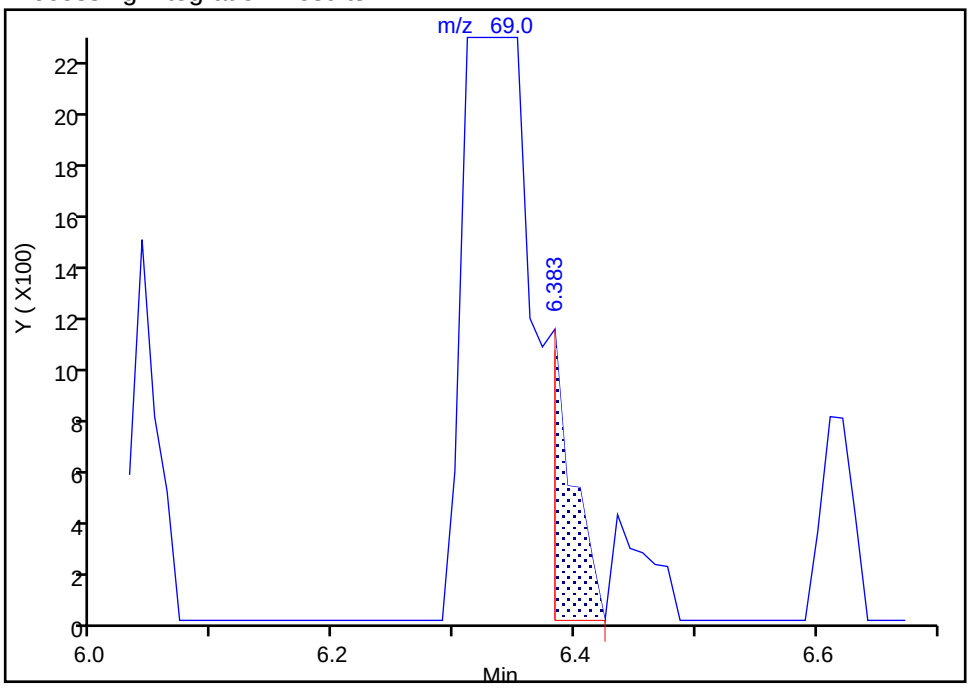
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1445.D
Injection Date: 17-Dec-2021 13:12:30 Instrument ID: HP5973C
Lims ID: CCVIS
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

75 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

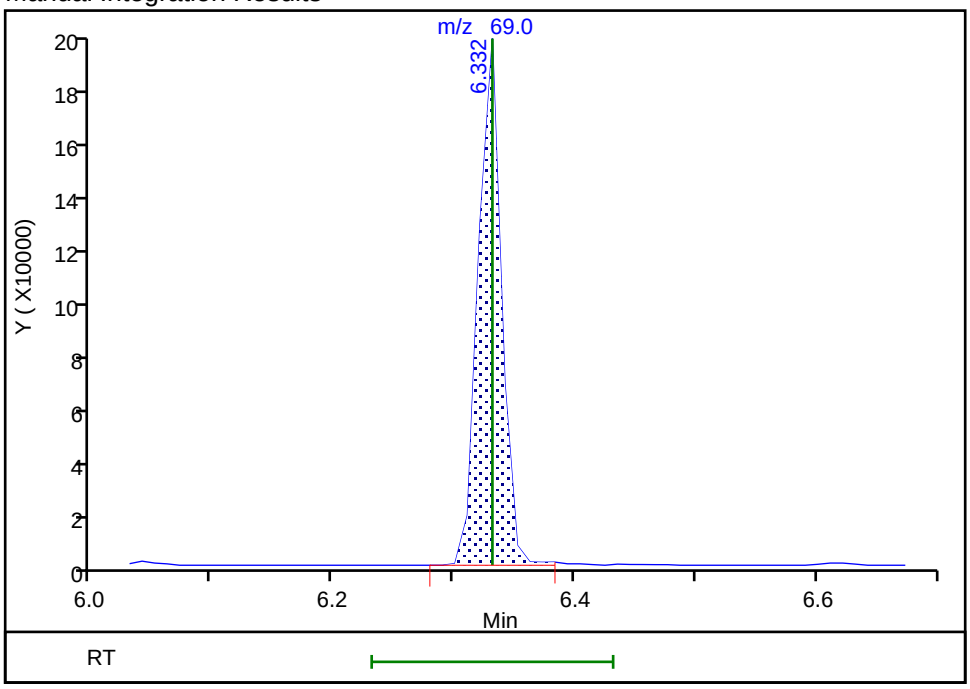
Processing Integration Results

RT: 6.38
Area: 1511
Amount: 0.131905
Amount Units: ug/L



Manual Integration Results

RT: 6.33
Area: 256578
Amount: 22.398276
Amount Units: ug/L



Reviewer: HillL, 17-Dec-2021 13:29:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1013.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	06-Dec-2021 14:22:30	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0102880-003				
Operator ID:	wd	Instrument ID:	HP5973C		
Method:	\\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	06-Dec-2021 14:32:39	Calib Date:	14-Nov-2021 00:04:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973C\20211113-102400.b\C0396.D				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1617				
First Level Reviewer: dahnw		Date:	06-Dec-2021 14:32:39		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	5.565	5.565	0.000	0	208263	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

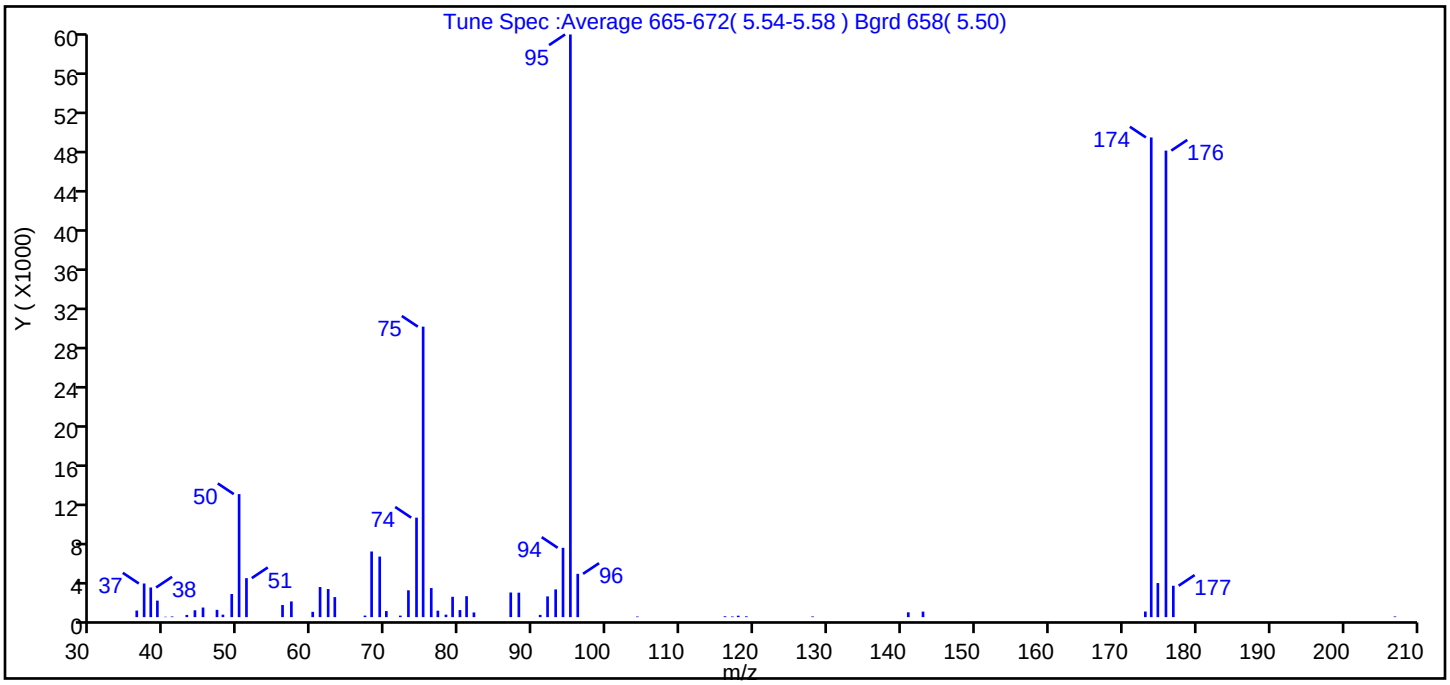
BFB_WRK_00130 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1013.D
Injection Date: 06-Dec-2021 14:22:30 Instrument ID: HP5973C
Lims ID: BFB
Client ID:
Operator ID: wd ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.1
75	30 to 60% of m/z 95	49.9
96	5 to 9% of m/z 95	7.4
173	Less than 2% of m/z 174	1.0 (1.2)
174	50 to 120% of m/z 95	82.3
175	5 to 9% of m/z 174	5.9 (7.1)
176	Greater than 95% but less than 101% of m/z 174	80.1 (97.3)
177	5 to 9% of m/z 176	5.4 (6.7)

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1013.D\C-8260.rslt\spectra.d
Injection Date: 06-Dec-2021 14:22:30
Spectrum: Tune Spec :Average 665-672(5.54-5.58) Bgrd 658(5.50)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	669	57.00	1594	78.00	254	117.00	67
37.00	3414	60.00	539	79.00	2064	118.00	147
38.00	3010	61.00	3056	80.00	720	119.00	84
39.00	1677	62.00	2852	81.00	2129	128.00	71
40.00	42	63.00	2032	82.00	478	141.00	490
41.00	68	67.00	158	87.00	2499	143.00	563
43.00	224	68.00	6661	88.00	2483	173.00	570
44.00	698	69.00	6145	91.00	229	174.00	48680
45.00	976	70.00	618	92.00	2104	175.00	3459
47.00	740	72.00	156	93.00	2815	176.00	47344
48.00	253	73.00	2724	94.00	7036	177.00	3186
49.00	2348	74.00	10097	95.00	59128	207.00	71
50.00	12486	75.00	29480	96.00	4395		
51.00	3960	76.00	2952	104.00	63		
56.00	1231	77.00	656	116.00	88		

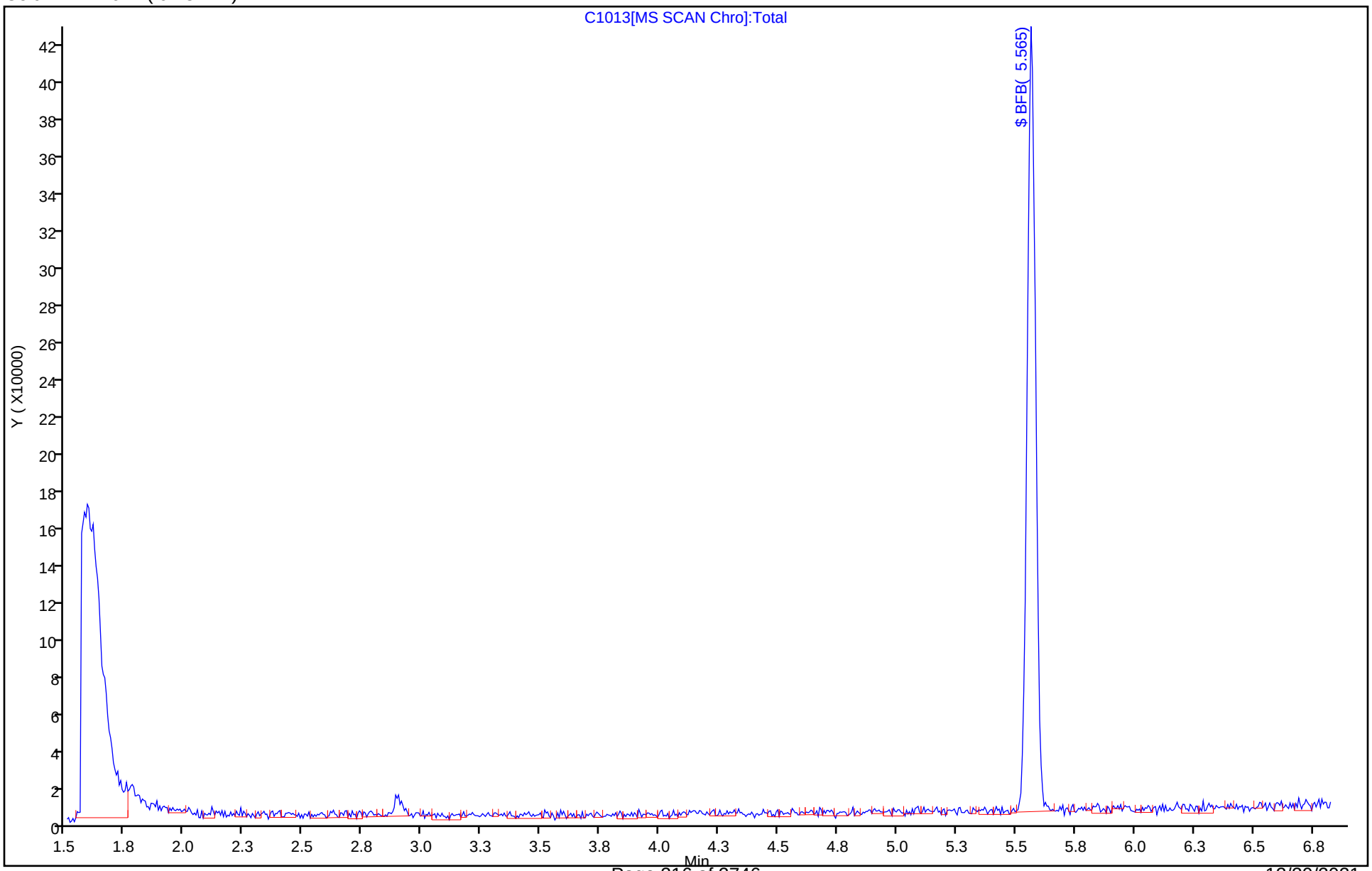
Report Date: 06-Dec-2021 14:32:39 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1013.D

Injection Date:	06-Dec-2021 14:22:30	Instrument ID:	HP5973C	Operator ID:	wd
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1444.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	17-Dec-2021 12:48:30	ALS Bottle#:	7	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0103133-002				
Operator ID:	LH	Instrument ID:	HP5973C		
Method:	\\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	17-Dec-2021 12:59:52	Calib Date:	06-Dec-2021 22:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1603				
First Level Reviewer: HillL		Date:	17-Dec-2021 12:59:52		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	5.590	5.590	0.000	0	235709	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

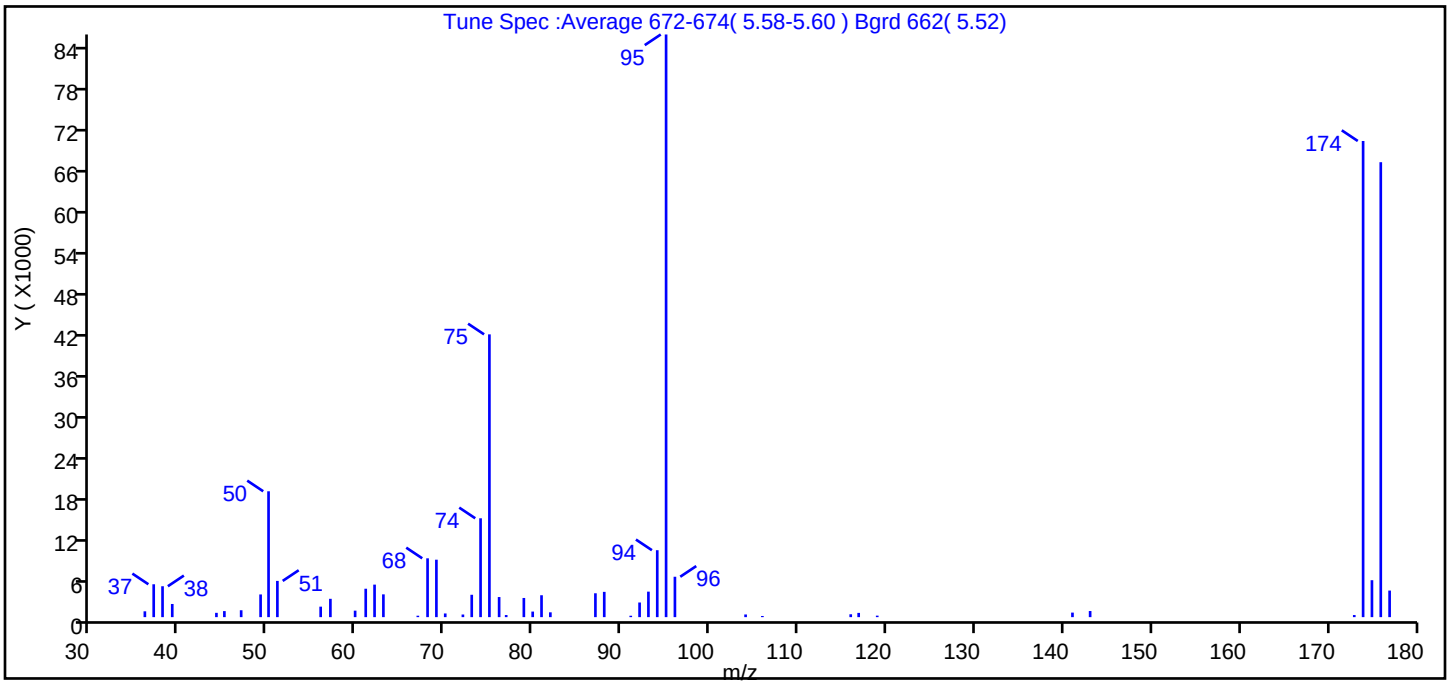
BFB_WRK_00130 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1444.D
Injection Date: 17-Dec-2021 12:48:30 Instrument ID: HP5973C
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.6
75	30 to 60% of m/z 95	48.5
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.4 (0.4)
174	50 to 120% of m/z 95	81.7
175	5 to 9% of m/z 174	6.3 (7.8)
176	Greater than 95% but less than 101% of m/z 174	78.1 (95.5)
177	5 to 9% of m/z 176	4.6 (5.8)

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1444.D\C-8260.rslt\spectra.d
Injection Date: 17-Dec-2021 12:48:30
Spectrum: Tune Spec :Average 672-674(5.58-5.60) Bgrd 662(5.52)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	851	61.00	4149	79.00	2800	106.00	169
37.00	4800	62.00	4749	80.00	814	116.00	419
38.00	4511	63.00	3328	81.00	3198	117.00	621
39.00	1922	67.00	209	82.00	705	119.00	219
44.00	629	68.00	8589	87.00	3485	141.00	664
45.00	882	69.00	8388	88.00	3691	143.00	893
47.00	1007	70.00	537	91.00	205	173.00	307
49.00	3314	72.00	385	92.00	2138	174.00	69520
50.00	18376	73.00	3266	93.00	3723	175.00	5394
51.00	5290	74.00	14434	94.00	9774	176.00	66424
56.00	1531	75.00	41288	95.00	85072	177.00	3881
57.00	2676	76.00	2934	96.00	5898		
60.00	947	77.00	306	104.00	391		

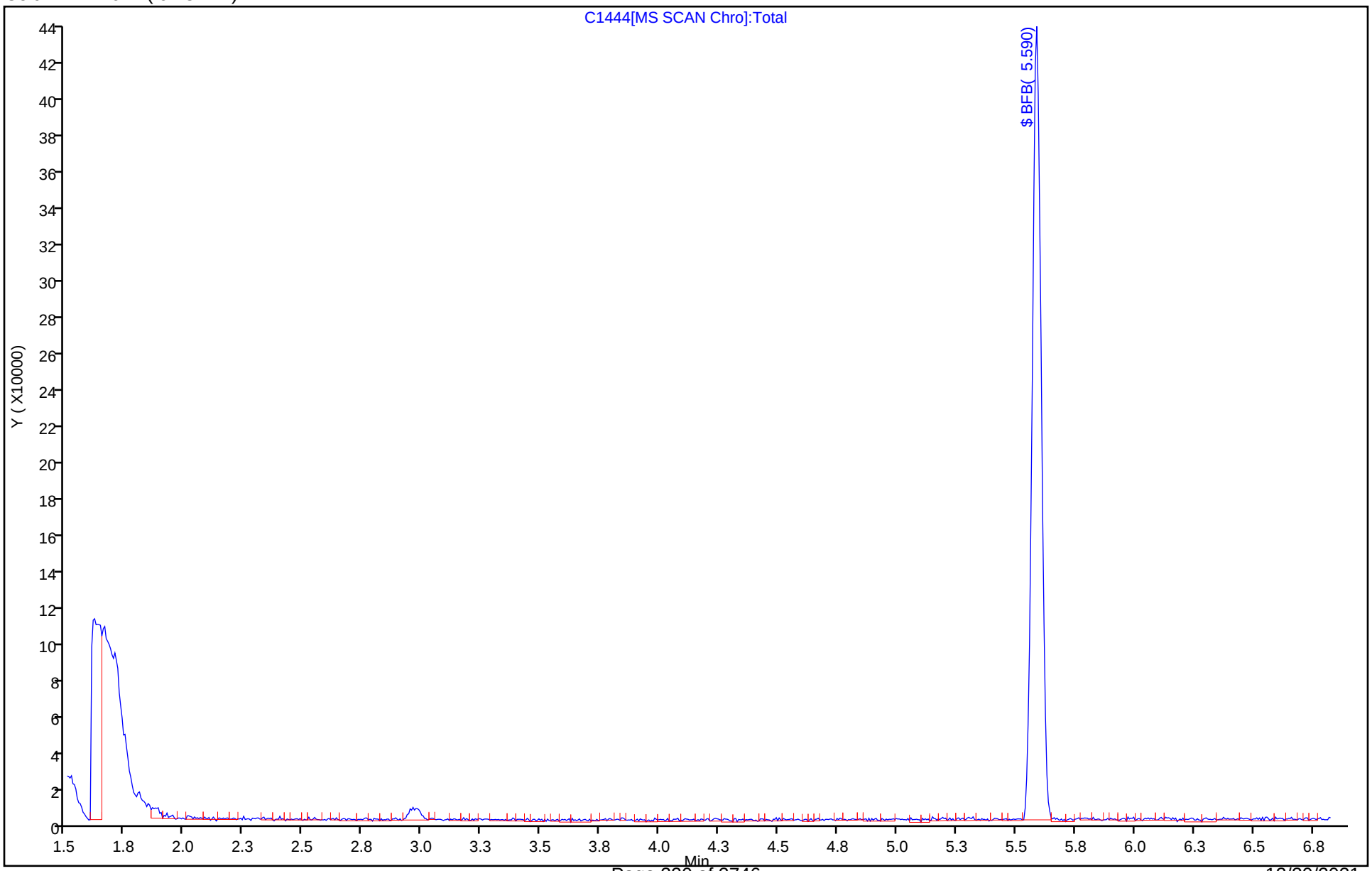
Report Date: 17-Dec-2021 12:59:53 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1444.D

Injection Date:	17-Dec-2021 12:48:30	Instrument ID:	HP5973C	Operator ID:	LH
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: Lab Sample ID: MB 480-609322/7

Matrix: Water Lab File ID: C1449.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 14:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	
79-00-5	1,1,2-Trichloroethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
96-18-4	1,2,3-Trichloropropane	ND		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	
95-50-1	1,2-Dichlorobenzene	ND		1.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
78-87-5	1,2-Dichloropropane	ND		1.0	
106-46-7	1,4-Dichlorobenzene	ND		1.0	
78-93-3	2-Butanone (MEK)	ND		10	
591-78-6	2-Hexanone	ND		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	
67-64-1	Acetone	ND		10	
107-13-1	Acrylonitrile	ND		5.0	
71-43-2	Benzene	ND		1.0	
74-97-5	Chlorobromomethane	ND		1.0	
75-27-4	Bromodichloromethane	ND		1.0	
75-25-2	Bromoform	ND		1.0	
74-83-9	Bromomethane	ND		1.0	
75-15-0	Carbon disulfide	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
108-90-7	Chlorobenzene	ND		1.0	
124-48-1	Dibromochloromethane	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
67-66-3	Chloroform	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
156-59-2	cis-1,2-Dichloroethene	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
74-95-3	Dibromomethane	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
106-93-4	1,2-Dibromoethane	ND		1.0	
74-88-4	Iodomethane	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: Lab Sample ID: MB 480-609322/7

Matrix: Water Lab File ID: C1449.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 14:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
108-88-3	Toluene	ND		1.0	
156-60-5	trans-1,2-Dichloroethene	ND		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	ND		1.0	
108-05-4	Vinyl acetate	ND		5.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		2.0	
179601-23-1	m,p-Xylene	ND		2.0	
95-47-6	o-Xylene	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
2037-26-5	Toluene-d8 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1449.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Dec-2021 14:54:30 ALS Bottle#: 12 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0103133-007
Operator ID: LH Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Dec-2021 10:22:57 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: kiwana Date: 20-Dec-2021 10:22:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	151389	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	86	271025	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	95	322843	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.383	4.383	0.000	93	283785	25.0	26.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	98	134236	25.0	26.1	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	93	648366	25.0	25.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	92	220826	25.0	25.5	
10 Dichlorodifluoromethane	85		1.140					ND	
11 Chlorodifluoromethane	51		1.161					ND	
12 Chloromethane	50		1.295					ND	
13 Vinyl chloride	62		1.388					ND	
151 Butadiene	54		1.399					ND	
14 Bromomethane	94		1.668					ND	
15 Chloroethane	64		1.751					ND	
17 Trichlorofluoromethane	101		1.969					ND	
16 Dichlorofluoromethane	67		1.969					ND	
18 Ethyl ether	59		2.269					ND	
148 Ethanol	45		2.300					ND	U
19 Propene oxide	58		2.352					ND	
20 Acrolein	56		2.435					ND	
21 112TCTFE	101		2.456					ND	
22 1,1-Dichloroethene	96		2.456					ND	
23 Acetone	43		2.591					ND	
25 Iodomethane	142		2.611					ND	
26 Carbon disulfide	76		2.642					ND	
24 Isopropyl alcohol	45		2.788					ND	
28 3-Chloro-1-propene	41		2.808					ND	
27 Methyl acetate	43		2.870					ND	
29 Acetonitrile	40		2.881					ND	
30 Methylene Chloride	84		2.943					ND	7
31 2-Methyl-2-propanol	59		3.129					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 trans-1,2-Dichloroethene	96		3.150					ND	
32 Methyl tert-butyl ether	73		3.150					ND	
33 Acrylonitrile	53		3.202					ND	
35 Hexane	57		3.326					ND	
39 1,1-Dichloroethane	63		3.523					ND	
36 Isopropyl ether	45		3.544					ND	
135 Halothane	117		3.554					ND	
37 Vinyl acetate	43		3.575					ND	7
40 2-Chloro-1,3-butadiene	53		3.575					ND	
38 1,1-Dimethoxyethane	75		3.606					ND	
41 Tert-butyl ethyl ether	59		3.834					ND	
44 2,2-Dichloropropane	77		3.969					ND	U
45 cis-1,2-Dichloroethene	96		4.000					ND	
43 2-Butanone (MEK)	43		4.041					ND	
42 Ethyl acetate	43		4.062					ND	
46 Propionitrile	54		4.124					ND	
48 Chlorobromomethane	128		4.197					ND	
47 Methacrylonitrile	41		4.207					ND	
49 Tetrahydrofuran	42		4.228					ND	
50 Chloroform	83	4.259	4.259	0.000	34	2364		0.1203	
51 1,1,1-Trichloroethane	97		4.352					ND	
52 Cyclohexane	56		4.352					ND	
55 Carbon tetrachloride	117		4.466					ND	
54 1,1-Dichloropropene	75		4.477					ND	
152 Isooctane	57		4.632					ND	
57 Benzene	78		4.642					ND	
53 Isobutyl alcohol	43		4.663					ND	
58 1,2-Dichloroethane	62		4.694					ND	7
56 Tert-amyl methyl ether	73		4.705					ND	U
147 t-Amyl alcohol	59		4.715					ND	
59 n-Heptane	43		4.777					ND	
1 1,4-Difluorobenzene	114		4.943					ND	
141 2,4,4-Trimethyl-1-pentene	55		5.036					ND	
62 Trichloroethene	95		5.130					ND	
60 n-Butanol	56		5.161					ND	
64 Methylcyclohexane	83		5.223					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.223					ND	
142 Ethyl acrylate	55		5.223					ND	
65 1,2-Dichloropropane	63		5.326					ND	
63 Methyl methacrylate	41		5.399					ND	
67 Dibromomethane	93		5.430					ND	
66 1,4-Dioxane	88		5.440					ND	
68 Dichlorobromomethane	83		5.544					ND	
70 2-Nitropropane	43		5.741					ND	
69 2-Chloroethyl vinyl ether	63		5.762					ND	
71 Epichlorohydrin	57		5.834					ND	
72 cis-1,3-Dichloropropene	75		5.865					ND	
73 4-Methyl-2-pentanone (MIBK)	43		5.979					ND	7
74 Toluene	92		6.093					ND	
76 2-Methylthiophene	97		6.197					ND	
77 trans-1,3-Dichloropropene	75		6.301					ND	
78 3-Methylthiophene	97		6.321					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
75 Ethyl methacrylate	69		6.332					ND	
79 1,1,2-Trichloroethane	83		6.446					ND	
81 Tetrachloroethene	166		6.497					ND	
82 1,3-Dichloropropane	76		6.570					ND	
80 2-Hexanone	43		6.611					ND	
155 n-Butyl acetate	43		6.694					ND	
83 Chlorodibromomethane	129		6.756					ND	
84 Ethylene Dibromide	107		6.839					ND	
146 1-Chlorohexane	55		7.140					ND	U
85 3-Chlorobenzotrifluoride	180		7.150					ND	
87 Chlorobenzene	112		7.192					ND	
86 4-Chlorobenzotrifluoride	180		7.192					ND	
88 Ethylbenzene	91		7.254					ND	
89 1,1,1,2-Tetrachloroethane	131		7.264					ND	
90 m-Xylene & p-Xylene	106		7.337					ND	
91 o-Xylene	106		7.658					ND	
92 Styrene	104		7.679					ND	
95 Bromoform	173		7.876					ND	
93 2-Chlorobenzotrifluoride	180		7.886					ND	
94 Isopropylbenzene	105		7.948					ND	
96 Cyclohexanone	55		8.093					ND	
101 Bromobenzene	156		8.228					ND	
97 1,1,2,2-Tetrachloroethane	83		8.249					ND	
99 N-Propylbenzene	91		8.270					ND	
100 1,2,3-Trichloropropane	110		8.280					ND	
98 trans-1,4-Dichloro-2-butene	53		8.290					ND	
103 2-Chlorotoluene	126		8.363					ND	
102 1,3,5-Trimethylbenzene	105		8.415					ND	
104 3-Chlorotoluene	126		8.415					ND	
105 4-Chlorotoluene	126		8.456					ND	
106 tert-Butylbenzene	134		8.674					ND	
107 1,2,4-Trimethylbenzene	105		8.725					ND	
108 Pentachloroethane	167		8.736					ND	
109 sec-Butylbenzene	105		8.850					ND	
110 4-Isopropyltoluene	119		8.974					ND	
111 1,3-Dichlorobenzene	146		8.974					ND	7
114 Dicyclopentadiene	66		9.036					ND	
113 1,4-Dichlorobenzene	146		9.057					ND	
112 1,2,3-Trimethylbenzene	105		9.078					ND	
150 Benzyl chloride	126		9.182					ND	
115 n-Butylbenzene	91		9.306					ND	
116 1,2-Dichlorobenzene	146		9.368					ND	
117 1,2-Dibromo-3-Chloropropane	75		10.042					ND	
118 1,3,5-Trichlorobenzene	180		10.156					ND	
119 1,2,4-Trichlorobenzene	180		10.684					ND	
120 Hexachlorobutadiene	225		10.788					ND	
121 Naphthalene	128		10.902					ND	
122 1,2,3-Trichlorobenzene	180		11.088					ND	
149 2-Methylnaphthalene	142		11.762					ND	
139 cis-1,4-Dichloro-2-butene	88		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
136 Hexachloroethane	117		0.000					ND	
137 Nitrobenzene	77		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	7
S 125 1,2-Dichloroethene, Total	1		30.000					ND	7
S 123 Total BTEX	1		30.000					ND	7
S 124 Xylenes, Total	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent

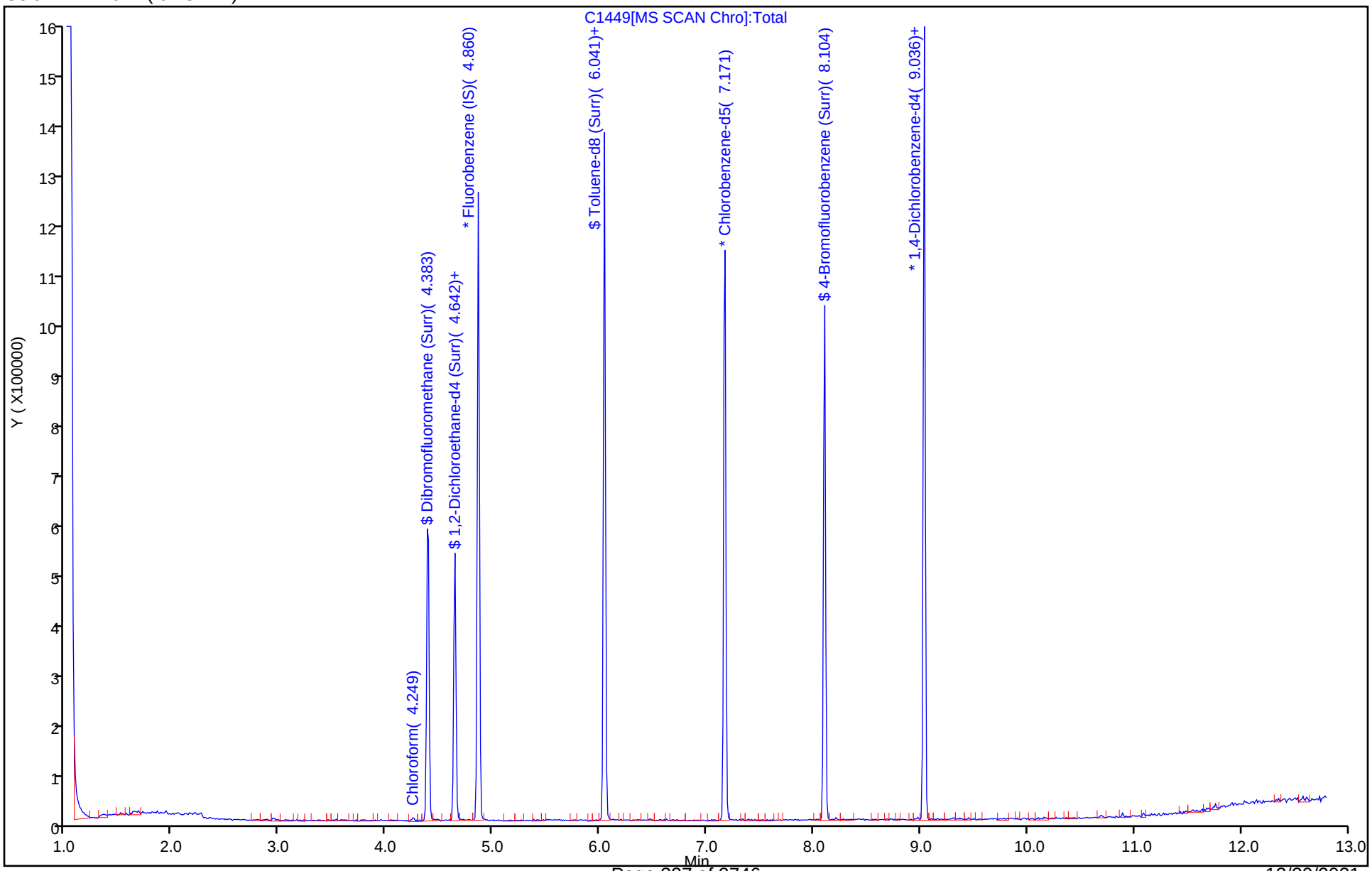
Report Date: 20-Dec-2021 10:22:58 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1449.D

Injection Date:	17-Dec-2021 14:54:30	Instrument ID:	HP5973C	Operator ID:	LH
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

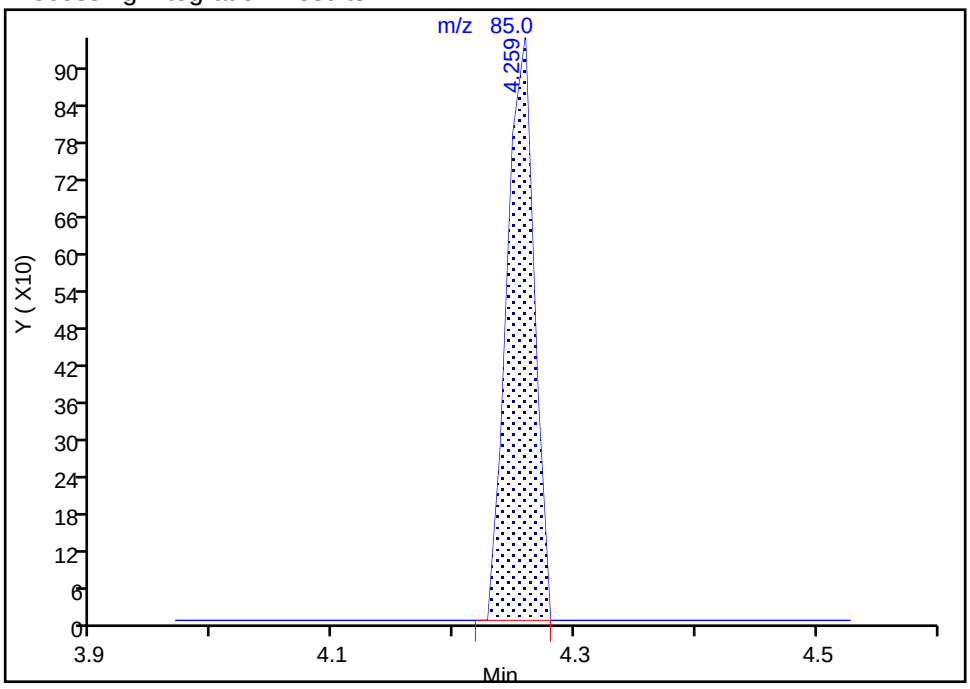
Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1449.D
Injection Date: 17-Dec-2021 14:54:30 Instrument ID: HP5973C
Lims ID: MB
Client ID:
Operator ID: LH ALS Bottle#: 12 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 2

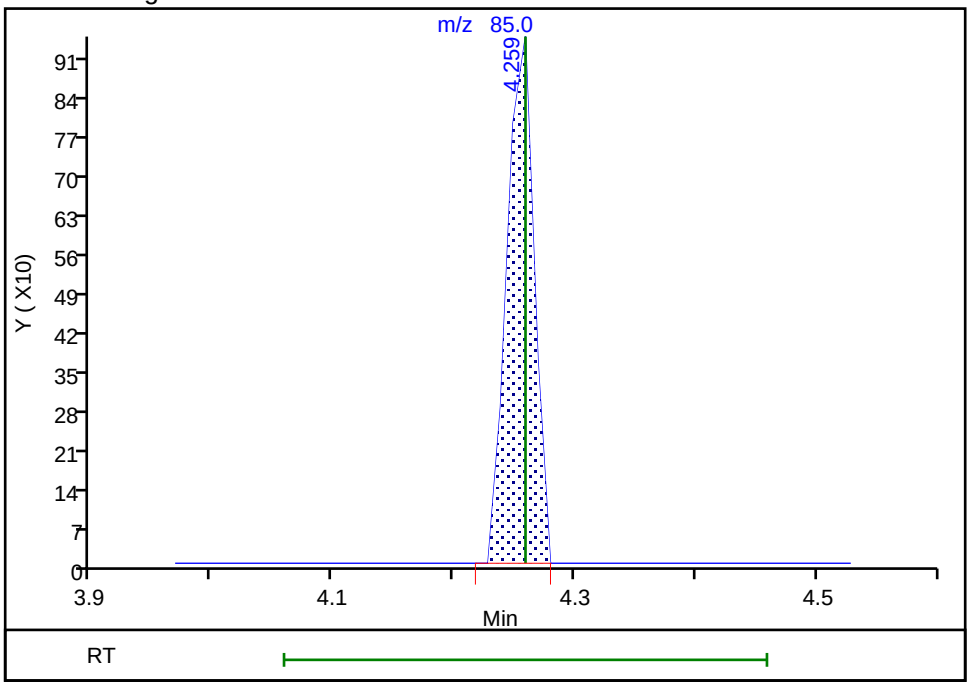
Processing Integration Results

RT: 4.26
Area: 1479
Amount: 0.120341
Amount Units: ug/L



Manual Integration Results

RT: 4.26
Area: 1479
Amount: 0.120341
Amount Units: ug/L



Reviewer: kiwana, 20-Dec-2021 10:21:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: Lab Sample ID: LCS 480-609322/5

Matrix: Water Lab File ID: C1447.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 14:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
630-20-6	1,1,1,2-Tetrachloroethane	25.3		1.0	
71-55-6	1,1,1-Trichloroethane	25.7		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	25.8		1.0	
79-00-5	1,1,2-Trichloroethane	27.8		1.0	
75-34-3	1,1-Dichloroethane	24.6		1.0	
75-35-4	1,1-Dichloroethene	26.5		1.0	
96-18-4	1,2,3-Trichloropropane	23.9		1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	17.2		1.0	
95-50-1	1,2-Dichlorobenzene	26.4		1.0	
107-06-2	1,2-Dichloroethane	25.4		1.0	
78-87-5	1,2-Dichloropropane	25.7		1.0	
106-46-7	1,4-Dichlorobenzene	28.0		1.0	
78-93-3	2-Butanone (MEK)	114		10	
591-78-6	2-Hexanone	109		5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	108		5.0	
67-64-1	Acetone	95.8		10	
107-13-1	Acrylonitrile	199		5.0	
71-43-2	Benzene	27.1		1.0	
74-97-5	Chlorobromomethane	25.5		1.0	
75-27-4	Bromodichloromethane	27.0		1.0	
75-25-2	Bromoform	25.0		1.0	
74-83-9	Bromomethane	28.0		1.0	
75-15-0	Carbon disulfide	24.8		1.0	
56-23-5	Carbon tetrachloride	26.9		1.0	
108-90-7	Chlorobenzene	27.0		1.0	
124-48-1	Dibromochloromethane	28.1		1.0	
75-00-3	Chloroethane	26.2		1.0	
67-66-3	Chloroform	25.1		1.0	
74-87-3	Chloromethane	25.2		1.0	
156-59-2	cis-1,2-Dichloroethene	24.3		1.0	
10061-01-5	cis-1,3-Dichloropropene	28.4		1.0	
74-95-3	Dibromomethane	24.8		1.0	
100-41-4	Ethylbenzene	27.0		1.0	
106-93-4	1,2-Dibromoethane	27.6		1.0	
74-88-4	Iodomethane	23.0		1.0	
75-09-2	Methylene Chloride	24.8		1.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Client Sample ID: Lab Sample ID: LCS 480-609322/5

Matrix: Water Lab File ID: C1447.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/17/2021 14:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 609322 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
100-42-5	Styrene	26.4		1.0	
127-18-4	Tetrachloroethene	31.7		1.0	
75-69-4	Trichlorofluoromethane	29.3		1.0	
79-01-6	Trichloroethene	28.7		1.0	
108-88-3	Toluene	28.5		1.0	
156-60-5	trans-1,2-Dichloroethene	25.0		1.0	
10061-02-6	trans-1,3-Dichloropropene	30.0		1.0	
110-57-6	trans-1,4-Dichloro-2-butene	27.6		1.0	
108-05-4	Vinyl acetate	57.2		5.0	
75-01-4	Vinyl chloride	25.7		1.0	
1330-20-7	Xylenes, Total	53.7		2.0	
179601-23-1	m,p-Xylene	27.2		2.0	
95-47-6	o-Xylene	26.5		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
2037-26-5	Toluene-d8 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1447.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Dec-2021 14:08:30 ALS Bottle#: 10 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0103133-005
Operator ID: LH Instrument ID: HP5973C

Method: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Dec-2021 14:37:17 Calib Date: 06-Dec-2021 22:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973C\20211206-102880.b\C1033.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: HillL Date: 17-Dec-2021 15:08:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.860	4.860	0.000	99	165096	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.171	7.171	0.000	85	296733	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.036	9.036	0.000	94	359801	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.394	4.383	0.011	93	283490	25.0	24.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.642	4.642	0.000	97	141397	25.0	25.2	
$ 5 Toluene-d8 (Surr)	98	6.041	6.041	0.000	94	723297	25.0	26.4	
$ 6 4-Bromofluorobenzene (Surr)	174	8.104	8.104	0.000	91	242153	25.0	25.5	
10 Dichlorodifluoromethane	85	1.140	1.140	0.000	99	336788	25.0	28.4	
12 Chloromethane	50	1.305	1.295	0.010	99	343545	25.0	25.2	
13 Vinyl chloride	62	1.399	1.388	0.011	98	316748	25.0	25.7	
151 Butadiene	54	1.409	1.399	0.010	93	308661	25.0	28.1	
14 Bromomethane	94	1.678	1.668	0.010	93	234858	25.0	28.0	
15 Chloroethane	64	1.761	1.751	0.010	98	189925	25.0	26.2	
16 Dichlorofluoromethane	67	1.979	1.969	0.010	95	483266	25.0	22.7	
17 Trichlorofluoromethane	101	1.969	1.969	0.000	76	483793	25.0	29.3	
18 Ethyl ether	59	2.269	2.269	0.000	94	240020	25.0	24.2	
20 Acrolein	56	2.435	2.435	0.000	99	253498	125.0	120.9	
21 112TCTFE	101	2.456	2.456	0.000	91	305832	25.0	32.5	
22 1,1-Dichloroethene	96	2.466	2.456	0.010	97	272419	25.0	26.5	
23 Acetone	43	2.601	2.591	0.010	98	687639	125.0	95.8	
25 Iodomethane	142	2.611	2.611	0.000	99	537481	25.0	23.0	
26 Carbon disulfide	76	2.642	2.642	0.000	100	920880	25.0	24.8	
28 3-Chloro-1-propene	41	2.818	2.808	0.010	86	436063	25.0	22.8	
27 Methyl acetate	43	2.870	2.870	0.000	98	569711	50.0	41.9	
30 Methylene Chloride	84	2.943	2.943	0.000	95	311491	25.0	24.8	
31 2-Methyl-2-propanol	59	3.129	3.129	0.000	97	614617	250.0	162.8	M
32 Methyl tert-butyl ether	73	3.150	3.150	0.000	99	881605	25.0	22.2	
34 trans-1,2-Dichloroethene	96	3.150	3.150	0.000	96	317834	25.0	25.0	
33 Acrylonitrile	53	3.212	3.202	0.010	98	1532567	250.0	198.9	
35 Hexane	57	3.326	3.326	0.000	95	369312	25.0	32.2	
39 1,1-Dichloroethane	63	3.523	3.523	0.000	96	508076	25.0	24.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.575	3.575	0.000	98	1170983	50.0	57.2	
44 2,2-Dichloropropane	77	3.969	3.969	0.000	91	411745	25.0	23.4	
45 cis-1,2-Dichloroethene	96	4.000	4.000	0.000	78	343775	25.0	24.3	
43 2-Butanone (MEK)	43	4.041	4.041	0.000	99	768457	125.0	113.9	
48 Chlorobromomethane	128	4.197	4.197	0.000	92	202511	25.0	25.5	
49 Tetrahydrofuran	42	4.228	4.228	0.000	87	225687	50.0	43.4	
50 Chloroform	83	4.259	4.259	0.000	95	537259	25.0	25.1	
51 1,1,1-Trichloroethane	97	4.352	4.352	0.000	98	468454	25.0	25.7	
52 Cyclohexane	56	4.352	4.352	0.000	94	486664	25.0	30.7	
55 Carbon tetrachloride	117	4.466	4.466	0.000	96	403871	25.0	26.9	
54 1,1-Dichloropropene	75	4.477	4.477	-0.001	89	347474	25.0	29.8	
57 Benzene	78	4.642	4.642	0.000	97	995313	25.0	27.1	
53 Isobutyl alcohol	43	4.663	4.663	0.000	92	475389	625.0	427.5	
58 1,2-Dichloroethane	62	4.704	4.694	0.010	97	392826	25.0	25.4	
59 n-Heptane	43	4.777	4.777	0.000	92	357638	25.0	29.5	
62 Trichloroethene	95	5.129	5.130	-0.001	95	269902	25.0	28.7	
64 Methylcyclohexane	83	5.223	5.223	0.000	92	490767	25.0	27.9	
65 1,2-Dichloropropane	63	5.326	5.326	0.000	89	215361	25.0	25.7	
67 Dibromomethane	93	5.430	5.430	0.000	96	179754	25.0	24.8	
66 1,4-Dioxane	88	5.440	5.440	0.000	93	80107	500.0	383.7	M
68 Dichlorobromomethane	83	5.544	5.544	0.000	97	321541	25.0	27.0	
69 2-Chloroethyl vinyl ether	63	5.762	5.762	0.000	94	116654	25.0	26.2	
72 cis-1,3-Dichloropropene	75	5.865	5.865	0.000	92	316319	25.0	28.4	
73 4-Methyl-2-pentanone (MIBK)	43	5.979	5.979	0.000	98	1648625	125.0	108.4	
74 Toluene	92	6.093	6.093	0.000	97	545318	25.0	28.5	
77 trans-1,3-Dichloropropene	75	6.300	6.301	-0.001	96	287586	25.0	30.0	
75 Ethyl methacrylate	69	6.331	6.332	-0.001	90	257601	25.0	24.0	
79 1,1,2-Trichloroethane	83	6.445	6.446	-0.001	92	171477	25.0	27.8	
81 Tetrachloroethene	166	6.497	6.497	0.000	95	269611	25.0	31.7	
82 1,3-Dichloropropane	76	6.570	6.570	0.000	93	328037	25.0	28.7	
80 2-Hexanone	43	6.622	6.611	0.011	99	943136	125.0	109.0	
83 Chlorodibromomethane	129	6.756	6.756	0.000	90	237706	25.0	28.1	
84 Ethylene Dibromide	107	6.839	6.839	0.000	97	228408	25.0	27.6	
87 Chlorobenzene	112	7.192	7.192	0.000	96	654152	25.0	27.0	
88 Ethylbenzene	91	7.254	7.254	0.000	99	1084474	25.0	27.0	
89 1,1,1,2-Tetrachloroethane	131	7.264	7.264	0.000	93	289691	25.0	25.3	
90 m-Xylene & p-Xylene	106	7.337	7.337	0.000	96	426419	25.0	27.2	
91 o-Xylene	106	7.658	7.658	0.000	98	461386	25.0	26.5	
92 Styrene	104	7.679	7.679	0.000	95	649594	25.0	26.4	
95 Bromoform	173	7.876	7.876	0.000	96	155566	25.0	25.0	
94 Isopropylbenzene	105	7.948	7.948	0.000	96	1262773	25.0	29.9	
101 Bromobenzene	156	8.228	8.228	0.000	91	305001	25.0	29.1	
97 1,1,2,2-Tetrachloroethane	83	8.249	8.249	0.000	97	370885	25.0	25.8	
99 N-Propylbenzene	91	8.280	8.270	0.010	99	1426314	25.0	29.6	
100 1,2,3-Trichloropropane	110	8.280	8.280	0.000	89	118959	25.0	23.9	
98 trans-1,4-Dichloro-2-butene	53	8.290	8.290	0.000	75	86865	25.0	27.6	
103 2-Chlorotoluene	126	8.363	8.363	0.000	97	319667	25.0	29.0	
102 1,3,5-Trimethylbenzene	105	8.414	8.415	-0.001	96	1081514	25.0	29.5	
105 4-Chlorotoluene	126	8.456	8.456	0.000	97	303488	25.0	29.3	
106 tert-Butylbenzene	134	8.674	8.674	0.000	92	239432	25.0	33.9	
107 1,2,4-Trimethylbenzene	105	8.725	8.725	0.000	97	1113035	25.0	28.9	
109 sec-Butylbenzene	105	8.850	8.850	0.000	95	1432625	25.0	32.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 4-Isopropyltoluene	119	8.974	8.974	0.000	97	1299930	25.0	31.5	
111 1,3-Dichlorobenzene	146	8.984	8.974	0.010	98	640611	25.0	27.7	
113 1,4-Dichlorobenzene	146	9.057	9.057	0.000	96	637765	25.0	28.0	
115 n-Butylbenzene	91	9.306	9.306	0.000	97	1155435	25.0	29.6	
116 1,2-Dichlorobenzene	146	9.368	9.368	0.000	98	661480	25.0	26.4	
117 1,2-Dibromo-3-Chloropropane	75	10.041	10.042	-0.001	84	83028	25.0	17.2	
119 1,2,4-Trichlorobenzene	180	10.684	10.684	0.000	95	534740	25.0	25.9	
120 Hexachlorobutadiene	225	10.788	10.788	0.000	97	233185	25.0	29.1	
121 Naphthalene	128	10.902	10.902	0.000	96	1691412	25.0	23.8	
122 1,2,3-Trichlorobenzene	180	11.088	11.088	0.000	97	538151	25.0	26.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00218	Amount Added:	12.50	Units: uL	
GAS CORP mix_00485	Amount Added:	12.50	Units: uL	
C_8260_Surr_00177	Amount Added:	2.00	Units: uL	Run Reagent
C_8260_IS_00159	Amount Added:	2.00	Units: uL	Run Reagent

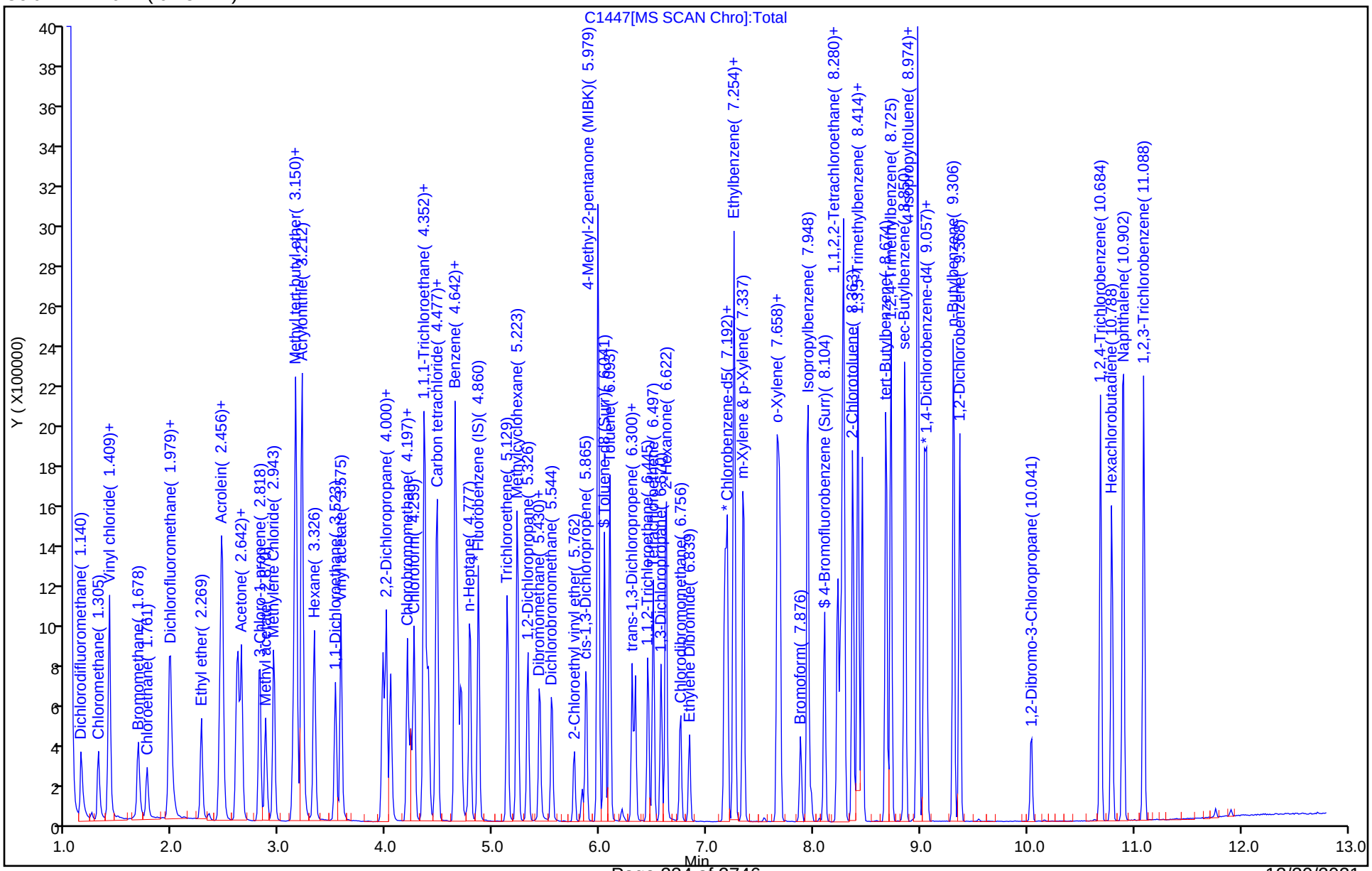
Report Date: 17-Dec-2021 15:08:50 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973C\20211217-103133.b\C1447.D

Injection Date:	17-Dec-2021 14:08:30	Instrument ID:	HP5973C	Operator ID:	LH
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	C-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: HP5973C Start Date: 12/06/2021 14:22

Analysis Batch Number: 607707 End Date: 12/06/2021 23:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-607707/3		12/06/2021 14:22	1	C1013.D	ZB-624 (20) 0.18(mm)
IC 480-607707/5		12/06/2021 15:09	1	C1015.D	ZB-624 (20) 0.18(mm)
IC 480-607707/6		12/06/2021 15:31	1	C1016.D	ZB-624 (20) 0.18(mm)
IC 480-607707/7		12/06/2021 15:54	1	C1017.D	ZB-624 (20) 0.18(mm)
IC 480-607707/8		12/06/2021 16:18	1	C1018.D	ZB-624 (20) 0.18(mm)
IC 480-607707/9		12/06/2021 16:41	1	C1019.D	ZB-624 (20) 0.18(mm)
ICIS 480-607707/10		12/06/2021 17:04	1	C1020.D	ZB-624 (20) 0.18(mm)
IC 480-607707/11		12/06/2021 17:27	1	C1021.D	ZB-624 (20) 0.18(mm)
IC 480-607707/12		12/06/2021 17:50	1	C1022.D	ZB-624 (20) 0.18(mm)
ZZZZZ		12/06/2021 18:36	1		ZB-624 (20) 0.18(mm)
IC 480-607707/17		12/06/2021 19:45	1		ZB-624 (20) 0.18(mm)
IC 480-607707/18		12/06/2021 20:08	1		ZB-624 (20) 0.18(mm)
IC 480-607707/19		12/06/2021 20:32	1		ZB-624 (20) 0.18(mm)
IC 480-607707/20		12/06/2021 20:55	1		ZB-624 (20) 0.18(mm)
IC 480-607707/21		12/06/2021 21:17	1		ZB-624 (20) 0.18(mm)
IC 480-607707/22		12/06/2021 21:40	1		ZB-624 (20) 0.18(mm)
IC 480-607707/23		12/06/2021 22:03	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/06/2021 22:49	1		ZB-624 (20) 0.18(mm)
ICV 480-607707/26		12/06/2021 23:12	1	C1036.D	ZB-624 (20) 0.18(mm)
ICV 480-607707/27		12/06/2021 23:34	1		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: HP5973C Start Date: 12/17/2021 12:48

Analysis Batch Number: 609322 End Date: 12/18/2021 00:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-609322/2		12/17/2021 12:48	1	C1444.D	ZB-624 (20) 0.18(mm)
CCVIS 480-609322/3		12/17/2021 13:12	1	C1445.D	ZB-624 (20) 0.18(mm)
LCS 480-609322/5		12/17/2021 14:08	1	C1447.D	ZB-624 (20) 0.18(mm)
RL 480-609322/6		12/17/2021 14:31	1		ZB-624 (20) 0.18(mm)
MB 480-609322/7		12/17/2021 14:54	1	C1449.D	ZB-624 (20) 0.18(mm)
480-193436-2	MW-3A	12/17/2021 15:24	1	C1450.D	ZB-624 (20) 0.18(mm)
480-193436-3	MW-3B	12/17/2021 15:47	1	C1451.D	ZB-624 (20) 0.18(mm)
480-193436-4	MW-4A	12/17/2021 16:10	1	C1452.D	ZB-624 (20) 0.18(mm)
480-193436-5	MW-5A	12/17/2021 16:33	1	C1453.D	ZB-624 (20) 0.18(mm)
480-193436-6	MW-6A	12/17/2021 16:56	1	C1454.D	ZB-624 (20) 0.18(mm)
480-193436-7	MW-6B	12/17/2021 17:19	1	C1455.D	ZB-624 (20) 0.18(mm)
480-193436-8	MW-7A	12/17/2021 17:42	1	C1456.D	ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 18:04	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 18:27	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 18:50	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 19:13	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 19:36	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 19:59	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 20:22	4		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 20:45	4		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 21:08	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 21:31	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 21:53	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 22:16	2		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 22:39	4		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 23:02	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 23:25	4		ZB-624 (20) 0.18(mm)
ZZZZZ		12/17/2021 23:47	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/18/2021 00:10	1		ZB-624 (20) 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 607707 Batch Start Date: 12/06/21 14:22 Batch Analyst: Dahn, William J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 CORP mix 00218	BFB_WRK 00130	C_8260_IS 00159	C_8260_Surr 00177
BFB 480-607707/3		8260C		1 uL	1 uL		1 uL		
IC 480-607707/5		8260C		5 mL	5 mL	0.4 uL		2 uL	2 uL
IC 480-607707/6		8260C		5 mL	5 mL	1 uL		2 uL	2 uL
IC 480-607707/7		8260C		5 mL	5 mL	2 uL		2 uL	2 uL
IC 480-607707/8		8260C		5 mL	5 mL	5 uL		2 uL	2 uL
IC 480-607707/9		8260C		5 mL	5 mL	5 uL		2 uL	2 uL
ICIS 480-607707/10		8260C		5 mL	5 mL	12.5 uL		2 uL	2 uL
IC 480-607707/11		8260C		5 mL	5 mL	25 uL		2 uL	2 uL
IC 480-607707/12		8260C		5 mL	5 mL	50 uL		2 uL	2 uL
ICV 480-607707/26		8260C		5 mL	5 mL			2 uL	2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	GAS CORP mix 00484	SS 8260 CORP 00097	SS GAS CORP 00435			
BFB 480-607707/3		8260C							
IC 480-607707/5		8260C		0.4 uL					
IC 480-607707/6		8260C		1 uL					
IC 480-607707/7		8260C		2 uL					
IC 480-607707/8		8260C		5 uL					
IC 480-607707/9		8260C		5 uL					
ICIS 480-607707/10		8260C		12.5 uL					
IC 480-607707/11		8260C		25 uL					
IC 480-607707/12		8260C		50 uL					
ICV 480-607707/26		8260C			12.5 uL	12.5 uL			

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 607707 Batch Start Date: 12/06/21 14:22 Batch Analyst: Dahn, William J

Batch Method: 8260C Batch End Date:

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609322 Batch Start Date: 12/17/21 12:48 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00218	BFB_WRK 00130	C_8260_IS 00159
BFB 480-609322/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-609322/3		8260C		5 mL	5 mL		12.5 uL		2 uL
LCS 480-609322/5		8260C		5 mL	5 mL		12.5 uL		2 uL
MB 480-609322/7		8260C		5 mL	5 mL				2 uL
480-193436-M-2	MW-3A	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-193436-M-3	MW-3B	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-193436-M-4	MW-4A	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-193436-M-5	MW-5A	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-193436-M-6	MW-6A	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-193436-M-7	MW-6B	8260C	T	5 mL	5 mL	<2 SU			2 uL
480-193436-M-8	MW-7A	8260C	T	5 mL	5 mL	<2 SU			2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	C_8260_Surr 00177	GAS CORP mix 00485				
BFB 480-609322/2		8260C							
CCVIS 480-609322/3		8260C		2 uL	12.5 uL				
LCS 480-609322/5		8260C		2 uL	12.5 uL				
MB 480-609322/7		8260C		2 uL					
480-193436-M-2	MW-3A	8260C	T	2 uL					
480-193436-M-3	MW-3B	8260C	T	2 uL					
480-193436-M-4	MW-4A	8260C	T	2 uL					
480-193436-M-5	MW-5A	8260C	T	2 uL					
480-193436-M-6	MW-6A	8260C	T	2 uL					
480-193436-M-7	MW-6B	8260C	T	2 uL					
480-193436-M-8	MW-7A	8260C	T	2 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609322 Batch Start Date: 12/17/21 12:48 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG No.: 193337

Project: Towslee Landfill - Baseline

Client Sample ID	Lab Sample ID
MW-3A	480-193436-2
MW-3B	480-193436-3
MW-4A	480-193436-4
MW-5A	480-193436-5
MW-6A	480-193436-6
MW-6B	480-193436-7
MW-7A	480-193436-8

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-3A
Lab Sample ID: 480-193436-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 08:45
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.48	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.44	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	24.3	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.42	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	3.6	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.78	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.0	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	1.6	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	75.6	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-3B
Lab Sample ID: 480-193436-3
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 09:00
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.20	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.030	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	47.2	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.13	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	13.7	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.022	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.1	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	8.0	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	174	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-4A
Lab Sample ID: 480-193436-4
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 09:30
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.29	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	1.0	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.078	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	124	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.13	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	26.9	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.11	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.5	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	15.4	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	420	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-5A
Lab Sample ID: 480-193436-5
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 09:50
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.23	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.57	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	ND	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	41.1	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.12	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	11.8	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.024	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	0.82	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	8.5	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	151	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-6A
Lab Sample ID: 480-193436-6
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 10:20
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	21.7	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.42	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.020	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	82.5	0.50		mg/L			1	6010C
7440-47-3	Chromium	0.030	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	0.018	0.0040		mg/L			1	6010C
7440-50-8	Copper	0.023	0.010		mg/L			1	6010C
7439-89-6	Iron	29.8	0.050		mg/L			1	6010C
7439-92-1	Lead	0.010	0.010		mg/L			1	6010C
7439-95-4	Magnesium	13.8	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.83	0.0030		mg/L			1	6010C
7440-02-0	Nickel	0.032	0.010		mg/L			1	6010C
7440-09-7	Potassium	6.9	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	3.2	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	0.031	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.060	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	263	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-6A
Lab Sample ID: 480-193436-6
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 10:20
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	77.2	0.50		mg/L			1	6010C
7439-89-6	Iron	ND	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	8.0	0.20		mg/L			1	6010C
7439-96-5	Manganese	ND	0.0030		mg/L			1	6010C
7440-09-7	Potassium	1.7	0.50		mg/L			1	6010C
7440-23-5	Sodium	2.9	1.0		mg/L			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-6B
Lab Sample ID: 480-193436-7
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 10:45
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	1.2	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.33	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.020	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	38.5	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.58	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	9.9	0.20		mg/L			1	6010C
7439-96-5	Manganese	0.24	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	1.0	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	14.2	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	0.013	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	137	0.50		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-7A
Lab Sample ID: 480-193436-8
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 11:15
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.22	0.20		mg/L			1	6010C
7440-36-0	Antimony	ND	0.020		mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015		mg/L			1	6010C
7440-39-3	Barium	0.19	0.0020		mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020		mg/L			1	6010C
7440-42-8	Boron	0.12	0.020		mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020		mg/L			1	6010C
7440-70-2	Calcium	75.8	0.50		mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040		mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040		mg/L			1	6010C
7440-50-8	Copper	ND	0.010		mg/L			1	6010C
7439-89-6	Iron	0.32	0.050		mg/L			1	6010C
7439-92-1	Lead	ND	0.010		mg/L			1	6010C
7439-95-4	Magnesium	15.0	0.20		mg/L			1	6010C
7439-96-5	Manganese	2.3	0.0030		mg/L			1	6010C
7440-02-0	Nickel	ND	0.010		mg/L			1	6010C
7440-09-7	Potassium	2.2	0.50		mg/L			1	6010C
7782-49-2	Selenium	ND	0.025		mg/L			1	6010C
7440-22-4	Silver	ND	0.0060		mg/L			1	6010C
7440-23-5	Sodium	20.8	1.0		mg/L			1	6010C
7440-28-0	Thallium	ND	0.020		mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050		mg/L			1	6010C
7440-66-6	Zinc	ND	0.010		mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020		mg/L			1	7470A
	Hardness as calcium carbonate	251	0.50		mg/L			1	SM 2340B

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEI_MSS_ICV_00089 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00206

Analyte	ICV 480-609279/5 12/16/2021 13:26				CCV 480-609279/17 12/16/2021 17:21				CCV 480-609279/21 12/16/2021 18:09			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	36.20		37.5	97	49.57		50.0	99	49.54		50.0	99
Antimony	0.782		0.750	104	1.01		1.00	101	1.01		1.00	101
Arsenic	0.734		0.750	98	1.01		1.00	101	1.01		1.00	101
Barium	0.730		0.750	97	0.997		1.00	100	0.996		1.00	100
Beryllium	0.743		0.750	99	1.00		1.00	100	1.00		1.00	100
Boron	0.737		0.750	98	1.04		1.00	104	1.06		1.00	106
Cadmium	0.729		0.750	97	1.01		1.00	101	1.01		1.00	101
Calcium	37.13		37.5	99	50.41		50.0	101	50.40		50.0	101
Chromium	0.736		0.750	98	1.01		1.00	101	1.01		1.00	101
Cobalt	0.715		0.750	95	0.993		1.00	99	0.993		1.00	99
Copper	0.700		0.750	93	0.991		1.00	99	0.993		1.00	99
Iron	37.81		37.5	101	50.38		50.0	101	50.19		50.0	100
Lead	0.736		0.750	98	1.00		1.00	100	1.00		1.00	100
Magnesium	36.49		37.5	97	49.87		50.0	100	49.84		50.0	100
Manganese	0.746		0.750	99	1.01		1.00	101	1.01		1.00	101
Nickel	0.731		0.750	97	0.987		1.00	99	0.989		1.00	99
Potassium	36.43		37.5	97	49.73		50.0	99	49.92		50.0	100
Selenium	0.729		0.750	97	0.998		1.00	100	0.999		1.00	100
Silver	0.724		0.750	97	1.00		1.00	100	1.01		1.00	101
Sodium	36.31		37.5	97	49.45		50.0	99	49.34		50.0	99
Thallium	0.739		0.750	99	1.01		1.00	101	1.01		1.00	101
Vanadium	0.734		0.750	98	1.00		1.00	100	1.00		1.00	100
Zinc	0.725		0.750	97	1.04		1.00	104	1.04		1.00	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEI_MSS_ICV_00089 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00206

Analyte	CCV 480-609279/33 12/16/2021 18:55				CCV 480-609279/45 12/16/2021 19:43							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	49.21		50.0	98	49.07		50.0	98				
Antimony	0.998		1.00	100	0.993		1.00	99				
Arsenic	1.01		1.00	101	0.990		1.00	99				
Barium	0.993		1.00	99	0.988		1.00	99				
Beryllium	1.00		1.00	100	1.00		1.00	100				
Boron	1.04		1.00	104	1.03		1.00	103				
Cadmium	1.01		1.00	101	0.999		1.00	100				
Calcium	50.35		50.0	101	50.18		50.0	100				
Chromium	1.01		1.00	101	1.01		1.00	101				
Cobalt	0.995		1.00	99	0.993		1.00	99				
Copper	0.992		1.00	99	0.997		1.00	100				
Iron	50.09		50.0	100	49.94		50.0	100				
Lead	1.00		1.00	100	0.997		1.00	100				
Magnesium	50.08		50.0	100	50.22		50.0	100				
Manganese	1.01		1.00	101	1.02		1.00	102				
Nickel	0.995		1.00	100	0.998		1.00	100				
Potassium	49.88		50.0	100	49.95		50.0	100				
Selenium	0.996		1.00	100	0.991		1.00	99				
Silver	1.01		1.00	101	1.01		1.00	101				
Sodium	49.24		50.0	98	49.04		50.0	98				
Thallium	1.01		1.00	101	1.00		1.00	100				
Vanadium	1.01		1.00	101	1.01		1.00	101				
Zinc	1.04		1.00	104	1.04		1.00	104				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEI_10_CCVL_00410 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00410

Analyte	ICVL 480-609279/7 12/16/2021 13:34				CCVL 480-609279/19 12/16/2021 17:29				CCVL 480-609279/23 12/16/2021 18:17			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	ND		0.200	90	0.207		0.200	103	0.215		0.200	107
Antimony	0.0200		0.0200	100	0.0210		0.0200	105	0.0193	J	0.0200	97
Arsenic	ND		0.0150	86	0.0149	J	0.0150	99	0.0144	J	0.0150	96
Barium	0.00203		0.00200	102	0.00216		0.00200	108	0.00213		0.00200	107
Beryllium	ND		0.00200	99	0.00209		0.00200	105	0.00202		0.00200	101
Boron	ND		0.0200	92	0.0194	J	0.0200	97				
Cadmium	ND		0.00200	96	0.00194	J	0.00200	97	0.00192	J	0.00200	96
Calcium	ND		0.500	97	0.514		0.500	103	0.512		0.500	102
Chromium	ND		0.00400	89	0.00406		0.00400	102	0.00384	J	0.00400	96
Cobalt	ND		0.00400	91	0.00367	J	0.00400	92	0.00373	J	0.00400	93
Copper	ND		0.0100	96	0.0101		0.0100	101	0.0105		0.0100	105
Iron	0.0533		0.0500	107	0.0540		0.0500	108	0.0513		0.0500	103
Lead	ND		0.0100	94	0.00971	J	0.0100	97	0.00953	J	0.0100	95
Magnesium	ND		0.200	92	0.191	J	0.200	95	0.195	J	0.200	98
Manganese	ND		0.00300	98	0.00313		0.00300	104	0.00306		0.00300	102
Nickel	ND		0.0100	90	0.00969	J	0.0100	97	0.00935	J	0.0100	94
Potassium	ND		0.500	94	0.447	J	0.500	89	0.561		0.500	112
Selenium	ND		0.0250	91	0.0241	J	0.0250	96	0.0233	J	0.0250	93
Silver	ND		0.00600	96	0.00563	J	0.00600	94	0.00626		0.00600	104
Sodium	ND		1.01	91	0.969	J	1.01	96	1.04		1.01	103
Thallium	ND		0.0200	92	0.0203		0.0200	101	0.0193	J	0.0200	97
Vanadium	ND		0.00500	94	0.00493	J	0.00500	99	0.00497	J	0.00500	99
Zinc	ND		0.0100	97	0.0103		0.0100	103	0.00990	J	0.0100	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEI_10_CCVL_00410 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00410

Analyte	CCVL 480-609279/35 12/16/2021 19:03				CCVL 480-609279/47 12/16/2021 19:51							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.191	J	0.200	96	0.210		0.200	105				
Antimony	0.0192	J	0.0200	96	0.0205		0.0200	103				
Arsenic	0.0132	J	0.0150	88	0.0122	J	0.0150	82				
Barium	0.00214		0.00200	107	0.00216		0.00200	108				
Beryllium	0.00208		0.00200	104	0.00202		0.00200	101				
Boron	0.0203		0.0200	102	0.0194	J	0.0200	97				
Cadmium	0.00197	J	0.00200	99	0.00205		0.00200	103				
Calcium	0.521		0.500	104	0.523		0.500	105				
Chromium	0.00378	J	0.00400	95	0.00379	J	0.00400	95				
Cobalt	0.00376	J	0.00400	94	0.00358	J	0.00400	90				
Copper	0.0102		0.0100	102	0.0102		0.0100	102				
Iron	0.0540		0.0500	108	0.0541		0.0500	108				
Lead	0.00977	J	0.0100	98	0.00980	J	0.0100	98				
Magnesium	0.196	J	0.200	98	0.196	J	0.200	98				
Manganese	0.00319		0.00300	106	0.00325		0.00300	108				
Nickel	0.00932	J	0.0100	93	0.00943	J	0.0100	94				
Potassium	0.460	J	0.500	92	0.466	J	0.500	93				
Selenium	0.0228	J	0.0250	91	0.0227	J	0.0250	91				
Silver	0.00559	J	0.00600	93	0.00572	J	0.00600	95				
Sodium	0.996	J	1.01	99	1.06		1.01	105				
Thallium	0.0202		0.0200	101	0.0200		0.0200	100				
Vanadium	0.00483	J	0.00500	97	0.00506		0.00500	101				
Zinc	0.0110		0.0100	110	0.0109		0.0100	109				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEI_MSS_ICV_00089 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00206

Analyte	ICV 480-609447/5 12/17/2021 11:36				CCV 480-609447/15 12/17/2021 12:14				CCV 480-609447/27 12/17/2021 13:11			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Boron	0.753		0.750	100	1.03		1.00	103	1.03		1.00	103
Aluminum	37.59		37.5	100	50.41		50.0	101	50.11		50.0	100
Antimony	0.736		0.750	98	1.00		1.00	100	1.00		1.00	100
Arsenic	0.730		0.750	97	0.989		1.00	99	0.987		1.00	99
Barium	0.732		0.750	98	0.988		1.00	99	0.990		1.00	99
Beryllium	0.737		0.750	98	1.01		1.00	101	0.999		1.00	100
Cadmium	0.735		0.750	98	0.998		1.00	100	1.00		1.00	100
Calcium	37.51		37.5	100	49.87		50.0	100	49.39		50.0	99
Chromium	0.743		0.750	99	1.00		1.00	100	0.996		1.00	100
Cobalt	0.708		0.750	94	0.967		1.00	97	0.966		1.00	97
Copper	0.723		0.750	96	0.990		1.00	99	0.997		1.00	100
Iron	37.77		37.5	101	49.70		50.0	99	49.60		50.0	99
Lead	0.721		0.750	96	0.971		1.00	97	0.970		1.00	97
Magnesium	37.21		37.5	99	48.51		50.0	97	48.20		50.0	96
Manganese	0.740		0.750	99	0.989		1.00	99	0.986		1.00	99
Nickel	0.719		0.750	96	0.969		1.00	97	0.966		1.00	97
Potassium	37.27		37.5	99	49.21		50.0	98	49.19		50.0	98
Selenium	0.732		0.750	98	0.984		1.00	98	0.988		1.00	99
Silver	0.752		0.750	100	0.997		1.00	100	1.00		1.00	100
Sodium	36.94		37.5	98	49.56		50.0	99	49.37		50.0	99
Thallium	0.736		0.750	98	0.985		1.00	98	0.980		1.00	98
Vanadium	0.739		0.750	99	0.998		1.00	100	0.995		1.00	100
Zinc	0.744		0.750	99	1.01		1.00	101	1.00		1.00	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEI_MSS_ICV_00089 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00206

Analyte	CCV 480-609447/33 12/17/2021 13:56											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Boron	1.03		1.00	103								
Aluminum	50.29		50.0	101								
Antimony	0.996		1.00	100								
Arsenic	1.01		1.00	101								
Barium	0.990		1.00	99								
Beryllium	1.01		1.00	101								
Cadmium	0.997		1.00	100								
Calcium	49.55		50.0	99								
Chromium	1.01		1.00	101								
Cobalt	0.964		1.00	96								
Copper	0.991		1.00	99								
Iron	49.54		50.0	99								
Lead	0.971		1.00	97								
Magnesium	48.70		50.0	97								
Manganese	0.994		1.00	99								
Nickel	0.978		1.00	98								
Potassium	49.25		50.0	98								
Selenium	1.00		1.00	100								
Silver	0.993		1.00	99								
Sodium	49.75		50.0	100								
Thallium	0.988		1.00	99								
Vanadium	1.00		1.00	100								
Zinc	1.01		1.00	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEI_10_CCVL_00410 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00410

Analyte	ICVL 480-609447/7 12/17/2021 11:44				CCVL 480-609447/17 12/17/2021 12:34				CCVL 480-609447/29 12/17/2021 13:18			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Boron	ND		0.0200	96	0.0170	J	0.0200	85	0.0172	J	0.0200	86
Aluminum	0.218		0.200	109	0.205		0.200	102	0.216		0.200	108
Antimony	0.0206		0.0200	103	0.0202		0.0200	101	0.0193	J	0.0200	96
Arsenic	ND		0.0150	94	0.0128	J	0.0150	86	0.0147	J	0.0150	98
Barium	0.00213		0.00200	107	0.00202		0.00200	101	0.00207		0.00200	104
Beryllium	ND		0.00200	97	0.00196	J	0.00200	98	0.00207		0.00200	104
Cadmium	ND		0.00200	96	0.00186	J	0.00200	93	0.00197	J	0.00200	99
Calcium	ND		0.500	99	0.496	J	0.500	99	0.502		0.500	100
Chromium	0.00444		0.00400	111	0.00426		0.00400	107	0.00390	J	0.00400	98
Cobalt	ND		0.00400	89	0.00359	J	0.00400	90	0.00351	J	0.00400	88
Copper	0.0103		0.0100	103	0.0104		0.0100	104	0.00970	J	0.0100	97
Iron	0.0500		0.0500	100	0.0497	J	0.0500	99	0.0482	J	0.0500	96
Lead	ND		0.0100	97	0.00893	J	0.0100	89	0.00921	J	0.0100	92
Magnesium	ND		0.200	94	0.187	J	0.200	94	0.191	J	0.200	96
Manganese	0.00312		0.00300	104	0.00299	J	0.00300	100	0.00307		0.00300	102
Nickel	ND		0.0100	94	0.00937	J	0.0100	94	0.00901	J	0.0100	90
Potassium	ND		0.500	99	0.482	J	0.500	96	0.477	J	0.500	95
Selenium	ND		0.0250	87	0.0232	J	0.0250	93	0.0247	J	0.0250	99
Silver	ND		0.00600	98	0.00485	J	0.00600	81	0.00604		0.00600	101
Sodium	ND		1.01	94	0.943	J	1.01	94	0.974	J	1.01	97
Thallium	ND		0.0200	99	0.0187	J	0.0200	93	0.0188	J	0.0200	94
Vanadium	ND		0.00500	98	0.00477	J	0.00500	95	0.00497	J	0.00500	99
Zinc	0.0101		0.0100	101	0.0101		0.0100	101	0.00978	J	0.0100	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEI_10_CCVL_00410 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00410

Analyte	CCVL 480-609447/35 12/17/2021 14:03											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Boron	0.0170	J	0.0200	85								
Aluminum	0.179	J	0.200	90								
Antimony	0.0182	J	0.0200	91								
Arsenic	0.0124	J	0.0150	83								
Barium	0.00208		0.00200	104								
Beryllium	0.00202		0.00200	101								
Cadmium	0.00212		0.00200	106								
Calcium	0.505		0.500	101								
Chromium	0.00430		0.00400	108								
Cobalt	0.00351	J	0.00400	88								
Copper	0.0100		0.0100	100								
Iron	0.0460	J	0.0500	92								
Lead	0.00862	J	0.0100	86								
Magnesium	0.192	J	0.200	96								
Manganese	0.00302		0.00300	101								
Nickel	0.00930	J	0.0100	93								
Potassium	0.419	J	0.500	84								
Selenium	0.0211	J	0.0250	84								
Silver	0.00559	J	0.00600	93								
Sodium	0.962	J	1.01	96								
Thallium	0.0188	J	0.0200	94								
Vanadium	0.00474	J	0.00500	95								
Zinc	0.0102		0.0100	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEI_MSS_ICV_00089 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00207

Analyte	ICV 480-610207/5 12/27/2021 11:49				CCV 480-610207/17 12/27/2021 15:35				CCV 480-610207/25 12/27/2021 16:20			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.728		0.750	97	0.971		1.00	97	0.981		1.00	98
Calcium	37.76		37.5	101	49.25		50.0	99	48.61		50.0	97
Iron	37.66		37.5	100	49.15		50.0	98	48.60		50.0	97
Lead	0.720		0.750	96	0.950		1.00	95	0.959		1.00	96
Magnesium	36.45		37.5	97	46.80		50.0	94	47.89		50.0	96
Manganese	0.725		0.750	97	0.950		1.00	95	0.979		1.00	98
Potassium	37.44		37.5	100	48.55		50.0	97	48.08		50.0	96
Sodium	36.87		37.5	98	48.14		50.0	96	48.74		50.0	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEI_MSS_ICV_00089 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00207

Analyte	CCV 480-610207/33 12/27/2021 17:04											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.989		1.00	99								
Calcium	48.72		50.0	97								
Iron	48.80		50.0	98								
Lead	0.946		1.00	95								
Magnesium	47.31		50.0	95								
Manganese	0.973		1.00	97								
Potassium	48.12		50.0	96								
Sodium	48.95		50.0	98								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEI_10_CCVL_00411 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00411

Analyte	ICVL 480-610207/7 12/27/2021 11:56				CCVL 480-610207/19 12/27/2021 15:43				CCVL 480-610207/27 12/27/2021 16:28			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.00203		0.00200	102	0.00199	J	0.00200	100	0.00193	J	0.00200	97
Calcium	ND		0.500	98	0.488	J	0.500	98	0.501		0.500	100
Iron	0.0502		0.0500	100	0.0500		0.0500	100	0.0486	J	0.0500	97
Lead	ND		0.0100	99	0.00988	J	0.0100	99	0.0106		0.0100	106
Magnesium	ND		0.200	94	0.184	J	0.200	92	0.180	J	0.200	90
Manganese	ND		0.00300	97	0.00289	J	0.00300	96	0.00288	J	0.00300	96
Potassium	0.534		0.500	107	0.373	J	0.500	75	0.350	J	0.500	70
Sodium	ND		1.01	95	0.958	J	1.01	95	0.946	J	1.01	94

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEI_10_CCVL_00411 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00411

Analyte	CCVL 480-610207/35 12/27/2021 17:12											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	0.00198	J	0.00200	99								
Calcium	0.500		0.500	100								
Iron	0.0476	J	0.0500	95								
Lead	0.00900	J	0.0100	90								
Magnesium	0.180	J	0.200	90								
Manganese	0.00296	J	0.00300	99								
Potassium	0.358	J	0.500	72								
Sodium	0.957	J	1.01	95								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEH_HG1_WKG_02732 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02732

Analyte	ICV 480-609227/7 12/16/2021 16:46				ICVL 480-609227/9 12/16/2021 16:49				CCV 480-609227/34 12/16/2021 17:22			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00315		0.00300	105	0.000210		0.000200	105	0.00211		0.00200	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEH_HG1_WKG_02732 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02732

Analyte	CCV 480-609227/46 12/16/2021 17:37				CCV 480-609227/58 12/16/2021 17:53				CCV 480-609227/70 12/16/2021 18:09			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00211		0.00200	106	0.00209		0.00200	105	0.00206		0.00200	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

ICV Source: MEH_HG1_WKG_02732 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02732

Analyte	CCVL 480-609227/89 12/16/2021 18:33											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.000200		0.000200	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	ICB 480-609279/6 12/16/2021 13:30		CCB 480-609279/18 12/16/2021 17:25		CCB 480-609279/22 12/16/2021 18:13		CCB 480-609279/34 12/16/2021 18:59	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Boron	0.020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	CCB 480-609279/46 12/16/2021 19:47							
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND							
Antimony	0.020	ND							
Arsenic	0.015	ND							
Barium	0.0020	ND							
Beryllium	0.0020	ND							
Boron	0.020	ND							
Cadmium	0.0020	ND							
Calcium	0.50	ND							
Chromium	0.0040	ND							
Cobalt	0.0040	ND							
Copper	0.010	ND							
Iron	0.050	ND							
Lead	0.010	ND							
Magnesium	0.20	ND							
Manganese	0.0030	ND							
Nickel	0.010	ND							
Potassium	0.50	ND							
Selenium	0.025	ND							
Silver	0.0060	ND							
Sodium	1.0	ND							
Thallium	0.020	ND							
Vanadium	0.0050	ND							
Zinc	0.010	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	ICB 480-609447/6 12/17/2021 11:40		CCB 480-609447/16 12/17/2021 12:18		CCB 480-609447/28 12/17/2021 13:15		CCB 480-609447/34 12/17/2021 14:00	
		Found	C	Found	C	Found	C	Found	C
Boron	0.020	ND		ND		ND		ND	
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	ICB 480-610207/6 12/27/2021 11:52		CCB 480-610207/18 12/27/2021 15:39		CCB 480-610207/26 12/27/2021 16:24		CCB 480-610207/34 12/27/2021 17:08	
		Found	C	Found	C	Found	C	Found	C
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	ICB 480-609227/8 12/16/2021 16:48		CCB 480-609227/35 12/16/2021 17:23		CCB 480-609227/47 12/16/2021 17:38		CCB 480-609227/59 12/16/2021 17:54	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Concentration Units: mg/L

Analyte	RL	CCB 480-609227/71 12/16/2021 18:10							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND							

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Concentration Units: mg/L Lab Sample ID: MB 480-609016/1-A

Instrument Code: ICAP1 Batch No.: 609279

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	ND			6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Concentration Units: mg/L Lab Sample ID: MB 480-609016/1-A

Instrument Code: ICAP2 Batch No.: 609447

CAS No.	Analyte	Concentration	C	Q	Method
7440-42-8	Boron	ND			6010C

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Concentration Units: mg/L Lab Sample ID: MB 480-609873/1-B

Instrument Code: ICAP2 Batch No.: 610207

CAS No.	Analyte	Concentration	C	Q	Method
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	ND			6010C
7440-09-7	Potassium	ND			6010C
7440-23-5	Sodium	ND			6010C

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Concentration Units: mg/L Lab Sample ID: MB 480-609144/1-A

Instrument Code: LEEMAN5 Batch No.: 609227

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab Sample ID: ICSA 480-609279/8 Instrument ID: ICAP1

Lab File ID: I1121621A-3.asc ICS Source: MEI_MSS_ICSA_00035

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**514**	**103**
Antimony		**0.0000**	
Arsenic		**-0.0101**	
Barium	**0.0120**	**0.0140**	
Beryllium		**0.0000**	
Boron		**-0.0001**	
Cadmium		**0.0006**	
Calcium	**500**	**485**	**97**
Chromium		**0.0011**	
Cobalt		**0.0000**	
Copper		**0.0004**	
Iron	**200**	**196**	**98**
Lead		**0.0047**	
Magnesium	**500**	**514**	**103**
Manganese		**-0.0010**	
Nickel		**0.0042**	
Potassium		**0.141**	
Selenium		**0.0134**	
Silver		**-0.0019**	
Sodium		**0.0599**	
Thallium		**-0.0001**	
Vanadium		**-0.0010**	
Zinc		**0.0028**	
Lithium		*0.0017*	
Molybdenum		*-0.0017*	
Silicon		*0.0037*	
Sulfur		*-0.214*	
Tin		*-0.0037*	
Titanium		*0.0021*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab Sample ID: ICSAB 480-609279/9 Instrument ID: ICAP1

Lab File ID: I1121621A-3.asc ICS Source: MEI_MSS_ICSAB_00030

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**497**	**99**
Antimony	**0.500**	**0.515**	**103**
Arsenic	**0.500**	**0.503**	**101**
Barium	**0.513**	**0.523**	**102**
Beryllium	**0.250**	**0.249**	**100**
Boron	**5.00**	**4.93**	**99**
Cadmium	**0.500**	**0.527**	**105**
Calcium	**500**	**468**	**94**
Chromium	**0.500**	**0.487**	**97**
Cobalt	**0.500**	**0.493**	**99**
Copper	**0.500**	**0.511**	**102**
Iron	**200**	**190**	**95**
Lead	**0.500**	**0.503**	**101**
Magnesium	**500**	**500**	**100**
Manganese	**0.501**	**0.484**	**97**
Nickel	**0.501**	**0.493**	**99**
Potassium	**5.00**	**5.30**	**106**
Selenium	**0.500**	**0.506**	**101**
Silver	**0.500**	**0.543**	**109**
Sodium	**5.00**	**5.17**	**103**
Thallium	**0.500**	**0.486**	**97**
Vanadium	**0.500**	**0.489**	**98**
Zinc	**0.501**	**0.465**	**93**
Lithium		*0.0003*	
Molybdenum	*0.500*	*0.497*	*99*
Silicon	*5.00*	*4.88*	*98*
Strontium	*0.500*	*0.504*	*101*
Sulfur		*-0.231*	
Tin	*0.500*	*0.491*	*98*
Titanium	*0.500*	*0.497*	*99*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab Sample ID: ICSA 480-609447/8 Instrument ID: ICAP2

Lab File ID: I2121721A-1.asc ICS Source: MEI_MSS_ICSA_00035

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Boron		**-0.0028**	
Aluminum	*500*	*514*	*103*
Antimony		*-0.0104*	
Arsenic		*-0.0062*	
Barium	*0.0120*	*0.0136*	
Beryllium		*-0.0001*	
Cadmium		*0.0004*	
Calcium	*500*	*487*	*97*
Chromium		*0.0010*	
Cobalt		*0.0000*	
Copper		*-0.0004*	
Iron	*200*	*193*	*97*
Lead		*-0.0024*	
Lithium		*0.0146*	
Magnesium	*500*	*531*	*106*
Manganese		*-0.0002*	
Molybdenum		*-0.0016*	
Nickel		*0.0003*	
Potassium		*0.228*	
Selenium		*0.0051*	
Silicon		*-0.0005*	
Silver		*-0.0018*	
Sodium		*0.0578*	
Sulfur		*-0.136*	
Thallium		*0.0004*	
Tin		*-0.0004*	
Titanium		*0.0031*	
Vanadium		*-0.0002*	
Zinc		*0.0040*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab Sample ID: ICSAB 480-609447/9 Instrument ID: ICAP2

Lab File ID: I2121721A-1.asc ICS Source: MEI_MSS_ICSAB_00030

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Boron	**5.00**	**4.94**	**99**
Aluminum	*500*	*505*	*101*
Antimony	*0.500*	*0.504*	*101*
Arsenic	*0.500*	*0.510*	*102*
Barium	*0.513*	*0.527*	*103*
Beryllium	*0.250*	*0.253*	*101*
Cadmium	*0.500*	*0.527*	*105*
Calcium	*500*	*480*	*96*
Chromium	*0.500*	*0.501*	*100*
Cobalt	*0.500*	*0.503*	*101*
Copper	*0.500*	*0.518*	*104*
Iron	*200*	*188*	*94*
Lead	*0.500*	*0.509*	*102*
Lithium		*0.0162*	
Magnesium	*500*	*512*	*102*
Manganese	*0.501*	*0.495*	*99*
Molybdenum	*0.500*	*0.502*	*100*
Nickel	*0.501*	*0.504*	*101*
Potassium	*5.00*	*5.21*	*104*
Selenium	*0.500*	*0.499*	*100*
Silicon	*5.00*	*4.89*	*98*
Silver	*0.500*	*0.543*	*109*
Sodium	*5.00*	*5.11*	*102*
Strontium	*0.500*	*0.506*	*101*
Sulfur		*-0.133*	
Thallium	*0.500*	*0.503*	*101*
Tin	*0.500*	*0.507*	*101*
Titanium	*0.500*	*0.513*	*103*
Vanadium	*0.500*	*0.506*	*101*
Zinc	*0.501*	*0.475*	*95*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab Sample ID: ICSA 480-610207/8 Instrument ID: ICAP2

Lab File ID: I2122721B-5.asc ICS Source: MEI_MSS_ICSA_00035

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Cadmium		**0.0013**	
Calcium	**500**	**500**	**100**
Iron	**200**	**200**	**100**
Lead		**-0.0041**	
Magnesium	**500**	**544**	**109**
Manganese		**-0.0004**	
Potassium		**0.252**	
Sodium		**0.0807**	
Aluminum	*500*	*527*	*105*
Antimony		*-0.0089*	
Arsenic		*-0.0135*	
Barium	*0.0120*	*0.0140*	
Beryllium		*0.0000*	
Boron		*-0.0058*	
Chromium		*0.0015*	
Cobalt		*0.0003*	
Copper		*0.0024*	
Lithium		*0.0192*	
Molybdenum		*-0.0010*	
Nickel		*-0.0001*	
Selenium		*0.0115*	
Silicon		*0.0088*	
Silver		*0.0015*	
Sulfur		*-0.133*	
Thallium		*-0.0004*	
Tin		*0.0002*	
Titanium		*0.0027*	
Vanadium		*-0.0018*	
Zinc		*0.0027*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Lab Sample ID: ICSAB 480-610207/9 Instrument ID: ICAP2

Lab File ID: I2122721B-5.asc ICS Source: MEI_MSS_ICSAB_00031

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Cadmium	**0.500**	**0.506**	**101**
Calcium	**500**	**465**	**93**
Iron	**200**	**184**	**92**
Lead	**0.500**	**0.482**	**96**
Magnesium	**500**	**494**	**99**
Manganese	**0.501**	**0.475**	**95**
Potassium	**5.00**	**5.14**	**103**
Sodium	**5.00**	**4.95**	**99**
Aluminum	*500*	*491*	*98*
Antimony	*0.500*	*0.489*	*98*
Arsenic	*0.500*	*0.486*	*97*
Barium	*0.513*	*0.506*	*99*
Beryllium	*0.250*	*0.247*	*99*
Boron	*5.00*	*4.73*	*95*
Chromium	*0.500*	*0.488*	*98*
Cobalt	*0.500*	*0.479*	*96*
Copper	*0.500*	*0.496*	*99*
Lithium		*0.0208*	
Molybdenum	*0.500*	*0.483*	*97*
Nickel	*0.501*	*0.478*	*96*
Selenium	*0.500*	*0.476*	*95*
Silicon	*5.00*	*4.98*	*100*
Silver	*0.500*	*0.517*	*103*
Strontium	*0.500*	*0.486*	*97*
Sulfur		*-0.138*	
Thallium	*0.500*	*0.482*	*96*
Tin	*0.500*	*0.485*	*97*
Titanium	*0.500*	*0.496*	*99*
Vanadium	*0.500*	*0.490*	*98*
Zinc	*0.501*	*0.464*	*93*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-3B MS | Lab ID: 480-193436-3 MS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-193436-1

SDG No.: 193337

Matrix: Water | Concentration Units: mg/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	10.03		ND		10.0	99	75-125		6010C
Antimony	0.214		ND		0.200	107	75-125		6010C
Arsenic	0.208		ND		0.200	104	75-125		6010C
Barium	0.404		0.20		0.200	104	75-125		6010C
Beryllium	0.211		ND		0.200	105	75-125		6010C
Boron	0.241		0.030		0.200	105	75-125		6010C
Cadmium	0.204		ND		0.200	102	75-125		6010C
Calcium	57.36		47.2		10.0	102	75-125	4	6010C
Chromium	0.199		ND		0.200	99	75-125		6010C
Cobalt	0.195		ND		0.200	97	75-125		6010C
Copper	0.196		ND		0.200	98	75-125		6010C
Iron	10.29		0.13		10.0	102	75-125		6010C
Lead	0.201		ND		0.200	101	75-125		6010C
Magnesium	23.97		13.7		10.0	103	75-125		6010C
Manganese	0.227		0.022		0.200	102	75-125		6010C
Nickel	0.194		ND		0.200	97	75-125		6010C
Potassium	11.10		1.1		10.0	100	75-125		6010C
Selenium	0.198		ND		0.200	99	75-125		6010C
Silver	0.0505		ND		0.0500	101	75-125		6010C
Sodium	17.75		8.0		10.0	98	75-125		6010C
Thallium	0.208		ND		0.200	104	75-125		6010C
Vanadium	0.201		ND		0.200	100	75-125		6010C
Zinc	0.207		ND		0.200	102	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-4A MS
Lab ID: 480-193436-4 MS
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG No.: 193337
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.00687		ND		0.00667	103	80-120		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MW-3B MSD
Lab ID: 480-193436-3 MSD
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG No.: 193337
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	10.23		10.0	101	75-125	2	20		6010C
Antimony	0.219		0.200	109	75-125	2	20		6010C
Arsenic	0.211		0.200	105	75-125	1	20		6010C
Barium	0.406		0.200	105	75-125	1	20		6010C
Beryllium	0.213		0.200	107	75-125	1	20		6010C
Boron	0.244		0.200	107	75-125	1	20		6010C
Cadmium	0.207		0.200	103	75-125	2	20		6010C
Calcium	57.97		10.0	108	75-125	1	20	4	6010C
Chromium	0.201		0.200	100	75-125	1	20		6010C
Cobalt	0.197		0.200	98	75-125	1	20		6010C
Copper	0.200		0.200	100	75-125	2	20		6010C
Iron	10.34		10.0	102	75-125	1	20		6010C
Lead	0.205		0.200	102	75-125	2	20		6010C
Magnesium	24.29		10.0	106	75-125	1	20		6010C
Manganese	0.229		0.200	103	75-125	1	20		6010C
Nickel	0.196		0.200	98	75-125	1	20		6010C
Potassium	11.22		10.0	101	75-125	1	20		6010C
Selenium	0.199		0.200	100	75-125	1	20		6010C
Silver	0.0510		0.0500	102	75-125	1	20		6010C
Sodium	18.05		10.0	101	75-125	2	20		6010C
Thallium	0.208		0.200	104	75-125	0	20		6010C
Vanadium	0.203		0.200	101	75-125	1	20		6010C
Zinc	0.209		0.200	103	75-125	1	20		6010C

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MW-4A MSD
Lab ID: 480-193436-4 MSD
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG No.: 193337
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.00678		0.00667	102	80-120	1	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-3B PDS | Lab ID: 480-193436-3 PDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-193436-1

SDG No.: 193337

Matrix: Water | Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	10.06		ND		10.0	100	80-120		6010C
Antimony	0.220		ND		0.200	110	80-120		6010C
Arsenic	0.214		ND		0.200	107	80-120		6010C
Barium	0.394		0.20		0.200	99	80-120		6010C
Beryllium	0.217		ND		0.200	109	80-120		6010C
Boron	0.242		0.030		0.200	106	80-120		6010C
Cadmium	0.211		ND		0.200	105	80-120		6010C
Calcium	55.81		47.2		10.0	86	80-120		6010C
Chromium	0.205		ND		0.200	103	80-120		6010C
Cobalt	0.201		ND		0.200	101	80-120		6010C
Copper	0.204		ND		0.200	102	80-120		6010C
Iron	10.58		0.13		10.0	105	80-120		6010C
Lead	0.208		ND		0.200	104	80-120		6010C
Magnesium	23.87		13.7		10.0	102	80-120		6010C
Manganese	0.234		0.022		0.200	106	80-120		6010C
Nickel	0.201		ND		0.200	101	80-120		6010C
Potassium	11.10		1.1		10.0	100	80-120		6010C
Selenium	0.201		ND		0.200	101	80-120		6010C
Silver	0.0500		ND		0.0500	100	80-120		6010C
Sodium	17.46		8.0		10.0	95	80-120		6010C
Thallium	0.215		ND		0.200	107	80-120		6010C
Vanadium	0.207		ND		0.200	104	80-120		6010C
Zinc	0.215		ND		0.200	106	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-609016/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

Sample Matrix: Water LCS Source: MED_02_W2_00067

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10.0	9.84		98	80	120		6010C
Antimony	0.200	0.215		108	80	120		6010C
Arsenic	0.200	0.208		104	80	120		6010C
Barium	0.200	0.211		105	80	120		6010C
Beryllium	0.200	0.209		104	80	120		6010C
Cadmium	0.200	0.202		101	80	120		6010C
Calcium	10.0	10.05		101	80	120		6010C
Chromium	0.200	0.199		99	80	120		6010C
Cobalt	0.200	0.193		96	80	120		6010C
Copper	0.200	0.196		98	80	120		6010C
Iron	10.0	10.17		102	80	120		6010C
Lead	0.200	0.199		100	80	120		6010C
Magnesium	10.0	10.23		102	80	120		6010C
Manganese	0.200	0.206		103	80	120		6010C
Nickel	0.200	0.193		97	80	120		6010C
Potassium	10.0	9.92		99	80	120		6010C
Selenium	0.200	0.194		97	80	120		6010C
Silver	0.0500	0.0481		96	80	120		6010C
Sodium	10.0	9.71		97	80	120		6010C
Thallium	0.200	0.204		102	80	120		6010C
Vanadium	0.200	0.200		100	80	120		6010C
Zinc	0.200	0.206		103	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-609016/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

Sample Matrix: Water LCS Source: MED_02_W2_00067

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Boron	0.200	0.205		102	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-609873/2-B

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

Sample Matrix: Water LCS Source: MED_01_W1_00069

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Cadmium	0.200	0.193		96	80	120		6010C
Calcium	10.0	9.62		96	80	120		6010C
Iron	10.0	9.76		98	80	120		6010C
Lead	0.200	0.191		96	80	120		6010C
Magnesium	10.0	9.57		96	80	120		6010C
Manganese	0.200	0.195		97	80	120		6010C
Potassium	10.0	9.32		93	80	120		6010C
Sodium	10.0	9.31		93	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-609144/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_02732

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00650		97	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-193436-3

SDG No: 193337

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193436-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	ND		ND		NC		6010C
Antimony	ND		ND		NC		6010C
Arsenic	ND		ND		NC		6010C
Barium	0.20		0.195		0.02		6010C
Beryllium	ND		ND		NC		6010C
Boron	0.030		ND		NC		6010C
Cadmium	ND		ND		NC		6010C
Calcium	47.2		47.43		0.53		6010C
Chromium	ND		ND		NC		6010C
Cobalt	ND		ND		NC		6010C
Copper	ND		ND		NC		6010C
Iron	0.13		ND		NC		6010C
Lead	ND		ND		NC		6010C
Magnesium	13.7		13.64		0.21		6010C
Manganese	0.022		0.0229		1.7		6010C
Nickel	ND		ND		NC		6010C
Potassium	1.1		ND		NC		6010C
Selenium	ND		ND		NC		6010C
Silver	ND		ND		NC		6010C
Sodium	8.0		8.00		NC		6010C
Thallium	ND		ND		NC		6010C
Vanadium	ND		ND		NC		6010C
Zinc	ND		ND		NC		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-193436-4

SDG No: 193337

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193436-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	ND		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: ICAP1

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: ICAP1

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Boron	208.959	0.02	0.004
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: ICAP2

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Boron	208.959	0.02	0.004

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Boron	208.959	0.02	0.004

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: ICAP2

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Potassium	766.490	0.5	0.1
Sodium	589.592	1	0.324

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Potassium	766.490	0.5	0.1
Sodium	589.592	1	0.324

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A MDL Date: 06/21/2021 17:21

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A XMDL Date: 06/21/2021 17:23

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2340B MDL Date: 08/28/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Hardness as calcium carbonate		0.5	0.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2340B XMDL Date: 08/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Hardness as calcium carbonate		0.5	0.1

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Ce	Co	Cr	Cu	Fe	K
Aluminum	308.215														
Antimony	206.833											0.005976		0.000013	
Arsenic	189.042		-0.00003300									-0.011195			
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802			0.003343										0.000001	
Calcium	317.933														
Chromium	267.716		0.000013											-0.000007	
Cobalt	228.616														
Copper	327.396							0.000008							
Iron	259.940														
Lead	220.353		-0.000031										0.000143	0.000041	
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610		0.000006											0.000003	
Molybdenum	202.030														
Nickel	231.604													0.000010	
Potassium	766.490														
Selenium	196.090		-0.000019												
Silicon	288.158														
Silver	328.068									-0.006683					
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856										0.004598				
Tin	189.989														
Titanium	334.904														
Vanadium	292.402													0.00002	

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Ce	Co	Cr	Cu	Fe	K
Zinc	206.200											-0.001456			

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														-0.001025
Boron	208.959				0.002541										
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716			0.000064											
Cobalt	228.616				-0.001081										0.001734
Copper	327.396														
Iron	259.940														
Lead	220.353				-0.001520							0.000018			
Lithium	670.784														
Magnesium	279.079			-0.003583											
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090			0.000315											
Silicon	288.158														
Silver	328.068			0.000072											
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856			0.000597											
Tin	189.989														
Titanium	334.904				.01185109										
Vanadium	292.402				0.012980										0.000492
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Tl	V	Zn											
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	327.396														
Iron	259.940														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856		0.002141												
Tin	189.989														
Titanium	334.904														
Vanadium	292.402														
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP2 Date: 03/12/2020

Analyte	Wave Length	Al	As	B	Ca	Ce	Co	Cr	Cu	Fe	Mg	Mn	Mo	S	Si
Aluminum	308.215														
Antimony	206.833	-0.000007						0.010493		-0.000007					
Arsenic	189.042							-0.003		-0.000017					
Barium	455.403														
Beryllium	313.042														
Boron	208.959												0.031758		
Cadmium	228.802		0.003547							-0.000007					
Calcium	317.933														
Chromium	267.716	-0.000004								-0.000004		0.000150			
Cobalt	228.616	0.000012											0.000776		
Copper	327.396				0.000024										
Iron	259.940														
Lead	220.353	-0.000057							0.000881	0.000029			-0.001918		0.003267
Lithium	670.784				0.00009										
Magnesium	279.079											-0.003351			
Manganese	257.610	0.000005								0.000003					
Molybdenum	202.030														
Nickel	231.604									0.000020					
Potassium	766.490														
Selenium	196.090									0.000015		0.000390			
Silicon	288.158														
Silver	328.068					-0.003915				-0.000005		0.000025			
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856						0.003145					0.000390165			
Tin	189.989														
Titanium	334.904												0.000971565		

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP2 Date: 03/12/2020

Analyte	Wave Length	Al	As	B	Ca	Ce	Co	Cr	Cu	Fe	Mg	Mn	Mo	S	Si
Vanadium	292.402									0.000035917			-0.010240		
Zinc	206.200							-0.001388							

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG No.: 193337

ICP-AES Instrument ID: ICAP2 Date: 03/12/2020

Analyte	Wave Length	Ti	V	Zn											
Aluminum	308.215		0.296448												
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616	0.002076													
Copper	327.396	-0.001581													
Iron	259.940														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856		-0.0062377	0.000229											
Tin	189.989														
Titanium	334.904														
Vanadium	292.402	0.000388													
Zinc	206.200														

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193436-1

SDG No.: 193337

Instrument ID: ICAP1 Date: 08/01/2019 09:58

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	600	6010C
Antimony	15	10	6010C
Arsenic	15	5	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Boron	15	20	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	10	6010C
Cobalt	15	20	6010C
Copper	15	25	6010C
Iron	15	600	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	10	6010C
Potassium	15	600	6010C
Selenium	15	60	6010C
Silver	15	3	6010C
Sodium	15	1000	6010C
Thallium	15	20	6010C
Vanadium	15	5	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193436-1

SDG No.: 193337

Instrument ID: ICAP2 Date: 08/01/2019 10:00

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Iron	15	600	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Boron	15	20	6010C
Manganese	15	50	6010C
Potassium	15	600	6010C
Sodium	15	1000	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193436-1

SDG No.: 193337

Instrument ID: LEEMAN5 Date: 10/09/2018 16:19

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	20	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-609016/1-A	12/16/2021 08:40	609016		50	50
LCS 480-609016/2-A	12/16/2021 08:40	609016		50	50
480-193436-2	12/16/2021 08:40	609016		50	50
480-193436-3	12/16/2021 08:40	609016		50	50
480-193436-3 MS	12/16/2021 08:40	609016		50	50
480-193436-3 MSD	12/16/2021 08:40	609016		50	50
480-193436-4	12/16/2021 08:40	609016		50	50
480-193436-5	12/16/2021 08:40	609016		50	50
480-193436-6	12/16/2021 08:40	609016		50	50
480-193436-7	12/16/2021 08:40	609016		50	50
480-193436-8	12/16/2021 08:40	609016		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-609873/1-B	12/27/2021 08:36	610008		50	50
LCS 480-609873/2-B	12/27/2021 08:36	610008		50	50
480-193436-6	12/27/2021 08:36	610008		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-609144/1-A	12/16/2021 13:46	609144		30	50
LCS 480-609144/2-A	12/16/2021 13:46	609144		30	50
480-193436-2	12/16/2021 13:46	609144		30	50
480-193436-3	12/16/2021 13:46	609144		30	50
480-193436-4	12/16/2021 13:46	609144		30	50
480-193436-4 MS	12/16/2021 13:46	609144		30	50
480-193436-4 MSD	12/16/2021 13:46	609144		30	50
480-193436-5	12/16/2021 13:46	609144		30	50
480-193436-6	12/16/2021 13:46	609144		30	50
480-193436-7	12/16/2021 13:46	609144		30	50
480-193436-8	12/16/2021 13:46	609144		30	50

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: ICAP1 Method: 6010C

Start Date: 12/16/2021 13:11 End Date: 12/16/2021 20:39

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se
ICIS 480-609279/1	1		13:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-609279/2			13:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-609279/3			13:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-609279/4			13:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-609279/5	1		13:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-609279/6	1		13:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-609279/7	1		13:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-609279/8	1		13:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-609279/9	1		13:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			13:45																				
ZZZZZZ			13:49																				
ZZZZZZ			13:53																				
ZZZZZZ			13:57																				
ZZZZZZ			14:01																				
CCV 480-609279/15			14:05																				
CCB 480-609279/16			14:09																				
CCV 480-609279/17	1		17:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609279/18	1		17:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609279/19	1		17:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-609016/1-A	1	T	18:05	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-609279/21	1		18:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609279/22	1		18:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609279/23	1		18:17	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 480-609016/2-A	1	T	18:20	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193436-2	1	T	18:24	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193436-3	1	T	18:28	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193436-3 SD	5	T	18:32	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193436-3 PDS	1	T	18:36	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193436-3 MS	1	T	18:40	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193436-3 MSD	1	T	18:44	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193436-4	1	T	18:47	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193436-5	1	T	18:51	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-609279/33	1		18:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609279/34	1		18:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609279/35	1		19:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193436-6	1	T	19:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193436-7	1	T	19:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-193436-8	1	T	19:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			19:19																				
ZZZZZZ			19:23																				
ZZZZZZ			19:27																				
ZZZZZZ			19:31																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: ICAP1 Method: 6010C

Start Date: 12/16/2021 13:11 End Date: 12/16/2021 20:39

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se
ZZZZZZ			19:35																				
ZZZZZZ			19:39																				
CCV 480-609279/45	1		19:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-609279/46	1		19:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-609279/47	1		19:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			19:55																				
ZZZZZZ			19:59																				
ZZZZZZ			20:03																				
ZZZZZZ			20:07																				
ZZZZZZ			20:11																				
ZZZZZZ			20:15																				
ZZZZZZ			20:19																				
CCV 480-609279/55			20:31																				
CCB 480-609279/56			20:35																				
CCVL 480-609279/57			20:39																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: ICAP1 Method: 6010C

Start Date: 12/16/2021 13:11 End Date: 12/16/2021 20:39

Lab Sample ID	D/F	Type	Time	Analytes																			
				Tl	V	Zn																	
ICIS 480-609279/1	1		13:11	X	X	X																	
IC 480-609279/2			13:15	X	X	X																	
IC 480-609279/3			13:19	X	X	X																	
IC 480-609279/4			13:22	X	X	X																	
ICV 480-609279/5	1		13:26	X	X	X																	
ICB 480-609279/6	1		13:30	X	X	X																	
ICVL 480-609279/7	1		13:34	X	X	X																	
ICSA 480-609279/8	1		13:37	X	X	X																	
ICSAB 480-609279/9	1		13:41	X	X	X																	
ZZZZZZ			13:45																				
ZZZZZZ			13:49																				
ZZZZZZ			13:53																				
ZZZZZZ			13:57																				
ZZZZZZ			14:01																				
CCV 480-609279/15			14:05																				
CCB 480-609279/16			14:09																				
CCV 480-609279/17	1		17:21	X	X	X																	
CCB 480-609279/18	1		17:25	X	X	X																	
CCVL 480-609279/19	1		17:29	X	X	X																	
MB 480-609016/1-A	1	T	18:05	X	X	X																	
CCV 480-609279/21	1		18:09	X	X	X																	
CCB 480-609279/22	1		18:13	X	X	X																	
CCVL 480-609279/23	1		18:17	X	X	X																	
LCS 480-609016/2-A	1	T	18:20	X	X	X																	
480-193436-2	1	T	18:24	X	X	X																	
480-193436-3	1	T	18:28	X	X	X																	
480-193436-3 SD	5	T	18:32	X	X	X																	
480-193436-3 PDS	1	T	18:36	X	X	X																	
480-193436-3 MS	1	T	18:40	X	X	X																	
480-193436-3 MSD	1	T	18:44	X	X	X																	
480-193436-4	1	T	18:47	X	X	X																	
480-193436-5	1	T	18:51	X	X	X																	
CCV 480-609279/33	1		18:55	X	X	X																	
CCB 480-609279/34	1		18:59	X	X	X																	
CCVL 480-609279/35	1		19:03	X	X	X																	
480-193436-6	1	T	19:07	X	X	X																	
480-193436-7	1	T	19:11	X	X	X																	
480-193436-8	1	T	19:15	X	X	X																	
ZZZZZZ			19:19																				
ZZZZZZ			19:23																				
ZZZZZZ			19:27																				
ZZZZZZ			19:31																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: ICAP1 Method: 6010C

Start Date: 12/16/2021 13:11 End Date: 12/16/2021 20:39

Lab Sample ID	D / F	Type	Time	Analytes																				
				Tl	V	Zn																		
ZZZZZZ			19:35																					
ZZZZZZ			19:39																					
CCV 480-609279/45	1		19:43	X	X	X																		
CCB 480-609279/46	1		19:47	X	X	X																		
CCVL 480-609279/47	1		19:51	X	X	X																		
ZZZZZZ			19:55																					
ZZZZZZ			19:59																					
ZZZZZZ			20:03																					
ZZZZZZ			20:07																					
ZZZZZZ			20:11																					
ZZZZZZ			20:15																					
ZZZZZZ			20:19																					
CCV 480-609279/55			20:31																					
CCB 480-609279/56			20:35																					
CCVL 480-609279/57			20:39																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: ICAP2 Method: 6010C

Start Date: 12/17/2021 11:21 End Date: 12/17/2021 14:48

Lab Sample ID	D / F	Type	Time	Analytes																			
				B																			
ICIS 480-609447/1	1		11:21	X																			
IC 480-609447/2			11:25	X																			
IC 480-609447/3			11:29	X																			
IC 480-609447/4			11:33	X																			
ICV 480-609447/5	1		11:36	X																			
ICB 480-609447/6	1		11:40	X																			
ICVL 480-609447/7	1		11:44	X																			
ICSA 480-609447/8	1		11:47	X																			
ICSAB 480-609447/9	1		11:51	X																			
ZZZZZZ			11:55																				
ZZZZZZ			11:59																				
ZZZZZZ			12:03																				
ZZZZZZ			12:07																				
ZZZZZZ			12:10																				
CCV 480-609447/15	1		12:14	X																			
CCB 480-609447/16	1		12:18	X																			
CCVL 480-609447/17	1		12:34	X																			
MB 480-609016/1-A	1	T	12:38	X																			
LCS 480-609016/2-A	1	T	12:42	X																			
480-193436-2	1	T	12:45	X																			
480-193436-3	1	T	12:49	X																			
480-193436-3 SD	5	T	12:53	X																			
480-193436-3 PDS	1	T	12:56	X																			
480-193436-3 MS	1	T	13:00	X																			
480-193436-3 MSD	1	T	13:04	X																			
480-193436-4	1	T	13:07	X																			
CCV 480-609447/27	1		13:11	X																			
CCB 480-609447/28	1		13:15	X																			
CCVL 480-609447/29	1		13:18	X																			
480-193436-5	1	T	13:22	X																			
ZZZZZZ			13:26																				
ZZZZZZ			13:30																				
CCV 480-609447/33	1		13:56	X																			
CCB 480-609447/34	1		14:00	X																			
CCVL 480-609447/35	1		14:03	X																			
CCVL 480-609447/36			14:48																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: ICAP2 Method: 6010C

Start Date: 12/27/2021 11:34 End Date: 12/27/2021 17:12

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ca	Cd	Fe	K	Mg	Mn	Na	Pb												
ICIS 480-610207/1	1		11:34	X	X	X	X	X	X	X	X												
IC 480-610207/2			11:38	X	X	X	X	X	X	X	X												
IC 480-610207/3			11:42	X	X	X	X	X	X	X	X												
IC 480-610207/4			11:45	X	X	X	X	X	X	X	X												
ICV 480-610207/5	1		11:49	X	X	X	X	X	X	X	X												
ICB 480-610207/6	1		11:52	X	X	X	X	X	X	X	X												
ICVL 480-610207/7	1		11:56	X	X	X	X	X	X	X	X												
ICSA 480-610207/8	1		12:00	X	X	X	X	X	X	X	X												
ICSAB 480-610207/9	1		12:04	X	X	X	X	X	X	X	X												
ZZZZZZ			12:08																				
ZZZZZZ			12:11																				
ZZZZZZ			12:15																				
ZZZZZZ			12:19																				
ZZZZZZ			12:23																				
CCV 480-610207/15			12:27																				
CCB 480-610207/16			12:30																				
CCV 480-610207/17	1		15:35	X	X	X	X	X	X	X	X												
CCB 480-610207/18	1		15:39	X	X	X	X	X	X	X	X												
CCVL 480-610207/19	1		15:43	X	X	X	X	X	X	X	X												
MB 480-609873/1-B	1	D	16:02	X	X	X	X	X	X	X	X												
LCS 480-609873/2-B	1	D	16:05	X	X	X	X	X	X	X	X												
480-193436-6	1	D	16:09	X	X	X	X	X	X	X	X												
ZZZZZZ			16:13																				
ZZZZZZ			16:16																				
CCV 480-610207/25	1		16:20	X	X	X	X	X	X	X	X												
CCB 480-610207/26	1		16:24	X	X	X	X	X	X	X	X												
CCVL 480-610207/27	1		16:28	X	X	X	X	X	X	X	X												
ZZZZZZ			16:31																				
ZZZZZZ			16:35																				
ZZZZZZ			16:39																				
ZZZZZZ			16:42																				
ZZZZZZ			16:46																				
CCV 480-610207/33	1		17:04	X	X	X	X	X	X	X	X												
CCB 480-610207/34	1		17:08	X	X	X	X	X	X	X	X												
CCVL 480-610207/35	1		17:12	X	X	X	X	X	X	X	X												

Prep Types

D = Dissolved

ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 12/16/2021 16:38 End Date: 12/16/2021 18:33

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
IC 480-609221/1-A			16:38	X																			
IC 480-609221/2-A			16:40	X																			
IC 480-609221/3-A			16:41	X																			
IC 480-609221/4-A			16:42	X																			
IC 480-609221/5-A			16:44	X																			
IC 480-609221/6-A			16:45	X																			
ICV 480-609227/7	1		16:46	X																			
ICB 480-609227/8	1		16:48	X																			
ICVL 480-609227/9	1		16:49	X																			
CCV 480-609227/10			16:50																				
CCB 480-609227/11			16:52																				
ZZZZZZ			16:53																				
ZZZZZZ			16:54																				
ZZZZZZ			16:55																				
ZZZZZZ			16:57																				
ZZZZZZ			16:58																				
ZZZZZZ			16:59																				
ZZZZZZ			17:01																				
ZZZZZZ			17:02																				
ZZZZZZ			17:03																				
ZZZZZZ			17:05																				
CCV 480-609227/22			17:06																				
CCB 480-609227/23			17:07																				
ZZZZZZ			17:09																				
ZZZZZZ			17:10																				
ZZZZZZ			17:11																				
ZZZZZZ			17:12																				
ZZZZZZ			17:14																				
ZZZZZZ			17:15																				
ZZZZZZ			17:16																				
ZZZZZZ			17:18																				
ZZZZZZ			17:19																				
ZZZZZZ			17:20																				
CCV 480-609227/34	1		17:22	X																			
CCB 480-609227/35	1		17:23	X																			
ZZZZZZ			17:24																				
ZZZZZZ			17:25																				
ZZZZZZ			17:27																				
ZZZZZZ			17:28																				
ZZZZZZ			17:29																				
MB 480-609144/1-A	1	T	17:31	X																			
LCS 480-609144/2-A	1	T	17:32	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 12/16/2021 16:38 End Date: 12/16/2021 18:33

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			17:33																				
ZZZZZZ			17:35																				
ZZZZZZ			17:36																				
CCV 480-609227/46	1		17:37	X																			
CCB 480-609227/47	1		17:38	X																			
ZZZZZZ			17:40																				
ZZZZZZ			17:41																				
480-193436-2	1	T	17:42	X																			
480-193436-3	1	T	17:44	X																			
480-193436-4	1	T	17:45	X																			
480-193436-4 SD	5	T	17:46	X																			
480-193436-4 MS	1	T	17:48	X																			
480-193436-4 MSD	1	T	17:49	X																			
480-193436-5	1	T	17:50	X																			
480-193436-6	1	T	17:52	X																			
CCV 480-609227/58	1		17:53	X																			
CCB 480-609227/59	1		17:54	X																			
480-193436-7	1	T	17:55	X																			
480-193436-8	1	T	17:57	X																			
ZZZZZZ			17:58																				
ZZZZZZ			17:59																				
ZZZZZZ			18:01																				
ZZZZZZ			18:02																				
ZZZZZZ			18:03																				
ZZZZZZ			18:05																				
ZZZZZZ			18:06																				
ZZZZZZ			18:07																				
CCV 480-609227/70	1		18:09	X																			
CCB 480-609227/71	1		18:10	X																			
ZZZZZZ			18:11																				
ZZZZZZ			18:12																				
ZZZZZZ			18:14																				
ZZZZZZ			18:15																				
ZZZZZZ			18:16																				
ZZZZZZ			18:18																				
ZZZZZZ			18:19																				
ZZZZZZ			18:20																				
ZZZZZZ			18:22																				
ZZZZZZ			18:23																				
CCV 480-609227/82			18:24																				
CCB 480-609227/83			18:25																				
ZZZZZZ			18:27																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 12/16/2021 16:38 End Date: 12/16/2021 18:33

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			18:28																				
ZZZZZZ			18:29																				
CCV 480-609227/87			18:31																				
CCB 480-609227/88			18:32																				
CCVL 480-609227/89	1		18:33	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: NOEQUIP Method: SM 2340B

Start Date: 12/27/2021 09:21 End Date: 12/27/2021 09:21

Lab Sample ID	D / F	Type	Time	Analytes																			
				HardCC																			
480-193436-2	1	T	09:21	X																			
480-193436-3	1	T	09:21	X																			
480-193436-4	1	T	09:21	X																			
480-193436-5	1	T	09:21	X																			
480-193436-6	1	T	09:21	X																			
480-193436-7	1	T	09:21	X																			
480-193436-8	1	T	09:21	X																			

Prep Types

T = Total/NA

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337 Analysis Batch No.: 609279

ICP Instrument ID: ICAP1 Start Date: 12/16/2021 End Date: 12/16/2021

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-609279/1	13:11										
ICV 480-609279/5	13:26	88		97		95		100			
ICB 480-609279/6	13:30	100		99		100		100			
ICVL 480-609279/7	13:34	100		99		100		100			
ICSA 480-609279/8	13:37	73		86		85		96			
ICSAB 480-609279/9	13:41	73		87		85		96			
CCV 480-609279/17	17:21	86		94		93		97			
CCB 480-609279/18	17:25	100		98		100		99			
CCVL 480-609279/19	17:29	99		99		100		99			
MB 480-609016/1-A	18:05	99		98		99		99			
CCV 480-609279/21	18:09	86		95		93		96			
CCB 480-609279/22	18:13	100		98		100		97			
CCVL 480-609279/23	18:17	99		98		100		99			
LCS 480-609016/2-A	18:20	93		97		98		99			
480-193436-2	18:24	96		97		99		100			
480-193436-3	18:28	93		95		96		98			
480-193436-3 SD	18:32	98		97		99		98			
480-193436-3 PDS	18:36	90		95		95		98			
480-193436-3 MS	18:40	90		95		95		98			
480-193436-3 MSD	18:44	89		94		95		98			
480-193436-4	18:47	88		92		93		97			
480-193436-5	18:51	93		95		96		99			
CCV 480-609279/33	18:55	86		95		93		97			
CCB 480-609279/34	18:59	99		99		99		98			
CCVL 480-609279/35	19:03	99		98		100		97			
480-193436-6	19:07	90		95		96		99			
480-193436-7	19:11	92		95		96		98			
480-193436-8	19:15	90		93		95		98			
CCV 480-609279/45	19:43	86		96		93		97			
CCB 480-609279/46	19:47	100		99		99		97			
CCVL 480-609279/47	19:51	99		98		99		97			

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337 Analysis Batch No.: 609447

ICP Instrument ID: ICAP2 Start Date: 12/17/2021 End Date: 12/17/2021

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-609447/1	11:21										
ICV 480-609447/5	11:36	88		96		94		99			
ICB 480-609447/6	11:40	100		99		100		100			
ICVL 480-609447/7	11:44	100		100		100		102			
ICSA 480-609447/8	11:47	73		88		84		97			
ICSAB 480-609447/9	11:51	73		87		85		96			
CCV 480-609447/15	12:14	87		95		93		97			
CCB 480-609447/16	12:18	101		99		100		100			
CCVL 480-609447/17	12:34	101		99		100		101			
MB 480-609016/1-A	12:38	102		100		101		102			
LCS 480-609016/2-A	12:42	96		99		98		102			
480-193436-2	12:45	98		98		100		101			
480-193436-3	12:49	95		98		98		101			
480-193436-3 SD	12:53	99		99		100		101			
480-193436-3 PDS	12:56	93		98		98		103			
480-193436-3 MS	13:00	92		97		97		103			
480-193436-3 MSD	13:04	92		97		97		100			
480-193436-4	13:07	91		95		95		100			
CCV 480-609447/27	13:11	87		95		94		99			
CCB 480-609447/28	13:15	101		100		100		102			
CCVL 480-609447/29	13:18	100		99		99		100			
480-193436-5	13:22	96		98		98		101			
CCV 480-609447/33	13:56	87		95		94		99			
CCB 480-609447/34	14:00	101		98		99		99			
CCVL 480-609447/35	14:03	101		99		100		101			

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337 Analysis Batch No.: 610207

ICP Instrument ID: ICAP2 Start Date: 12/27/2021 End Date: 12/27/2021

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-610207/1	11:34										
ICV 480-610207/5	11:49	88		98		96		99			
ICB 480-610207/6	11:52	100		99		100		99			
ICVL 480-610207/7	11:56	101		101		101		101			
ICSA 480-610207/8	12:00	74		89		86		100			
ICSAB 480-610207/9	12:04	74		88		85		97			
CCV 480-610207/17	15:35	86		95		94		99			
CCB 480-610207/18	15:39	99		98		99		100			
CCVL 480-610207/19	15:43	99		98		100		101			
MB 480-609873/1-B	16:02	101		100		101		104			
LCS 480-609873/2-B	16:05	95		99		99		104			
480-193436-6	16:09	93		97		97		101			
CCV 480-610207/25	16:20	87		97		94		101			
CCB 480-610207/26	16:24	99		99		99		102			
CCVL 480-610207/27	16:28	99		98		99		100			
CCV 480-610207/33	17:04	86		95		93		100			
CCB 480-610207/34	17:08	100		99		100		101			
CCVL 480-610207/35	17:12	99		99		100		101			

Run File: I1121621A Instrument: ICAP1

Analyst: ADM Data Review: AMH 12/17/21

Spikes Ids:6639940(W1), 6639959(W2) 6639939(Sn), 6742802(Ag), 6742856(Si), 6742882(S), 6370646(TCLP)
Pipette Ids: 10/6/21-(1-11)
Internal Standard:6810091

Seq#	Run File ID	Sample ID	Date / Time	Sample Type
1	I1121621A	ICIS-6819143	12/16/2021 1:11:09PM	Standard
2	I1121621A	IC-6819272	12/16/2021 1:15:09PM	Standard
3	I1121621A	IC-6817081	12/16/2021 1:19:04PM	Standard
4	I1121621A	IC-6797476	12/16/2021 1:22:45PM	Standard
5	I1121621A	ICV-6817392	12/16/2021 1:26:25PM	QC
6	I1121621A	ICB-6819143	12/16/2021 1:30:08PM	QC
7	I1121621A	ICVL-6819272	12/16/2021 1:34:03PM	QC
8	I1121621A	ICSA-6812501	12/16/2021 1:37:57PM	QC
9	I1121621A	ICSAB-6743474	12/16/2021 1:41:57PM	QC
10	I1121621A	ICEX1	12/16/2021 1:45:52PM	Unknown
11	I1121621A	ICEX2	12/16/2021 1:49:55PM	Unknown
12	I1121621A	ICEX3	12/16/2021 1:53:54PM	Unknown
13	I1121621A	ICEX4	12/16/2021 1:57:52PM	Unknown
14	I1121621A	ICEX5	12/16/2021 2:01:44PM	Unknown
15	I1121621A	CCV-6817081	12/16/2021 2:05:38PM	QC
16	I1121621A	CCB-6819143	12/16/2021 2:09:19PM	QC
17	I1121621A	CCVL-6819272	12/16/2021 2:24:34PM	QC
18	I1121621A	MB 480-608135/1-A	12/16/2021 2:28:28PM	Unknown
19	I1121621A	LCS 480-608135/2-A	12/16/2021 2:32:23PM	Unknown
20	I1121621A	480-193123-B-1-A	12/16/2021 2:36:06PM	Unknown
21	I1121621A	480-193123-B-2-A	12/16/2021 2:39:57PM	Unknown
22	I1121621A	480-193123-B-3-A	12/16/2021 2:43:54PM	Unknown
23	I1121621A	480-193123-B-4-A	12/16/2021 2:47:52PM	Unknown
24	I1121621A	480-193123-B-5-A	12/16/2021 2:51:49PM	Unknown
25	I1121621A	480-193123-B-5-ASD@5	12/16/2021 2:55:40PM	Unknown
26	I1121621A	480-193123-B-5-APDS	12/16/2021 2:59:33PM	Unknown
27	I1121621A	CCV-6817081	12/16/2021 3:03:22PM	QC
28	I1121621A	CCB-6819143	12/16/2021 3:07:03PM	QC
29	I1121621A	CCVL-6819272	12/16/2021 3:10:58PM	QC
30	I1121621A	480-193123-B-5-B MS	12/16/2021 3:14:53PM	Unknown
31	I1121621A	480-193123-B-5-C MSD	12/16/2021 3:18:41PM	Unknown
32	I1121621A	480-193123-B-6-A	12/16/2021 3:22:28PM	Unknown
33	I1121621A	480-193123-B-7-A	12/16/2021 3:26:26PM	Unknown
34	I1121621A	480-193123-B-8-A	12/16/2021 3:30:17PM	Unknown
35	I1121621A	480-193123-B-9-A	12/16/2021 3:34:14PM	Unknown
36	I1121621A	480-193124-A-1-A	12/16/2021 3:38:06PM	Unknown
37	I1121621A	480-193124-A-2-A	12/16/2021 3:41:58PM	Unknown
38	I1121621A	480-193124-A-3-A	12/16/2021 3:45:54PM	Unknown
39	I1121621A	CCV-6817081	12/16/2021 3:49:46PM	QC
40	I1121621A	CCB-6819143	12/16/2021 3:53:27PM	QC
41	I1121621A	CCVL-6819272	12/16/2021 3:57:23PM	QC
42	I1121621A	480-193124-A-4-A	12/16/2021 4:01:17PM	Unknown

43	I1121621A	480-193124-A-5-A	12/16/2021	4:05:09PM	Unknown
44	I1121621A	480-193124-A-6-A	12/16/2021	4:09:01PM	Unknown
45	I1121621A	480-193124-A-7-A	12/16/2021	4:12:51PM	Unknown
46	I1121621A	480-193124-A-8-A	12/16/2021	4:16:43PM	Unknown
47	I1121621A	480-193124-A-9-A	12/16/2021	4:20:35PM	Unknown
48	I1121621A	480-193124-A-10-A	12/16/2021	4:24:24PM	Unknown
49	I1121621A	480-193124-A-11-A	12/16/2021	4:28:15PM	Unknown
50	I1121621A	MB 480-609023/1-A	12/16/2021	4:32:06PM	Unknown
51	I1121621A	CCV-6817081	12/16/2021	4:36:02PM	QC
52	I1121621A	CCB-6819143	12/16/2021	4:39:42PM	QC
53	I1121621A	CCVL-6819272	12/16/2021	4:43:37PM	QC
54	I1121621A	LCS 480-609023/2-A	12/16/2021	4:47:33PM	Unknown
55	I1121621A	480-193435-AB-2-A	12/16/2021	4:51:15PM	Unknown
56	I1121621A	480-193435-AB-3-A	12/16/2021	4:55:06PM	Unknown
57	I1121621A	480-193435-AB-5-A	12/16/2021	4:59:09PM	Unknown
58	I1121621A	480-193435-AB-6-A	12/16/2021	5:03:01PM	Unknown
59	I1121621A	193435-AB-6-ASD@5	12/16/2021	5:06:52PM	Unknown
60	I1121621A	193435-AB-6-APDS	12/16/2021	5:10:44PM	Unknown
61	I1121621A	480-193435-AB-6-B MS	12/16/2021	5:14:26PM	Unknown
62	I1121621A	193435-AB-6-C MSD	12/16/2021	5:18:10PM	Unknown
63	I1121621A	CCV-6817081	12/16/2021	5:21:56PM	QC
64	I1121621A	CCB-6819143	12/16/2021	5:25:37PM	QC
65	I1121621A	CCVL-6819272	12/16/2021	5:29:33PM	QC
66	I1121621A	480-193431-D-3-A	12/16/2021	5:33:29PM	Unknown
67	I1121621A	480-193444-C-1-A	12/16/2021	5:37:24PM	Unknown
68	I1121621A	480-193444-C-2-A	12/16/2021	5:41:18PM	Unknown
69	I1121621A	480-193444-C-3-A	12/16/2021	5:45:22PM	Unknown
70	I1121621A	480-193444-C-4-A	12/16/2021	5:49:14PM	Unknown
71	I1121621A	480-193444-C-5-A	12/16/2021	5:53:10PM	Unknown
72	I1121621A	480-193444-C-6-A	12/16/2021	5:57:14PM	Unknown
73	I1121621A	480-193434-C-1-A	12/16/2021	6:01:22PM	Unknown
74	I1121621A	MB 480-609016/1-A	12/16/2021	6:05:27PM	Unknown
75	I1121621A	CCV-6817081	12/16/2021	6:09:23PM	QC
76	I1121621A	CCB-6819143	12/16/2021	6:13:04PM	QC
77	I1121621A	CCVL-6819272	12/16/2021	6:17:01PM	QC
78	I1121621A	LCS 480-609016/2-A	12/16/2021	6:20:57PM	Unknown
79	I1121621A	480-193436-D-2-A	12/16/2021	6:24:40PM	Unknown
80	I1121621A	480-193436-D-3-A	12/16/2021	6:28:39PM	Unknown
81	I1121621A	480-193436-D-3-ASD@5	12/16/2021	6:32:31PM	Unknown
82	I1121621A	480-193436-D-3-APDS	12/16/2021	6:36:25PM	Unknown
83	I1121621A	480-193436-D-3-B MS	12/16/2021	6:40:13PM	Unknown
84	I1121621A	480-193436-D-3-C MSD	12/16/2021	6:44:01PM	Unknown
85	I1121621A	480-193436-D-4-A	12/16/2021	6:47:49PM	Unknown
86	I1121621A	480-193436-D-5-A	12/16/2021	6:51:48PM	Unknown
87	I1121621A	CCV-6817081	12/16/2021	6:55:48PM	QC
88	I1121621A	CCB-6819143	12/16/2021	6:59:30PM	QC
89	I1121621A	CCVL-6819272	12/16/2021	7:03:28PM	QC
90	I1121621A	480-193436-D-6-A	12/16/2021	7:07:23PM	Unknown
91	I1121621A	480-193436-D-7-O	12/16/2021	7:11:19PM	Unknown
92	I1121621A	480-193436-D-8-A	12/16/2021	7:15:17PM	Unknown
93	I1121621A	480-193422-E-1-A	12/16/2021	7:19:11PM	Unknown
94	I1121621A	480-193422-E-2-A	12/16/2021	7:23:14PM	Unknown

95	I1121621A	480-193422-E-3-A	12/16/2021	7:27:12PM	Unknown
96	I1121621A	480-193422-E-4-A	12/16/2021	7:31:16PM	Unknown
97	I1121621A	480-193422-E-5-A	12/16/2021	7:35:26PM	Unknown
98	I1121621A	480-193422-E-6-A	12/16/2021	7:39:30PM	Unknown
99	I1121621A	CCV-6817081	12/16/2021	7:43:43PM	QC
100	I1121621A	CCB-6819143	12/16/2021	7:47:25PM	QC
101	I1121621A	CCVL-6819272	12/16/2021	7:51:22PM	QC
102	I1121621A	480-193422-E-7-A	12/16/2021	7:55:18PM	Unknown
103	I1121621A	480-193422-E-8-A	12/16/2021	7:59:16PM	Unknown
104	I1121621A	480-193422-E-9-A	12/16/2021	8:03:20PM	Unknown
105	I1121621A	480-193422-E-10-A	12/16/2021	8:07:17PM	Unknown
106	I1121621A	480-193422-E-11-A	12/16/2021	8:11:15PM	Unknown
107	I1121621A	480-193422-E-12-A	12/16/2021	8:15:32PM	Unknown
108	I1121621A	240-161335-B-1-B	12/16/2021	8:19:29PM	Unknown
109	I1121621A	rinse	12/16/2021	8:23:22PM	Unknown
110	I1121621A	LB 480-608962/1-D	12/16/2021	8:27:18PM	Unknown
111	I1121621A	CCV-6817081	12/16/2021	8:31:20PM	QC
112	I1121621A	CCB-6819143	12/16/2021	8:35:02PM	QC
113	I1121621A	CCVL-6819272	12/16/2021	8:39:00PM	QC
114	I1121621A	MB 480-609120/2-A	12/16/2021	8:42:55PM	Unknown
115	I1121621A	LCS 480-609120/3-A	12/16/2021	8:46:51PM	Unknown
116	I1121621A	480-193421-A-1-E	12/16/2021	8:50:46PM	Unknown
117	I1121621A	480-193421-A-1-ESD@5	12/16/2021	8:54:51PM	Unknown
118	I1121621A	480-193421-A-1-EPDS	12/16/2021	8:58:50PM	Unknown
119	I1121621A	480-193421-A-1-F MS	12/16/2021	9:02:44PM	Unknown
120	I1121621A	480-193421-A-1-G MSD	12/16/2021	9:06:38PM	Unknown
121	I1121621A	480-193421-A-2-E	12/16/2021	9:10:32PM	Unknown
122	I1121621A	480-193421-B-3-E	12/16/2021	9:14:32PM	Unknown
123	I1121621A	CCV-6817081	12/16/2021	9:18:39PM	QC
124	I1121621A	CCB-6819143	12/16/2021	9:22:20PM	QC
125	I1121621A	CCVL-6819272	12/16/2021	9:26:17PM	QC
126	I1121621A	480-193421-A-4-E	12/16/2021	9:30:12PM	Unknown
127	I1121621A	480-193395-A-1-C	12/16/2021	9:34:17PM	Unknown
128	I1121621A	LB 480-609105/1-C	12/16/2021	9:38:28PM	Unknown
129	I1121621A	MB 480-609123/2-A	12/16/2021	9:42:24PM	Unknown
130	I1121621A	LCS 480-609123/3-A	12/16/2021	9:46:19PM	Unknown
131	I1121621A	LCSD 480-609123/4-A	12/16/2021	9:50:07PM	Unknown
132	I1121621A	240-161335-B-1-E	12/16/2021	9:53:56PM	Unknown
133	I1121621A	240-161335-B-1-ESD@5	12/16/2021	9:57:52PM	Unknown
134	I1121621A	240-161335-B-1-EPDS	12/16/2021	10:01:45PM	Unknown
135	I1121621A	CCV-6817081	12/16/2021	10:05:39PM	QC
136	I1121621A	CCB-6819143	12/16/2021	10:09:20PM	QC
137	I1121621A	CCVL-6819272	12/16/2021	10:13:16PM	QC
138	I1121621A	480-193163-I-1-B	12/16/2021	10:17:11PM	Unknown
139	I1121621A	CCVL-6819272	12/16/2021	10:21:05PM	QC
140	I1121621A	CCV-6817081	12/16/2021	10:25:00PM	QC
141	I1121621A	CCB-6819143	12/16/2021	10:28:41PM	QC
~~142~~					
143					
144					
145					
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SMH 12/17/21

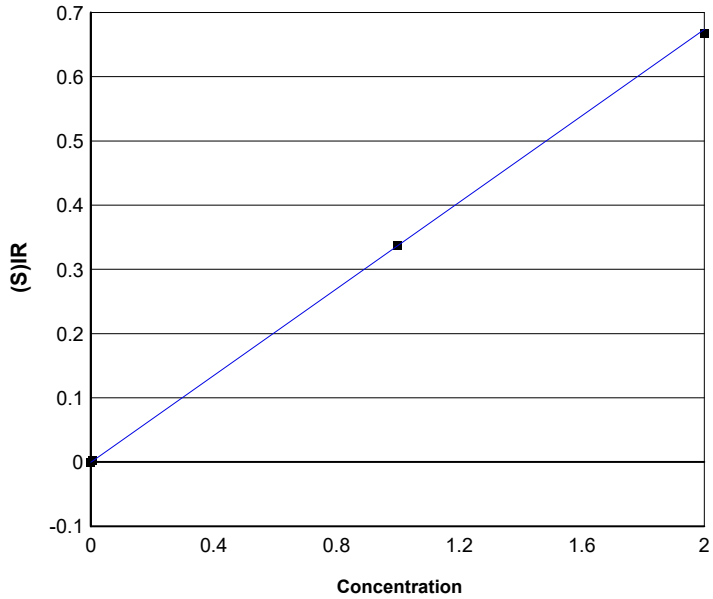
I1121621A

Author: ADM

Published: 12/17/2021 9:12:37AM

Instrument Name: BUFICAP1 Serial Number: 20094603

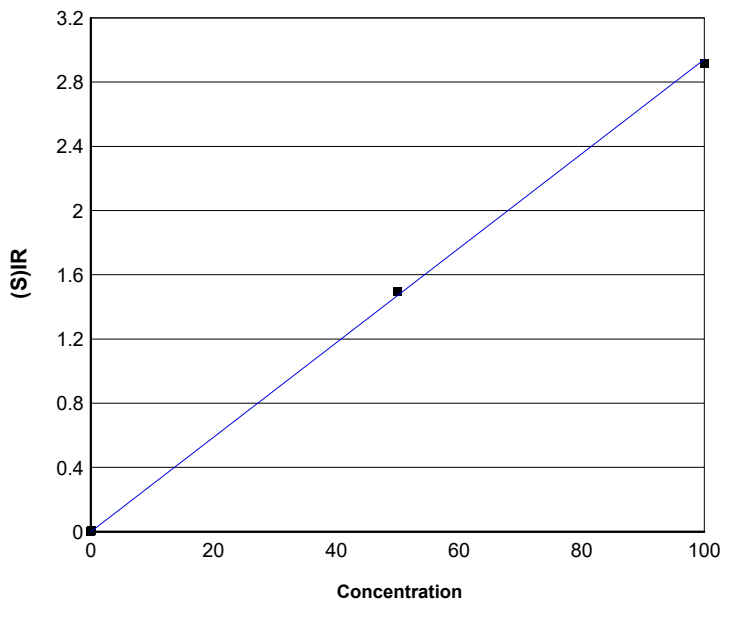
Method Name: ICAP1 New Stds (404)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00027032
A1 (Gain):	0.33706
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

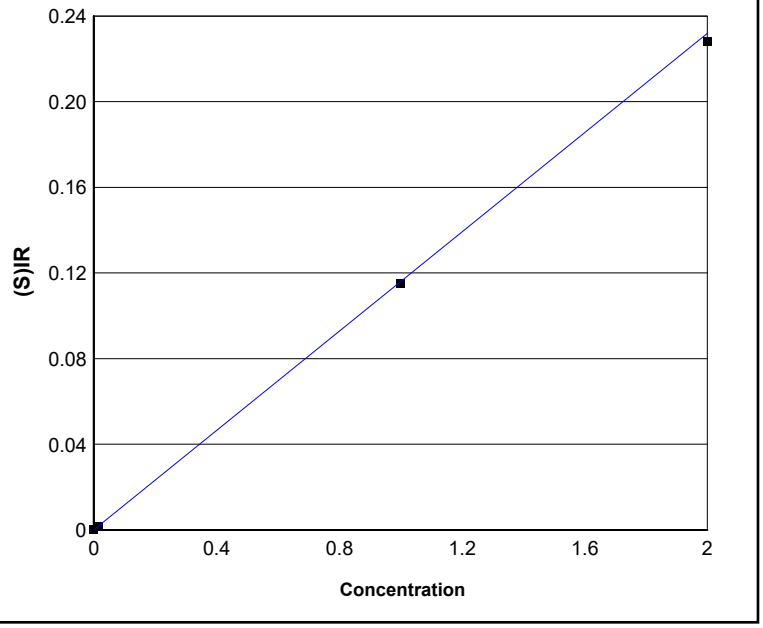
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000000524	-0.0000000524	0.00000	-0.00027034	0.000071028	1
IC-6819272	0.0060000	0.0060340	0.000034023	0.56704	0.0017636	0.000025814	1
IC-6817081	1.0000	1.0062	0.0061667	0.61667	0.33664	0.00054294	1
IC-6797476	2.0000	1.9938	-0.0062010	-0.31005	0.66731	0.0017428	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.00047881
A1 (Gain):	0.029418
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

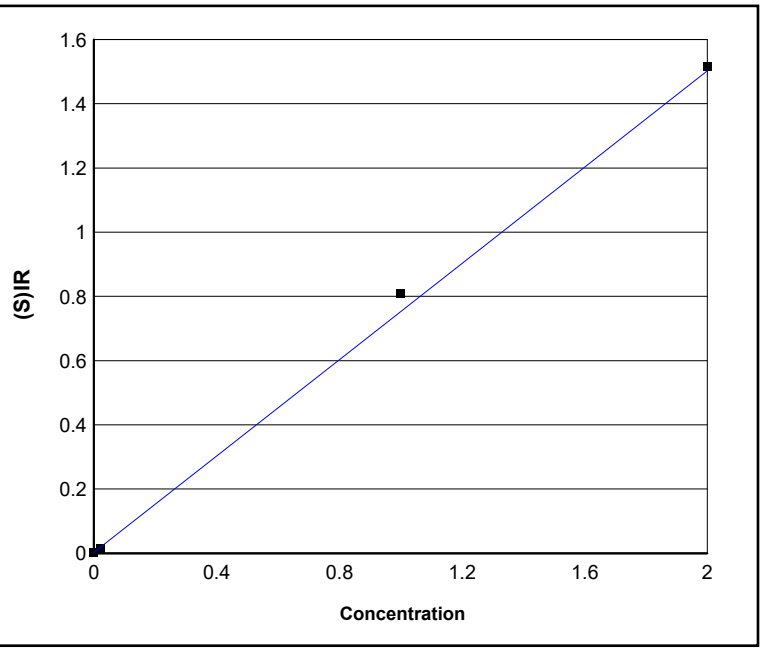
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000040469	-0.0000040469	0.00000	0.00047869	0.00049356	1
IC-6819272	0.20000	0.20249	0.0024896	1.2448	0.0064357	0.00023081	1
IC-6817081	50.000	50.781	0.78112	1.5622	1.4944	0.0028688	1
IC-6797476	100.00	99.216	-0.78361	-0.78361	2.9193	0.0010709	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	0.000040374
A1 (Gain):	0.11592
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

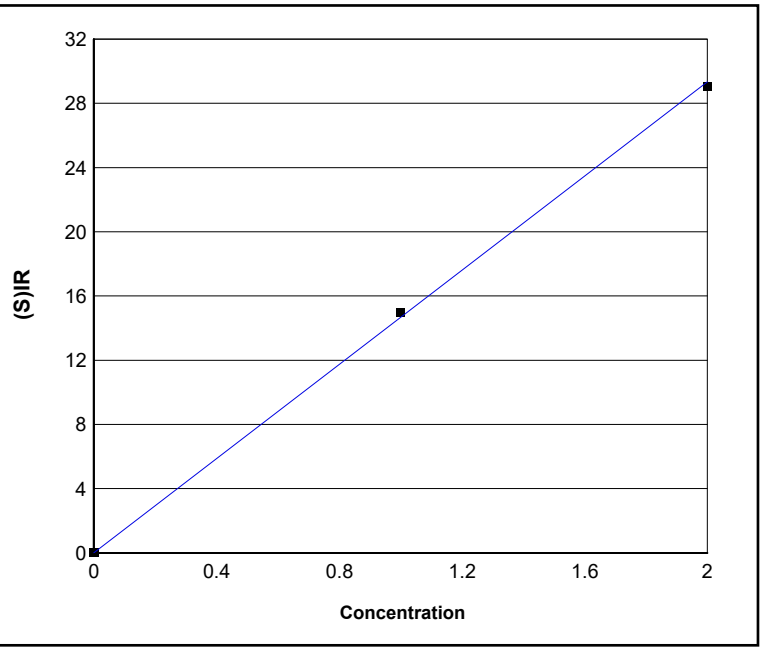
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000029037	0.0000029037	0.00000	0.000040711	0.000033156	1
IC-6819272	0.015000	0.012019	-0.0029805	-19.870	0.0014274	0.000072087	1
IC-6817081	1.0000	1.0072	0.0072377	0.72377	0.11523	0.000069656	1
IC-6797476	2.0000	1.9958	-0.0042271	-0.21135	0.22825	0.00072750	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99953
A0 (Offset):	0.0023002
A1 (Gain):	0.75023
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

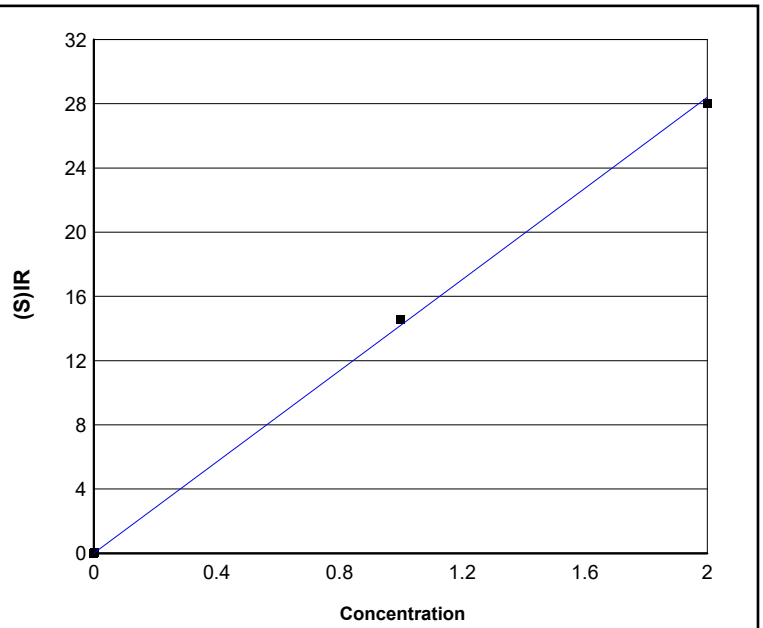
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000012445	0.0000012445	0.00000	0.0023012	0.00016641	1
IC-6819272	0.020000	0.018297	-0.0017035	-8.5174	0.016258	0.000042882	1
IC-6817081	1.0000	1.0442	0.044218	4.4218	0.80885	0.0010796	1
IC-6797476	2.0000	1.9575	-0.042540	-2.1270	1.5171	0.00028028	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.0087069
A1 (Gain):	14.659
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

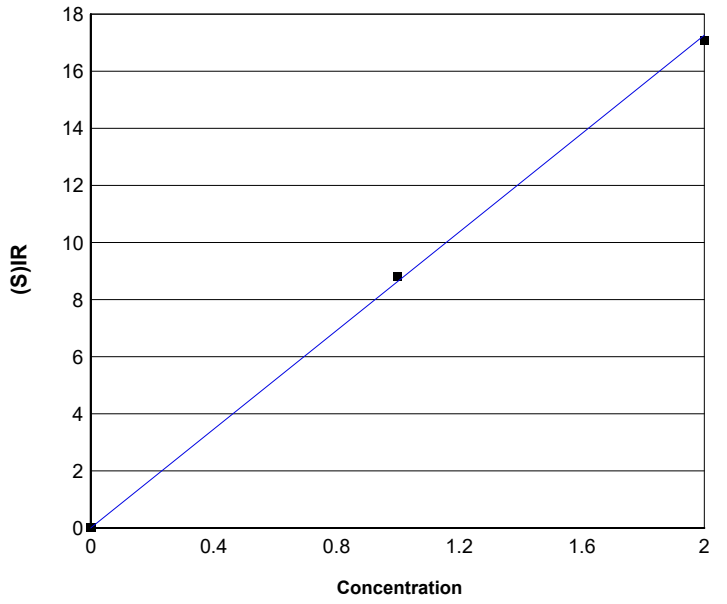
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000000290	-0.0000000290	0.00000	0.0087065	0.00033905	1
IC-6819272	0.0020000	0.0020099	0.0000099046	0.49523	0.038171	0.0018866	1
IC-6817081	1.0000	1.0191	0.019090	1.9090	14.948	0.071968	1
IC-6797476	2.0000	1.9809	-0.019100	-0.95502	29.047	0.034470	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99982
A0 (Offset):	0.0019178
A1 (Gain):	14.204
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

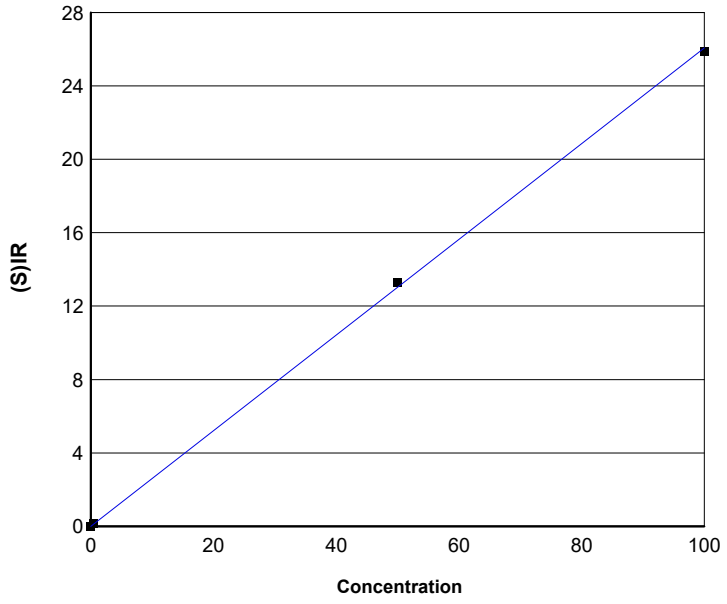
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000000168	-0.0000000168	0.00000	0.0019176	0.00015283	1
IC-6819272	0.0020000	0.0019903	-0.0000097343	-0.48672	0.030187	0.00013105	1
IC-6817081	1.0000	1.0266	0.026555	2.6555	14.583	0.011477	1
IC-6797476	2.0000	1.9735	-0.026545	-1.3273	28.032	0.22939	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	0.00049817
A1 (Gain):	8.6331
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

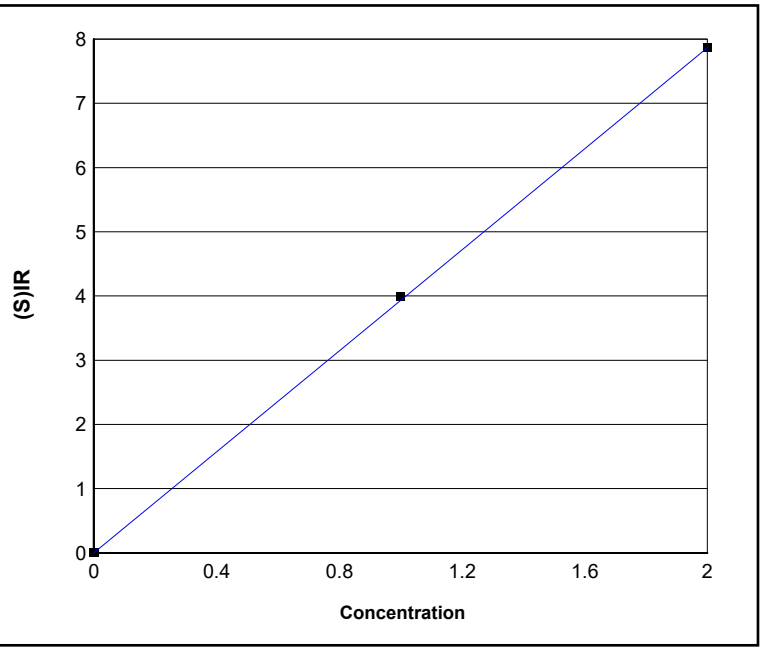
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000001421	0.0000001421	0.00000	0.00049940	0.00033682	1
IC-6819272	0.0020000	0.0018369	-0.00016310	-8.1552	0.016325	0.00031201	1
IC-6817081	1.0000	1.0208	0.020793	2.0793	8.8068	0.044916	1
IC-6797476	2.0000	1.9794	-0.020630	-1.0315	17.076	0.0034619	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.0058403
A1 (Gain):	0.26068
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

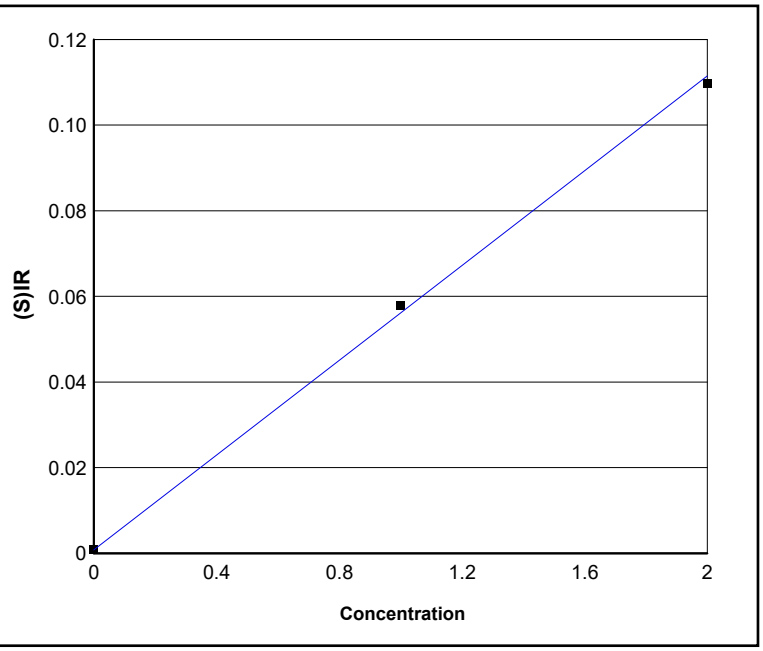
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.000015305	0.000015305	0.00000	0.0058443	0.00047979	1
IC-6819272	0.50000	0.48026	-0.019736	-3.9472	0.13103	0.00099420	1
IC-6817081	50.000	50.866	0.86648	1.7330	13.266	0.070605	1
IC-6797476	100.00	99.153	-0.84675	-0.84675	25.853	0.037644	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.0011281
A1 (Gain):	3.9327
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

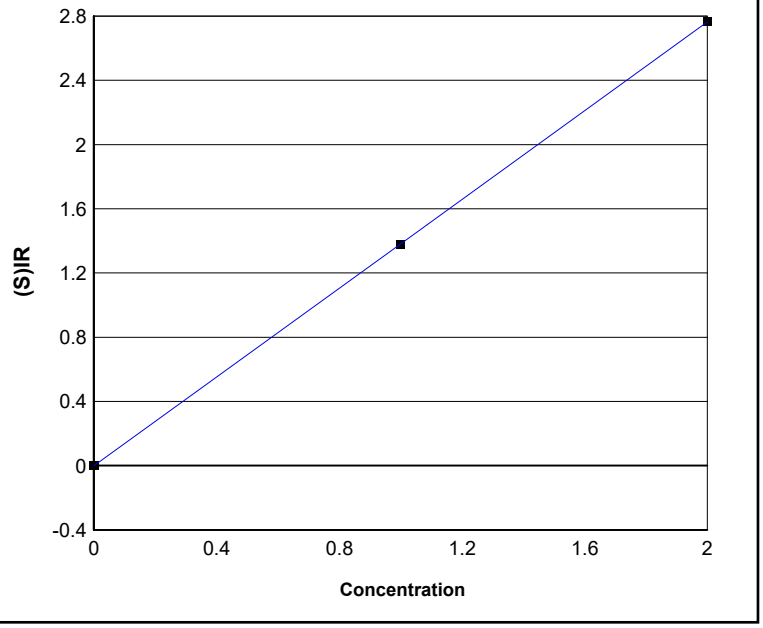
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000001464	0.0000001464	0.00000	0.0011287	0.00018380	1
IC-6819272	0.0020000	0.0018417	-0.00015828	-7.9139	0.0086719	0.00021266	1
IC-6817081	1.0000	1.0117	0.011727	1.1727	4.0000	0.00077496	1
IC-6797476	2.0000	1.9884	-0.011564	-0.57819	7.8611	0.0081244	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.9998
A0 (Offset):	0.0008423
A1 (Gain):	0.05531
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

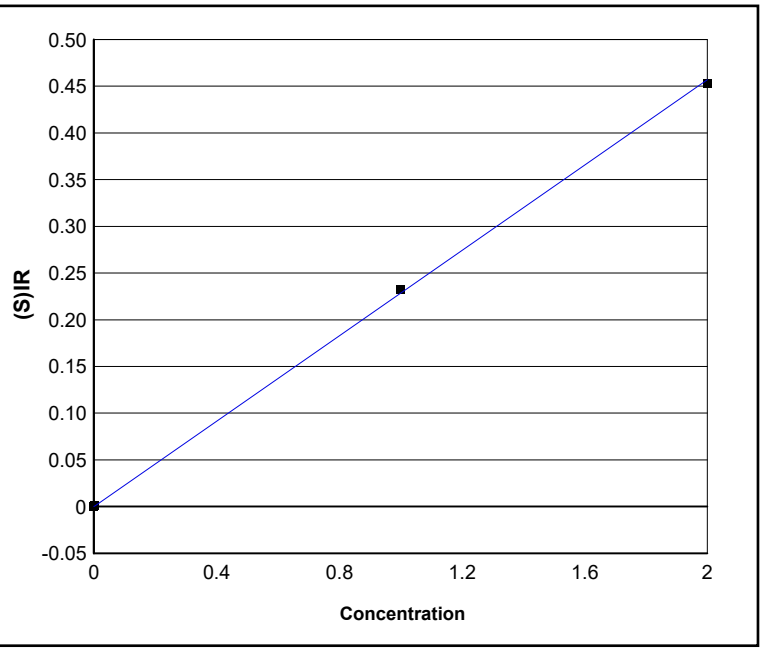
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.0000	-0.00001539	-0.00001539	0.0000	0.0008414	0.0006215	1
IC-6817081	1.000	1.031	0.03079	3.079	0.05786	0.0003068	1
IC-6797476	2.000	1.969	-0.03079	-1.539	0.1098	0.0001691	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.000074251
A1 (Gain):	1.3820
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

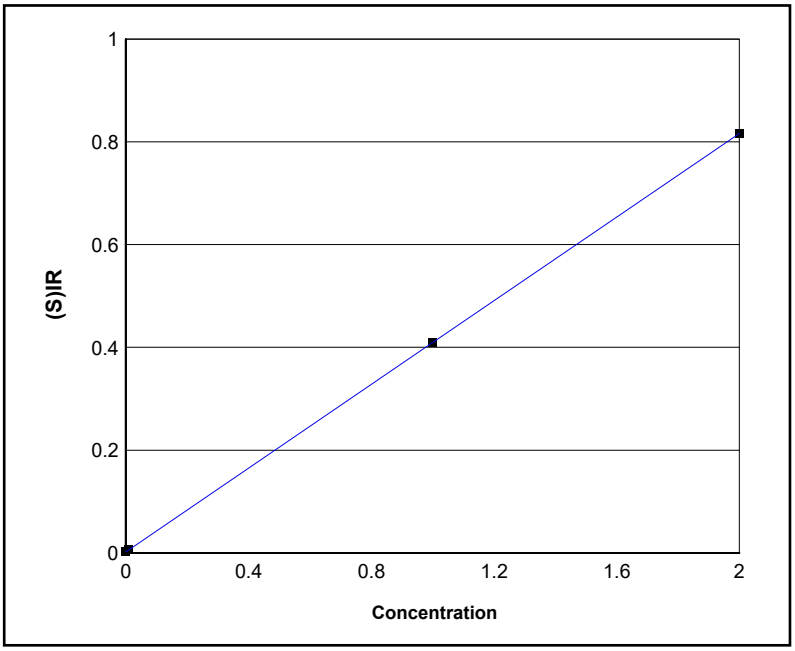
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000006227	0.0000006227	0.00000	-0.000073391	0.000021701	1
IC-6819272	0.0040000	0.0033792	-0.00062080	-15.520	0.0045945	0.000056907	1
IC-6817081	1.0000	0.99845	-0.0015521	-0.15521	1.3810	0.00084061	1
IC-6797476	2.0000	2.0022	0.0021722	0.10861	2.7694	0.0051179	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.000030412
A1 (Gain):	0.22842
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

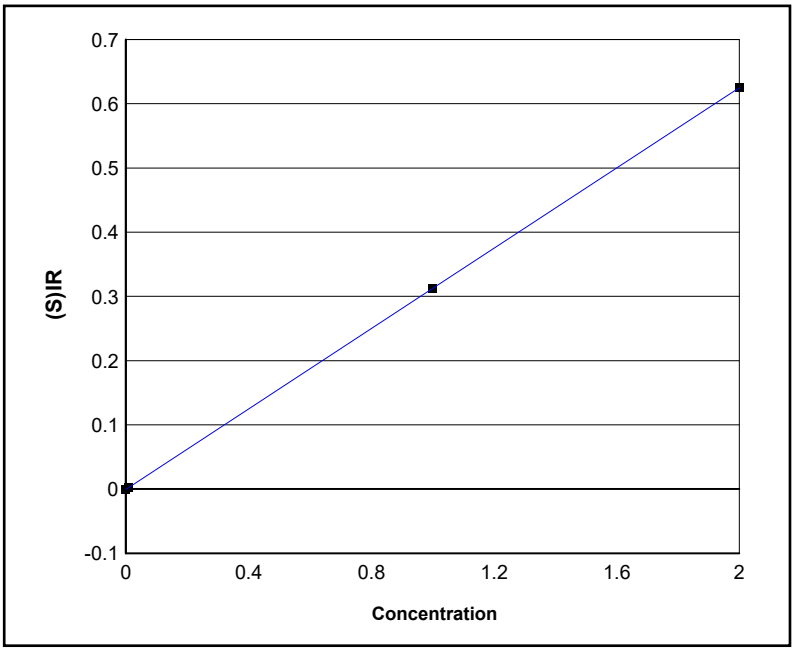
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000002271	0.0000002271	0.00000	-0.000030360	0.000093411	1
IC-6819272	0.0040000	0.0037383	-0.00026172	-6.5429	0.00082347	0.000016145	1
IC-6817081	1.0000	1.0171	0.017066	1.7066	0.23223	0.00052758	1
IC-6797476	2.0000	1.9832	-0.016805	-0.84023	0.45285	0.00024844	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0022838
A1 (Gain):	0.40708
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

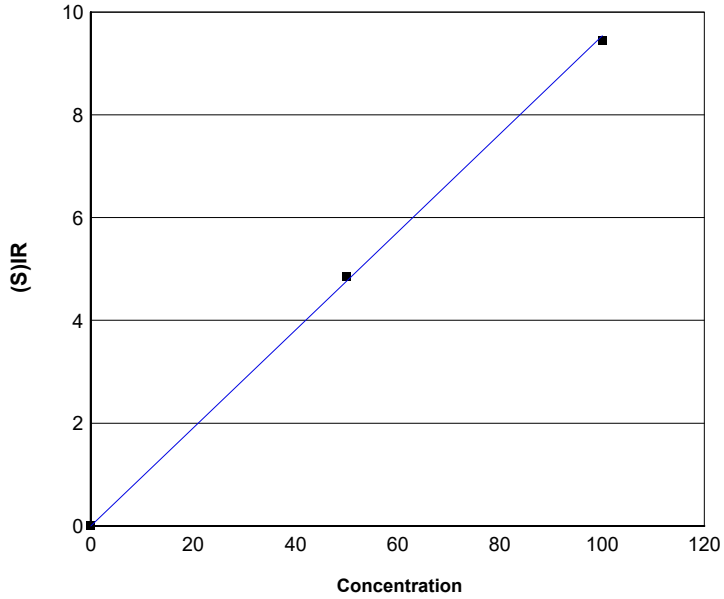
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000004896	0.0000004896	0.00000	0.0022840	0.00011205	1
IC-6819272	0.010000	0.0095033	-0.00049672	-4.9672	0.0061525	0.00022873	1
IC-6817081	1.0000	1.0009	0.00092976	0.092976	0.40975	0.00042063	1
IC-6797476	2.0000	1.9996	-0.00043304	-0.021652	0.81628	0.00071491	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00032821
A1 (Gain):	0.31272
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

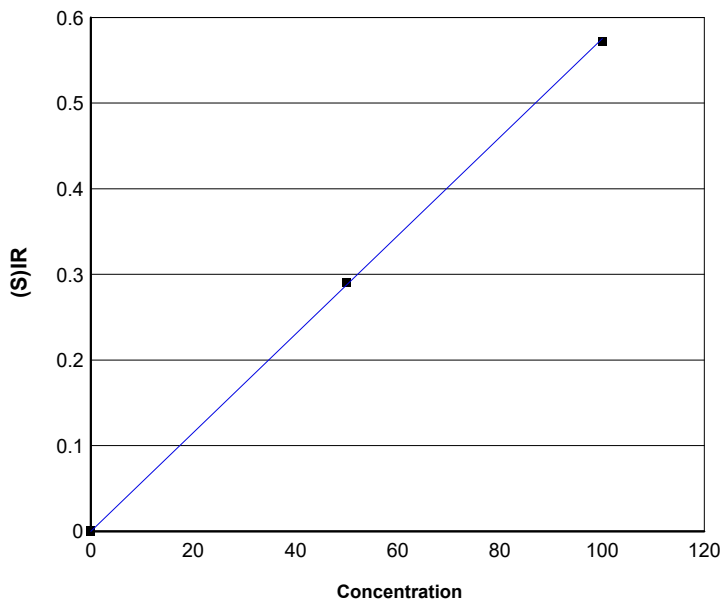
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000001433	0.0000001433	0.00000	-0.00032816	0.000045112	1
IC-6819272	0.010000	0.0098606	-0.00013940	-1.3940	0.0027566	0.000037151	1
IC-6817081	1.0000	0.99909	-0.00091168	-0.091168	0.31223	0.000095165	1
IC-6797476	2.0000	2.0011	0.0010511	0.052554	0.62568	0.0014811	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00041751
A1 (Gain):	0.095322
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

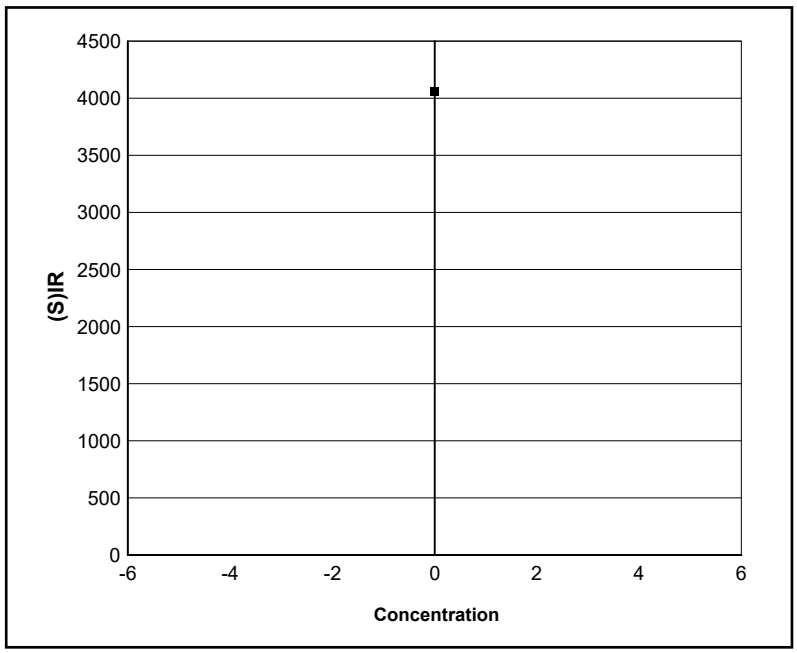
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000020375	-0.0000020375	0.00000	0.00041732	0.00026878	1
IC-6819272	0.050000	0.051558	0.0015582	3.1163	0.0053322	0.00022402	1
IC-6817081	50.025	50.986	0.96061	1.9203	4.8605	0.020561	1
IC-6797476	100.05	99.088	-0.96217	-0.96169	9.4457	0.0062132	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99957
A0 (Offset):	0.000062906
A1 (Gain):	0.0057512
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

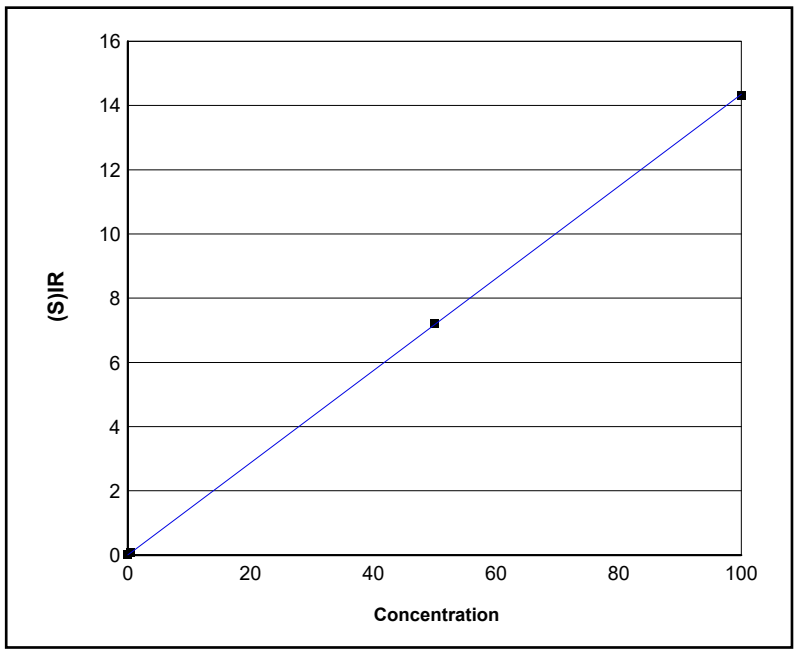
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	-0.000077816	-0.000077816	0.00000	0.000062459	0.00065077	1
IC-6819272	0.050000	0.12758	0.077578	155.16	0.00079664	0.00028698	1
IC-6817081	50.025	50.578	0.55317	1.1058	0.29095	0.00091577	1
IC-6797476	100.05	99.419	-0.63075	-0.63043	0.57184	0.00092755	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:15:05PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

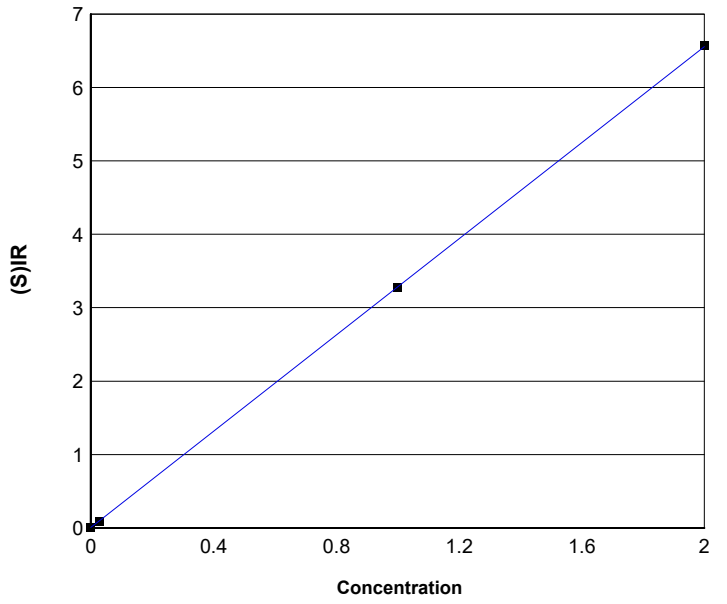
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.0000			0.0000	4,056	8.467	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.010236
A1 (Gain):	0.14340
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

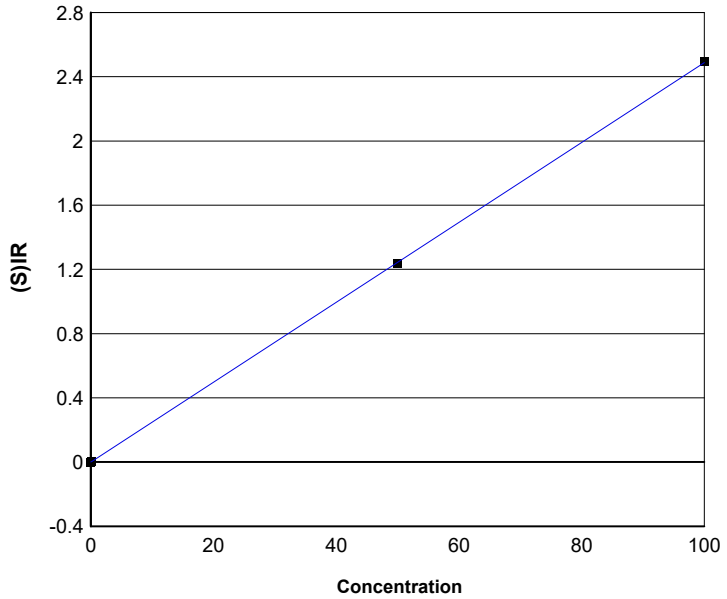
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.000056160	0.000056160	0.00000	0.010244	0.00065077	1
IC-6819272	0.50000	0.44234	-0.057664	-11.533	0.073668	0.0047551	1
IC-6817081	50.000	50.243	0.24313	0.48627	7.2152	0.012066	1
IC-6797476	100.00	99.815	-0.18547	-0.18547	14.324	0.020189	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.0069076
A1 (Gain):	3.2756
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

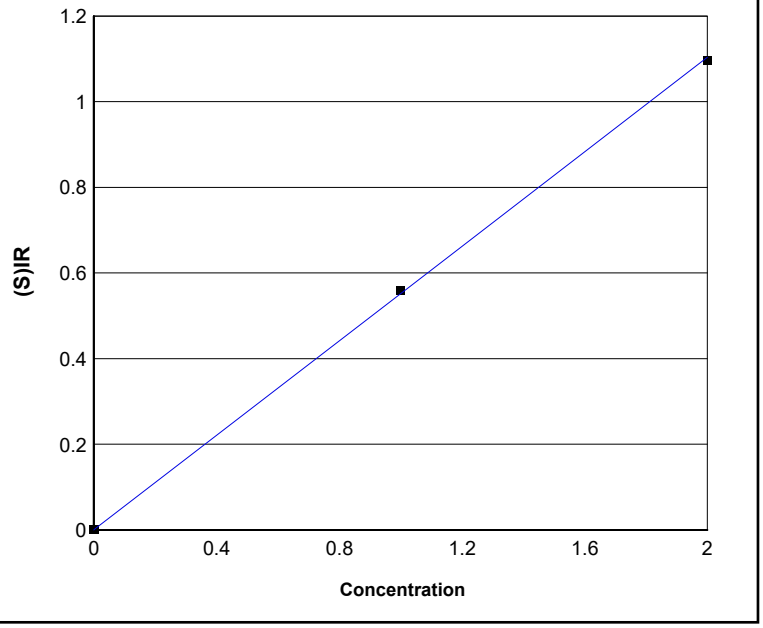
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000036265	0.0000036265	0.00000	0.0069195	0.0060357	1
IC-6819272	0.030000	0.026315	-0.0036851	-12.284	0.093104	0.0019368	1
IC-6817081	1.0000	1.0002	0.00021604	0.021604	3.2832	0.00098727	1
IC-6797476	2.0000	2.0035	0.0034690	0.17345	6.5694	0.020422	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000058470
A1 (Gain):	0.024880
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

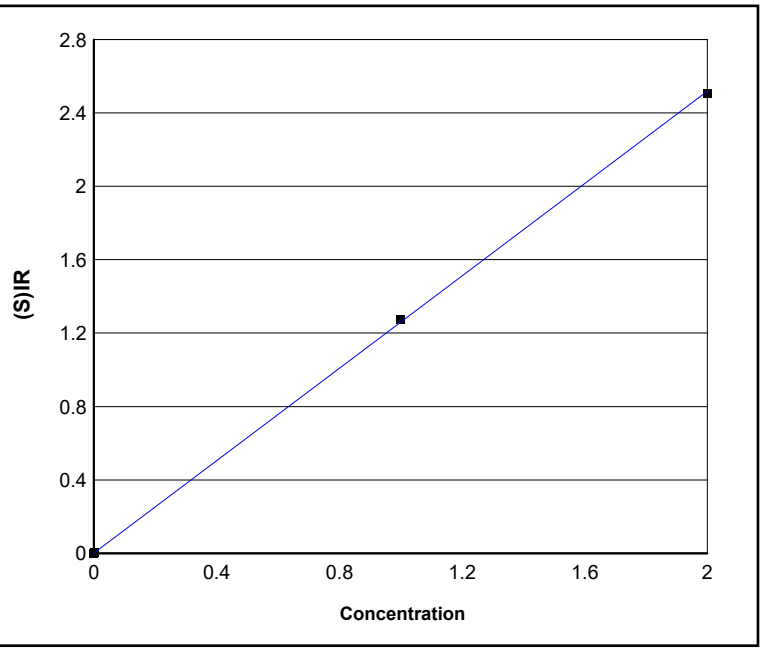
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.000014204	0.000014204	0.00000	-0.000058117	0.000047948	1
IC-6819272	0.20000	0.18624	-0.013760	-6.8799	0.0045749	0.00011085	1
IC-6817081	50.000	49.764	-0.23604	-0.47207	1.2380	0.00062980	1
IC-6797476	100.00	100.25	0.24980	0.24980	2.4939	0.0049155	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.00020454
A1 (Gain):	0.55165
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

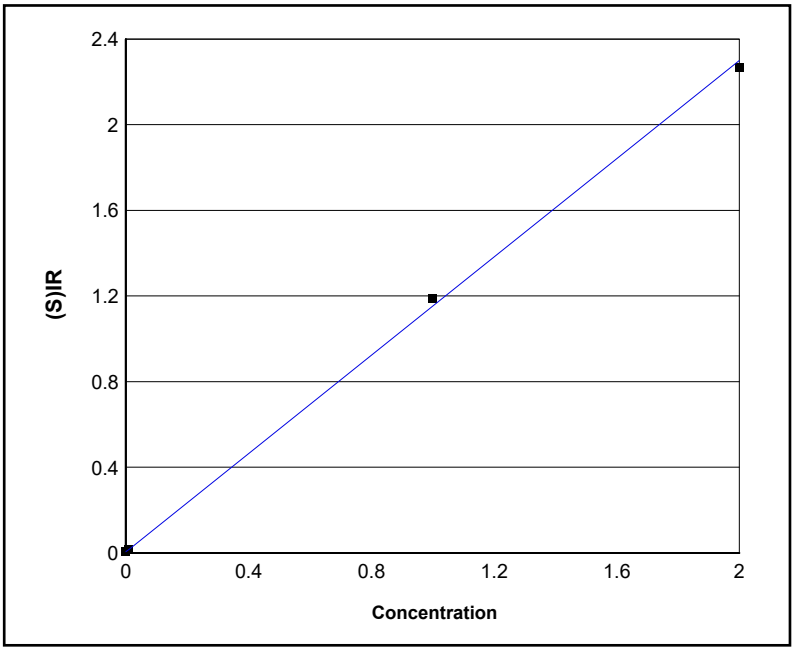
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000003708	-0.0000003708	0.00000	0.00020434	0.00053002	1
IC-6819272	0.0030000	0.0033500	0.00035004	11.668	0.0020533	0.00049471	1
IC-6817081	1.0000	1.0142	0.014169	1.4169	0.55992	0.0042164	1
IC-6797476	2.0000	1.9855	-0.014519	-0.72594	1.0960	0.0012876	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00037779
A1 (Gain):	1.2590
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

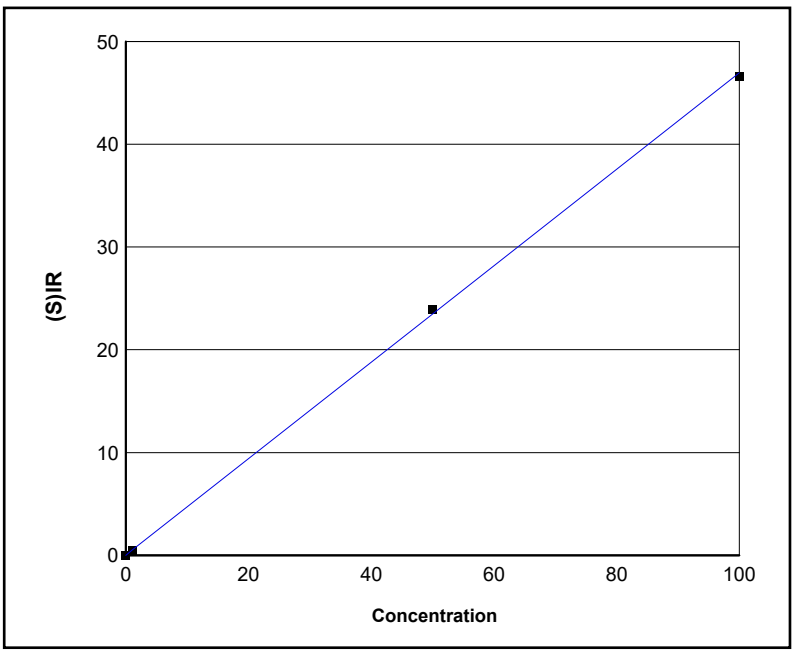
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000000428	0.0000000428	0.00000	0.00037784	0.0000091755	1
IC-6819272	0.0030000	0.0029427	-0.000057273	-1.9091	0.0040845	0.0000036320	1
IC-6817081	1.0000	1.0096	0.0096123	0.96123	1.2721	0.0014720	1
IC-6797476	2.0000	1.9904	-0.0095550	-0.47775	2.5076	0.0057113	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99970
A0 (Offset):	0.0050960
A1 (Gain):	1.1475
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

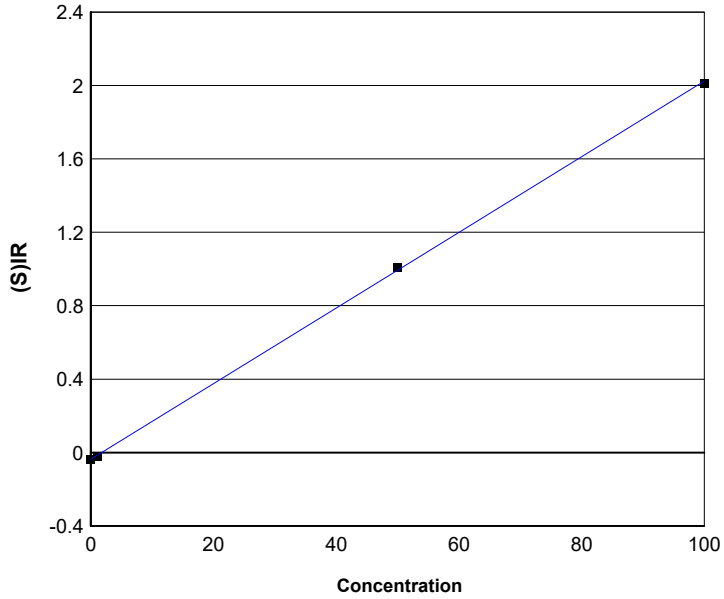
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000020404	0.0000020404	0.00000	0.0050984	0.00023472	1
IC-6819272	0.010000	0.0077970	-0.0022030	-22.030	0.014043	0.00016445	1
IC-6817081	1.0000	1.0303	0.030312	3.0312	1.1874	0.0044788	1
IC-6797476	2.0000	1.9719	-0.028109	-1.4055	2.2679	0.0099745	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	0.0080217
A1 (Gain):	0.46944
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

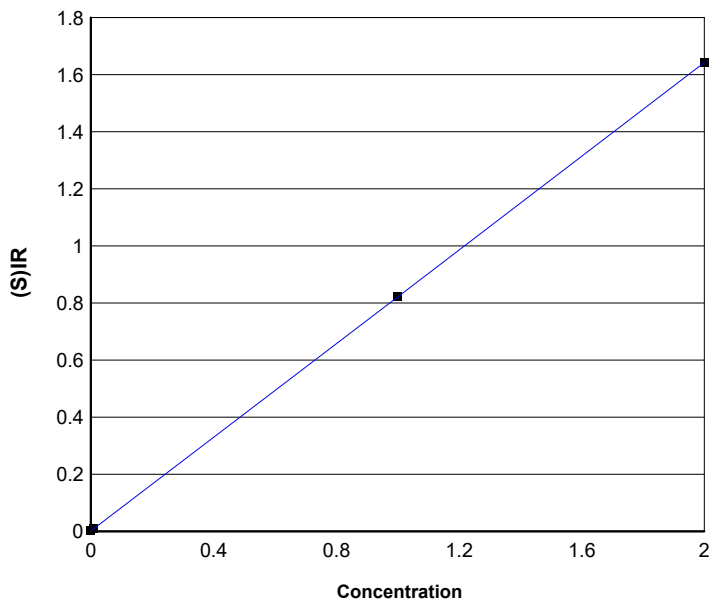
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.000076438	0.000076438	0.00000	0.0080576	0.0025605	1
IC-6819272	1.0000	0.91359	-0.086406	-8.6406	0.43690	0.0022072	1
IC-6817081	50.000	50.910	0.91037	1.8207	23.907	0.083322	1
IC-6797476	100.00	99.176	-0.82397	-0.82397	46.565	0.022883	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99983
A0 (Offset):	-0.037174
A1 (Gain):	0.020616
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

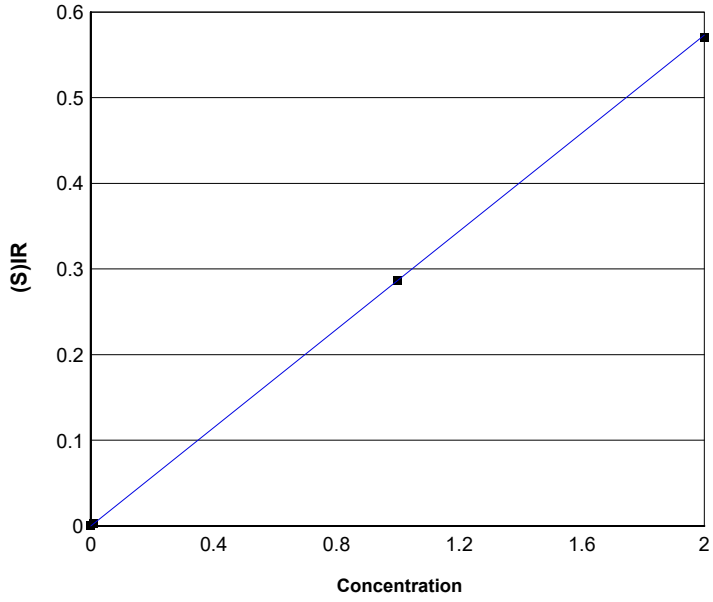
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.00017449	0.00017449	0.00000	-0.037171	0.00090722	1
IC-6819272	1.0000	0.81563	-0.18437	-18.437	-0.020360	0.00031810	1
IC-6817081	50.000	50.803	0.80327	1.6065	1.0102	0.0040784	1
IC-6797476	100.00	99.381	-0.61890	-0.61890	2.0116	0.0029310	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0012472
A1 (Gain):	0.82041
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

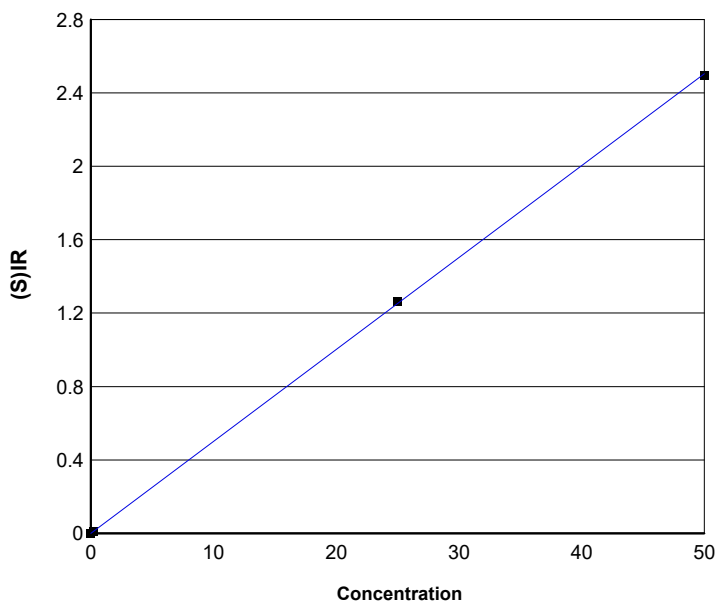
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000011671	0.0000011671	0.00000	0.0012482	0.000014181	1
IC-6819272	0.010000	0.0088191	-0.0011809	-11.809	0.0084830	0.00013189	1
IC-6817081	1.0000	1.0016	0.0015723	0.15723	0.82335	0.0013750	1
IC-6797476	2.0000	1.9996	-0.00039192	-0.019596	1.6426	0.0022922	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.000098856
A1 (Gain):	0.28655
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

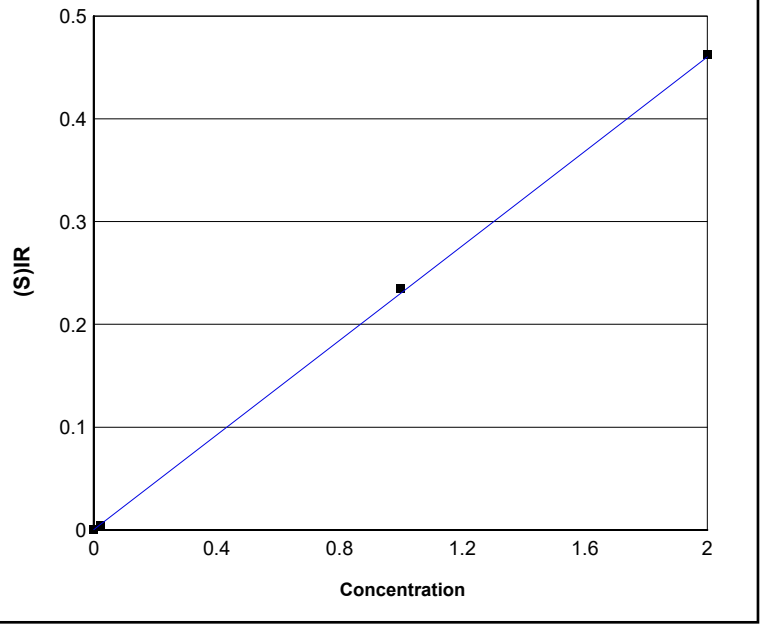
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000009187	0.0000009187	0.00000	0.000099120	0.00023035	1
IC-6819272	0.010000	0.0090590	-0.00094099	-9.4099	0.0026888	0.0000032609	1
IC-6817081	1.0000	1.0035	0.0035159	0.35159	0.28655	0.00024293	1
IC-6797476	2.0000	1.9974	-0.0025732	-0.12866	0.57025	0.0013197	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.0003353
A1 (Gain):	0.05009
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

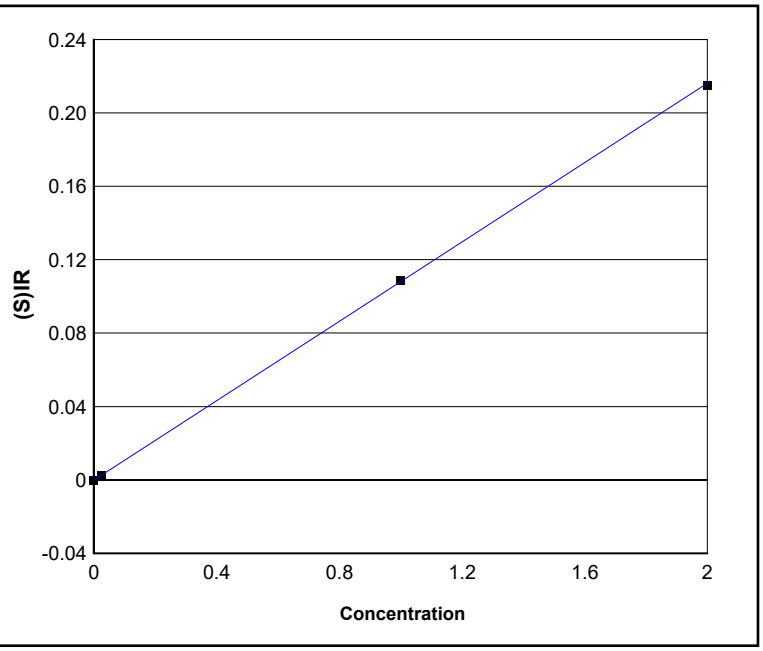
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.0000	0.00002519	0.00002519	0.0000	0.0003366	0.0001229	1
IC-6819272	0.2000	0.1738	-0.02623	-13.12	0.009040	0.00001212	1
IC-6817081	25.00	25.23	0.2330	0.9321	1.264	0.001167	1
IC-6797476	50.00	49.79	-0.2068	-0.4136	2.495	0.006134	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.00017060
A1 (Gain):	0.23007
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

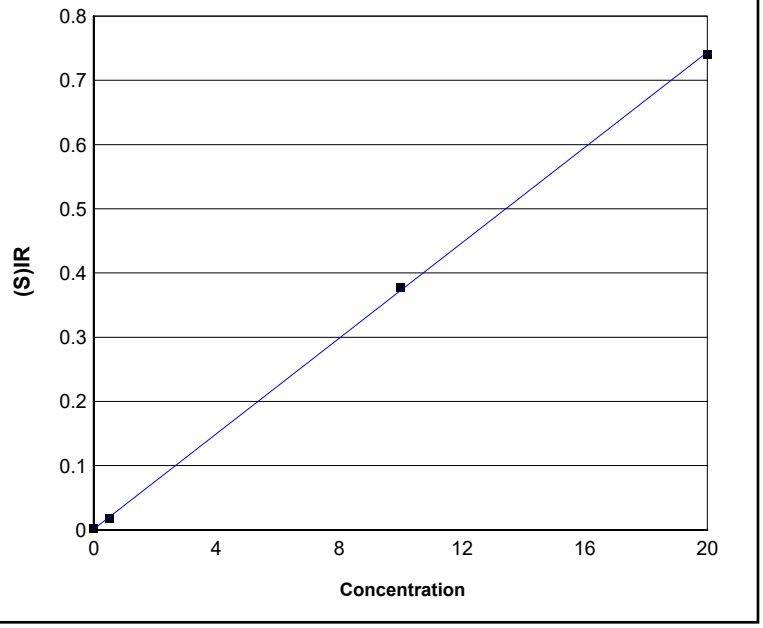
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000022620	0.0000022620	0.00000	0.00017112	0.00011694	1
IC-6819272	0.020000	0.017593	-0.0024072	-12.036	0.0042264	0.00031952	1
IC-6817081	1.0000	1.0121	0.012129	1.2129	0.23530	0.00060181	1
IC-6797476	2.0000	1.9903	-0.0097413	-0.48707	0.46261	0.00064285	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00018598
A1 (Gain):	0.10818
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

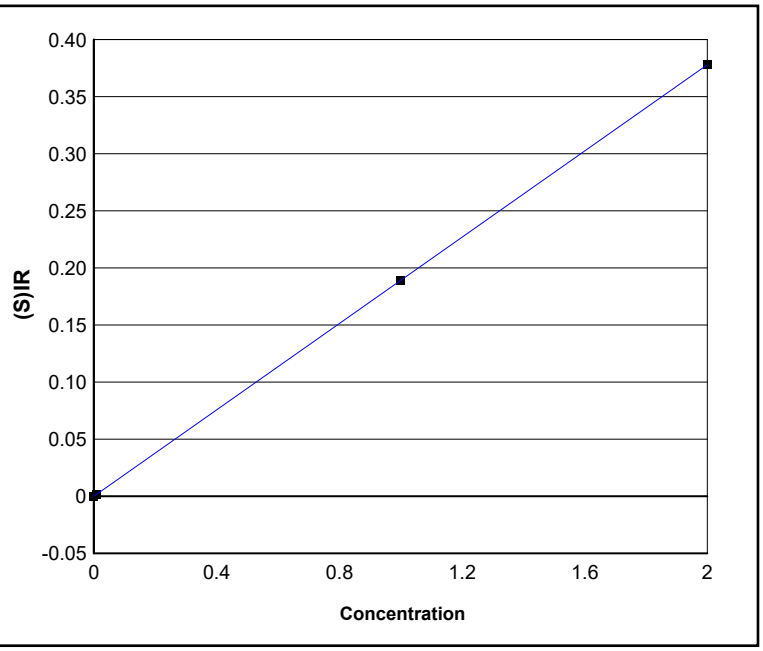
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000013967	0.0000013967	0.00000	-0.00018583	0.00011322	1
IC-6819272	0.025000	0.023469	-0.0015305	-6.1221	0.0023519	0.000064748	1
IC-6817081	1.0000	1.0092	0.0091707	0.91707	0.10873	0.00051082	1
IC-6797476	2.0000	1.9924	-0.0076371	-0.38185	0.21483	0.00029894	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	0.0014770
A1 (Gain):	0.037128
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

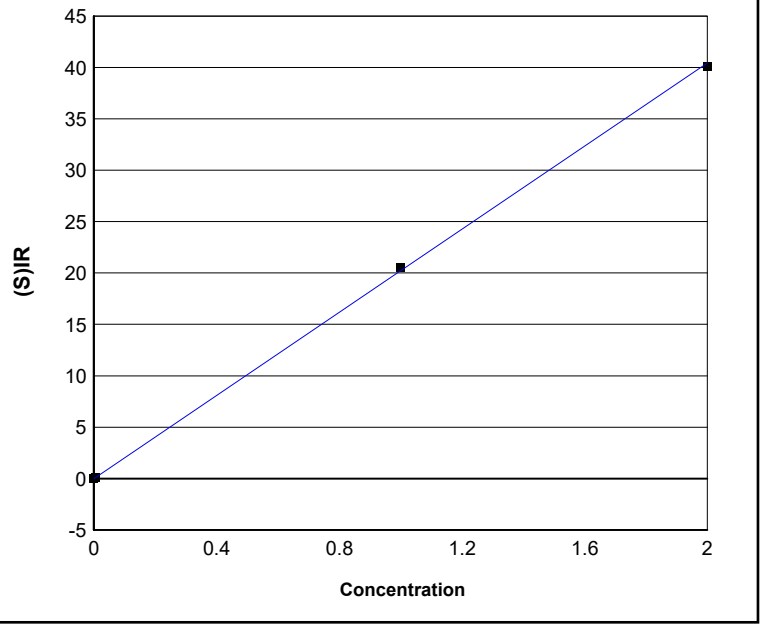
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.000041952	0.000041952	0.00000	0.0014786	0.00044388	1
IC-6819272	0.50000	0.45333	-0.046673	-9.3347	0.018308	0.00054868	1
IC-6817081	10.000	10.142	0.14218	1.4218	0.37804	0.0031687	1
IC-6797476	20.000	19.904	-0.095504	-0.47752	0.74049	0.0048028	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.000060170
A1 (Gain):	0.18904
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

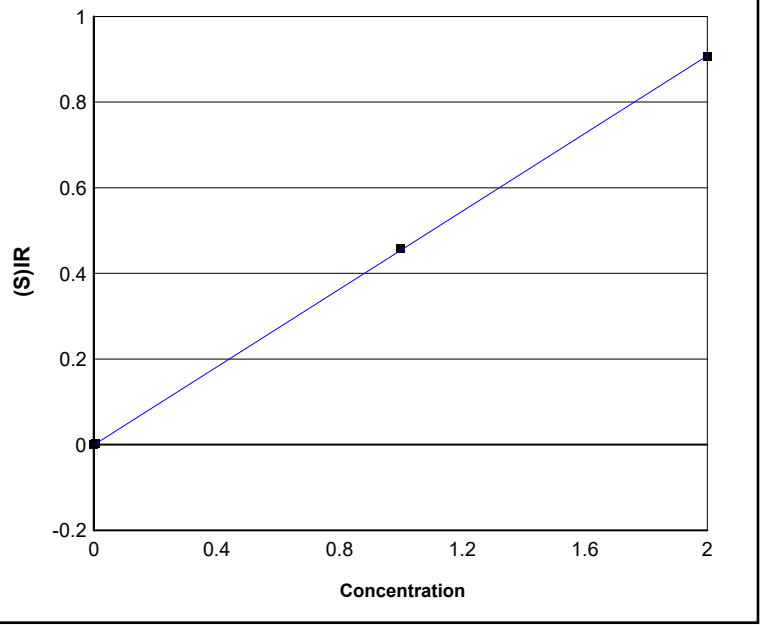
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000011489	0.0000011489	0.00000	-0.000059953	0.000068706	1
IC-6819272	0.010000	0.0088516	-0.0011484	-11.484	0.0016131	0.000041498	1
IC-6817081	1.0000	0.99876	-0.0012400	-0.12400	0.18875	0.00059656	1
IC-6797476	2.0000	2.0024	0.0023884	0.11942	0.37847	0.00035389	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.0028065
A1 (Gain):	20.224
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

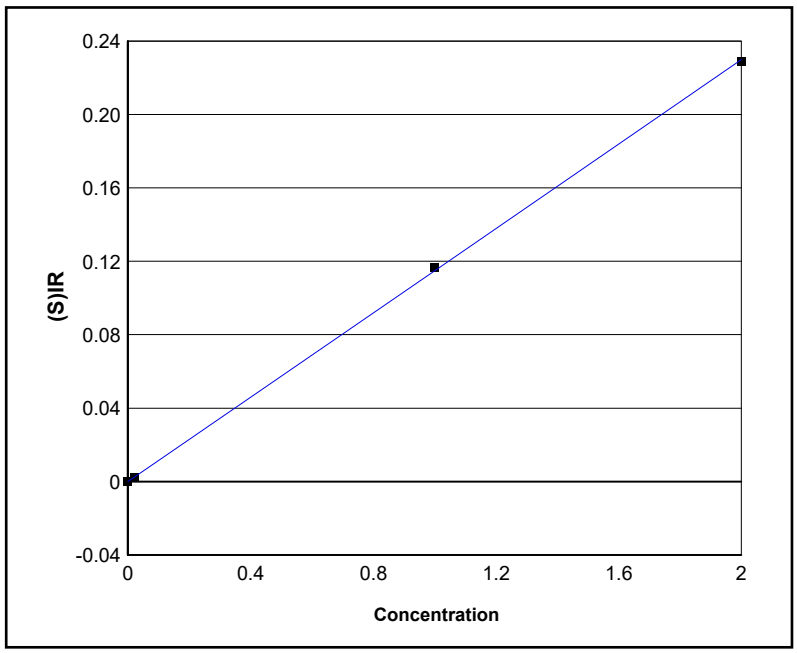
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000002314	0.0000002314	0.00000	-0.0028018	0.0015835	1
IC-6819272	0.0050000	0.0047282	-0.00027177	-5.4355	0.092816	0.0012711	1
IC-6817081	1.0000	1.0159	0.015885	1.5885	20.542	0.086954	1
IC-6797476	2.0000	1.9844	-0.015613	-0.78066	40.129	0.032103	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00017989
A1 (Gain):	0.45424
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

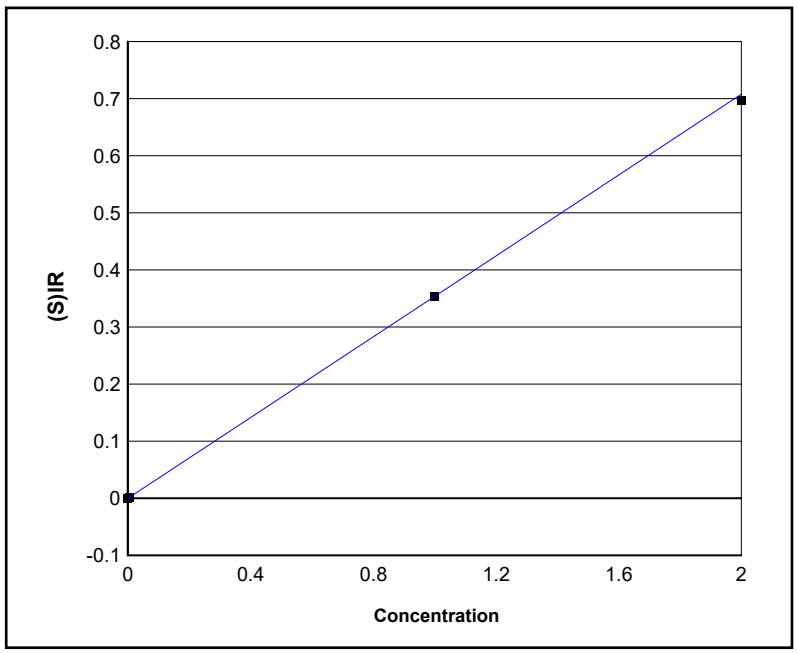
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000004599	0.0000004599	0.00000	-0.00017968	0.000032779	1
IC-6819272	0.0050000	0.0045222	-0.00047782	-9.5564	0.0018745	0.000066949	1
IC-6817081	1.0000	1.0067	0.0066893	0.66893	0.45717	0.00093066	1
IC-6797476	2.0000	1.9938	-0.0062115	-0.31058	0.90561	0.0011390	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00010910
A1 (Gain):	0.11498
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

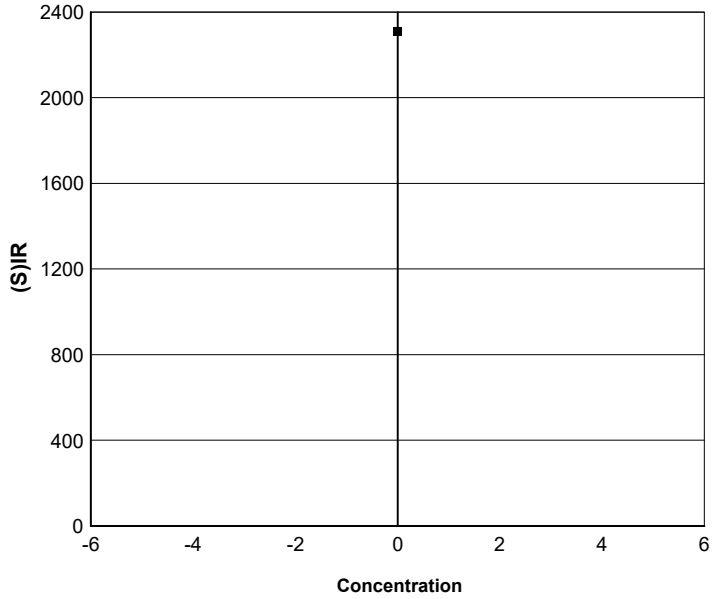
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000008018	0.0000008018	0.00000	-0.00010901	0.00011927	1
IC-6819272	0.020000	0.019061	-0.00093871	-4.6935	0.0020831	0.000068971	1
IC-6817081	1.0000	1.0128	0.012757	1.2757	0.11646	0.00022682	1
IC-6797476	2.0000	1.9882	-0.011819	-0.59097	0.22874	0.00048033	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00021934
A1 (Gain):	0.35401
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

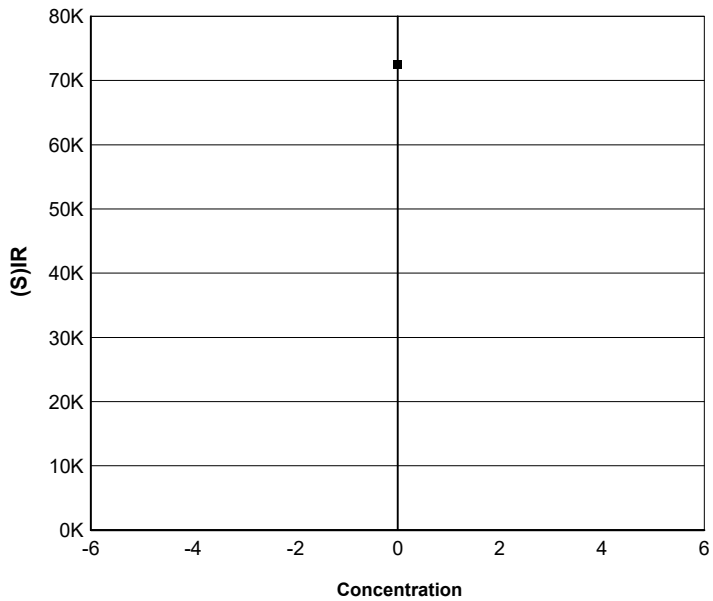
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000002878	0.0000002878	0.00000	-0.00021924	0.000022705	1
IC-6819272	0.0050000	0.0046860	-0.00031396	-6.2792	0.0013959	0.000016120	1
IC-6817081	1.0000	1.0101	0.010141	1.0141	0.35344	0.00018080	1
IC-6797476	2.0000	1.9902	-0.0098318	-0.49159	0.69643	0.00076809	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:15:05PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

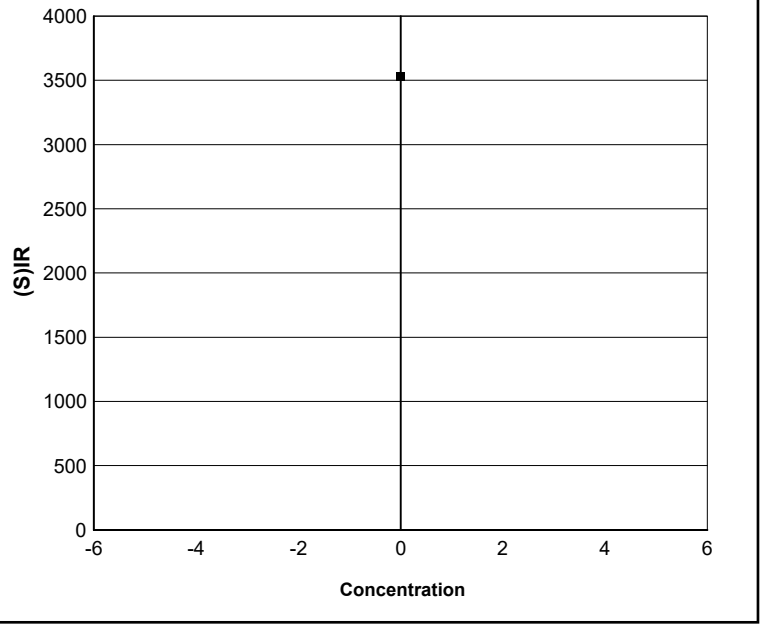
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.0000			0.0000	2,310	6.937	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:15:05PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

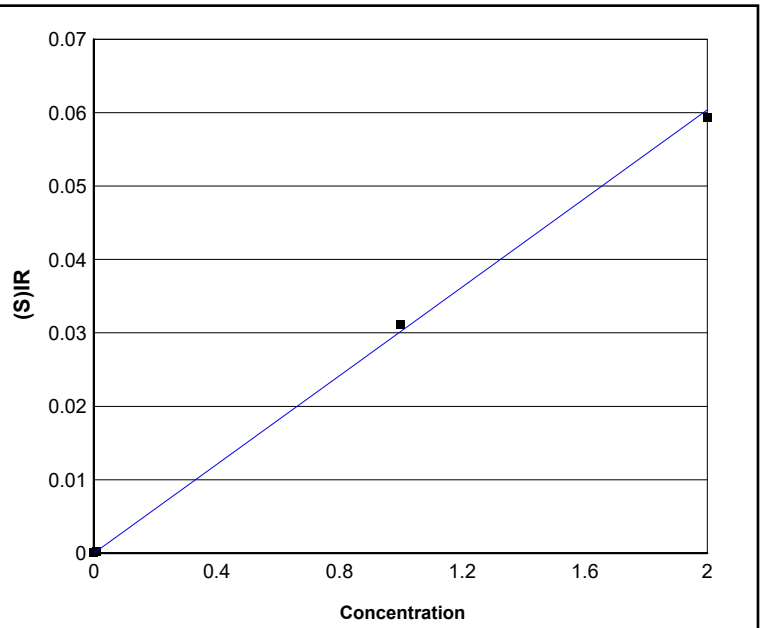
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.0000			0.0000	72,540	297.5	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:15:05PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.0000			0.0000	3,530	13.89	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	12/16/2021 1:26:20PM
Date of Fit:	12/16/2021 2:20:41PM
Type of Fit:	Linear
Correlation:	0.99969
A0 (Offset):	0.0000039952
A1 (Gain):	0.030193
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000008796	0.0000008796	0.00000	0.0000040218	0.0000096333	1
IC-6819272	0.010000	0.0089437	-0.0010563	-10.563	0.00027386	0.0000091401	1
IC-6817081	1.0000	1.0343	0.034273	3.4273	0.031188	0.000084452	1
IC-6797476	2.0000	1.9668	-0.033215	-1.6608	0.059300	0.00014010	1

Sample Name: ICIS-6819143 Acquired: 12/16/2021 13:11:09 Type: Cal
Method: ICAP1 New Stds (v404) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00027**	**.00048**	**.00004**	**.00230**	**.00871**	**.00192**	**.00050**
Stddev	.00007	.00049	.00003	.00017	.00034	.00015	.00034
%RSD	26.274	103.11	81.443	7.2314	3.8943	7.9701	67.446
#1	-.00032	.00083	.00002	.00218	.00847	.00203	.00026
#2	-.00022	.00013	.00006	.00242	.00895	.00181	.00074

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00584**	**.00113**	**.0008**	**-.00007**	**-.00003**	**-.00033**	**.00042**
Stddev	.00048	.00018	.0006	.00002	.00009	.00005	.00027
%RSD	8.2096	16.284	73.87	29.569	307.68	13.747	64.407
#1	.00618	.00126	.0013	-.00009	-.00010	-.00036	.00023
#2	.00551	.00100	.0004	-.00006	.00004	-.00030	.00061

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00006**	**.01024**	**.00692**	**-.00006**	**.00020**	**.00038**	**.00510**
Stddev	.00065	.00065	.00604	.00005	.00053	.00001	.00023
%RSD	1041.9	6.3528	87.227	82.504	259.39	2.4284	4.6039
#1	-.00040	.00978	.01119	-.00002	-.00017	.00037	.00526
#2	.00052	.01070	.00265	-.00009	.00058	.00038	.00493

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00806**	**-.03717**	**.00125**	**.00010**	**.0003**	**.00017**	**-.00019**
Stddev	.00256	.00091	.00001	.00023	.0001	.00012	.00011
%RSD	31.778	2.4407	1.1361	232.40	36.51	68.338	60.929
#1	.00625	-.03653	.00126	-.00006	.0002	.00025	-.00027
#2	.00987	-.03781	.00124	.00026	.0004	.00009	-.00011

Sample Name: ICIS-6819143 Acquired: 12/16/2021 13:11:09 Type: Cal
Method: ICAP1 New Stds (v404) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00148	-.00006	-.00280	-.00018	-.00011	-.00022	.00000
Stddev	.00044	.00007	.00158	.00003	.00012	.00002	.00001
%RSD	30.021	114.60	56.516	18.243	109.41	10.356	239.53
#1	.00116	-.00011	-.00392	-.00016	-.00019	-.00020	.00001
#2	.00179	-.00001	-.00168	-.00020	-.00002	-.00024	-.00000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4056.5	2310.2	72544.	3530.0
Stddev	8.5	6.9	297.	13.9
%RSD	.20872	.30029	.41005	.39343
#1	4062.4	2315.1	72754.	3520.2
#2	4050.5	2305.3	72333.	3539.8

Sample Name: IC-6819272 Acquired: 12/16/2021 13:15:09 Type: Cal
Method: ICAP1 New Stds (v404) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00176	.00644	.00143	.01626	.03817	.03019	.01632
Stddev	.00003	.00023	.00007	.00004	.00189	.00013	.00031
%RSD	1.4637	3.5864	5.0502	.26375	4.9426	.43414	1.9113
#1	.00175	.00660	.00138	.01623	.03684	.03028	.01655
#2	.00178	.00627	.00148	.01629	.03950	.03009	.01610

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.13103	.00867	.00459	.00082	.00276	.00533	.00080
Stddev	.00099	.00021	.00006	.00002	.00004	.00022	.00029
%RSD	.75873	2.4523	1.2386	1.9607	1.3477	4.2013	36.024
#1	.13174	.00852	.00463	.00081	.00278	.00549	.00100
#2	.13033	.00882	.00455	.00083	.00273	.00517	.00059

Elem	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.07367	.09310	.00457	.00205	.00408	.01404	.43690
Stddev	.00476	.00194	.00011	.00049	.00000	.00016	.00221
%RSD	6.4548	2.0803	2.4230	24.093	.08892	1.1710	.50521
#1	.07703	.09447	.00465	.00170	.00409	.01393	.43534
#2	.07031	.09173	.00450	.00240	.00408	.01416	.43846

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.02036	.00848	.00269	.0090	.00423	.00235	.01831
Stddev	.00032	.00013	.00000	.0000	.00032	.00006	.00055
%RSD	1.5624	1.5547	.12128	.1341	7.5602	2.7530	2.9970
#1	-.02013	.00858	.00269	.0090	.00400	.00231	.01870
#2	-.02058	.00839	.00269	.0090	.00445	.00240	.01792

Sample Name: IC-6819272 Acquired: 12/16/2021 13:15:09 Type: Cal
Method: ICAP1 New Stds (v404) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00161	.09282	.00187	.00208	.00140	.00027
Stddev	.00004	.00127	.00007	.00007	.00002	.00001
%RSD	2.5725	1.3695	3.5716	3.3110	1.1548	3.3375
#1	.00164	.09371	.00183	.00203	.00141	.00028
#2	.00158	.09192	.00192	.00213	.00138	.00027

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4066.8	2328.9	73149.	3544.3
Stddev	3.6	2.5	142.	10.2
%RSD	.08794	.10913	.19420	.28851
#1	4064.3	2327.1	73249.	3551.5
#2	4069.4	2330.7	73048.	3537.1

Sample Name: IC-6817081 Acquired: 12/16/2021 13:19:04 Type: Cal
Method: ICAP1 New Stds (v404) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.33664	1.4944	.11523	.80885	14.948	14.583	8.8068
Stddev	.00054	.0029	.00007	.00108	.072	.011	.0449
%RSD	.16128	.19198	.06045	.13347	.48146	.07870	.51001
#1	.33703	1.4923	.11528	.80809	14.897	14.575	8.7750
#2	.33626	1.4964	.11518	.80961	14.999	14.591	8.8385

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	13.266	4.0000	.0579	1.3810	.23223	.31223	4.8605
Stddev	.071	.0008	.0003	.0008	.00053	.00010	.0206
%RSD	.53224	.01937	.5303	.06087	.22718	.03048	.42303
#1	13.216	3.9994	.0581	1.3804	.23260	.31216	4.8459
#2	13.316	4.0005	.0576	1.3816	.23185	.31229	4.8750

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.29095	7.2152	3.2832	1.2380	.55992	1.2721	1.1874
Stddev	.00092	.0121	.0010	.0006	.00422	.0015	.0045
%RSD	.31475	.16723	.03007	.05087	.75303	.11572	.37719
#1	.29160	7.2067	3.2839	1.2375	.55694	1.2711	1.1843
#2	.29030	7.2238	3.2825	1.2384	.56290	1.2731	1.1906

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	23.907	1.0102	.82335	.28655	1.264	.23530	.10873
Stddev	.083	.0041	.00138	.00024	.001	.00060	.00051
%RSD	.34852	.40374	.16700	.08478	.0923	.25576	.46981
#1	23.848	1.0073	.82238	.28638	1.263	.23573	.10909
#2	23.966	1.0131	.82432	.28672	1.265	.23488	.10837

Sample Name: IC-6817081 Acquired: 12/16/2021 13:19:04 Type: Cal
Method: ICAP1 New Stds (v404) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.37804	.18875	20.542	.45717	.11646	.35344	.03119
Stddev	.00317	.00060	.087	.00093	.00023	.00018	.00008
%RSD	.83820	.31607	.42330	.20357	.19476	.05116	.27078
#1	.37579	.18832	20.481	.45651	.11630	.35357	.03125
#2	.38028	.18917	20.604	.45782	.11662	.35331	.03113

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3497.2	2218.1	67801.	3470.2
Stddev	9.6	6.7	81.	12.6
%RSD	.27445	.30024	.11981	.36202
#1	3490.4	2213.4	67859.	3479.1
#2	3504.0	2222.8	67744.	3461.4

Sample Name: IC-6797476 Acquired: 12/16/2021 13:22:45 Type: Cal
Method: ICAP1 New Stds (v404) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.66731	2.9193	.22825	1.5171	29.047	28.032	17.076
Stddev	.00174	.0011	.00073	.0003	.034	.229	.003
%RSD	.26116	.03668	.31873	.01847	.11867	.81830	.02027
#1	.66854	2.9185	.22773	1.5169	29.023	27.870	17.074
#2	.66608	2.9200	.22876	1.5173	29.072	28.195	17.078

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	25.853	7.8611	.1098	2.7694	.45285	.62568	9.4457
Stddev	.038	.0081	.0002	.0051	.00025	.00148	.0062
%RSD	.14561	.10335	.1540	.18480	.05486	.23672	.06578
#1	25.826	7.8554	.1099	2.7658	.45267	.62673	9.4413
#2	25.880	7.8669	.1096	2.7730	.45302	.62463	9.4501

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.57184	14.324	6.5694	2.4939	1.0960	2.5076	2.2679
Stddev	.00093	.020	.0204	.0049	.0013	.0057	.0100
%RSD	.16220	.14095	.31087	.19710	.11748	.22776	.43981
#1	.57250	14.310	6.5550	2.4974	1.0951	2.5116	2.2609
#2	.57119	14.338	6.5838	2.4905	1.0969	2.5035	2.2750

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	46.565	2.0116	1.6426	.57025	2.495	.46261	.21483
Stddev	.023	.0029	.0023	.00132	.006	.00064	.00030
%RSD	.04914	.14570	.13955	.23143	.2459	.13896	.13915
#1	46.549	2.0096	1.6409	.56932	2.490	.46216	.21504
#2	46.581	2.0137	1.6442	.57118	2.499	.46307	.21462

Sample Name: IC-6797476 Acquired: 12/16/2021 13:22:45 Type: Cal
Method: ICAP1 New Stds (v404) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.74049	.37847	40.129	.90561	.22874	.69643	.05930
Stddev	.00480	.00035	.032	.00114	.00048	.00077	.00014
%RSD	.64860	.09350	.08000	.12577	.20999	.11029	.23625
#1	.73709	.37822	40.106	.90642	.22840	.69698	.05920
#2	.74389	.37872	40.152	.90481	.22908	.69589	.05940

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3294.7	2191.8	65797.	3475.7
Stddev	2.4	.3	82.	2.9
%RSD	.07323	.01582	.12410	.08289
#1	3296.4	2192.1	65854.	3477.7
#2	3293.0	2191.6	65739.	3473.7

Sample Name: ICV-6817392 Acquired: 12/16/2021 13:26:25 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.72432	36.201	.73405	.73712	.72970	.74262	37.131
Stddev	.00039	.160	.00156	.00181	.00177	.00039	.159
%RSD	.05321	.44280	.21198	.24543	.24304	.05195	.42796
#1	.72405	36.088	.73515	.73840	.72844	.74235	37.018
#2	.72459	36.315	.73295	.73584	.73095	.74290	37.243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.72880	.0087	.71541	.73603	W .70002	37.805	36.433
Stddev	.00009	.0018	.00056	.00381	.00088	.106	.064
%RSD	.01217	21.10	.07878	.51771	.12601	.27933	.17573
#1	.72886	.0074	.71581	.73872	.69940	37.730	36.387
#2	.72873	.0100	.71501	.73333	.70064	37.879	36.478
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value					.75000		
Range					-5.0000%		

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.72121	36.490	.74572	.77302	36.310	.73057	.73597
Stddev	.00063	.058	.00099	.00091	.061	.00049	.00148
%RSD	.08781	.16009	.13219	.11728	.16740	.06692	.20044
#1	.72076	36.531	.74642	.77366	36.267	.73092	.73701
#2	.72165	36.449	.74503	.77238	36.353	.73023	.73493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICV-6817392 Acquired: 12/16/2021 13:26:25 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.48	.78221	.72926	7.6363	.71890	.72889	.73605
Stddev	.02	.00009	.00184	.0789	.00077	.00044	.00081
%RSD	.0980	.01125	.25289	1.0330	.10701	.06066	.10994
#1	18.46	.78215	.73057	7.5806	.71835	.72858	.73662
#2	18.49	.78228	.72796	7.6921	.71944	.72921	.73548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.73917	.73424	.72469
Stddev	.00182	.00114	.00300
%RSD	.24648	.15568	.41454
#1	.73789	.73505	.72681
#2	.74046	.73344	.72257
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3559.6	2239.7	68617.	3513.6
Stddev	2.8	2.4	116.	31.9
%RSD	.07828	.10807	.16834	.90758
#1	3561.6	2241.4	68535.	3536.1
#2	3557.7	2238.0	68698.	3491.0

Sample Name: ICB-6819143 Acquired: 12/16/2021 13:30:08 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00773**	**.00117**	**.00064**	**.00011**	**-.00003**	**.00081**	**.00004**
Stddev	.00027	.00286	.00193	.00010	.00001	.00003	.00265	.00008
%RSD	305.39	36.988	165.51	14.956	4.8194	122.61	325.48	169.60
#1	.00010	.00975	-.00020	.00057	.00011	-.00005	.00268	.00010
#2	-.00028	.00571	.00254	.00071	.00012	-.00000	-.00106	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0179**	**.00010**	**-.00003**	**.00047**	**.00543**	**.03326**	**-.00010**	**.00176**
Stddev	.0173	.00012	.00003	.00017	.00249	.01060	.00050	.00244
%RSD	96.67	117.22	98.744	37.544	45.943	31.869	522.11	138.84
#1	-.0057	.00002	-.00005	.00059	.00366	.04076	.00026	.00349
#2	-.0301	.00019	-.00001	.00034	.00719	.02577	-.00045	.00003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00657**	**-.00122**	**-.00004**	**.00026**	**-.0052**	**-.00051**	**.00759**
Stddev	.00001	.00094	.00306	.00007	.00049	.0009	.00110	.00030
%RSD	36.834	14.321	250.51	176.36	188.89	17.94	216.85	4.0167
#1	.00002	.00724	.00094	.00001	.00060	-.0058	.00027	.00737
#2	.00004	.00591	-.00338	-.00009	-.00009	-.0045	-.00129	.00780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB-6819143 Acquired: 12/16/2021 13:30:08 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00944	-.00014	.00004	.00052	.00080	.00014	.00002
Stddev	.01758	.00020	.00002	.00011	.00004	.00014	.00032
%RSD	186.16	143.45	47.306	22.022	5.0213	102.06	1708.1
#1	.02188	.00000	.00003	.00060	.00077	.00024	-.00021
#2	-.00299	-.00027	.00006	.00044	.00083	.00004	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4066.1	2298.3	72526.	3528.2
Stddev	6.1	4.3	121.	10.4
%RSD	.14893	.18771	.16619	.29579
#1	4070.4	2301.3	72441.	3520.9
#2	4061.8	2295.2	72611.	3535.6

Sample Name: ICVL-6819272 Acquired: 12/16/2021 13:34:03 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00578**	**.17909**	**.01284**	**.01848**	**.00203**	**.00197**	**.48435**	**.00191**
Stddev	.00004	.00229	.00170	.00043	.00002	.00001	.00097	.00011
%RSD	.76162	1.2814	13.220	2.3483	.85866	.73386	.19990	5.6803
#1	.00575	.17747	.01164	.01878	.00202	.00198	.48366	.00199
#2	.00581	.18071	.01404	.01817	.00204	.00196	.48503	.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0071**	**.00364**	**.00356**	**.00957**	**.05329**	**.47164**	**.02568**	**.18473**
Stddev	.0014	.00002	.00032	.00024	.00271	.00963	.00106	.00092
%RSD	19.59	.56754	8.9246	2.4815	5.0920	2.0416	4.1163	.49948
#1	.0080	.00363	.00334	.00940	.05521	.47844	.02493	.18408
#2	.0061	.00366	.00379	.00974	.05137	.46483	.02643	.18538
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00295**	**.00992**	**.91543**	**.00897**	**.00938**	**.1718**	**.01995**	**.02277**
Stddev	.00007	.00016	.00491	.00006	.00092	.0034	.00056	.00111
%RSD	2.2711	1.6259	.53605	.70996	9.8205	1.985	2.8138	4.8575
#1	.00290	.00980	.91890	.00893	.00873	.1742	.02034	.02198
#2	.00300	.01003	.91196	.00902	.01003	.1694	.01955	.02355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICVL-6819272 Acquired: 12/16/2021 13:34:03 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.46154	.00900	.00477	.00488	.01830	.00470	.00973
Stddev	.00482	.00001	.00002	.00008	.00031	.00010	.00006
%RSD	1.0447	.15118	.49810	1.6077	1.6827	2.2240	.66084
#1	.45813	.00899	.00476	.00493	.01808	.00463	.00978
#2	.46495	.00901	.00479	.00482	.01852	.00478	.00969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4050.8	2297.3	72644.	3533.3
Stddev	6.1	2.7	291.	7.4
%RSD	.15118	.11844	.40117	.20918
#1	4055.1	2299.2	72850.	3538.5
#2	4046.4	2295.4	72438.	3528.1

Sample Name: ICSA-6812501 Acquired: 12/16/2021 13:37:57 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00190**	**513.71**	**-.01010**	**-.00010**	**.01403**	**-.00002**	**484.91**	**.00055**
Stddev	.00025	.96	.00521	.00135	.00005	.00000	1.10	.00008
%RSD	13.162	.18736	51.583	1341.3	.33175	8.1868	.22736	14.673
#1	-.00172	514.39	-.01379	.00085	.01400	-.00002	484.13	.00061
#2	-.00207	513.03	-.00642	-.00105	.01406	-.00002	485.69	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0909**	**.00001**	**.00108**	**.00037**	**195.64**	**.14111**	**.00168**	**513.66**
Stddev	.0205	.00011	.00038	.00012	.07	.02403	.00065	.87
%RSD	22.56	830.05	35.006	33.098	.03560	17.026	38.670	.16991
#1	.1054	-.00006	.00135	.00029	195.59	.12412	.00214	514.28
#2	.0764	.00009	.00081	.00046	195.69	.15810	.00122	513.04
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00103**	**-.00166**	**.05991**	**.00423**	**.00472**	W **-.2144**	**.00001**	**.01337**
Stddev	.00006	.00030	.00365	.00005	.00068	.0007	.00069	.00538
%RSD	5.7179	18.219	6.0901	1.1261	14.460	.3049	6934.3	40.272
#1	-.00107	-.00145	.05733	.00420	.00424	-.2149	-.00048	.01717
#2	-.00099	-.00187	.06249	.00426	.00521	-.2140	.00050	.00956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit						.2000		
Low Limit						-.2000		

Sample Name: ICSA-6812501 Acquired: 12/16/2021 13:37:57 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00372	-.00366	.01342	.00214	-.00008	-.00096	.00281
Stddev	.01706	.00068	.00006	.00006	.00096	.00004	.00008
%RSD	459.08	18.741	.47591	2.6188	1186.5	4.2492	2.9714
#1	.01578	-.00317	.01346	.00218	.00060	-.00093	.00275
#2	-.00835	-.00414	.01337	.00210	-.00076	-.00098	.00287
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2973.2	1992.6	61686.	3392.5
Stddev	2.6	2.3	246.	10.4
%RSD	.08737	.11509	.39802	.30527
#1	2975.0	1994.2	61859.	3385.1
#2	2971.4	1991.0	61512.	3399.8

Sample Name: ICSAB-6743474 Acquired: 12/16/2021 13:41:57 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.54255**	**497.24**	**.50280**	**4.9258**	**.52335**	**.24916**	**467.82**	**.52719**
Stddev	.00039	.83	.00003	.0007	.00200	.00113	3.66	.00001
%RSD	.07118	.16646	.00649	.01438	.38194	.45551	.78178	.00159
#1	.54282	497.82	.50282	4.9253	.52476	.24996	470.41	.52719
#2	.54227	496.65	.50278	4.9263	.52193	.24836	465.24	.52718
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0542**	**.49339**	**.48703**	**.51144**	**190.27**	**5.2989**	**.00033**	**499.73**
Stddev	.0285	.00052	.00010	.00016	1.34	.0705	.00150	2.40
%RSD	52.66	.10547	.01962	.03136	.70399	1.3299	457.63	.48030
#1	.0743	.49302	.48696	.51156	191.21	5.3488	.00139	501.43
#2	.0340	.49376	.48710	.51133	189.32	5.2491	-.00073	498.03
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48392**	**.49655**	**5.1701**	**.49330**	**.50344**	**-.2311**	**.51491**	**.50612**
Stddev	.00102	.00114	.0162	.00001	.00247	.0026	.00101	.00429
%RSD	.21024	.22911	.31301	.00240	.49061	1.113	.19602	.84821
#1	.48464	.49575	5.1815	.49331	.50518	-.2293	.51420	.50916
#2	.48320	.49736	5.1587	.49329	.50169	-.2330	.51562	.50309
Check ?	Chk Pass	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICSAB-6743474 Acquired: 12/16/2021 13:41:57 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.8843**	**.49117**	**.50445**	**.49718**	**.48593**	**.48926**	**.46487**
Stddev	.0040	.00234	.00126	.00065	.00541	.00098	.00191
%RSD	.08182	.47665	.24889	.13100	1.1125	.19953	.41074
#1	4.8815	.48952	.50533	.49764	.48210	.48995	.46622
#2	4.8871	.49283	.50356	.49672	.48975	.48857	.46352
Check ?	Chk Pass	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2978.7**	**2006.8**	**61459.**	**3383.5**
Stddev	1.7	2.0	64.	5.1
%RSD	.05651	.09868	.10434	.15167
#1	2979.9	2005.4	61414.	3379.9
#2	2977.6	2008.2	61504.	3387.2

Sample Name: ICEX1 Acquired: 12/16/2021 13:45:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00019	-.04965	4.8481	.00272	.00002	F .00229
Stddev	.00021	.02314	.0015	.00022	.00001	.00009
%RSD	112.54	46.606	.03089	8.1005	50.085	3.9993
#1	.00034	-.03329	4.8471	.00288	.00002	.00222
#2	.00004	-.06601	4.8492	.00257	.00001	.00235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						.00200
Low Limit						-.00200

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01391	.00001	-.0214	.00014	.00101	25.104
Stddev	.00003	.00004	.0228	.00011	.00011	.001
%RSD	.23261	324.03	106.7	82.954	11.189	.00527
#1	.01389	.00004	-.0052	.00006	.00093	25.103
#2	.01394	-.00002	-.0375	.00022	.00109	25.105
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX1 Acquired: 12/16/2021 13:45:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01795**	**-.04846**	**-.00212**	**.00989**	**-.00010**	**-.00136**
Stddev	.00051	.00416	.00007	.00017	.00003	.00022
%RSD	2.8348	8.5822	3.3066	1.6733	29.623	16.243
#1	.01759	-.04552	-.00207	.01001	-.00012	-.00121
#2	.01831	-.05141	-.00217	.00978	-.00008	-.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00544**	**.00004**	**-.00014**	**-.0103**	**.00243**	**.00099**
Stddev	.00066	.00026	.00018	.0031	.00087	.00270
%RSD	12.124	658.08	129.44	30.49	35.907	273.86
#1	-.00591	.00023	-.00001	-.0081	.00182	-.00092
#2	-.00498	-.00015	-.00027	-.0125	.00305	.00289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX1 Acquired: 12/16/2021 13:45:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01606	-.00023	-.00000	.00062	.00110	4.9776
Stddev	.00071	.00092	.00001	.00007	.00047	.0118
%RSD	4.3961	398.69	505.49	10.780	42.681	.23647
#1	.01556	-.00088	-.00001	.00057	.00144	4.9859
#2	.01656	.00042	.00000	.00067	.00077	4.9693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00098
Stddev	.00001
%RSD	1.0126
#1	.00097
#2	.00098
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICEX1 Acquired: 12/16/2021 13:45:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4029.6	2292.4	72593.	3523.3
Stddev	1.1	4.8	313.	13.9
%RSD	.02705	.20994	.43066	.39326
#1	4028.9	2295.8	72372.	3533.1
#2	4030.4	2289.0	72814.	3513.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.339%	99.229%	100.07%	99.811%
Range				

Sample Name: ICEX2 Acquired: 12/16/2021 13:49:55 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00288	.02170	.00699	.00269	.00008	.00006
Stddev	.00038	.01174	.00213	.00018	.00000	.00011
%RSD	13.095	54.123	30.473	6.5355	2.9269	179.71
#1	.00314	.03000	.00548	.00281	.00009	.00014
#2	.00261	.01339	.00850	.00256	.00008	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00323	.00024	-.0018	-.00355	.00025	-.00378
Stddev	.00014	.00002	.0064	.00022	.00012	.00006
%RSD	4.2406	7.6650	351.1	6.2429	48.279	1.6534
#1	.00313	.00023	-.0064	-.00370	.00034	-.00382
#2	.00332	.00026	.0027	-.00339	.00016	-.00373
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX2 Acquired: 12/16/2021 13:49:55 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00201	-.03948	9.6843	-.03887	.00008	-.00040
Stddev	.00563	.00142	.0022	.00366	.00002	.00014
%RSD	279.46	3.5945	.02265	9.4058	31.154	35.669
#1	-.00197	-.03848	9.6827	-.04145	.00006	-.00030
#2	.00599	-.04048	9.6858	-.03628	.00010	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00257	.00779	-.00419	-.0420	.00013	.00054
Stddev	.00084	.00021	.00091	.0042	.00139	.00077
%RSD	32.671	2.7003	21.742	10.06	1058.8	141.47
#1	-.00316	.00764	-.00483	-.0450	.00111	.00109
#2	-.00198	.00794	-.00354	-.0390	-.00085	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX2 Acquired: 12/16/2021 13:49:55 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.598**	**-.00196**	**.00008**	**19.969**	**20.672**	**.00156**
Stddev	.180	.00031	.00007	.047	.006	.00011
%RSD	.35556	15.988	89.363	.23329	.03082	7.3171
#1	50.470	-.00173	.00013	20.002	20.677	.00164
#2	50.725	-.00218	.00003	19.936	20.668	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00055**
Stddev	.00086
%RSD	156.69
#1	-.00115
#2	.00006
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICEX2 Acquired: 12/16/2021 13:49:55 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3781.9	2229.2	69828.	3472.9
Stddev	5.7	6.6	184.	6.5
%RSD	.14981	.29661	.26289	.18778
#1	3777.9	2224.5	69958.	3468.3
#2	3785.9	2233.9	69698.	3477.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.232%	96.492%	96.256%	98.381%
Range				

Sample Name: ICEX3 Acquired: 12/16/2021 13:53:54 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00138**	**.05751**	**.00210**	**.00161**	**.00000**	**-.00002**
Stddev	.00003	.01042	.00077	.00013	.00001	.00000
%RSD	2.3195	18.115	36.712	8.0097	1432.7	22.382
#1	-.00136	.05014	.00265	.00171	-.00001	-.00001
#2	-.00140	.06488	.00156	.00152	.00001	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03351**	**.00014**	**-.1270**	**.00020**	**-.00000**	**.00083**
Stddev	.00182	.00007	.0118	.00007	.00024	.00001
%RSD	5.4297	52.149	9.286	37.181	5000.6	1.6593
#1	.03479	.00009	-.1354	.00025	.00017	.00082
#2	.03222	.00019	-.1187	.00014	-.00018	.00084
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX3 Acquired: 12/16/2021 13:53:54 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576-2	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}2	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00628	-.02835	.00105	-.01966	51.065	-.00440
Stddev	.00018	.01921	.00018	.00179	.043	.00005
%RSD	2.7938	67.760	17.057	9.0876	.08363	1.1751
#1	.00615	-.04193	.00118	-.01839	51.035	-.00436
#2	.00640	-.01477	.00092	-.02092	51.096	-.00444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00588	.00013	.00601	99.57	-.00202	.00359
Stddev	.00229	.00014	.00025	.07	.00094	.00043
%RSD	38.952	104.52	4.1249	.0747	46.488	11.972
#1	.00750	.00023	.00619	99.62	-.00269	.00329
#2	.00426	.00003	.00584	99.52	-.00136	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX3 Acquired: 12/16/2021 13:53:54 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02491	.00043	.00009	.00019	-.00222	.00026
Stddev	.01360	.00028	.00005	.00020	.00101	.00011
%RSD	54.605	65.222	57.107	105.93	45.694	43.558
#1	.01529	.00023	.00012	.00005	-.00293	.00034
#2	.03453	.00063	.00005	.00033	-.00150	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00273
Stddev	.00011
%RSD	3.9015
#1	.00265
#2	.00280
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICEX3 Acquired: 12/16/2021 13:53:54 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4013.3	2274.5	72261.	3508.7
Stddev	9.2	6.9	342.	23.5
%RSD	.22932	.30551	.47390	.67070
#1	4006.8	2269.6	72503.	3525.3
#2	4019.8	2279.4	72019.	3492.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.936%	98.453%	99.610%	99.396%
Range				

Sample Name: ICEX4 Acquired: 12/16/2021 13:57:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.01561	.00042	-.00057	.00006	-.00001
Stddev	.00019	.00909	.00382	.00008	.00001	.00002
%RSD	612.06	58.217	919.56	14.488	9.6582	157.11
#1	.00016	.02203	-.00228	-.00051	.00007	-.00003
#2	-.00010	.00918	.00311	-.00063	.00006	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00852	-.00064	-.0027	19.353	10.247	.00522
Stddev	.00085	.00005	.0169	.017	.043	.00013
%RSD	10.026	7.7563	619.0	.08634	.41686	2.4549
#1	.00912	-.00061	.0092	19.341	10.216	.00513
#2	.00792	-.00068	-.0147	19.365	10.277	.00531
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX4 Acquired: 12/16/2021 13:57:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00502	-.03969	-.00058	-.00777	.00089	-.00312
Stddev	.00679	.01694	.00004	.00009	.00005	.00010
%RSD	135.13	42.674	6.5303	1.1151	6.1048	3.0592
#1	.00982	-.05166	-.00055	-.00783	.00092	-.00318
#2	.00022	-.02771	-.00061	-.00771	.00085	-.00305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01061	9.7221	-.00107	-.0075	-.00044	.00210
Stddev	.00338	.0200	.00034	.0035	.00024	.00447
%RSD	31.854	.20627	31.545	46.08	54.855	212.95
#1	-.00822	9.7079	-.00130	-.0100	-.00061	.00526
#2	-.01300	9.7362	-.00083	-.0051	-.00027	-.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX4 Acquired: 12/16/2021 13:57:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.07321**	**-.00010**	**.00006**	**.00333**	**-.00006**	**.00004**
Stddev	.00908	.00001	.00001	.00009	.00031	.00012
%RSD	12.396	10.748	8.2802	2.7419	501.64	302.58
#1	-.06679	-.00009	.00006	.00339	.00016	-.00004
#2	-.07962	-.00011	.00007	.00326	-.00029	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00052**
Stddev	.00084
%RSD	162.45
#1	-.00008
#2	.00111
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICEX4 Acquired: 12/16/2021 13:57:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3996.3	2259.4	72360.	3538.7
Stddev	3.0	1.2	438.	9.2
%RSD	.07461	.05502	.60498	.26086
#1	3998.4	2258.5	72669.	3545.2
#2	3994.2	2260.3	72050.	3532.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.516%	97.801%	99.747%	100.25%
Range				

Sample Name: ICEX5 Acquired: 12/16/2021 14:01:44 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00021	.10402	.00701	.00101	-.00005	-.00020
Stddev	.00002	.01001	.00163	.00009	.00001	.00001
%RSD	10.791	9.6241	23.223	8.7416	16.352	5.1085
#1	.00019	.09694	.00586	.00095	-.00005	-.00021
#2	.00022	.11109	.00816	.00107	-.00006	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00634	.00009	-.0094	-.00006	-.00013	-.00063
Stddev	.00238	.00003	.0055	.00016	.00027	.00003
%RSD	37.510	27.888	58.34	272.42	206.34	5.0499
#1	.00466	.00007	-.0055	.00005	-.00032	-.00061
#2	.00802	.00011	-.0133	-.00017	.00006	-.00066
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX5 Acquired: 12/16/2021 14:01:44 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00335**	**-.04505**	**-.00113**	**-.06782**	**.00017**	**5.1512**
Stddev	.00399	.03050	.00011	.00096	.00003	.0292
%RSD	119.12	67.713	9.3811	1.4084	20.059	.56638
#1	-.00053	-.02348	-.00121	-.06850	.00020	5.1305
#2	-.00616	-.06661	-.00106	-.06715	.00015	5.1718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00345**	**.00003**	**.00055**	**-.0385**	**-.00133**	**.00180**
Stddev	.00725	.00014	.00041	.0004	.00237	.00111
%RSD	210.22	432.18	75.019	1.099	177.45	61.754
#1	-.00168	-.00007	.00085	-.0382	.00034	.00101
#2	.00858	.00013	.00026	-.0388	-.00301	.00258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICEX5 Acquired: 12/16/2021 14:01:44 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14363	.00040	.00006	F .00641	-.00041	.00099
Stddev	.00261	.00014	.00000	.00022	.00102	.00018
%RSD	1.8162	34.071	7.1536	3.3870	248.55	17.590
#1	.14178	.00049	.00006	.00626	.00031	.00087
#2	.14547	.00030	.00005	.00656	-.00113	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.00500		
Low Limit				-.00500		

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	-.00070
Stddev	.00021
%RSD	29.774
#1	-.00055
#2	-.00084
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICEX5 Acquired: 12/16/2021 14:01:44 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4047.8	2283.8	72933.	3533.3
Stddev	11.0	7.0	68.	9.8
%RSD	.27197	.30836	.09354	.27613
#1	4055.6	2288.8	72981.	3540.2
#2	4040.1	2278.9	72885.	3526.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.788%	98.857%	100.54%	100.09%
Range				

Sample Name: CCV-6817081 Acquired: 12/16/2021 14:05:38 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0057	49.782	1.0139	1.0399	.99557	1.0081	50.503	1.0111
Stddev	.0015	.365	.0076	.0010	.00470	.0076	.370	.0009
%RSD	.14756	.73268	.75119	.09880	.47229	.75209	.73344	.08710
#1	1.0068	50.039	1.0192	1.0392	.99889	1.0135	50.765	1.0117
#2	1.0047	49.524	1.0085	1.0406	.99224	1.0028	50.241	1.0104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.040	.99343	1.0101	.99153	50.850	49.699	.99139	49.938
Stddev	.004	.00182	.0033	.00083	.212	.320	.00552	.205
%RSD	.3632	.18275	.32472	.08334	.41703	.64313	.55671	.41014
#1	1.043	.99215	1.0124	.99094	51.000	49.925	.99529	50.083
#2	1.037	.99472	1.0078	.99211	50.700	49.473	.98749	49.793
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0078	1.0851	49.441	.99100	.99969	25.21	1.0049	1.0014
Stddev	.0031	.0067	.295	.00212	.00132	.07	.0014	.0039
%RSD	.30457	.61774	.59742	.21392	.13216	.2651	.13572	.38414
#1	1.0100	1.0898	49.650	.98950	1.0006	25.26	1.0039	1.0042
#2	1.0056	1.0803	49.232	.99250	.99876	25.16	1.0059	.99871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/16/2021 14:05:38 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.061**	**.98955**	**.99436**	**1.0046**	**1.0079**	**1.0064**	**1.0427**
Stddev	.067	.00368	.00508	.0026	.0013	.0034	.0083
%RSD	.66873	.37202	.51050	.26093	.12544	.33290	.79460
#1	10.109	.98695	.99795	1.0065	1.0070	1.0088	1.0485
#2	10.014	.99216	.99077	1.0028	1.0088	1.0040	1.0368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3474.8**	**2191.0**	**67565.**	**3444.9**
Stddev	6.5	.5	139.	27.3
%RSD	.18674	.02450	.20611	.79126
#1	3479.4	2190.6	67467.	3425.7
#2	3470.2	2191.4	67663.	3464.2

Sample Name: CCB-6819143 Acquired: 12/16/2021 14:09:19 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.01811**	**.00042**	**.00036**	**.00010**	**-.00006**	**.00140**	**.00004**
Stddev	.00039	.03382	.00198	.00013	.00001	.00002	.00502	.00002
%RSD	495.11	186.76	477.49	36.093	5.6537	28.267	359.26	40.524
#1	-.00035	-.00581	-.00099	.00045	.00011	-.00005	.00494	.00005
#2	.00020	.04203	.00182	.00027	.00010	-.00007	-.00215	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0146**	**.00003**	**.00024**	**.00056**	**.00540**	**-.00820**	**-.00088**	**.00128**
Stddev	.0131	.00006	.00026	.00062	.00361	.04478	.00037	.00008
%RSD	89.95	202.67	109.41	109.29	66.814	546.06	42.312	6.2073
#1	-.0053	.00007	.00005	.00100	.00285	.02347	-.00114	.00122
#2	-.0239	-.00001	.00042	.00013	.00795	-.03987	-.00062	.00134
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	F **.01949**	**-.01104**	**-.00017**	**.00011**	**-.0072**	**.00061**	**.00359**
Stddev	.00008	.00293	.00060	.00016	.00105	.0007	.00089	.00202
%RSD	632.23	15.026	5.4821	92.152	934.42	10.02	145.94	56.155
#1	.00004	.02156	-.01146	-.00028	.00086	-.0067	.00124	.00502
#2	-.00007	.01742	-.01061	-.00006	-.00063	-.0077	-.00002	.00216
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.01000						
Low Limit		-.01000						

Sample Name: CCB-6819143 Acquired: 12/16/2021 14:09:19 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	TI1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00316**	**.00015**	**.00006**	**.00091**	**.00093**	**.00008**	**-.00042**
Stddev	.02864	.00009	.00011	.00023	.00124	.00019	.00058
%RSD	907.78	59.984	168.34	24.744	133.16	230.38	137.59
#1	.01710	.00009	.00014	.00075	.00005	.00022	-.00083
#2	-.02341	.00022	-.00001	.00107	.00181	-.00005	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4058.2**	**2257.7**	**72417.**	**3485.1**
Stddev	13.1	9.5	447.	3.4
%RSD	.32372	.42075	.61705	.09886
#1	4067.5	2264.4	72101.	3482.7
#2	4048.9	2250.9	72733.	3487.6

Sample Name: CCVL-6819272 Acquired: 12/16/2021 14:24:34 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00600**	**.19049**	**.01311**	**.01775**	**.00201**	**.00196**	**.47868**	**.00188**
Stddev	.00004	.01184	.00055	.00017	.00001	.00002	.00135	.00003
%RSD	.72043	6.2158	4.1631	.94774	.51916	1.1443	.28300	1.7238
#1	.00603	.18212	.01349	.01763	.00200	.00194	.47772	.00186
#2	.00597	.19886	.01272	.01786	.00202	.00197	.47964	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0048**	**.00356**	**.00379**	**.00960**	**.04953**	**.40952**	**.02503**	**.18485**
Stddev	.0084	.00005	.00026	.00006	.00032	.00867	.00031	.00017
%RSD	173.8	1.5438	6.9338	.57436	.63616	2.1183	1.2238	.09016
#1	-.0108	.00360	.00397	.00956	.04976	.41566	.02524	.18497
#2	.0011	.00352	.00360	.00964	.04931	.40339	.02481	.18473
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00290**	**.00784**	**.90478**	**.00903**	**.01018**	**.1661**	**.01751**	**.02300**
Stddev	.00003	.00020	.00037	.00007	.00085	.0020	.00114	.00071
%RSD	.90410	2.5848	.04044	.75929	8.3176	1.212	6.4921	3.0949
#1	.00292	.00770	.90504	.00898	.01078	.1676	.01671	.02351
#2	.00288	.00799	.90452	.00908	.00958	.1647	.01831	.02250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6819272 Acquired: 12/16/2021 14:24:34 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.45778	.00931	.00476	.00530	.01826	.00470	.00886
Stddev	.01044	.00018	.00009	.00025	.00049	.00016	.00043
%RSD	2.2796	1.9307	1.8726	4.7604	2.7047	3.3742	4.7968
#1	.45040	.00944	.00483	.00548	.01791	.00481	.00856
#2	.46516	.00919	.00470	.00512	.01861	.00459	.00916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4037.8	2300.0	72305.	3517.1
Stddev	3.0	2.2	99.	.1
%RSD	.07368	.09697	.13658	.00233
#1	4039.9	2301.5	72375.	3517.1
#2	4035.7	2298.4	72235.	3517.0

Sample Name: MB 480-608135/1-A Acquired: 12/16/2021 14:28:28 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.01608**	**-.00098**	**-.00078**	**.00001**	**.00001**
Stddev	.00023	.00848	.00169	.00007	.00000	.00007
%RSD	130.47	52.709	172.28	9.2828	6.8525	1031.3
#1	-.00035	.01009	.00021	-.00083	.00001	.00006
#2	-.00001	.02208	-.00218	-.00073	.00001	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01164**	**-.00015**	**-.0133**	**.00004**	**.00010**	**.00043**
Stddev	.00606	.00008	.0265	.00021	.00003	.00024
%RSD	52.040	55.351	199.5	474.99	26.676	55.709
#1	.01593	-.00009	-.0320	.00019	.00012	.00060
#2	.00736	-.00020	.0054	-.00010	.00008	.00026
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-608135/1-A Acquired: 12/16/2021 14:28:28 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00101	-.06591	-.00174	.00263	.00007	-.00306
Stddev	.00320	.01688	.00036	.00401	.00004	.00001
%RSD	316.21	25.609	20.685	152.52	61.819	.28756
#1	-.00125	-.07785	-.00200	.00546	.00004	-.00306
#2	.00328	-.05398	-.00149	-.00021	.00010	-.00307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00888	-.00015	.00009	-.0062	-.00043	-.00062
Stddev	.00722	.00010	.00008	.0011	.00073	.00130
%RSD	81.259	67.240	82.785	17.57	171.02	208.24
#1	-.00378	-.00008	.00004	-.0055	.00009	-.00154
#2	-.01399	-.00022	.00015	-.0070	-.00095	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-608135/1-A Acquired: 12/16/2021 14:28:28 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00190	-.00002	.00007	.00031	.00000	.00040
Stddev	.01833	.00031	.00001	.00009	.00013	.00009
%RSD	966.16	1402.1	9.0571	29.130	4354.2	21.710
#1	-.01107	-.00024	.00007	.00037	-.00009	.00046
#2	.01486	.00020	.00008	.00024	.00009	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00079
Stddev	.00007
%RSD	8.3451
#1	.00074
#2	.00083
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: MB 480-608135/1-A Acquired: 12/16/2021 14:28:28 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4050.4	2279.3	73082.	3541.6
Stddev	7.4	4.3	159.	27.6
%RSD	.18303	.19032	.21795	.78024
#1	4045.1	2276.3	73195.	3522.1
#2	4055.6	2282.4	72970.	3561.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.850%	98.662%	100.74%	100.33%
Range				

Sample Name: LCS 480-608135/2-A Acquired: 12/16/2021 14:32:23 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05141	10.352	.21620	.21142	.22000	.21947
Stddev	.00014	.045	.00087	.00024	.00033	.00097
%RSD	.27742	.43158	.40198	.11118	.15220	.44393
#1	.05151	10.321	.21559	.21126	.22024	.21878
#2	.05131	10.384	.21681	.21159	.21976	.22016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.455	.20998	.0041	.20197	.20698	F .27771
Stddev	.025	.00002	.0181	.00021	.00023	.00018
%RSD	.24006	.00977	441.8	.10505	.10872	.06574
#1	10.437	.20999	-.0087	.20212	.20682	.27784
#2	10.473	.20996	.0169	.20182	.20714	.27758
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail
High Limit						.23000
Low Limit						.17000

Sample Name: LCS 480-608135/2-A Acquired: 12/16/2021 14:32:23 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.711**	**10.240**	**.20072**	**10.654**	**.21406**	**.21764**
Stddev	.030	.023	.00022	.007	.00050	.00021
%RSD	.28471	.21988	.11044	.06305	.23169	.09425
#1	10.690	10.224	.20088	10.649	.21441	.21750
#2	10.733	10.256	.20056	10.659	.21371	.21779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.099**	**.20293**	**.20831**	**10.29**	**.22087**	**.20374**
Stddev	.018	.00038	.00053	.01	.00151	.00130
%RSD	.17941	.18639	.25538	.1053	.68371	.63594
#1	10.086	.20266	.20869	10.30	.21980	.20466
#2	10.112	.20319	.20793	10.28	.22194	.20283
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCS 480-608135/2-A Acquired: 12/16/2021 14:32:23 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.7761	.19672	.20804	.21043	.21296	.20482
Stddev	.0416	.00018	.00067	.00047	.00034	.00005
%RSD	.42555	.09353	.32021	.22542	.15875	.02431
#1	9.7467	.19659	.20757	.21076	.21272	.20478
#2	9.8055	.19685	.20852	.21009	.21320	.20485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21277
Stddev	.00131
%RSD	.61667
#1	.21184
#2	.21370
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: LCS 480-608135/2-A Acquired: 12/16/2021 14:32:23 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3789.1	2245.1	70743.	3550.1
Stddev	3.0	4.0	111.	1.4
%RSD	.07934	.17973	.15633	.04043
#1	3786.9	2242.3	70665.	3549.1
#2	3791.2	2248.0	70822.	3551.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.408%	97.181%	97.518%	100.57%
Range				

Sample Name: 480-193123-B-1-A Acquired: 12/16/2021 14:36:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	.01976	.00622	.09039	.16707	.00002
Stddev	.00021	.01235	.00001	.00030	.00051	.00003
%RSD	62.783	62.507	.19021	.33492	.30454	188.88
#1	.00047	.02849	.00623	.09060	.16671	-.00001
#2	.00018	.01102	.00622	.09017	.16743	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	44.250	.00013	-.0004	-.00014	.00026	.00039
Stddev	.489	.00000	.0343	.00001	.00009	.00022
%RSD	1.1060	1.0556	8535.	7.2281	33.489	56.800
#1	44.596	.00013	.0238	-.00013	.00032	.00023
#2	43.904	.00014	-.0246	-.00014	.00020	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-1-A Acquired: 12/16/2021 14:36:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07937	1.3523	.01000	52.565	.01014	.00182
Stddev	.00283	.0073	.00072	.165	.00014	.00009
%RSD	3.5626	.53918	7.1661	.31458	1.3367	4.7148
#1	.08137	1.3575	.01051	52.448	.01005	.00188
#2	.07737	1.3472	.00949	52.682	.01024	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.736	-.00002	.00117	11.27	-.00130	-.00143
Stddev	.015	.00002	.00040	.00	.00079	.00292
%RSD	.10612	105.49	34.215	.0391	60.640	203.68
#1	13.747	-.00003	.00089	11.27	-.00186	.00063
#2	13.726	-.00000	.00146	11.27	-.00075	-.00350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-1-A Acquired: 12/16/2021 14:36:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.698**	**-.00014**	**1.1180**	**.00036**	**.00183**	**-.00017**
Stddev	.282	.00081	.0005	.00016	.00065	.00034
%RSD	2.0559	577.92	.04474	43.998	35.735	200.59
#1	13.897	.00043	1.1183	.00025	.00229	-.00041
#2	13.499	-.00071	1.1176	.00047	.00137	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00004**
Stddev	.00004
%RSD	101.15
#1	.00007
#2	.00001
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193123-B-1-A Acquired: 12/16/2021 14:36:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3642.2	2176.2	68437.	3469.3
Stddev	.3	.2	249.	45.3
%RSD	.00875	.01123	.36429	1.3063
#1	3642.0	2176.4	68614.	3437.2
#2	3642.4	2176.0	68261.	3501.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.788%	94.198%	94.340%	98.279%
Range				

Sample Name: 480-193123-B-2-A Acquired: 12/16/2021 14:39:57 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	.00662	-.00052	.17347	.03973	.00002
Stddev	.00009	.00515	.00069	.00007	.00005	.00003
%RSD	17.182	77.842	131.65	.03796	.12513	141.81
#1	.00058	.01026	-.00004	.17351	.03970	-.00000
#2	.00046	.00297	-.00101	.17342	.03977	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	83.599	.00013	.0096	-.00001	.00035	.00070
Stddev	.015	.00014	.0031	.00024	.00011	.00014
%RSD	.01795	112.76	31.80	2592.5	29.803	20.755
#1	83.610	.00003	.0118	.00016	.00028	.00080
#2	83.589	.00023	.0075	-.00018	.00043	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-2-A Acquired: 12/16/2021 14:39:57 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01594	2.2888	.01031	39.425	.01004	-.00096
Stddev	.00022	.0011	.00052	.060	.00001	.00008
%RSD	1.3585	.04824	5.0718	.15193	.14162	7.8786
#1	.01609	2.2896	.01068	39.467	.01003	-.00101
#2	.01579	2.2880	.00994	39.382	.01005	-.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.3884	.00110	.00078	47.77	-.00016	-.00383
Stddev	.0071	.00011	.00082	.14	.00011	.00330
%RSD	.13248	9.5812	105.67	.2941	69.293	86.143
#1	5.3834	.00118	.00136	47.87	-.00025	-.00616
#2	5.3935	.00103	.00020	47.67	-.00008	-.00150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-2-A Acquired: 12/16/2021 14:39:57 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.2942	-.00083	F 31.265	.00066	.00126	-.00005
Stddev	.0236	.00057	.234	.00014	.00103	.00014
%RSD	.44505	68.603	.74963	21.555	82.355	268.87
#1	5.3109	-.00043	31.099	.00076	.00199	-.00015
#2	5.2776	-.00123	31.430	.00056	.00052	.00005
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000			
Low Limit			-.00500			

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00164
Stddev	.00017
%RSD	10.593
#1	.00176
#2	.00151
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193123-B-2-A Acquired: 12/16/2021 14:39:57 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3599.9	2126.3	67614.	3452.9
Stddev	4.8	2.1	23.	5.2
%RSD	.13272	.09944	.03413	.15143
#1	3603.2	2124.8	67630.	3449.2
#2	3596.5	2127.8	67597.	3456.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.744%	92.039%	93.204%	97.814%
Range				

Sample Name: 480-193123-B-3-A Acquired: 12/16/2021 14:43:54 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00042	-.00802	.00157	.07277	.06281	.00009
Stddev	.00014	.00465	.00064	.00037	.00008	.00001
%RSD	34.362	57.976	40.808	.51525	.12153	7.3744
#1	.00032	-.01130	.00111	.07250	.06287	.00010
#2	.00052	-.00473	.00202	.07303	.06276	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	76.585	.00017	.0116	.00016	.00016	.00137
Stddev	.255	.00019	.0328	.00008	.00015	.00009
%RSD	.33354	111.58	283.5	50.154	91.833	6.5858
#1	76.405	.00030	.0348	.00021	.00027	.00131
#2	76.766	.00004	-.0116	.00010	.00006	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-3-A Acquired: 12/16/2021 14:43:54 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03606	1.7732	.00805	35.777	.00961	-.00244
Stddev	.00312	.0058	.00057	.078	.00003	.00018
%RSD	8.6592	.32540	7.1142	.21681	.35042	7.4532
#1	.03385	1.7691	.00764	35.723	.00958	-.00232
#2	.03827	1.7772	.00845	35.832	.00963	-.00257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.2532	.00107	.00035	18.64	-.00191	-.00224
Stddev	.0044	.00001	.00013	.08	.00062	.00321
%RSD	.13604	.73470	38.776	.4034	32.163	143.41
#1	3.2501	.00107	.00025	18.69	-.00148	.00003
#2	3.2564	.00108	.00044	18.58	-.00235	-.00451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-3-A Acquired: 12/16/2021 14:43:54 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.6161	-.00029	F 25.245	.00075	.00006	-.00019
Stddev	.0615	.00002	.230	.00004	.00006	.00026
%RSD	.93011	8.4683	.91165	4.7122	98.786	136.83
#1	6.5726	-.00030	25.083	.00072	.00002	-.00001
#2	6.6596	-.00027	25.408	.00077	.00011	-.00038
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000			
Low Limit			-.00500			

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00178
Stddev	.00074
%RSD	41.827
#1	.00125
#2	.00230
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193123-B-3-A Acquired: 12/16/2021 14:43:54 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3619.4	2129.5	68003.	3497.1
Stddev	5.9	.1	97.	8.7
%RSD	.16273	.00593	.14263	.24828
#1	3623.6	2129.4	68071.	3503.3
#2	3615.3	2129.6	67934.	3491.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.227%	92.179%	93.740%	99.068%
Range				

Sample Name: 480-193123-B-4-A Acquired: 12/16/2021 14:47:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.02051	.00433	.06766	.08270	.00005
Stddev	.00012	.01140	.00088	.00051	.00030	.00001
%RSD	353.00	55.580	20.328	.75213	.36553	16.689
#1	.00012	.02857	.00370	.06730	.08249	.00004
#2	-.00005	.01245	.00495	.06802	.08292	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	87.036	.00015	.0191	.00044	.00030	.00045
Stddev	1.078	.00019	.0314	.00008	.00044	.00017
%RSD	1.2385	124.72	164.2	18.969	146.81	37.068
#1	86.274	.00028	-.0031	.00050	-.00001	.00033
#2	87.798	.00002	.0414	.00039	.00060	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-4-A Acquired: 12/16/2021 14:47:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10409	1.7758	.00732	53.110	.01927	-.00188
Stddev	.00735	.0096	.00038	.233	.00019	.00008
%RSD	7.0623	.54004	5.1835	.43841	.98719	4.3154
#1	.09889	1.7826	.00705	52.945	.01913	-.00182
#2	.10929	1.7690	.00759	53.274	.01940	-.00194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	36.508	.00114	.00230	23.61	.00033	-.00063
Stddev	.202	.00032	.00060	.03	.00012	.00255
%RSD	.55263	28.287	26.183	.1316	37.257	405.51
#1	36.365	.00091	.00187	23.59	.00042	.00118
#2	36.650	.00136	.00273	23.63	.00024	-.00244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-4-A Acquired: 12/16/2021 14:47:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.349**	**.00024**	**4.9708**	**.00027**	**.00176**	**-.00028**
Stddev	.041	.00009	.1100	.00019	.00094	.00010
%RSD	.33137	37.643	2.2133	70.878	53.599	37.801
#1	12.320	.00018	4.8930	.00014	.00109	-.00035
#2	12.378	.00030	5.0486	.00041	.00243	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00111**
Stddev	.00041
%RSD	37.490
#1	.00140
#2	.00081
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193123-B-4-A Acquired: 12/16/2021 14:47:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3522.3	2124.0	67087.	3500.9
Stddev	3.3	5.7	111.	54.6
%RSD	.09456	.26963	.16519	1.5602
#1	3524.6	2128.0	67165.	3539.5
#2	3519.9	2119.9	67009.	3462.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.832%	91.937%	92.478%	99.176%
Range				

Sample Name: 480-193123-B-5-A Acquired: 12/16/2021 14:51:49 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00029	.02481	-.00124	.15031	.23261	-.00004
Stddev	.00002	.00143	.00111	.00056	.00028	.00003
%RSD	7.6260	5.7648	89.769	.36937	.12013	88.526
#1	.00027	.02380	-.00045	.14991	.23280	-.00001
#2	.00030	.02582	-.00202	.15070	.23241	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.614	.00018	-.0008	.00026	.00057	.00084
Stddev	.077	.00012	.0308	.00003	.00026	.00023
%RSD	.07797	64.134	4022.	12.024	46.529	27.120
#1	98.668	.00010	.0210	.00028	.00075	.00068
#2	98.560	.00027	-.0225	.00024	.00038	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-5-A Acquired: 12/16/2021 14:51:49 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02079	3.7710	.01922	73.672	.03918	-.00187
Stddev	.00267	.0101	.00006	.192	.00020	.00001
%RSD	12.826	.26660	.30948	.26006	.51307	.68699
#1	.02268	3.7639	.01918	73.807	.03932	-.00187
#2	.01890	3.7781	.01926	73.536	.03904	-.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.713	.00821	.00101	6.725	-.00013	-.00158
Stddev	.084	.00013	.00019	.001	.00016	.00111
%RSD	.20733	1.5708	18.584	.0117	118.80	70.477
#1	40.773	.00830	.00114	6.725	-.00025	-.00079
#2	40.653	.00812	.00087	6.726	-.00002	-.00237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-5-A Acquired: 12/16/2021 14:51:49 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.324**	**-.00025**	**1.7871**	**.00060**	**.00133**	**.00023**
Stddev	.311	.00037	.0016	.00040	.00001	.00005
%RSD	1.4602	149.05	.08880	66.655	1.0230	22.077
#1	21.544	.00001	1.7882	.00032	.00134	.00027
#2	21.104	-.00051	1.7859	.00089	.00132	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00063**
Stddev	.00014
%RSD	22.212
#1	.00053
#2	.00073
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193123-B-5-A Acquired: 12/16/2021 14:51:49 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3470.6	2112.5	66686.	3441.7
Stddev	4.4	.3	262.	11.3
%RSD	.12609	.01297	.39219	.32803
#1	3473.7	2112.7	66501.	3449.6
#2	3467.5	2112.3	66871.	3433.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.558%	91.442%	91.926%	97.497%
Range				

Sample Name: 480-193123-B-5-ASD@5 Acquired: 12/16/2021 14:55:40 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00032	.02210	.00099	.02806	.04631	-.00007
Stddev	.00005	.03144	.00247	.00059	.00004	.00003
%RSD	15.415	142.29	248.55	2.0886	.08558	45.511
#1	.00029	.04433	.00274	.02764	.04634	-.00009
#2	.00036	-.00014	-.00075	.02847	.04628	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.684	.00008	-.0055	.00004	.00006	.00030
Stddev	.137	.00003	.0196	.00008	.00023	.00017
%RSD	.69614	41.994	356.0	181.56	371.74	57.174
#1	19.781	.00010	-.0194	-.00001	.00023	.00018
#2	19.587	.00005	.0084	.00010	-.00010	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-5-ASD@5 Acquired: 12/16/2021 14:55:40 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00359	.69290	.00237	14.076	.00789	-.00342
Stddev	.00013	.01230	.00009	.022	.00002	.00018
%RSD	3.5048	1.7757	3.7648	.15726	.19506	5.2361
#1	.00350	.68420	.00231	14.060	.00787	-.00329
#2	.00368	.70160	.00244	14.091	.00790	-.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.8694	.00139	.00042	1.255	.00033	-.00242
Stddev	.0207	.00024	.00033	.006	.00225	.00390
%RSD	.26293	17.518	77.325	.4572	675.85	161.01
#1	7.8841	.00122	.00066	1.251	.00192	-.00518
#2	7.8548	.00157	.00019	1.259	-.00126	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-5-ASD@5 Acquired: 12/16/2021 14:55:40 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.1637**	**.00012**	**.35026**	**.00009**	**.00039**	**.00023**
Stddev	.0708	.00015	.00154	.00015	.00058	.00006
%RSD	1.6998	121.37	.44097	177.32	148.62	27.449
#1	4.2138	.00023	.35135	-.00002	-.00002	.00028
#2	4.1137	.00002	.34917	.00019	.00081	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00018**
Stddev	.00056
%RSD	309.00
#1	-.00022
#2	.00058
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193123-B-5-ASD@5 Acquired: 12/16/2021 14:55:40 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3824.2	2221.9	70060.	3475.5
Stddev	6.1	1.8	109.	37.9
%RSD	.15872	.08039	.15575	1.0892
#1	3819.9	2223.2	69983.	3448.7
#2	3828.5	2220.7	70137.	3502.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.274%	96.178%	96.576%	98.456%
Range				

Sample Name: 480-193123-B-5-APDS Acquired: 12/16/2021 14:59:33 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05210	10.253	.22254	.36168	.42850	.21895
Stddev	.00070	.011	.00069	.00182	.00166	.00171
%RSD	1.3531	.10271	.31114	.50263	.38773	.78205
#1	.05160	10.245	.22303	.36040	.42968	.22016
#2	.05260	10.260	.22205	.36297	.42733	.21774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	105.16	.21499	-.0210	.20462	.20468	.20615
Stddev	.56	.00025	.0233	.00011	.00098	.00000
%RSD	.53105	.11477	110.7	.05293	.48015	.00140
#1	105.56	.21481	-.0375	.20470	.20537	.20615
#2	104.77	.21516	-.0046	.20454	.20398	.20615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-5-APDS Acquired: 12/16/2021 14:59:33 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.525**	**14.000**	**.22317**	**81.635**	**.24757**	**.21747**
Stddev	.046	.025	.00066	.133	.00058	.00175
%RSD	.43452	.17923	.29488	.16267	.23441	.80586
#1	10.558	14.018	.22364	81.729	.24798	.21623
#2	10.493	13.982	.22270	81.541	.24716	.21871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.912**	**.21190**	**.21264**	**16.89**	**.22804**	**.20355**
Stddev	.176	.00022	.00063	.04	.00007	.00321
%RSD	.35975	.10283	.29741	.2521	.02855	1.5775
#1	49.036	.21205	.21308	16.86	.22809	.20583
#2	48.787	.21175	.21219	16.92	.22800	.20128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-5-APDS Acquired: 12/16/2021 14:59:33 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.252**	**.20455**	**1.9178**	**.21026**	**.21405**	**.20767**
Stddev	.222	.00119	.0070	.00058	.00073	.00015
%RSD	.64843	.57969	.36534	.27781	.33936	.07408
#1	34.409	.20539	1.9227	.21067	.21354	.20778
#2	34.095	.20371	1.9128	.20985	.21457	.20756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20877**
Stddev	.00041
%RSD	.19718
#1	.20907
#2	.20848
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193123-B-5-APDS Acquired: 12/16/2021 14:59:33 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3428.5	2120.5	67139.	3485.3
Stddev	.4	5.8	149.	1.7
%RSD	.01095	.27419	.22204	.04831
#1	3428.2	2124.6	67033.	3484.1
#2	3428.8	2116.4	67244.	3486.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.519%	91.786%	92.550%	98.733%
Range				

Sample Name: CCV-6817081 Acquired: 12/16/2021 15:03:22 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0083	49.472	.99568	1.0312	.99362	1.0106	50.400	.99943
Stddev	.0014	.049	.00097	.0012	.00046	.0013	.073	.00049
%RSD	.13401	.09897	.09758	.11550	.04627	.12620	.14528	.04944
#1	1.0092	49.507	.99499	1.0304	.99330	1.0097	50.348	.99908
#2	1.0073	49.438	.99636	1.0321	.99395	1.0115	50.452	.99978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.052	.99361	1.0037	.99481	50.659	49.842	.99045	49.921
Stddev	.014	.00096	.0067	.00152	.355	.010	.00140	.253
%RSD	1.370	.09617	.66377	.15318	.70170	.02062	.14153	.50758
#1	1.042	.99294	1.0084	.99373	50.910	49.835	.98946	50.100
#2	1.062	.99429	.99897	.99588	50.408	49.849	.99144	49.742
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0125	1.0153	49.450	.99611	.99566	24.83	.99574	.99306
Stddev	.0040	.0059	.019	.00116	.00065	.06	.00273	.00217
%RSD	.40009	.57715	.03782	.11659	.06544	.2230	.27423	.21860
#1	1.0154	1.0111	49.436	.99529	.99612	24.79	.99381	.99460
#2	1.0096	1.0194	49.463	.99693	.99520	24.87	.99767	.99153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/16/2021 15:03:22 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.362	.99125	.99561	1.0051	1.0046	1.0044	1.0328
Stddev	.050	.00042	.00060	.0034	.0038	.0038	.0070
%RSD	.47901	.04256	.06038	.33671	.37470	.37509	.68127
#1	10.327	.99154	.99604	1.0075	1.0073	1.0071	1.0378
#2	10.397	.99095	.99519	1.0027	1.0020	1.0018	1.0278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3465.2	2205.9	67266.	3457.0
Stddev	.4	1.4	24.	1.1
%RSD	.01016	.06151	.03592	.03054
#1	3464.9	2206.9	67249.	3457.7
#2	3465.4	2205.0	67283.	3456.2

Sample Name: CCB-6819143 Acquired: 12/16/2021 15:07:03 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.00632**	**.00050**	**-.00018**	**.00009**	**-.00004**	**.00304**	**-.00003**
Stddev	.00033	.02458	.00286	.00020	.00000	.00001	.00133	.00003
%RSD	70.840	389.13	571.31	111.42	4.3951	32.320	43.604	76.785
#1	.00023	.02370	.00252	-.00031	.00009	-.00004	.00211	-.00005
#2	.00069	-.01106	-.00152	-.00004	.00009	-.00003	.00398	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0096**	**.00001**	**-.00000**	**.00031**	**.01040**	**-.01144**	**-.00083**	**.00286**
Stddev	.0194	.00012	.00018	.00016	.00005	.01981	.00043	.00213
%RSD	200.7	1616.2	5244.0	52.860	.51874	173.07	51.463	74.587
#1	.0233	.00010	.00012	.00042	.01036	.00256	-.00053	.00437
#2	-.0040	-.00008	-.00013	.00019	.01044	-.02545	-.00113	.00135
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00484**	**-.00420**	**-.00011**	**-.00002**	**-.0043**	**.00044**	**.00440**
Stddev	.00005	.00104	.00308	.00004	.00097	.0035	.00131	.00135
%RSD	162.02	21.557	73.326	34.894	6145.1	79.90	296.41	30.655
#1	-.00000	.00557	-.00638	-.00014	-.00070	-.0019	-.00048	.00344
#2	.00006	.00410	-.00202	-.00008	.00067	-.0068	.00136	.00535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6819143 Acquired: 12/16/2021 15:07:03 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01164	.00048	.00003	.00052	.00013	.00005	-.00005
Stddev	.00859	.00041	.00001	.00020	.00049	.00044	.00070
%RSD	73.824	85.353	21.380	37.685	379.03	861.35	1556.9
#1	.00556	.00077	.00002	.00066	.00047	.00037	-.00054
#2	.01772	.00019	.00003	.00038	-.00022	-.00026	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4043.7	2272.1	71890.	3477.6
Stddev	8.2	2.1	79.	12.7
%RSD	.20207	.09086	.10933	.36503
#1	4049.5	2273.6	71945.	3486.5
#2	4037.9	2270.6	71834.	3468.6

Sample Name: CCVL-6819272 Acquired: 12/16/2021 15:10:58 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00589	.23136	.01276	.01921	.00213	.00206	.51604	.00195
Stddev	.00005	.01611	.00332	.00053	.00000	.00000	.00542	.00009
%RSD	.80515	6.9654	26.058	2.7569	.06658	.20311	1.0505	4.6432
#1	.00592	.21996	.01041	.01884	.00213	.00207	.51988	.00201
#2	.00585	.24275	.01511	.01958	.00213	.00206	.51221	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139	.00386	.00400	.01011	.05288	.44555	.02717	.19540
Stddev	.0279	.00004	.00037	.00015	.00089	.02147	.00010	.00001
%RSD	200.8	.99748	9.2883	1.5304	1.6841	4.8176	.35327	.00590
#1	-.0058	.00384	.00426	.01022	.05351	.46073	.02711	.19539
#2	.0336	.00389	.00373	.01000	.05226	.43037	.02724	.19541
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00304	.00892	.95556	.00936	.00983	.1807	.01951	.02491
Stddev	.00001	.00002	.00129	.00008	.00100	.0027	.00063	.00122
%RSD	.23009	.21757	.13491	.81916	10.156	1.492	3.2123	4.8974
#1	.00304	.00894	.95647	.00942	.00913	.1826	.01995	.02578
#2	.00305	.00891	.95464	.00931	.01054	.1788	.01906	.02405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6819272 Acquired: 12/16/2021 15:10:58 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48942	.00992	.00506	.00510	.01950	.00503	.00976
Stddev	.00342	.00007	.00000	.00023	.00050	.00002	.00003
%RSD	.69804	.74700	.04093	4.5562	2.5885	.38497	.27798
#1	.48700	.00998	.00506	.00527	.01986	.00504	.00978
#2	.49183	.00987	.00506	.00494	.01915	.00501	.00975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4020.8	2276.9	72487.	3499.1
Stddev	4.4	.4	19.	2.6
%RSD	.10991	.01788	.02570	.07440
#1	4017.6	2276.6	72501.	3497.2
#2	4023.9	2277.1	72474.	3500.9

Sample Name: 480-193123-B-5-B MS Acquired: 12/16/2021 15:14:53 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05338	10.334	.22396	.36501	.43345	.21987
Stddev	.00012	.048	.00067	.00170	.00225	.00068
%RSD	.21603	.46278	.29711	.46511	.51939	.31094
#1	.05347	10.300	.22443	.36621	.43186	.21938
#2	.05330	10.368	.22349	.36381	.43504	.22035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	107.80	.21518	-.0149	.20632	.20405	.35042
Stddev	.36	.00090	.0165	.00061	.00139	.00030
%RSD	.33064	.41730	110.7	.29542	.67912	.08485
#1	107.54	.21582	-.0266	.20675	.20307	.35021
#2	108.05	.21455	-.0032	.20589	.20503	.35063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-5-B MS Acquired: 12/16/2021 15:14:53 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.540**	**14.229**	**.22584**	**83.275**	**.25005**	**.22077**
Stddev	.007	.046	.00024	.840	.00176	.00060
%RSD	.07043	.32203	.10550	1.0084	.70251	.27134
#1	10.535	14.196	.22567	82.681	.24880	.22119
#2	10.545	14.261	.22601	83.868	.25129	.22034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.325**	**.21400**	**.21125**	**17.61**	**.22569**	**.20595**
Stddev	.255	.00057	.00020	.07	.00051	.00163
%RSD	.50578	.26460	.09573	.4198	.22752	.78954
#1	50.145	.21360	.21110	17.66	.22532	.20480
#2	50.505	.21440	.21139	17.56	.22605	.20710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-5-B MS Acquired: 12/16/2021 15:14:53 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.038**	**.20389**	**1.9922**	**.21232**	**.21237**	**.20713**
Stddev	.027	.00043	.0110	.00131	.00049	.00128
%RSD	.19231	.21080	.55377	.61849	.22920	.61963
#1	14.019	.20359	1.9844	.21140	.21271	.20622
#2	14.057	.20420	2.0000	.21325	.21202	.20803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21050**
Stddev	.00239
%RSD	1.1350
#1	.20881
#2	.21219
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193123-B-5-B MS Acquired: 12/16/2021 15:14:53 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3419.8**	**2125.8**	**66878.**	**3488.6**
Stddev	1.1	9.0	386.	19.0
%RSD	.03117	.42516	.57686	.54382
#1	3419.1	2119.4	67151.	3502.0
#2	3420.6	2132.2	66605.	3475.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.306%	92.015%	92.190%	98.827%
Range				

Sample Name: 480-193123-B-5-C MSD Acquired: 12/16/2021 15:18:41 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05260	10.416	.22196	.36318	.43821	.21811
Stddev	.00064	.028	.00343	.00034	.00099	.00060
%RSD	1.2181	.27036	1.5434	.09242	.22607	.27324
#1	.05215	10.396	.21953	.36295	.43891	.21768
#2	.05305	10.436	.22438	.36342	.43751	.21853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	106.82	.21317	-.0084	.20431	.20405	.31079
Stddev	.37	.00006	.0079	.00056	.00046	.00130
%RSD	.34618	.02620	94.13	.27487	.22452	.41850
#1	106.56	.21313	-.0140	.20392	.20372	.31171
#2	107.08	.21321	-.0028	.20471	.20437	.30987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-5-C MSD Acquired: 12/16/2021 15:18:41 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.413**	**14.218**	**.22403**	**83.016**	**.24837**	**.21911**
Stddev	.011	.051	.00041	.040	.00052	.00071
%RSD	.10432	.35604	.18223	.04797	.20811	.32312
#1	10.406	14.183	.22374	83.044	.24873	.21861
#2	10.421	14.254	.22432	82.988	.24800	.21961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.383**	**.21211**	**.21183**	**17.26**	**.22698**	**.20184**
Stddev	.078	.00019	.00041	.02	.00012	.00093
%RSD	.15480	.08794	.19503	.1348	.05200	.46144
#1	50.328	.21224	.21153	17.24	.22707	.20249
#2	50.439	.21198	.21212	17.27	.22690	.20118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-5-C MSD Acquired: 12/16/2021 15:18:41 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.357**	**.20111**	**1.9698**	**.21148**	**.21145**	**.20473**
Stddev	.021	.00062	.0036	.00049	.00061	.00042
%RSD	.07531	.30858	.17998	.23279	.28703	.20557
#1	28.342	.20155	1.9673	.21183	.21188	.20503
#2	28.372	.20067	1.9723	.21113	.21102	.20443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20798**
Stddev	.00032
%RSD	.15291
#1	.20821
#2	.20776
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193123-B-5-C MSD Acquired: 12/16/2021 15:18:41 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3410.2	2124.0	66406.	3442.9
Stddev	3.6	4.1	335.	12.5
%RSD	.10493	.19507	.50387	.36261
#1	3412.7	2126.9	66169.	3451.7
#2	3407.6	2121.0	66642.	3434.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.067%	91.937%	91.539%	97.531%
Range				

Sample Name: 480-193123-B-6-A Acquired: 12/16/2021 15:22:28 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	.04152	.00862	.11005	.04481	.00003
Stddev	.00023	.00684	.00075	.00003	.00004	.00005
%RSD	324.89	16.472	8.6962	.02461	.09979	171.60
#1	.00023	.04636	.00915	.11003	.04478	.00006
#2	-.00009	.03668	.00809	.11007	.04484	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	62.056	.00016	-.0007	-.00001	.00013	.00044
Stddev	.070	.00006	.0005	.00001	.00020	.00025
%RSD	.11230	35.540	69.62	228.01	158.18	57.862
#1	62.105	.00020	-.0003	.00000	.00027	.00062
#2	62.007	.00012	-.0010	-.00002	-.00002	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-6-A Acquired: 12/16/2021 15:22:28 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04966	1.4181	.00711	33.035	.02302	.00154
Stddev	.00062	.0333	.00120	.121	.00011	.00001
%RSD	1.2404	2.3499	16.924	.36615	.46247	.75435
#1	.05010	1.3945	.00626	32.949	.02294	.00155
#2	.04923	1.4416	.00796	33.120	.02309	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.104	.00040	.00071	28.21	-.00080	-.00157
Stddev	.006	.00023	.00016	.00	.00059	.00312
%RSD	.02659	57.583	23.059	.0170	72.838	198.38
#1	21.108	.00057	.00060	28.20	-.00039	.00063
#2	21.100	.00024	.00083	28.21	-.00122	-.00378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-6-A Acquired: 12/16/2021 15:22:28 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.0802	.00004	6.8749	.00055	.00162	-.00004
Stddev	.0216	.00025	.0575	.00003	.00009	.00036
%RSD	.26754	578.84	.83576	4.7888	5.8214	975.26
#1	8.0649	-.00013	6.9156	.00053	.00155	-.00029
#2	8.0955	.00022	6.8343	.00057	.00168	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01673
Stddev	.00069
%RSD	4.1422
#1	.01722
#2	.01624
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193123-B-6-A Acquired: 12/16/2021 15:22:28 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3630.3	2153.5	68181.	3474.1
Stddev	6.5	.9	151.	5.3
%RSD	.18006	.04111	.22190	.15370
#1	3625.7	2154.1	68288.	3470.4
#2	3634.9	2152.8	68074.	3477.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.494%	93.214%	93.987%	98.417%
Range				

Sample Name: 480-193123-B-7-A Acquired: 12/16/2021 15:26:26 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00000	.02630	-.00079	.01995	.15524	.00000
Stddev	.00002	.01341	.00058	.00005	.00004	.00002
%RSD	540.93	50.976	73.671	.22877	.02311	2258.9
#1	.00002	.03579	-.00120	.01992	.15522	-.00002
#2	-.00001	.01682	-.00038	.01999	.15527	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	122.71	.00021	.0160	.00040	.00022	.00122
Stddev	.13	.00001	.0044	.00013	.00000	.00026
%RSD	.10671	5.1952	27.79	32.085	2.0406	21.310
#1	122.62	.00022	.0191	.00031	.00022	.00141
#2	122.80	.00020	.0129	.00049	.00021	.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-7-A Acquired: 12/16/2021 15:26:26 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.7645**	**1.1928**	**.00487**	**52.022**	**.12394**	**.00018**
Stddev	.0082	.0197	.00070	.073	.00009	.00023
%RSD	.46434	1.6500	14.391	.13965	.07036	124.96
#1	1.7703	1.2067	.00437	51.971	.12388	.00002
#2	1.7587	1.1789	.00536	52.074	.12400	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**69.519**	**.00262**	**.00025**	**15.42**	**-.00126**	**-.00744**
Stddev	.036	.00013	.00063	.05	.00069	.00226
%RSD	.05218	4.8468	248.75	.3482	54.482	30.442
#1	69.493	.00271	.00069	15.46	-.00174	-.00904
#2	69.545	.00253	-.00019	15.38	-.00077	-.00584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-7-A Acquired: 12/16/2021 15:26:26 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.199**	**-.00010**	**.45184**	**.00078**	**.00092**	**.00012**
Stddev	.029	.00058	.00105	.00015	.00053	.00008
%RSD	.28344	605.30	.23313	19.486	58.148	67.022
#1	10.179	.00032	.45258	.00089	.00054	.00018
#2	10.220	-.00051	.45109	.00067	.00130	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00557**
Stddev	.00008
%RSD	1.3869
#1	.00562
#2	.00551
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193123-B-7-A Acquired: 12/16/2021 15:26:26 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3451.0	2098.2	66234.	3465.3
Stddev	3.0	2.8	34.	8.2
%RSD	.08607	.13248	.05124	.23573
#1	3453.1	2096.2	66210.	3459.5
#2	3448.9	2100.1	66258.	3471.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.075%	90.821%	91.303%	98.165%
Range				

Sample Name: 480-193123-B-8-A Acquired: 12/16/2021 15:30:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	.00177	.00171	.03026	.19421	-.00005
Stddev	.00045	.00656	.00235	.00034	.00016	.00004
%RSD	364.70	370.41	137.98	1.1367	.08196	86.531
#1	-.00020	.00641	.00337	.03051	.19409	-.00008
#2	.00045	-.00287	.00004	.03002	.19432	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	93.346	.00014	.0187	-.00015	.00011	-.00007
Stddev	.538	.00010	.0263	.00003	.00008	.00001
%RSD	.57681	71.759	140.7	17.970	71.918	10.986
#1	93.727	.00021	.0001	-.00017	.00005	-.00007
#2	92.965	.00007	.0373	-.00014	.00016	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-8-A Acquired: 12/16/2021 15:30:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0989**	**1.9596**	**.00468**	**41.634**	**.04029**	**-.00115**
Stddev	.0013	.0122	.00091	.104	.00004	.00021
%RSD	.11825	.62459	19.476	.24941	.09447	18.126
#1	1.0998	1.9682	.00404	41.561	.04027	-.00130
#2	1.0980	1.9509	.00533	41.707	.04032	-.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.6517**	**.00062**	**.00114**	**6.999**	**.00016**	**-.00470**
Stddev	.0090	.00016	.00088	.015	.00061	.00022
%RSD	.19330	26.472	76.949	.2121	370.76	4.5824
#1	4.6581	.00074	.00052	7.009	-.00027	-.00455
#2	4.6453	.00051	.00176	6.988	.00059	-.00485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-8-A Acquired: 12/16/2021 15:30:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.0256	-.00084	F 18.920	.00055	.00166	.00026
Stddev	.1865	.00052	.121	.00006	.00084	.00016
%RSD	2.3245	62.349	.63738	10.428	50.258	62.740
#1	8.1575	-.00047	18.835	.00059	.00107	.00014
#2	7.8937	-.00120	19.006	.00051	.00225	.00037
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000			
Low Limit			-.00500			

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00101
Stddev	.00020
%RSD	19.462
#1	.00087
#2	.00115
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193123-B-8-A Acquired: 12/16/2021 15:30:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3567.2	2134.2	67503.	3440.7
Stddev	.2	1.9	31.	7.9
%RSD	.00610	.08945	.04535	.23014
#1	3567.3	2132.9	67524.	3435.1
#2	3567.0	2135.6	67481.	3446.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.939%	92.382%	93.051%	97.469%
Range				

Sample Name: 480-193123-B-9-A Acquired: 12/16/2021 15:34:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	.02777	-.00296	.03815	.01582	-.00002
Stddev	.00038	.01493	.00238	.00006	.00002	.00001
%RSD	187.56	53.758	80.478	.16293	.11010	49.022
#1	-.00007	.03832	-.00465	.03810	.01584	-.00003
#2	.00047	.01721	-.00128	.03819	.01581	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	84.759	.00020	-.0001	-.00004	.00028	.00100
Stddev	.031	.00005	.0183	.00004	.00010	.00014
%RSD	.03604	25.572	14970.	82.234	34.578	14.159
#1	84.781	.00024	-.0131	-.00002	.00034	.00090
#2	84.738	.00017	.0128	-.00007	.00021	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-9-A Acquired: 12/16/2021 15:34:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00867	1.5131	.00582	38.409	.08988	-.00238
Stddev	.00066	.0067	.00000	.003	.00013	.00001
%RSD	7.5815	.44443	.04268	.00760	.14237	.49848
#1	.00913	1.5083	.00582	38.407	.08979	-.00239
#2	.00820	1.5178	.00582	38.411	.08997	-.00237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.0806	.00176	.00119	17.89	-.00106	-.00431
Stddev	.0058	.00024	.00017	.02	.00137	.00206
%RSD	.14113	13.537	14.605	.1368	128.62	47.790
#1	4.0847	.00159	.00107	17.87	-.00203	-.00576
#2	4.0765	.00193	.00131	17.91	-.00010	-.00285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193123-B-9-A Acquired: 12/16/2021 15:34:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.6710	-.00004	1.3036	.00045	.00071	.00012
Stddev	.0274	.00018	.0022	.00006	.00134	.00014
%RSD	.41146	419.66	.17032	13.943	187.85	116.85
#1	6.6905	-.00017	1.3052	.00041	-.00023	.00002
#2	6.6516	.00008	1.3020	.00050	.00166	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00370
Stddev	.00106
%RSD	28.724
#1	.00445
#2	.00295
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193123-B-9-A Acquired: 12/16/2021 15:34:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3614.9	2148.1	67726.	3452.7
Stddev	2.8	.6	16.	1.1
%RSD	.07819	.02822	.02422	.03229
#1	3612.9	2147.7	67714.	3451.9
#2	3616.9	2148.6	67737.	3453.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.114%	92.984%	93.359%	97.810%
Range				

Sample Name: 480-193124-A-1-A Acquired: 12/16/2021 15:38:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.01863**	**-.00117**	**.11138**	**.12411**	**.00010**
Stddev	.00011	.02665	.00172	.00008	.00001	.00007
%RSD	97.434	143.04	147.01	.06965	.01049	76.393
#1	-.00003	.03747	-.00238	.11143	.12410	.00004
#2	-.00019	-.00021	.00005	.11132	.12412	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**88.803**	**.00011**	**-.0015**	**.00029**	**.00040**	**.00159**
Stddev	.078	.00013	.0178	.00003	.00002	.00011
%RSD	.08792	122.78	1182.	9.7739	6.0188	6.8296
#1	88.858	.00020	.0111	.00027	.00038	.00151
#2	88.747	.00001	-.0141	.00031	.00041	.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-1-A Acquired: 12/16/2021 15:38:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00946**	**5.9123**	**.03531**	**67.757**	**.07183**	**.02015**
Stddev	.00114	.0139	.00045	.300	.00030	.00009
%RSD	12.009	.23529	1.2802	.44337	.41918	.44557
#1	.01026	5.9221	.03563	67.969	.07204	.02009
#2	.00865	5.9025	.03499	67.545	.07161	.02022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.140**	**.00297**	**.00107**	**25.09**	**-.00086**	**-.00509**
Stddev	.017	.00016	.00067	.01	.00066	.00130
%RSD	.11164	5.2802	62.881	.0444	76.788	25.551
#1	15.152	.00285	.00059	25.09	-.00133	-.00601
#2	15.128	.00308	.00155	25.10	-.00039	-.00417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-1-A Acquired: 12/16/2021 15:38:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.6275	-.00026	.68831	.00053	.00075	.00064
Stddev	.0253	.00040	.00056	.00014	.00017	.00004
%RSD	.33207	153.83	.08150	25.573	22.889	6.2386
#1	7.6096	-.00054	.68871	.00044	.00063	.00061
#2	7.6454	.00002	.68791	.00063	.00087	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02829
Stddev	.00018
%RSD	.63273
#1	.02817
#2	.02842
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193124-A-1-A Acquired: 12/16/2021 15:38:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3541.9	2131.6	67459.	3484.1
Stddev	6.1	4.0	66.	11.8
%RSD	.17155	.18572	.09721	.33975
#1	3546.2	2134.4	67413.	3475.7
#2	3537.6	2128.8	67505.	3492.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.315%	92.266%	92.991%	98.698%
Range				

Sample Name: 480-193124-A-2-A Acquired: 12/16/2021 15:41:58 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	.02006	.00274	.61794	.05929	.00001
Stddev	.00034	.01392	.00288	.00072	.00011	.00004
%RSD	734.03	69.361	105.31	.11724	.18326	499.04
#1	.00028	.01022	.00478	.61846	.05937	.00004
#2	-.00019	.02990	.00070	.61743	.05921	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	74.145	.00027	.0084	.00015	-.00006	.00245
Stddev	.498	.00016	.0143	.00002	.00025	.00003
%RSD	.67210	61.098	170.2	11.988	384.71	1.0988
#1	74.497	.00038	.0185	.00014	.00011	.00243
#2	73.792	.00015	-.0017	.00017	-.00024	.00247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-2-A Acquired: 12/16/2021 15:41:58 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00580	1.8681	.02358	64.006	.01903	.04687
Stddev	.00261	.0386	.00041	.312	.00000	.00029
%RSD	45.070	2.0656	1.7577	.48672	.00813	.61940
#1	.00395	1.8954	.02387	64.226	.01903	.04708
#2	.00764	1.8408	.02328	63.785	.01903	.04667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	53.886	.00148	.00038	F 114.2	-.00009	-.00468
Stddev	.196	.00011	.00018	.0	.00052	.00097
%RSD	.36324	7.1214	46.447	.0254	575.05	20.641
#1	54.024	.00140	.00025	114.2	.00028	-.00400
#2	53.748	.00155	.00050	114.3	-.00045	-.00537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193124-A-2-A Acquired: 12/16/2021 15:41:58 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.4858	.00019	4.7563	.00067	.00120	.00056
Stddev	.0314	.00051	.0399	.00002	.00041	.00009
%RSD	.48442	263.21	.83897	3.1365	33.878	15.397
#1	6.5080	.00056	4.7845	.00066	.00148	.00062
#2	6.4636	-.00017	4.7281	.00069	.00091	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03016
Stddev	.00056
%RSD	1.8578
#1	.02977
#2	.03056
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193124-A-2-A Acquired: 12/16/2021 15:41:58 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3522.9	2134.1	66898.	3475.3
Stddev	.6	.4	141.	16.6
%RSD	.01580	.02088	.21101	.47780
#1	3523.3	2133.7	66798.	3463.6
#2	3522.5	2134.4	66998.	3487.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.847%	92.374%	92.218%	98.450%
Range				

Sample Name: 480-193124-A-3-A Acquired: 12/16/2021 15:45:54 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.02004**	**-.00362**	**.66960**	**.02219**	**.00006**
Stddev	.00027	.01601	.00071	.00162	.00014	.00005
%RSD	288.87	79.876	19.667	.24185	.61227	88.713
#1	.00010	.00872	-.00311	.66845	.02229	.00002
#2	-.00028	.03136	-.00412	.67074	.02210	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**92.108**	**.00020**	**.0023**	**-.00007**	**.00009**	**.00164**
Stddev	.888	.00005	.0145	.00014	.00002	.00015
%RSD	.96440	25.955	631.4	208.72	26.704	9.3411
#1	91.480	.00024	.0125	-.00016	.00011	.00153
#2	92.736	.00017	-.0079	.00003	.00008	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-3-A Acquired: 12/16/2021 15:45:54 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00856	1.6542	.01420	41.883	.00243	.06097
Stddev	.00204	.0151	.00022	.162	.00001	.00016
%RSD	23.836	.91539	1.5826	.38647	.58553	.25465
#1	.00712	1.6434	.01436	41.768	.00242	.06086
#2	.01000	1.6649	.01405	41.997	.00244	.06108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	66.883	.00077	.00054	F 102.1	-.00055	-.00567
Stddev	.236	.00038	.00068	.1	.00006	.00288
%RSD	.35264	49.917	127.10	.0573	10.471	50.807
#1	66.716	.00050	.00102	102.1	-.00059	-.00770
#2	67.049	.00104	.00005	102.2	-.00051	-.00363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193124-A-3-A Acquired: 12/16/2021 15:45:54 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.4134**	**-.00039**	**1.8640**	**.00072**	**.00224**	**.00007**
Stddev	.0305	.00008	.0046	.00008	.00030	.00011
%RSD	.69027	20.239	.24443	11.760	13.457	149.80
#1	4.3919	-.00044	1.8608	.00066	.00203	.00015
#2	4.4350	-.00033	1.8672	.00078	.00245	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00205**
Stddev	.00020
%RSD	9.5404
#1	.00219
#2	.00191
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193124-A-3-A Acquired: 12/16/2021 15:45:54 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3505.5	2118.7	66323.	3439.0
Stddev	3.1	1.4	137.	26.6
%RSD	.08717	.06659	.20618	.77435
#1	3503.3	2117.7	66226.	3457.9
#2	3507.6	2119.7	66420.	3420.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.417%	91.710%	91.425%	97.422%
Range				

Sample Name: CCV-6817081 Acquired: 12/16/2021 15:49:46 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0070**	**49.715**	**1.0056**	**1.0399**	**.99738**	**1.0060**	**50.393**	**1.0074**
Stddev	.0022	.010	.0056	.0004	.00049	.0008	.003	.0008
%RSD	.21304	.01947	.55364	.03788	.04891	.07455	.00689	.07874
#1	1.0085	49.722	1.0017	1.0396	.99772	1.0055	50.391	1.0069
#2	1.0055	49.709	1.0096	1.0402	.99703	1.0065	50.396	1.0080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.017**	**.99552**	**1.0082**	**.99456**	**50.512**	**49.656**	**.99167**	**49.908**
Stddev	.024	.00114	.0022	.00033	.216	.015	.00149	.060
%RSD	2.322	.11403	.21770	.03355	.42756	.03110	.14996	.12042
#1	1.034	.99472	1.0097	.99480	50.359	49.667	.99062	49.951
#2	1.000	.99632	1.0066	.99433	50.665	49.645	.99272	49.866
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0096**	**1.0246**	**49.489**	**.99460**	**.99995**	**25.14**	**.99947**	**.99759**
Stddev	.0012	.0019	.004	.00004	.00018	.00	.00311	.00233
%RSD	.12098	.18538	.00711	.00353	.01790	.0058	.31131	.23379
#1	1.0104	1.0233	49.492	.99462	.99982	25.14	1.0017	.99924
#2	1.0087	1.0260	49.487	.99457	1.0001	25.14	.99727	.99594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/16/2021 15:49:46 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.157**	**.99298**	**.99468**	**1.0045**	**1.0090**	**1.0060**	**1.0350**
Stddev	.091	.00102	.00007	.0025	.0047	.0004	.0046
%RSD	.89793	.10315	.00711	.24755	.46582	.03682	.44066
#1	10.092	.99225	.99473	1.0063	1.0057	1.0063	1.0383
#2	10.221	.99370	.99463	1.0028	1.0123	1.0057	1.0318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3460.7**	**2190.9**	**67271.**	**3428.0**
Stddev	5.5	3.7	75.	1.1
%RSD	.15792	.16859	.11120	.03126
#1	3464.5	2193.6	67218.	3428.7
#2	3456.8	2188.3	67324.	3427.2

Sample Name: CCB-6819143 Acquired: 12/16/2021 15:53:27 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00002	.03529	-.00041	-.00009	.00007	.00001	-.00124	.00001
Stddev	.00048	.03591	.00393	.00013	.00000	.00007	.00407	.00002
%RSD	2477.5	101.76	955.47	138.67	2.0385	859.35	329.05	178.20
#1	.00036	.00990	-.00319	-.00018	.00007	.00006	-.00411	-.00000
#2	-.00032	.06069	.00237	-.00000	.00007	-.00004	.00164	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	-.00001	-.00001	.00051	.00578	-.02280	-.00139	.00321
Stddev	.0228	.00010	.00039	.00021	.00202	.00911	.00006	.00303
%RSD	980.9	956.16	7344.5	42.256	34.901	39.936	4.2177	94.255
#1	.0138	.00006	.00027	.00066	.00436	-.02924	-.00143	.00107
#2	-.0184	-.00008	-.00028	.00036	.00721	-.01636	-.00135	.00535
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	.00438	-.00069	-.00010	.00054	.0020	.00046	.00306
Stddev	.00004	.00122	.00550	.00016	.00067	.0007	.00065	.00164
%RSD	121.23	27.824	801.59	154.37	122.57	34.22	142.43	53.639
#1	.00007	.00524	.00320	-.00022	.00102	.0015	-.00000	.00190
#2	.00001	.00352	-.00458	.00001	.00007	.0025	.00091	.00422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6819143 Acquired: 12/16/2021 15:53:27 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02925	.00047	.00000	.00063	.00119	.00001	-.00023
Stddev	.01287	.00015	.00004	.00001	.00000	.00006	.00040
%RSD	43.995	32.677	752.79	1.8726	.27905	465.15	174.51
#1	.02015	.00058	-.00002	.00064	.00119	.00005	-.00051
#2	.03835	.00036	.00003	.00062	.00119	-.00003	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4044.9	2278.1	72160.	3484.0
Stddev	2.6	3.9	32.	1.6
%RSD	.06343	.17327	.04389	.04636
#1	4046.7	2275.3	72183.	3482.8
#2	4043.1	2280.9	72138.	3485.1

Sample Name: CCVL-6819272 Acquired: 12/16/2021 15:57:23 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00617	.21266	.01370	.01934	.00213	.00213	.50928	.00196
Stddev	.00045	.02572	.00244	.00002	.00001	.00002	.00048	.00001
%RSD	7.2892	12.094	17.811	.12879	.35583	.89585	.09479	.29632
#1	.00585	.19448	.01543	.01932	.00212	.00215	.50962	.00196
#2	.00649	.23085	.01198	.01935	.00213	.00212	.50893	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0091	.00378	.00354	.01015	.05047	.44323	.02742	.19560
Stddev	.0048	.00019	.00025	.00036	.00345	.01890	.00029	.00099
%RSD	52.48	5.0422	7.1319	3.5071	6.8372	4.2653	1.0592	.50646
#1	-.0125	.00392	.00336	.01041	.04803	.45660	.02722	.19489
#2	-.0057	.00365	.00371	.00990	.05291	.42986	.02763	.19630
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00308	.00861	.95680	.00954	.01003	.1852	.02030	.02240
Stddev	.00004	.00008	.00871	.00018	.00099	.0025	.00043	.00309
%RSD	1.2384	.91687	.91005	1.8883	9.8869	1.347	2.1176	13.782
#1	.00311	.00867	.95064	.00967	.01073	.1834	.02000	.02458
#2	.00306	.00856	.96295	.00942	.00933	.1869	.02061	.02022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6819272 Acquired: 12/16/2021 15:57:23 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47904	.00920	.00496	.00506	.02007	.00516	.00997
Stddev	.00457	.00004	.00003	.00008	.00030	.00022	.00018
%RSD	.95373	.42167	.53063	1.5361	1.4997	4.1780	1.8261
#1	.47581	.00923	.00497	.00500	.02028	.00500	.01010
#2	.48227	.00918	.00494	.00511	.01985	.00531	.00984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4016.7	2287.2	72458.	3505.5
Stddev	5.8	.3	22.	24.4
%RSD	.14443	.01455	.03010	.69734
#1	4020.8	2287.0	72473.	3522.7
#2	4012.6	2287.5	72442.	3488.2

Sample Name: 480-193124-A-4-A Acquired: 12/16/2021 16:01:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00022	.03854	.00052	.50584	.03085	.00001
Stddev	.00030	.01422	.00650	.00092	.00000	.00002
%RSD	137.40	36.900	1246.4	.18218	.01043	286.93
#1	.00001	.04859	.00512	.50649	.03085	-.00001
#2	.00043	.02848	-.00408	.50518	.03085	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	70.107	.00008	-.0070	.00009	.00042	.00138
Stddev	.029	.00008	.0161	.00004	.00014	.00007
%RSD	.04157	100.95	229.2	47.269	33.209	4.8294
#1	70.128	.00002	-.0184	.00006	.00051	.00143
#2	70.087	.00013	.0043	.00012	.00032	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-4-A Acquired: 12/16/2021 16:01:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01330**	**1.3243**	**.01557**	**39.135**	**.00436**	**.05785**
Stddev	.00206	.0313	.00150	.019	.00004	.00007
%RSD	15.473	2.3614	9.6541	.04937	.86589	.11323
#1	.01476	1.3464	.01663	39.121	.00433	.05781
#2	.01185	1.3022	.01451	39.148	.00438	.05790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.159**	**.00051**	**.00068**	**69.58**	**.00041**	**-.00637**
Stddev	.167	.00015	.00011	.04	.00147	.00120
%RSD	.33346	28.433	15.752	.0639	359.24	18.834
#1	50.277	.00041	.00076	69.54	-.00063	-.00721
#2	50.041	.00062	.00060	69.61	.00145	-.00552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-4-A Acquired: 12/16/2021 16:01:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.6646	.00001	1.3135	.00050	.00095	.00011
Stddev	.0156	.00000	.0039	.00003	.00152	.00060
%RSD	.23450	33.287	.29453	5.3305	159.65	555.44
#1	6.6536	.00001	1.3163	.00049	.00203	-.00031
#2	6.6757	.00001	1.3108	.00052	-.00012	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00190
Stddev	.00006
%RSD	3.2369
#1	.00194
#2	.00185
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193124-A-4-A Acquired: 12/16/2021 16:01:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3562.2	2134.1	67019.	3449.4
Stddev	1.3	.1	35.	5.7
%RSD	.03593	.00424	.05254	.16484
#1	3561.3	2134.2	66994.	3445.4
#2	3563.1	2134.0	67044.	3453.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.814%	92.376%	92.385%	97.716%
Range				

Sample Name: 480-193124-A-5-A Acquired: 12/16/2021 16:05:09 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	.03284	-.00175	.12878	.03469	-.00005
Stddev	.00020	.00024	.00071	.00065	.00011	.00000
%RSD	74.554	.73800	40.563	.50298	.30298	5.4591
#1	.00040	.03267	-.00125	.12924	.03462	-.00006
#2	.00012	.03302	-.00226	.12832	.03476	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	116.61	.00016	.0073	-.00003	.00008	.00307
Stddev	1.14	.00008	.0031	.00006	.00014	.00041
%RSD	.97395	51.513	43.26	209.29	170.89	13.462
#1	117.41	.00022	.0050	.00001	.00018	.00278
#2	115.80	.00010	.0095	-.00007	-.00002	.00336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-5-A Acquired: 12/16/2021 16:05:09 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02880	1.8039	.00691	56.513	.01075	.01576
Stddev	.00036	.0058	.00004	.191	.00002	.00050
%RSD	1.2459	.32304	.55920	.33833	.22999	3.1747
#1	.02855	1.7998	.00694	56.378	.01073	.01541
#2	.02906	1.8081	.00688	56.648	.01077	.01612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.305	.00077	.00149	71.24	-.00191	-.00496
Stddev	.171	.00006	.00048	.12	.00079	.00227
%RSD	.41294	7.5478	32.434	.1623	41.415	45.716
#1	41.426	.00073	.00115	71.16	-.00135	-.00657
#2	41.185	.00081	.00183	71.33	-.00247	-.00336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-5-A Acquired: 12/16/2021 16:05:09 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.6200	-.00003	.71214	.00111	.00176	.00018
Stddev	.0383	.00010	.00208	.00024	.00037	.00011
%RSD	.50296	339.41	.29150	21.370	20.820	60.087
#1	7.6471	.00004	.71361	.00094	.00202	.00010
#2	7.5929	-.00010	.71067	.00128	.00150	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00463
Stddev	.00022
%RSD	4.8265
#1	.00447
#2	.00479
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193124-A-5-A Acquired: 12/16/2021 16:05:09 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3490.5	2096.4	66698.	3459.9
Stddev	2.4	.6	318.	27.2
%RSD	.06971	.02801	.47645	.78521
#1	3488.7	2096.0	66923.	3440.7
#2	3492.2	2096.8	66474.	3479.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.047%	90.744%	91.942%	98.014%
Range				

Sample Name: 480-193124-A-6-A Acquired: 12/16/2021 16:09:01 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	.01630	-.00060	.43601	.02646	.00007
Stddev	.00009	.00989	.00453	.00092	.00003	.00010
%RSD	77.691	60.640	751.45	.21060	.11273	152.24
#1	.00005	.02329	-.00380	.43666	.02644	-.00000
#2	.00018	.00931	.00260	.43536	.02648	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	46.373	.00010	-.0040	.00005	-.00008	.00068
Stddev	.077	.00003	.0033	.00003	.00001	.00006
%RSD	.16713	28.407	81.50	52.961	16.437	8.4807
#1	46.428	.00008	-.0064	.00003	-.00007	.00064
#2	46.318	.00011	-.0017	.00007	-.00009	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-6-A Acquired: 12/16/2021 16:09:01 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01156	1.1833	.00657	26.803	.03077	.07144
Stddev	.00016	.0019	.00003	.078	.00006	.00017
%RSD	1.3639	.15947	.46005	.29023	.20026	.23407
#1	.01145	1.1846	.00659	26.748	.03072	.07155
#2	.01167	1.1819	.00655	26.858	.03081	.07132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	59.988	.00092	.00077	57.86	-.00077	-.00540
Stddev	.006	.00023	.00026	.10	.00038	.00177
%RSD	.01059	24.741	34.112	.1733	49.225	32.842
#1	59.993	.00108	.00096	57.93	-.00103	-.00665
#2	59.984	.00076	.00059	57.79	-.00050	-.00415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-6-A Acquired: 12/16/2021 16:09:01 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.6423	-.00003	1.3221	.00069	.00078	-.00006
Stddev	.0155	.00067	.0004	.00048	.00100	.00014
%RSD	.27435	2112.2	.03304	69.586	128.81	227.31
#1	5.6314	.00044	1.3218	.00035	.00007	.00004
#2	5.6533	-.00050	1.3224	.00103	.00149	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00168
Stddev	.00006
%RSD	3.6877
#1	.00172
#2	.00164
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193124-A-6-A Acquired: 12/16/2021 16:09:01 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3595.4	2154.5	67696.	3482.1
Stddev	5.6	2.3	190.	8.1
%RSD	.15702	.10568	.28039	.23208
#1	3599.3	2156.1	67830.	3476.4
#2	3591.4	2152.9	67561.	3487.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.633%	93.260%	93.317%	98.643%
Range				

Sample Name: 480-193124-A-7-A Acquired: 12/16/2021 16:12:51 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00031	.05502	-.00358	.20245	.06391	.00003
Stddev	.00012	.00879	.00061	.00051	.00007	.00010
%RSD	39.608	15.982	17.014	.25333	.11082	304.70
#1	.00023	.06124	-.00402	.20281	.06386	.00011
#2	.00040	.04881	-.00315	.20209	.06396	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	126.66	.00018	.0031	.00029	.00042	.00521
Stddev	.36	.00011	.0051	.00000	.00005	.00006
%RSD	.28190	63.937	164.4	.63686	11.583	1.0879
#1	126.91	.00026	-.0005	.00029	.00038	.00517
#2	126.40	.00010	.0067	.00029	.00045	.00525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-7-A Acquired: 12/16/2021 16:12:51 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03468	2.0293	.01151	79.623	.20412	.02795
Stddev	.00664	.0022	.00071	.129	.00050	.00009
%RSD	19.143	.10878	6.1284	.16145	.24344	.31206
#1	.03938	2.0308	.01201	79.532	.20377	.02789
#2	.02999	2.0277	.01101	79.714	.20448	.02801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.799	.00551	.00051	43.01	.00089	-.00567
Stddev	.116	.00001	.00215	.03	.00188	.00124
%RSD	.43116	.26218	421.75	.0806	211.08	21.929
#1	26.880	.00550	.00203	43.04	.00222	-.00655
#2	26.717	.00552	-.00101	42.99	-.00044	-.00479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-7-A Acquired: 12/16/2021 16:12:51 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.2851**	**-.00048**	**1.3504**	**.00125**	**.00038**	**.00008**
Stddev	.0578	.00041	.0059	.00017	.00043	.00007
%RSD	.69790	84.548	.43296	13.639	111.69	96.728
#1	8.3260	-.00019	1.3545	.00113	.00069	.00002
#2	8.2442	-.00077	1.3462	.00137	.00008	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00793**
Stddev	.00040
%RSD	5.0805
#1	.00821
#2	.00764
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193124-A-7-A Acquired: 12/16/2021 16:12:51 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3460.0	2096.0	65813.	3412.1
Stddev	3.9	2.4	51.	9.4
%RSD	.11224	.11571	.07787	.27449
#1	3457.3	2094.3	65849.	3405.5
#2	3462.8	2097.7	65777.	3418.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.296%	90.726%	90.722%	96.659%
Range				

Sample Name: 480-193124-A-8-A Acquired: 12/16/2021 16:16:43 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.02503**	**-.00170**	**.08563**	**.05367**	**.00000**
Stddev	.00056	.00279	.00339	.00018	.00019	.00007
%RSD	1069.1	11.132	199.76	.20986	.35638	1651.1
#1	-.00045	.02306	-.00409	.08576	.05353	.00005
#2	.00034	.02700	.00070	.08551	.05380	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**175.19**	**.00034**	**.0005**	**-.00004**	**.00054**	**.00597**
Stddev	.47	.00005	.0211	.00004	.00020	.00006
%RSD	.26571	14.897	4053.	97.665	36.922	.99166
#1	174.86	.00030	-.0144	-.00007	.00069	.00601
#2	175.52	.00037	.0154	-.00001	.00040	.00592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-8-A Acquired: 12/16/2021 16:16:43 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01306	3.4495	.02710	87.742	.00177	.00132
Stddev	.00124	.0012	.00024	.200	.00007	.00001
%RSD	9.4833	.03347	.89461	.22782	4.2292	1.0227
#1	.01393	3.4503	.02728	87.601	.00183	.00131
#2	.01218	3.4487	.02693	87.883	.00172	.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.017	.00158	.00027	F 188.6	-.00097	-.00655
Stddev	.019	.00020	.00144	.1	.00161	.00037
%RSD	.12916	12.537	543.35	.0621	166.46	5.6389
#1	15.004	.00172	.00128	188.6	-.00211	-.00629
#2	15.031	.00144	-.00075	188.5	.00017	-.00681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193124-A-8-A Acquired: 12/16/2021 16:16:43 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.6913**	**-.00029**	**1.3922**	**.00098**	**.00163**	**-.00008**
Stddev	.0609	.00023	.0020	.00024	.00087	.00014
%RSD	1.2976	81.336	.14610	24.120	53.032	171.60
#1	4.6483	-.00045	1.3908	.00081	.00225	.00002
#2	4.7343	-.00012	1.3936	.00115	.00102	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00354**
Stddev	.00026
%RSD	7.4893
#1	.00335
#2	.00372
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193124-A-8-A Acquired: 12/16/2021 16:16:43 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3449.6	2081.5	66026.	3424.4
Stddev	2.7	4.9	140.	11.7
%RSD	.07710	.23307	.21199	.34264
#1	3447.7	2078.1	66125.	3432.7
#2	3451.4	2084.9	65927.	3416.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.039%	90.099%	91.015%	97.008%
Range				

Sample Name: 480-193124-A-9-A Acquired: 12/16/2021 16:20:35 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**-.00952**	**.00037**	**.44787**	**.12781**	**-.00002**
Stddev	.00028	.01626	.00087	.00013	.00008	.00008
%RSD	134.96	170.84	235.97	.02799	.06425	337.37
#1	-.00040	-.02101	.00098	.44796	.12787	-.00008
#2	-.00001	.00198	-.00025	.44778	.12775	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**137.60**	**.00023**	**-.0125**	**.00222**	**.00013**	**.00189**
Stddev	1.16	.00006	.0088	.00008	.00005	.00012
%RSD	.83981	24.631	70.11	3.4984	35.274	6.1512
#1	138.42	.00027	-.0187	.00228	.00010	.00197
#2	136.78	.00019	-.0063	.00217	.00016	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-9-A Acquired: 12/16/2021 16:20:35 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03355	1.3773	.01272	66.061	.94671	.02930
Stddev	.00173	.0499	.00088	.085	.00051	.00018
%RSD	5.1618	3.6217	6.9060	.12793	.05370	.60002
#1	.03477	1.4126	.01210	66.001	.94636	.02942
#2	.03232	1.3420	.01334	66.121	.94707	.02917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	63.136	.02354	.00030	44.78	-.00110	-.00696
Stddev	.451	.00006	.00048	.08	.00153	.00046
%RSD	.71426	.25780	159.64	.1764	139.63	6.5696
#1	63.455	.02350	-.00004	44.83	-.00001	-.00728
#2	62.817	.02359	.00064	44.72	-.00218	-.00663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-9-A Acquired: 12/16/2021 16:20:35 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.3683	-.00019	1.1376	.00069	.00173	.00005
Stddev	.0949	.00112	.0054	.00032	.00106	.00009
%RSD	1.0132	598.06	.47781	46.326	61.634	171.92
#1	9.4354	-.00098	1.1415	.00092	.00248	.00011
#2	9.3012	.00061	1.1338	.00047	.00097	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.05898
Stddev	.00010
%RSD	.17465
#1	.05891
#2	.05906
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193124-A-9-A Acquired: 12/16/2021 16:20:35 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3409.1	2075.5	65767.	3464.8
Stddev	.5	4.4	46.	24.5
%RSD	.01357	.21261	.07040	.70696
#1	3408.8	2072.4	65734.	3447.5
#2	3409.5	2078.6	65800.	3482.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.042%	89.839%	90.659%	98.152%
Range				

Sample Name: 480-193124-A-10-A Acquired: 12/16/2021 16:24:24 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	.05231	.00010	.68454	.02275	.00004
Stddev	.00013	.01591	.00011	.00023	.00006	.00006
%RSD	286.46	30.407	112.04	.03343	.25241	145.55
#1	.00013	.04107	.00018	.68470	.02279	-.00000
#2	-.00005	.06356	.00002	.68438	.02271	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.928	.00009	-.0066	.00011	.00018	.00336
Stddev	.014	.00004	.0083	.00007	.00001	.00011
%RSD	.03665	40.985	126.1	67.176	4.7758	3.1911
#1	38.938	.00012	-.0007	.00006	.00019	.00343
#2	38.918	.00006	-.0124	.00016	.00018	.00328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-10-A Acquired: 12/16/2021 16:24:24 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00919	1.2009	.00388	16.788	.01145	.26316
Stddev	.00108	.0028	.00135	.073	.00013	.00134
%RSD	11.770	.23683	34.777	.43493	1.0995	.51051
#1	.00996	1.2029	.00484	16.840	.01154	.26221
#2	.00843	1.1989	.00293	16.736	.01136	.26411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	66.278	.00026	.00103	71.52	-.00086	-.00483
Stddev	.525	.00020	.00018	.13	.00011	.00029
%RSD	.79239	75.534	17.053	.1769	12.636	5.9249
#1	66.650	.00040	.00115	71.43	-.00094	-.00503
#2	65.907	.00012	.00090	71.61	-.00078	-.00463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-10-A Acquired: 12/16/2021 16:24:24 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.0370**	**-.00016**	**1.2158**	**.00037**	**.00159**	**.00055**
Stddev	.0392	.00033	.0029	.00013	.00059	.00004
%RSD	.77857	208.53	.23640	35.427	36.971	8.0765
#1	5.0648	.00008	1.2179	.00028	.00117	.00052
#2	5.0093	-.00039	1.2138	.00046	.00201	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00732**
Stddev	.00049
%RSD	6.7550
#1	.00697
#2	.00767
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193124-A-10-A Acquired: 12/16/2021 16:24:24 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3605.8	2156.4	67495.	3476.7
Stddev	11.5	6.2	188.	5.0
%RSD	.31991	.28698	.27897	.14293
#1	3597.6	2152.0	67361.	3473.2
#2	3613.9	2160.8	67628.	3480.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.890%	93.340%	93.040%	98.489%
Range				

Sample Name: 480-193124-A-11-A Acquired: 12/16/2021 16:28:15 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00036	.04268	-.00204	.62555	.03619	.00003
Stddev	.00010	.01189	.00065	.00009	.00013	.00005
%RSD	27.326	27.852	31.964	.01424	.36612	174.51
#1	.00043	.05109	-.00250	.62562	.03610	.00007
#2	.00029	.03428	-.00158	.62549	.03628	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	70.207	.00014	.0336	.00006	.00018	.00153
Stddev	.247	.00002	.0226	.00002	.00007	.00024
%RSD	.35225	12.044	67.28	30.756	35.647	15.894
#1	70.032	.00013	.0176	.00008	.00014	.00136
#2	70.382	.00015	.0496	.00005	.00023	.00171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193124-A-11-A Acquired: 12/16/2021 16:28:15 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01457	1.5546	.00368	30.720	.00649	.10037
Stddev	.00007	.0196	.00039	.034	.00001	.00023
%RSD	.46304	1.2613	10.615	.11144	.08295	.22758
#1	.01452	1.5408	.00341	30.744	.00649	.10053
#2	.01462	1.5685	.00396	30.695	.00650	.10021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	77.597	.00067	.00098	F 102.1	.00051	-.00428
Stddev	.333	.00014	.00032	.1	.00034	.00192
%RSD	.42901	20.154	32.887	.1163	66.247	44.827
#1	77.361	.00077	.00075	102.2	.00027	-.00292
#2	77.832	.00058	.00121	102.0	.00075	-.00563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193124-A-11-A Acquired: 12/16/2021 16:28:15 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.4370**	**-.00088**	**1.9654**	**.00056**	**.00163**	**.00055**
Stddev	.0221	.00003	.0066	.00011	.00006	.00027
%RSD	.64415	3.5927	.33729	20.255	3.8399	48.836
#1	3.4526	-.00086	1.9607	.00048	.00158	.00074
#2	3.4213	-.00090	1.9701	.00063	.00167	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00143**
Stddev	.00012
%RSD	8.3836
#1	.00134
#2	.00151
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193124-A-11-A Acquired: 12/16/2021 16:28:15 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3535.3	2124.6	66730.	3428.5
Stddev	3.1	3.5	100.	13.2
%RSD	.08664	.16249	.15020	.38428
#1	3537.5	2127.1	66801.	3437.8
#2	3533.2	2122.2	66659.	3419.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.153%	91.967%	91.986%	97.123%
Range				

Sample Name: MB 480-609023/1-A Acquired: 12/16/2021 16:32:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	.02263	-.00133	.00029	.00003	.00003
Stddev	.00010	.01624	.00100	.00010	.00000	.00003
%RSD	30.401	71.747	75.183	35.388	4.9128	73.210
#1	.00026	.03412	-.00062	.00037	.00003	.00005
#2	.00041	.01115	-.00204	.00022	.00003	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05847	.00002	-.0037	.00013	-.00025	-.00002
Stddev	.02766	.00002	.0069	.00010	.00011	.00021
%RSD	47.310	90.614	188.3	76.317	46.378	842.73
#1	.07803	.00001	-.0085	.00021	-.00017	.00012
#2	.03891	.00003	.0012	.00006	-.00033	-.00017
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-609023/1-A Acquired: 12/16/2021 16:32:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00370	-.05032	-.00240	.00531	.00000	-.00230
Stddev	.00076	.02325	.00121	.00026	.00001	.00002
%RSD	20.442	46.205	50.357	4.8067	296.41	1.0609
#1	.00424	-.03388	-.00155	.00513	.00001	-.00229
#2	.00317	-.06676	-.00326	.00549	-.00000	-.00232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01717	.00004	.00088	.0323	.00035	.00087
Stddev	.00181	.00030	.00009	.0037	.00062	.00023
%RSD	10.537	750.96	10.615	11.55	176.13	26.373
#1	.01589	-.00017	.00082	.0349	.00079	.00071
#2	.01845	.00025	.00095	.0296	-.00009	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-609023/1-A Acquired: 12/16/2021 16:32:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01068	.00010	.00082	.00051	.00009	.00013
Stddev	.00160	.00008	.00103	.00025	.00022	.00016
%RSD	14.972	81.397	125.04	48.923	240.62	130.05
#1	.01181	.00016	.00155	.00033	-.00006	.00001
#2	.00955	.00004	.00010	.00068	.00024	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00164
Stddev	.00051
%RSD	31.101
#1	.00200
#2	.00128
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: MB 480-609023/1-A Acquired: 12/16/2021 16:32:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4017.2	2265.3	72495.	3536.3
Stddev	3.8	1.0	294.	10.1
%RSD	.09448	.04290	.40605	.28684
#1	4014.5	2264.6	72704.	3529.2
#2	4019.9	2266.0	72287.	3543.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.032%	98.054%	99.934%	100.18%
Range				

Sample Name: CCV-6817081 Acquired: 12/16/2021 16:36:02 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0076	49.495	1.0032	1.0340	.99184	1.0060	50.337	.99956
Stddev	.0060	.133	.0038	.0000	.00403	.0001	.043	.00001
%RSD	.59370	.26883	.37822	.00018	.40674	.01508	.08526	.00120
#1	1.0034	49.401	1.0058	1.0340	.98898	1.0059	50.368	.99957
#2	1.0119	49.589	1.0005	1.0340	.99469	1.0061	50.307	.99955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.022	.99180	1.0040	.99535	50.477	49.667	.98984	49.883
Stddev	.012	.00011	.0020	.00575	.073	.164	.00497	.212
%RSD	1.142	.01089	.20102	.57732	.14441	.33107	.50205	.42405
#1	1.014	.99188	1.0026	.99129	50.425	49.551	.98633	49.733
#2	1.031	.99172	1.0055	.99941	50.528	49.784	.99336	50.032
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0114	1.0157	49.305	.99472	.99474	24.87	.99936	.99813
Stddev	.0037	.0029	.142	.00095	.00053	.03	.00281	.00069
%RSD	.36741	.28063	.28867	.09532	.05297	.1072	.28107	.06951
#1	1.0088	1.0137	49.204	.99405	.99437	24.89	1.0013	.99862
#2	1.0140	1.0177	49.405	.99539	.99511	24.85	.99738	.99764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/16/2021 16:36:02 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.123**	**.99072**	**.99246**	**1.0053**	**.99938**	**1.0042**	**1.0285**
Stddev	.039	.00109	.00400	.0032	.00052	.0039	.0062
%RSD	.38527	.10973	.40334	.31699	.05177	.38624	.60317
#1	10.095	.98995	.98963	1.0030	.99974	1.0015	1.0241
#2	10.150	.99149	.99529	1.0075	.99901	1.0070	1.0328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3465.0**	**2200.1**	**67478.**	**3440.3**
Stddev	1.3	2.4	431.	5.9
%RSD	.03676	.11068	.63884	.17256
#1	3465.9	2201.8	67783.	3444.5
#2	3464.1	2198.4	67173.	3436.1

Sample Name: CCB-6819143 Acquired: 12/16/2021 16:39:42 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.03074**	**-.00164**	**.00018**	**.00007**	**.00003**	**.00285**	**.00004**
Stddev	.00016	.02789	.00068	.00013	.00000	.00009	.00101	.00003
%RSD	121.09	90.740	41.631	69.953	1.1490	348.14	35.385	72.077
#1	.00002	.05046	-.00115	.00009	.00007	.00009	.00356	.00002
#2	.00025	.01102	-.00212	.00027	.00007	-.00004	.00213	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0052**	**.00009**	**-.00003**	**.00039**	**.00819**	**-.03514**	**-.00208**	**.00072**
Stddev	.0156	.00008	.00019	.00017	.00371	.00368	.00081	.00209
%RSD	301.1	98.685	751.92	44.601	45.347	10.460	38.808	291.42
#1	.0058	.00015	-.00016	.00027	.01081	-.03254	-.00266	-.00076
#2	-.0162	.00003	.00011	.00052	.00556	-.03774	-.00151	.00219
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00406**	**.00463**	**-.00000**	**.00072**	**.0030**	**-.00024**	**.00267**
Stddev	.00005	.00074	.00415	.00003	.00020	.0025	.00138	.00139
%RSD	64.970	18.192	89.614	895.80	27.974	83.85	573.23	52.100
#1	.00004	.00458	.00756	-.00002	.00058	.0047	.00073	.00366
#2	.00011	.00354	.00170	.00002	.00086	.0012	-.00122	.00169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6819143 Acquired: 12/16/2021 16:39:42 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01467	.00051	.00003	.00066	.00050	.00011	-.00002
Stddev	.00815	.00007	.00002	.00015	.00099	.00038	.00001
%RSD	55.507	14.162	64.313	22.617	198.02	338.41	30.654
#1	.02043	.00056	.00005	.00055	.00121	-.00016	-.00003
#2	.00891	.00046	.00002	.00076	-.00020	.00038	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4046.3	2276.7	71854.	3484.2
Stddev	7.4	2.9	72.	3.5
%RSD	.18318	.12630	.10078	.09917
#1	4041.0	2274.7	71802.	3486.6
#2	4051.5	2278.7	71905.	3481.7

Sample Name: CCVL-6819272 Acquired: 12/16/2021 16:43:37 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00569**	**.20676**	**.01438**	**.01961**	**.00214**	**.00206**	**.50802**	**.00196**
Stddev	.00025	.01111	.00072	.00067	.00001	.00017	.00062	.00006
%RSD	4.4067	5.3728	4.9734	3.4375	.39633	8.2267	.12128	2.9469
#1	.00587	.19890	.01387	.02008	.00213	.00194	.50845	.00201
#2	.00551	.21461	.01488	.01913	.00214	.00218	.50758	.00192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0042**	**.00373**	**.00390**	**.01028**	**.05292**	**.44941**	**.02701**	**.19367**
Stddev	.0281	.00005	.00009	.00026	.00048	.00494	.00046	.00231
%RSD	669.4	1.2380	2.3087	2.5215	.91406	1.0995	1.7132	1.1931
#1	.0157	.00370	.00383	.01010	.05326	.45290	.02734	.19203
#2	-.0241	.00376	.00396	.01047	.05258	.44591	.02669	.19530
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00304**	**.00870**	**.97853**	**.00958**	**.00983**	**.1863**	**.02062**	**.02278**
Stddev	.00002	.00013	.00798	.00006	.00108	.0002	.00064	.00087
%RSD	.53237	1.5291	.81557	.64943	10.952	.1027	3.0861	3.8107
#1	.00303	.00860	.98418	.00962	.00907	.1861	.02107	.02217
#2	.00305	.00879	.97289	.00953	.01059	.1864	.02017	.02339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6819272 Acquired: 12/16/2021 16:43:37 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.46524	.00934	.00505	.00485	.02035	.00496	.00980
Stddev	.00613	.00016	.00003	.00034	.00125	.00025	.00052
%RSD	1.3176	1.7075	.59646	7.0606	6.1646	5.0142	5.3425
#1	.46958	.00945	.00507	.00461	.01947	.00478	.01017
#2	.46091	.00923	.00503	.00510	.02124	.00513	.00943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4029.4	2286.3	72247.	3487.6
Stddev	2.0	.2	156.	22.3
%RSD	.04971	.00660	.21639	.64059
#1	4030.8	2286.2	72358.	3503.4
#2	4027.9	2286.4	72137.	3471.8

Sample Name: LCS 480-609023/2-A Acquired: 12/16/2021 16:47:33 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05007	10.079	.20993	.20952	.21474	.21436
Stddev	.00016	.019	.00096	.00074	.00099	.00033
%RSD	.31784	.18405	.45938	.35273	.46039	.15411
#1	.04995	10.092	.21061	.20900	.21544	.21413
#2	.05018	10.066	.20925	.21004	.21404	.21459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.269	.20522	.0061	.19751	.20209	.19985
Stddev	.002	.00037	.0027	.00009	.00026	.00094
%RSD	.01788	.18082	45.22	.04488	.13006	.47147
#1	10.268	.20548	.0080	.19757	.20227	.20052
#2	10.271	.20495	.0041	.19745	.20190	.19919
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCS 480-609023/2-A Acquired: 12/16/2021 16:47:33 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.456**	**10.048**	**.19725**	**10.485**	**.21096**	**.21329**
Stddev	.026	.020	.00102	.009	.00041	.00039
%RSD	.25079	.19447	.51862	.08898	.19231	.18181
#1	10.438	10.062	.19653	10.492	.21125	.21302
#2	10.475	10.034	.19798	10.479	.21068	.21356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.8805**	**.19796**	**.20415**	**9.951**	**.21729**	**.19870**
Stddev	.0089	.00042	.00046	.019	.00044	.00050
%RSD	.09039	.21449	.22544	.1897	.20439	.25044
#1	9.8742	.19765	.20382	9.938	.21760	.19906
#2	9.8868	.19826	.20447	9.965	.21698	.19835
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCS 480-609023/2-A Acquired: 12/16/2021 16:47:33 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6874**	**.19431**	**.20309**	**.20683**	**.20665**	**.20421**
Stddev	.0472	.00026	.00004	.00094	.00023	.00094
%RSD	.48729	.13287	.02175	.45595	.11026	.45841
#1	9.6540	.19449	.20312	.20750	.20649	.20488
#2	9.7207	.19413	.20305	.20617	.20682	.20355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21155**
Stddev	.00080
%RSD	.37798
#1	.21212
#2	.21099
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: LCS 480-609023/2-A Acquired: 12/16/2021 16:47:33 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3781.1	2240.6	70585.	3530.3
Stddev	.6	.8	304.	1.9
%RSD	.01514	.03692	.43076	.05493
#1	3781.5	2241.2	70370.	3528.9
#2	3780.7	2240.0	70800.	3531.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.213%	96.986%	97.300%	100.01%
Range				

Sample Name: 480-193435-AB-2-A Acquired: 12/16/2021 16:51:15 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**3.7882**	**.00074**	**.03678**	**.15710**	**.00023**
Stddev	.00010	.0185	.00091	.00023	.00039	.00002
%RSD	68.332	.48906	122.99	.61334	.24581	7.2363
#1	-.00008	3.8013	.00139	.03694	.15683	.00024
#2	-.00022	3.7751	.00010	.03662	.15737	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**68.891**	**.00018**	**.0083**	**.00114**	**.00426**	**.00276**
Stddev	.126	.00002	.0055	.00010	.00009	.00010
%RSD	.18342	8.6843	65.90	8.5764	2.0278	3.5165
#1	68.801	.00017	.0122	.00121	.00432	.00269
#2	68.980	.00019	.0044	.00107	.00420	.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193435-AB-2-A Acquired: 12/16/2021 16:51:15 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.2259**	**3.9507**	**.03323**	**121.36**	**.05697**	**.00062**
Stddev	.0237	.0309	.00042	.46	.00035	.00003
%RSD	.73442	.78256	1.2588	.37585	.61364	5.1677
#1	3.2426	3.9289	.03293	121.69	.05722	.00064
#2	3.2091	3.9726	.03352	121.04	.05673	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.211**	**.00363**	**.00331**	**5.026**	**-.00272**	**-.00281**
Stddev	.027	.00028	.00094	.004	.00063	.00172
%RSD	.09621	7.7809	28.427	.0828	23.079	61.123
#1	28.192	.00343	.00265	5.023	-.00228	-.00402
#2	28.230	.00383	.00398	5.029	-.00317	-.00159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193435-AB-2-A Acquired: 12/16/2021 16:51:15 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.429**	**.00045**	**1.4840**	**.18308**	**.00163**	**.00751**
Stddev	.100	.00002	.0000	.01387	.00153	.00009
%RSD	.57089	4.4489	.00204	7.5756	93.874	1.1818
#1	17.499	.00047	1.4840	.19288	.00270	.00757
#2	17.359	.00044	1.4840	.17327	.00055	.00745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00796**
Stddev	.00010
%RSD	1.2758
#1	.00803
#2	.00789
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193435-AB-2-A Acquired: 12/16/2021 16:51:15 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3467.5	2135.8	66839.	3415.0
Stddev	2.6	2.7	44.	9.8
%RSD	.07412	.12836	.06575	.28727
#1	3469.4	2137.8	66808.	3422.0
#2	3465.7	2133.9	66870.	3408.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.482%	92.450%	92.136%	96.742%
Range				

Sample Name: 480-193435-AB-3-A Acquired: 12/16/2021 16:55:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00032	.53044	-.00148	.07394	1.7233	.00006
Stddev	.00012	.01096	.00026	.00042	.0059	.00004
%RSD	38.464	2.0666	17.749	.56205	.34320	60.016
#1	.00023	.53819	-.00130	.07424	1.7191	.00009
#2	.00040	.52269	-.00167	.07365	1.7275	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	141.14	.00018	-.0108	.00011	.00193	.00454
Stddev	.03	.00000	.0237	.00001	.00013	.00033
%RSD	.01878	1.5154	219.5	13.021	6.5157	7.1644
#1	141.13	.00017	.0060	.00012	.00202	.00477
#2	141.16	.00018	-.0275	.00010	.00184	.00431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193435-AB-3-A Acquired: 12/16/2021 16:55:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15953**	**6.6132**	**.05202**	**.93062**	**.00647**	**.01913**
Stddev	.00480	.0005	.00039	.00391	.00002	.00007
%RSD	3.0100	.00705	.75468	.42032	.26999	.34570
#1	.15614	6.6135	.05229	.93338	.00646	.01908
#2	.16293	6.6129	.05174	.92785	.00649	.01917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.489**	**.00071**	**.00183**	**3.861**	**-.00016**	**-.00099**
Stddev	.122	.00013	.00094	.001	.00006	.00107
%RSD	.35397	17.803	51.296	.0140	40.055	107.54
#1	34.403	.00062	.00250	3.861	-.00011	-.00174
#2	34.576	.00080	.00117	3.862	-.00021	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193435-AB-3-A Acquired: 12/16/2021 16:55:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.4798	.00289	F 11.622	.00373	.00085	.00442
Stddev	.0148	.00054	.041	.00027	.00064	.00035
%RSD	.26949	18.796	.35277	7.1920	74.832	7.9856
#1	5.4693	.00327	11.651	.00392	.00130	.00417
#2	5.4902	.00251	11.593	.00354	.00040	.00467
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000			
Low Limit			-.00500			

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00602
Stddev	.00113
%RSD	18.725
#1	.00681
#2	.00522
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193435-AB-3-A Acquired: 12/16/2021 16:55:06 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3532.7	2122.0	66759.	3429.0
Stddev	11.1	5.4	48.	10.1
%RSD	.31418	.25405	.07152	.29367
#1	3524.8	2118.2	66725.	3436.2
#2	3540.5	2125.9	66792.	3421.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.088%	91.854%	92.026%	97.139%
Range				

Sample Name: 480-193435-AB-5-A Acquired: 12/16/2021 16:59:09 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00016	.14404	-.00080	.07595	.07809	.00001
Stddev	.00028	.00701	.00086	.00083	.00003	.00002
%RSD	178.30	4.8649	108.51	1.0967	.03732	226.47
#1	-.00004	.13908	-.00141	.07653	.07807	.00002
#2	.00036	.14899	-.00019	.07536	.07811	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	73.810	.00014	-.0073	.00244	.00034	.00187
Stddev	.278	.00002	.0228	.00002	.00030	.00023
%RSD	.37697	17.505	311.1	.78342	86.242	12.106
#1	73.614	.00012	.0088	.00245	.00056	.00171
#2	74.007	.00016	-.0234	.00242	.00013	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193435-AB-5-A Acquired: 12/16/2021 16:59:09 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10680**	**4.7158**	**.02169**	**50.421**	**.51810**	**.01294**
Stddev	.00555	.0210	.00036	.038	.00033	.00005
%RSD	5.1922	.44537	1.6657	.07545	.06370	.37919
#1	.11073	4.7010	.02144	50.394	.51787	.01290
#2	.10288	4.7307	.02195	50.448	.51834	.01297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.838**	**.00392**	**.00154**	**4.566**	**-.00043**	**-.00515**
Stddev	.003	.00015	.00117	.009	.00073	.00092
%RSD	.01051	3.8977	75.926	.1944	168.66	17.785
#1	25.840	.00381	.00237	4.572	-.00094	-.00579
#2	25.836	.00403	.00071	4.560	.00008	-.00450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193435-AB-5-A Acquired: 12/16/2021 16:59:09 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.5190**	**.00055**	**.77782**	**.00247**	**.00123**	**.00267**
Stddev	.0033	.00010	.00070	.00005	.00084	.00006
%RSD	.04343	18.056	.09013	2.2097	67.634	2.3775
#1	7.5166	.00048	.77831	.00251	.00064	.00272
#2	7.5213	.00062	.77732	.00243	.00183	.00263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00248**
Stddev	.00080
%RSD	32.158
#1	.00304
#2	.00192
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193435-AB-5-A Acquired: 12/16/2021 16:59:09 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3557.0	2137.9	67408.	3463.0
Stddev	.5	3.7	115.	13.9
%RSD	.01458	.17323	.17096	.40038
#1	3556.6	2135.2	67490.	3472.8
#2	3557.4	2140.5	67327.	3453.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.687%	92.539%	92.921%	98.101%
Range				

Sample Name: 480-193435-AB-6-A Acquired: 12/16/2021 17:03:01 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00019	.11040	-.00001	.09552	.10486	-.00001
Stddev	.00029	.00165	.00018	.00027	.00013	.00003
%RSD	151.42	1.4977	1281.1	.27881	.12293	345.05
#1	-.00001	.10923	-.00014	.09571	.10477	.00001
#2	.00040	.11157	.00011	.09533	.10495	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	82.002	.00011	.0076	-.00004	.00032	.00090
Stddev	.120	.00014	.0047	.00000	.00031	.00004
%RSD	.14605	121.55	61.82	11.248	96.980	4.0678
#1	82.086	.00021	.0109	-.00005	.00010	.00093
#2	81.917	.00002	.0043	-.00004	.00054	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193435-AB-6-A Acquired: 12/16/2021 17:03:01 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15019**	**4.2879**	**.03546**	**61.951**	**.09167**	**.00187**
Stddev	.00184	.0046	.00034	.076	.00012	.00018
%RSD	1.2219	.10801	.96333	.12305	.13539	9.6144
#1	.14889	4.2911	.03570	62.005	.09176	.00200
#2	.15149	4.2846	.03521	61.897	.09158	.00174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.168**	**.00024**	**.00129**	**7.878**	**.00083**	**-.00358**
Stddev	.055	.00008	.00072	.026	.00109	.00289
%RSD	.22778	33.115	56.198	.3355	132.24	80.912
#1	24.129	.00018	.00078	7.897	.00160	-.00153
#2	24.207	.00029	.00180	7.859	.00005	-.00562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193435-AB-6-A Acquired: 12/16/2021 17:03:01 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.6898	-.00048	2.6420	.00279	.00201	.00032
Stddev	.0563	.00016	.0050	.00068	.00201	.00037
%RSD	.64840	33.542	.19084	24.396	100.07	116.46
#1	8.7297	-.00036	2.6385	.00231	.00059	.00058
#2	8.6500	-.00059	2.6456	.00327	.00344	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00134
Stddev	.00050
%RSD	37.389
#1	.00170
#2	.00099
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193435-AB-6-A Acquired: 12/16/2021 17:03:01 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3537.5	2140.8	67014.	3432.8
Stddev	8.5	.2	182.	2.4
%RSD	.23905	.00807	.27167	.07065
#1	3543.5	2141.0	66885.	3434.5
#2	3531.5	2140.7	67143.	3431.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.206%	92.667%	92.378%	97.246%
Range				

Sample Name: 193435-AB-6-ASD@5 Acquired: 12/16/2021 17:06:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	.04721	-.00108	.01799	.02110	-.00000
Stddev	.00008	.02436	.00003	.00027	.00008	.00006
%RSD	26.891	51.604	3.1152	1.4968	.39481	1778.6
#1	.00036	.06444	-.00110	.01818	.02116	-.00005
#2	.00024	.02998	-.00106	.01779	.02105	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.544	.00012	-.0108	.00002	.00019	.00050
Stddev	.096	.00003	.0099	.00001	.00003	.00002
%RSD	.57788	22.523	91.50	48.161	17.804	3.0289
#1	16.612	.00014	-.0038	.00001	.00021	.00049
#2	16.477	.00010	-.0179	.00003	.00016	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 193435-AB-6-ASD@5 Acquired: 12/16/2021 17:06:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03279	.80731	.00580	11.912	.01832	-.00263
Stddev	.00327	.01208	.00052	.089	.00006	.00010
%RSD	9.9779	1.4962	8.8972	.74457	.33753	3.7403
#1	.03048	.81586	.00616	11.975	.01837	-.00256
#2	.03511	.79877	.00543	11.849	.01828	-.00270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.7483	.00002	-.00023	1.492	.00012	.00015
Stddev	.0178	.00019	.00077	.001	.00011	.00104
%RSD	.37444	775.51	342.35	.0408	84.972	688.63
#1	4.7609	-.00011	.00032	1.492	.00020	.00089
#2	4.7358	.00016	-.00077	1.493	.00005	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 193435-AB-6-ASD@5 Acquired: 12/16/2021 17:06:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6844**	**-.00015**	**.52342**	**.00061**	**.00099**	**.00018**
Stddev	.0105	.00022	.00265	.00009	.00034	.00002
%RSD	.62210	146.23	.50654	14.501	34.414	11.034
#1	1.6918	.00001	.52530	.00067	.00075	.00020
#2	1.6770	-.00031	.52155	.00055	.00124	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00015**
Stddev	.00003
%RSD	19.363
#1	-.00017
#2	-.00013
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 193435-AB-6-ASD@5 Acquired: 12/16/2021 17:06:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3844.0	2230.7	70016.	3446.3
Stddev	3.3	3.4	231.	18.4
%RSD	.08535	.15157	.32961	.53387
#1	3841.6	2228.3	69853.	3433.3
#2	3846.3	2233.1	70179.	3459.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.761%	96.557%	96.515%	97.628%
Range				

Sample Name: 193435-AB-6-APDS Acquired: 12/16/2021 17:10:44 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05107	10.107	.21763	.30640	.30889	.21711
Stddev	.00002	.044	.00001	.00127	.00041	.00020
%RSD	.03282	.43120	.00336	.41338	.13179	.09275
#1	.05108	10.076	.21763	.30551	.30860	.21697
#2	.05106	10.138	.21762	.30730	.30918	.21725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	88.858	.21445	-.0096	.20368	.20424	.20421
Stddev	.092	.00043	.0001	.00044	.00016	.00052
%RSD	.10338	.20265	1.226	.21793	.07666	.25601
#1	88.793	.21414	-.0095	.20336	.20413	.20384
#2	88.923	.21475	-.0097	.20399	.20435	.20458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 193435-AB-6-APDS Acquired: 12/16/2021 17:10:44 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.499**	**14.251**	**.23152**	**70.257**	**.29639**	**.22283**
Stddev	.022	.027	.00057	.297	.00129	.00060
%RSD	.20986	.18611	.24741	.42256	.43551	.27130
#1	10.483	14.270	.23193	70.047	.29547	.22240
#2	10.514	14.232	.23112	70.467	.29730	.22325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.253**	**.20281**	**.21230**	**18.05**	**.21938**	**.20386**
Stddev	.092	.00027	.00072	.10	.00166	.00017
%RSD	.27673	.13220	.33726	.5481	.75784	.08496
#1	33.188	.20300	.21280	17.98	.22056	.20398
#2	33.318	.20262	.21179	18.12	.21820	.20374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 193435-AB-6-APDS Acquired: 12/16/2021 17:10:44 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.947**	**.19921**	**2.7476**	**.21219**	**.21297**	**.20716**
Stddev	.008	.00021	.0008	.00138	.00038	.00047
%RSD	.04437	.10391	.02876	.65136	.17744	.22626
#1	17.942	.19907	2.7470	.21121	.21324	.20683
#2	17.953	.19936	2.7481	.21317	.21271	.20750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21236**
Stddev	.00187
%RSD	.87841
#1	.21104
#2	.21368
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 193435-AB-6-APDS Acquired: 12/16/2021 17:10:44 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3466.4**	**2124.9**	**67215.**	**3451.6**
Stddev	1.9	6.0	39.	24.6
%RSD	.05503	.28426	.05833	.71281
#1	3467.8	2129.2	67243.	3469.0
#2	3465.1	2120.7	67187.	3434.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.455%	91.979%	92.655%	97.778%
Range				

Sample Name: 480-193435-AB-6-B MS Acquired: 12/16/2021 17:14:26 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05106	10.141	.21720	.30433	.30657	.21241
Stddev	.00002	.039	.00103	.00014	.00445	.00068
%RSD	.04783	.38687	.47620	.04667	1.4521	.31812
#1	.05104	10.169	.21793	.30423	.30972	.21288
#2	.05107	10.113	.21647	.30443	.30343	.21193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	88.029	.20954	.0099	.19901	.19886	.20042
Stddev	.091	.00029	.0321	.00020	.00101	.00011
%RSD	.10341	.14013	325.5	.10016	.50977	.05713
#1	88.094	.20975	.0326	.19887	.19957	.20050
#2	87.965	.20934	-.0128	.19915	.19814	.20034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193435-AB-6-B MS Acquired: 12/16/2021 17:14:26 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.330**	**14.185**	**.23362**	**68.851**	**.28999**	**.22095**
Stddev	.032	.087	.00144	.157	.00019	.00046
%RSD	.30708	.61577	.61639	.22830	.06414	.20634
#1	10.352	14.247	.23464	68.962	.28985	.22127
#2	10.307	14.124	.23260	68.740	.29012	.22063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.691**	**.19744**	**.20581**	**17.93**	**.22270**	**.20149**
Stddev	.163	.00044	.00082	.04	.00149	.00093
%RSD	.49847	.22082	.39887	.2358	.66911	.45922
#1	32.806	.19713	.20639	17.96	.22165	.20084
#2	32.576	.19774	.20523	17.90	.22375	.20215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193435-AB-6-B MS Acquired: 12/16/2021 17:14:26 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.009	.19795	2.6885	.20861	.20800	.20296
Stddev	.098	.00147	.0127	.00094	.00025	.00132
%RSD	.54598	.74378	.47256	.45292	.11892	.64890
#1	18.079	.19899	2.6975	.20928	.20783	.20203
#2	17.940	.19691	2.6795	.20794	.20818	.20389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20463
Stddev	.00156
%RSD	.76065
#1	.20573
#2	.20353
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193435-AB-6-B MS Acquired: 12/16/2021 17:14:26 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3472.4	2123.9	67390.	3439.4
Stddev	9.4	4.6	38.	3.1
%RSD	.26969	.21652	.05572	.09156
#1	3479.0	2127.2	67363.	3437.2
#2	3465.7	2120.7	67417.	3441.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.601%	91.935%	92.896%	97.433%
Range				

Sample Name: 193435-AB-6-C MSD Acquired: 12/16/2021 17:18:10 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05208	10.429	.21797	.30905	.31669	.21903
Stddev	.00006	.100	.00106	.00083	.00031	.00122
%RSD	.11738	.95879	.48528	.27006	.09856	.55782
#1	.05203	10.500	.21722	.30846	.31691	.21989
#2	.05212	10.359	.21872	.30964	.31647	.21817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	89.576	.21452	-.0223	.20447	.20482	.20633
Stddev	.372	.00047	.0112	.00032	.00008	.00058
%RSD	.41543	.21821	50.00	.15499	.03946	.27988
#1	89.839	.21419	-.0302	.20470	.20487	.20674
#2	89.313	.21485	-.0144	.20425	.20476	.20592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 193435-AB-6-C MSD Acquired: 12/16/2021 17:18:10 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.627**	**14.545**	**.23936**	**70.434**	**.29845**	**.22609**
Stddev	.018	.030	.00161	.054	.00049	.00032
%RSD	.17084	.20390	.67109	.07648	.16463	.14000
#1	10.640	14.566	.24049	70.396	.29810	.22587
#2	10.614	14.524	.23822	70.472	.29880	.22632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.424**	**.20343**	**.21288**	**18.28**	**.22803**	**.20472**
Stddev	.111	.00120	.00013	.03	.00296	.00062
%RSD	.33310	.58745	.06060	.1433	1.2960	.30513
#1	33.503	.20428	.21297	18.26	.22594	.20517
#2	33.345	.20259	.21278	18.30	.23012	.20428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 193435-AB-6-C MSD Acquired: 12/16/2021 17:18:10 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.409**	**.20274**	**2.7460**	**.21488**	**.21575**	**.20935**
Stddev	.078	.00091	.0064	.00052	.00241	.00076
%RSD	.42507	.44862	.23377	.24385	1.1163	.36412
#1	18.464	.20338	2.7505	.21451	.21746	.20989
#2	18.354	.20209	2.7415	.21525	.21405	.20882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20974**
Stddev	.00103
%RSD	.48878
#1	.20901
#2	.21046
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 193435-AB-6-C MSD Acquired: 12/16/2021 17:18:10 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3464.2	2129.8	66973.	3446.4
Stddev	.3	8.4	43.	12.9
%RSD	.00940	.39631	.06381	.37429
#1	3464.0	2135.8	67003.	3437.2
#2	3464.5	2123.8	66943.	3455.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.401%	92.191%	92.321%	97.630%
Range				

Sample Name: CCV-6817081 Acquired: 12/16/2021 17:21:56 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0048	49.569	1.0121	1.0443	.99656	1.0045	50.408	1.0142
Stddev	.0023	.097	.0038	.0004	.00044	.0046	.115	.0002
%RSD	.22892	.19537	.37980	.04269	.04403	.45478	.22735	.01927
#1	1.0032	49.501	1.0094	1.0440	.99625	1.0013	50.327	1.0140
#2	1.0065	49.638	1.0149	1.0446	.99687	1.0077	50.489	1.0143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.037	.99336	1.0100	.99093	50.380	49.732	.99155	49.871
Stddev	.022	.00001	.0072	.00167	.061	.063	.00348	.059
%RSD	2.145	.00072	.70987	.16831	.12177	.12746	.35114	.11821
#1	1.052	.99337	1.0050	.98975	50.336	49.687	.98909	49.829
#2	1.021	.99336	1.0151	.99211	50.423	49.777	.99402	49.913
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0059	1.0362	49.452	.98721	1.0023	25.30	1.0083	.99764
Stddev	.0004	.0019	.009	.00046	.0006	.02	.0012	.00081
%RSD	.03811	.18120	.01866	.04635	.05592	.0657	.11385	.08159
#1	1.0062	1.0349	49.445	.98753	1.0027	25.31	1.0091	.99706
#2	1.0056	1.0375	49.458	.98689	1.0019	25.29	1.0075	.99821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/16/2021 17:21:56 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.296	.99163	.99328	1.0012	1.0117	1.0028	1.0373
Stddev	.072	.00262	.00155	.0021	.0007	.0046	.0012
%RSD	.70328	.26460	.15594	.21294	.06802	.46244	.11116
#1	10.244	.99348	.99218	.99969	1.0122	.99948	1.0365
#2	10.347	.98977	.99437	1.0027	1.0112	1.0060	1.0382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3468.6	2178.0	67145.	3417.5
Stddev	6.8	5.9	177.	6.0
%RSD	.19663	.27270	.26348	.17521
#1	3473.4	2182.2	67271.	3413.3
#2	3463.7	2173.8	67020.	3421.8

Sample Name: CCB-6819143 Acquired: 12/16/2021 17:25:37 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00275**	**.00231**	**-.00022**	**.00011**	**.00010**	**.00206**	**-.00005**
Stddev	.00027	.03221	.00244	.00015	.00001	.00014	.00036	.00012
%RSD	106.79	1169.5	105.52	71.058	7.6827	144.67	17.658	232.61
#1	-.00006	.02553	.00059	-.00032	.00011	.00020	.00232	-.00014
#2	-.00045	-.02002	.00404	-.00011	.00010	-.00000	.00181	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.00010**	**.00001**	**.00053**	**.00517**	**-.01588**	**-.00204**	**.00014**
Stddev	.0100	.00006	.00008	.00012	.00260	.02902	.00003	.00191
%RSD	981.4	64.697	1299.3	21.887	50.150	182.72	1.5798	1336.5
#1	-.0060	.00005	.00007	.00061	.00701	.00464	-.00201	.00150
#2	.0081	.00014	-.00005	.00045	.00334	-.03640	-.00206	-.00121
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00485**	**-.00763**	**-.00000**	**.00034**	**-.0000**	**.00057**	**.00119**
Stddev	.00002	.00124	.00644	.00015	.00029	.0001	.00043	.00000
%RSD	31.972	25.644	84.457	7592.2	86.364	931.7	76.406	.07508
#1	.00004	.00573	-.01218	.00010	.00013	-.0001	.00087	.00120
#2	.00006	.00397	-.00307	-.00011	.00054	.0001	.00026	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6819143 Acquired: 12/16/2021 17:25:37 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02860	.00051	.00004	.00053	.00060	.00015	.00008
Stddev	.00447	.00043	.00002	.00021	.00132	.00006	.00029
%RSD	15.644	83.146	53.658	39.856	219.89	40.681	352.30
#1	.02544	.00082	.00005	.00038	.00154	.00010	-.00012
#2	.03176	.00021	.00002	.00069	-.00033	.00019	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4048.6	2254.1	72184.	3482.7
Stddev	11.2	4.3	166.	24.6
%RSD	.27679	.18870	.22935	.70498
#1	4040.7	2251.1	72301.	3500.1
#2	4056.6	2257.2	72067.	3465.4

Sample Name: CCVL-6819272 Acquired: 12/16/2021 17:29:33 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00563	.20670	.01492	.01941	.00216	.00209	.51376	.00194
Stddev	.00045	.00705	.00045	.00006	.00000	.00009	.00612	.00006
%RSD	7.9354	3.4110	2.9880	.31062	.03757	4.2048	1.1914	3.3182
#1	.00532	.20172	.01461	.01937	.00216	.00203	.51809	.00189
#2	.00595	.21169	.01524	.01945	.00216	.00215	.50943	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0120	.00367	.00406	.01014	.05404	.44749	.02664	.19068
Stddev	.0052	.00002	.00041	.00004	.00264	.01204	.00042	.00182
%RSD	43.34	.52259	10.062	.44042	4.8850	2.6914	1.5744	.95457
#1	-.0156	.00365	.00434	.01017	.05591	.45601	.02693	.18939
#2	-.0083	.00368	.00377	.01010	.05217	.43897	.02634	.19197
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00313	.00892	.96865	.00969	.00971	.1843	.02096	.02409
Stddev	.00006	.00024	.00312	.00002	.00046	.0037	.00012	.00066
%RSD	1.7686	2.7442	.32165	.17510	4.7589	2.000	.56644	2.7549
#1	.00309	.00910	.96645	.00970	.01003	.1869	.02104	.02456
#2	.00317	.00875	.97086	.00968	.00938	.1817	.02087	.02362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6819272 Acquired: 12/16/2021 17:29:33 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48129**	**.00943**	**.00504**	**.00500**	**.02027**	**.00493**	**.01027**
Stddev	.00717	.00011	.00009	.00016	.00029	.00040	.00005
%RSD	1.4892	1.1966	1.8292	3.2233	1.4171	8.0284	.50869
#1	.48635	.00951	.00497	.00489	.02047	.00521	.01024
#2	.47622	.00935	.00510	.00512	.02007	.00465	.01031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4021.7**	**2275.9**	**72482.**	**3501.5**
Stddev	3.1	.8	196.	6.8
%RSD	.07672	.03429	.27084	.19547
#1	4023.9	2276.5	72343.	3506.4
#2	4019.5	2275.4	72621.	3496.7

Sample Name: 480-193431-D-3-A Acquired: 12/16/2021 17:33:29 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00023	.09739	-.00055	.26372	.05869	.00006
Stddev	.00012	.01000	.00122	.00030	.00007	.00009
%RSD	52.748	10.270	219.83	.11523	.12206	137.43
#1	.00014	.09032	-.00142	.26393	.05874	.00012
#2	.00031	.10446	.00031	.26350	.05864	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	298.49	.00019	.0100	-.00011	.00100	.00138
Stddev	.54	.00009	.0312	.00025	.00007	.00036
%RSD	.18196	44.759	310.8	238.29	7.1306	25.961
#1	298.10	.00025	.0321	.00007	.00095	.00163
#2	298.87	.00013	-.0120	-.00029	.00105	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193431-D-3-A Acquired: 12/16/2021 17:33:29 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.62531**	**7.3444**	**.08083**	**89.830**	**.32621**	**.00050**
Stddev	.00384	.0344	.00080	.174	.00031	.00026
%RSD	.61385	.46891	.98760	.19362	.09431	50.653
#1	.62802	7.3201	.08027	89.953	.32643	.00032
#2	.62259	7.3688	.08140	89.707	.32599	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**368.04**	**.00045**	**.00147**	F **201.1**	**.00113**	**-.01358**
Stddev	.14	.00022	.00048	.6	.00010	.00048
%RSD	.03900	48.196	32.584	.2808	9.1143	3.5098
#1	367.94	.00060	.00181	201.5	.00105	-.01392
#2	368.14	.00030	.00113	200.7	.00120	-.01325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193431-D-3-A Acquired: 12/16/2021 17:33:29 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.0122**	**-.00041**	**2.6064**	**.00210**	**.00168**	**.00001**
Stddev	.0095	.00009	.0064	.00000	.00029	.00008
%RSD	.11838	22.972	.24615	.18042	16.967	985.69
#1	8.0055	-.00034	2.6109	.00210	.00148	-.00005
#2	8.0189	-.00048	2.6018	.00211	.00188	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00398**
Stddev	.00057
%RSD	14.218
#1	.00358
#2	.00437
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193431-D-3-A Acquired: 12/16/2021 17:33:29 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3120.2	1982.0	61600.	3342.8
Stddev	5.2	8.6	107.	1.4
%RSD	.16672	.43221	.17316	.04148
#1	3116.5	1976.0	61676.	3343.7
#2	3123.9	1988.1	61525.	3341.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.919%	85.794%	84.915%	94.695%
Range				

Sample Name: 480-193444-C-1-A Acquired: 12/16/2021 17:37:24 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**3.1826**	**.00007**	**.02865**	**.07525**	**.00008**
Stddev	.00008	.0140	.00042	.00016	.00007	.00001
%RSD	29.601	.44018	579.15	.55361	.09621	16.841
#1	-.00020	3.1726	.00037	.02877	.07530	.00007
#2	-.00031	3.1925	-.00023	.02854	.07520	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.237**	**.00013**	**-.0055**	**.00125**	**.00464**	**.00426**
Stddev	.002	.00007	.0213	.00000	.00020	.00007
%RSD	.01386	57.534	387.3	.14717	4.2593	1.6258
#1	15.238	.00008	-.0205	.00125	.00478	.00431
#2	15.235	.00018	.0095	.00125	.00450	.00421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193444-C-1-A Acquired: 12/16/2021 17:37:24 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.6326**	**3.2552**	**.00131**	**2.7307**	**.20485**	**-.00309**
Stddev	.0080	.0050	.00057	.0039	.00008	.00003
%RSD	.21888	.15408	43.277	.14396	.03884	1.0338
#1	3.6270	3.2588	.00171	2.7279	.20491	-.00307
#2	3.6382	3.2517	.00091	2.7335	.20479	-.00312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**35.431**	**.00346**	**.00373**	**1.006**	**-.00028**	**-.00015**
Stddev	.019	.00003	.00030	.003	.00180	.00098
%RSD	.05324	.73163	8.0109	.3272	650.13	655.79
#1	35.444	.00344	.00395	1.009	-.00155	-.00084
#2	35.417	.00348	.00352	1.004	.00099	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193444-C-1-A Acquired: 12/16/2021 17:37:24 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6185**	**-.00032**	**.08130**	**.22936**	**-.00021**	**.00694**
Stddev	.0536	.00026	.00005	.00302	.00042	.00001
%RSD	.55682	79.924	.05743	1.3145	197.60	.15124
#1	9.5806	-.00051	.08133	.22723	-.00051	.00695
#2	9.6564	-.00014	.08126	.23150	.00008	.00693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01610**
Stddev	.00052
%RSD	3.1997
#1	.01573
#2	.01646
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193444-C-1-A Acquired: 12/16/2021 17:37:24 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3746.6	2217.0	69732.	3516.6
Stddev	1.9	2.5	123.	14.0
%RSD	.04998	.11331	.17696	.39688
#1	3745.3	2215.2	69645.	3506.7
#2	3747.9	2218.8	69819.	3526.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.361%	95.964%	96.124%	99.620%
Range				

Sample Name: 480-193444-C-2-A Acquired: 12/16/2021 17:41:18 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**4.2519**	**.00715**	**.21747**	**.68161**	**.00017**
Stddev	.00049	.0241	.00130	.00024	.00029	.00005
%RSD	167.77	.56668	18.141	.10916	.04298	26.029
#1	-.00005	4.2348	.00624	.21730	.68182	.00021
#2	-.00064	4.2689	.00807	.21764	.68140	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**169.28**	**.00026**	**.0033**	**.00536**	**.00794**	**.25428**
Stddev	.09	.00002	.0016	.00003	.00012	.00025
%RSD	.05228	7.3709	49.01	.55478	1.4755	.09804
#1	169.34	.00024	.0045	.00533	.00786	.25446
#2	169.22	.00027	.0022	.00538	.00803	.25410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193444-C-2-A Acquired: 12/16/2021 17:41:18 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.5651**	**11.894**	**.02192**	**59.603**	**3.8369**	**.00026**
Stddev	.0241	.001	.00041	.061	.0161	.00006
%RSD	.36739	.01027	1.8681	.10197	.41938	23.337
#1	6.5481	11.895	.02163	59.560	3.8483	.00021
#2	6.5822	11.893	.02221	59.646	3.8256	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**142.69**	**.03012**	**.00365**	**1.296**	**.00627**	**-.00916**
Stddev	.17	.00037	.00141	.001	.00019	.00204
%RSD	.11907	1.2166	38.791	.0466	3.0833	22.252
#1	142.57	.03038	.00265	1.296	.00640	-.00772
#2	142.81	.02986	.00465	1.297	.00613	-.01060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193444-C-2-A Acquired: 12/16/2021 17:41:18 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.237**	**.00051**	**.71160**	**.40620**	**-.00125**	**.01274**
Stddev	.005	.00038	.00141	.00036	.00202	.00023
%RSD	.02665	74.881	.19745	.08927	161.02	1.8446
#1	18.234	.00024	.71061	.40645	-.00268	.01291
#2	18.241	.00078	.71259	.40594	.00017	.01257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01600**
Stddev	.00009
%RSD	.58606
#1	.01593
#2	.01606
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193444-C-2-A Acquired: 12/16/2021 17:41:18 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3311.7	2076.5	65514.	3426.6
Stddev	1.6	1.8	58.	1.1
%RSD	.04789	.08539	.08871	.03143
#1	3312.8	2077.7	65472.	3427.4
#2	3310.6	2075.2	65555.	3425.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.641%	89.881%	90.309%	97.070%
Range				

Sample Name: 480-193444-C-3-A Acquired: 12/16/2021 17:45:22 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	4.9819	-.00021	.02835	.09093	.00016
Stddev	.00032	.0248	.00173	.00051	.00003	.00005
%RSD	131.91	.49792	816.32	1.8104	.03789	33.917
#1	.00002	4.9994	.00101	.02871	.09095	.00012
#2	.00048	4.9644	-.00144	.02798	.09090	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.680	.00015	.0050	.00191	.00721	.00528
Stddev	.017	.00007	.0226	.00011	.00018	.00007
%RSD	.10683	47.466	454.6	5.5586	2.5071	1.3814
#1	15.692	.00010	-.0110	.00183	.00708	.00523
#2	15.668	.00020	.0210	.00198	.00733	.00533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193444-C-3-A Acquired: 12/16/2021 17:45:22 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.0215**	**3.7733**	**.00283**	**3.2871**	**.25733**	**-.00326**
Stddev	.0173	.0122	.00072	.0110	.00112	.00026
%RSD	.28745	.32223	25.603	.33402	.43543	8.0504
#1	6.0093	3.7819	.00334	3.2793	.25653	-.00345
#2	6.0338	3.7647	.00231	3.2949	.25812	-.00308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**35.833**	**.00486**	**.00489**	**.9927**	**-.00030**	**-.00355**
Stddev	.031	.00001	.00038	.0039	.00056	.00053
%RSD	.08670	.20152	7.7350	.3915	190.22	14.998
#1	35.811	.00485	.00462	.9899	.00010	-.00317
#2	35.855	.00486	.00515	.9954	-.00069	-.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193444-C-3-A Acquired: 12/16/2021 17:45:22 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.404**	**.00037**	**.08463**	**.36536**	**-.00002**	**.01124**
Stddev	.075	.00052	.00015	.00351	.00032	.00023
%RSD	.60075	141.01	.17639	.96116	1565.8	2.0842
#1	12.457	.00074	.08453	.36287	.00020	.01107
#2	12.351	.00000	.08474	.36784	-.00024	.01141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02373**
Stddev	.00028
%RSD	1.1623
#1	.02354
#2	.02393
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193444-C-3-A Acquired: 12/16/2021 17:45:22 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3730.1	2232.8	70375.	3531.1
Stddev	4.3	1.5	2.	2.0
%RSD	.11425	.06726	.00306	.05556
#1	3733.1	2233.8	70376.	3532.5
#2	3727.1	2231.7	70373.	3529.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.955%	96.647%	97.010%	100.03%
Range				

Sample Name: 480-193444-C-4-A Acquired: 12/16/2021 17:49:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.05561**	**.00057**	**.20694**	**.92419**	**.00006**
Stddev	.00031	.00024	.00021	.00119	.00377	.00007
%RSD	107.50	.43876	35.772	.57416	.40748	116.89
#1	-.00051	.05578	.00072	.20610	.92153	.00011
#2	-.00007	.05544	.00043	.20778	.92686	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**121.03**	**.00013**	**.0135**	**.00088**	**.00015**	**.00148**
Stddev	.34	.00003	.0058	.00013	.00005	.00025
%RSD	.28048	18.882	42.91	14.948	33.427	16.630
#1	121.27	.00012	.0176	.00097	.00011	.00165
#2	120.79	.00015	.0094	.00078	.00019	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193444-C-4-A Acquired: 12/16/2021 17:49:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.308**	**9.7460**	**.01481**	**16.459**	**.78980**	**-.00367**
Stddev	.100	.0041	.00001	.104	.00386	.00011
%RSD	.25994	.04212	.09384	.63148	.48896	2.9927
#1	38.378	9.7489	.01480	16.385	.78707	-.00359
#2	38.238	9.7431	.01482	16.532	.79253	-.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**93.986**	**.00239**	**.00384**	**12.09**	**-.00255**	**-.00656**
Stddev	.075	.00010	.00043	.03	.00112	.00098
%RSD	.07981	4.0000	11.256	.2752	44.077	14.881
#1	93.933	.00232	.00353	12.06	-.00334	-.00587
#2	94.039	.00245	.00414	12.11	-.00175	-.00725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193444-C-4-A Acquired: 12/16/2021 17:49:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.8714	.00057	.81190	.00330	.00136	.00109
Stddev	.0094	.00021	.00189	.00000	.00074	.00005
%RSD	.09521	36.406	.23233	.04338	54.372	4.6080
#1	9.8648	.00072	.81056	.00330	.00188	.00105
#2	9.8781	.00042	.81323	.00330	.00084	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00490
Stddev	.00085
%RSD	17.380
#1	.00430
#2	.00551
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193444-C-4-A Acquired: 12/16/2021 17:49:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3410.3	2098.5	65692.	3404.5
Stddev	3.8	7.6	250.	4.0
%RSD	.11165	.36225	.38114	.11871
#1	3413.0	2103.9	65869.	3401.7
#2	3407.6	2093.2	65515.	3407.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.072%	90.837%	90.555%	96.445%
Range				

Sample Name: 480-193444-C-5-A Acquired: 12/16/2021 17:53:10 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00001	.10911	.00134	.39018	.62004	.00000
Stddev	.00034	.03555	.00154	.00107	.00462	.00004
%RSD	3159.8	32.580	114.84	.27337	.74549	971.71
#1	.00025	.13424	.00025	.38943	.61677	.00003
#2	-.00023	.08397	.00243	.39094	.62331	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	205.06	.00021	.0313	.00004	.00062	.00462
Stddev	.01	.00024	.0156	.00007	.00006	.00046
%RSD	.00295	116.92	49.90	154.82	9.6312	9.9090
#1	205.06	.00004	.0202	-.00000	.00066	.00429
#2	205.05	.00038	.0423	.00009	.00058	.00494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193444-C-5-A Acquired: 12/16/2021 17:53:10 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12074**	**55.440**	**.00981**	**21.732**	**.03591**	**.01326**
Stddev	.01484	.031	.00103	.069	.00024	.00004
%RSD	12.290	.05544	10.490	.31909	.67927	.33916
#1	.11025	55.418	.00908	21.683	.03574	.01323
#2	.13124	55.461	.01054	21.781	.03609	.01329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1139.9**	**.00140**	**.00119**	**33.39**	**-.00033**	**-.00825**
Stddev	.9	.00003	.00055	.10	.00081	.00018
%RSD	.07654	2.2168	45.886	.2969	245.64	2.2147
#1	1139.2	.00142	.00081	33.32	.00024	-.00812
#2	1140.5	.00138	.00158	33.46	-.00090	-.00838
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-1.0000					

Sample Name: 480-193444-C-5-A Acquired: 12/16/2021 17:53:10 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.8665**	**-.00080**	**1.9231**	**.00604**	**.00172**	**.01234**
Stddev	.0619	.00010	.0020	.00016	.00072	.00041
%RSD	.78631	12.512	.10514	2.5867	41.777	3.3356
#1	7.8228	-.00073	1.9217	.00615	.00121	.01204
#2	7.9102	-.00088	1.9245	.00593	.00222	.01263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00079**
Stddev	.00002
%RSD	1.9787
#1	.00080
#2	.00078
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193444-C-5-A Acquired: 12/16/2021 17:53:10 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2923.4**	**1919.5**	**58520.**	**3281.0**
Stddev	1.9	6.6	169.	6.4
%RSD	.06489	.34185	.28877	.19356
#1	2924.8	1924.2	58639.	3285.4
#2	2922.1	1914.9	58400.	3276.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.068%	83.087%	80.668%	92.944%
Range				

Sample Name: 480-193444-C-6-A Acquired: 12/16/2021 17:57:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.03635**	**.00334**	**.21800**	**1.2979**	**-.00005**
Stddev	.00035	.01584	.00079	.00035	.0006	.00006
%RSD	65.433	43.590	23.586	.16243	.04706	121.79
#1	-.00029	.04755	.00278	.21775	1.2983	-.00010
#2	-.00079	.02514	.00389	.21825	1.2974	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**277.69**	**.00103**	**-.0168**	**.00856**	**-.00012**	**.00540**
Stddev	1.15	.00013	.0030	.00028	.00007	.00016
%RSD	.41454	12.282	17.74	3.2323	58.535	2.9549
#1	278.50	.00094	-.0189	.00837	-.00017	.00551
#2	276.87	.00111	-.0147	.00876	-.00007	.00529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193444-C-6-A Acquired: 12/16/2021 17:57:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.9707	15.178	.02958	62.540	8.7554	-.00048
Stddev	.0558	.011	.00049	.003	.0827	.00011
%RSD	.80027	.07036	1.6456	.00436	.94462	22.333
#1	7.0102	15.186	.02924	62.538	8.6970	-.00056
#2	6.9313	15.171	.02993	62.542	8.8139	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1959.2	.01085	.00260	5.659	-.00022	-.01355
Stddev	3.5	.00042	.00028	.017	.00038	.00137
%RSD	.17633	3.8370	10.744	.3069	171.91	10.103
#1	1961.6	.01115	.00280	5.646	-.00048	-.01452
#2	1956.7	.01056	.00240	5.671	.00005	-.01258
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-1.0000					

Sample Name: 480-193444-C-6-A Acquired: 12/16/2021 17:57:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.280**	**.00078**	**2.4978**	**.00064**	**.00153**	**-.00008**
Stddev	.003	.00010	.0008	.00025	.00051	.00024
%RSD	.02321	13.321	.03164	38.527	32.981	318.00
#1	11.278	.00071	2.4983	.00082	.00189	-.00025
#2	11.282	.00086	2.4972	.00047	.00118	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.04538**
Stddev	.00150
%RSD	3.3057
#1	.04644
#2	.04432
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193444-C-6-A Acquired: 12/16/2021 17:57:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2744.6	1838.5	56023.	3223.8
Stddev	1.0	1.8	113.	13.0
%RSD	.03502	.09846	.20212	.40338
#1	2745.3	1839.8	56103.	3214.7
#2	2743.9	1837.2	55943.	3233.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	67.660%	79.580%	77.227%	91.326%
Range				

Sample Name: 480-193434-C-1-A Acquired: 12/16/2021 18:01:22 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	.28439	.05876	F 33.437	.63565	.00005
Stddev	.00043	.01429	.00119	.026	.00042	.00007
%RSD	167.82	5.0236	2.0330	.07818	.06530	143.18
#1	.00056	.29449	.05791	33.419	.63595	.00010
#2	-.00005	.27429	.05960	33.456	.63536	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				18.000		
Low Limit				-.02000		

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	154.73	.00029	.0102	.02378	.22481	.01403
Stddev	.50	.00000	.0144	.00006	.00131	.00051
%RSD	.32027	.43329	140.7	.26424	.58275	3.6639
#1	155.08	.00029	.0204	.02373	.22573	.01439
#2	154.38	.00029	.0001	.02382	.22388	.01366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193434-C-1-A Acquired: 12/16/2021 18:01:22 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.2918	F 762.46	1.9967	233.66	.26212	.00532
Stddev	.0016	6.77	.0022	.52	.00068	.00009
%RSD	.06999	.88821	.11061	.22144	.25986	1.6768
#1	2.2930	767.25	1.9983	234.03	.26260	.00526
#2	2.2907	757.67	1.9952	233.30	.26164	.00539
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		540.00				
Low Limit		-.50000				

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 3107.3	.15837	.00793	55.25	.02043	-.01081
Stddev	5.9	.00018	.00179	.01	.00014	.00030
%RSD	.18921	.11254	22.617	.0121	.70083	2.7745
#1	3111.5	.15849	.00920	55.25	.02054	-.01102
#2	3103.1	.15824	.00667	55.26	.02033	-.01060
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-1.0000					

Sample Name: 480-193434-C-1-A Acquired: 12/16/2021 18:01:22 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.298**	**.02690**	**2.2916**	**.13900**	**.00198**	**.02882**
Stddev	.020	.00054	.0030	.00038	.00092	.00018
%RSD	.08955	2.0247	.13096	.27330	46.653	.63411
#1	22.284	.02729	2.2938	.13926	.00263	.02895
#2	22.312	.02652	2.2895	.13873	.00133	.02869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.28378**
Stddev	.00306
%RSD	1.0790
#1	.28595
#2	.28161
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193434-C-1-A Acquired: 12/16/2021 18:01:22 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2509.6	1733.3	52234.	3142.1
Stddev	.1	1.6	125.	12.9
%RSD	.00345	.08970	.23976	.41119
#1	2509.6	1734.4	52146.	3133.0
#2	2509.5	1732.2	52323.	3151.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	61.866%	75.026%	72.004%	89.011%
Range				

Sample Name: MB 480-609016/1-A Acquired: 12/16/2021 18:05:27 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00046	.03077	-.00250	F .02444	.00006	.00009
Stddev	.00017	.01753	.00011	.00156	.00001	.00005
%RSD	37.607	56.968	4.2816	6.3780	13.946	57.724
#1	.00033	.04316	-.00258	.02554	.00006	.00012
#2	.00058	.01837	-.00243	.02334	.00005	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.02000		
Low Limit				-.00800		

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04140	-.00001	.0011	.00007	.00009	.00117
Stddev	.00119	.00008	.0083	.00008	.00007	.00013
%RSD	2.8737	1455.3	793.2	114.51	76.395	11.378
#1	.04224	-.00006	.0069	.00012	.00013	.00126
#2	.04056	.00005	-.0048	.00001	.00004	.00107
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-609016/1-A Acquired: 12/16/2021 18:05:27 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00377**	**.43787**	**-.00043**	**.00729**	**.00008**	**-.00375**
Stddev	.00256	.02051	.00003	.00101	.00002	.00023
%RSD	67.769	4.6848	6.4474	13.895	24.002	6.1551
#1	-.00196	.45237	-.00041	.00800	.00009	-.00359
#2	-.00558	.42336	-.00045	.00657	.00006	-.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22355**	**.00004**	**.00018**	**.0195**	**-.00033**	**.00109**
Stddev	.00733	.00013	.00030	.0016	.00082	.00004
%RSD	3.2808	301.02	170.80	8.405	245.83	3.2240
#1	.22873	.00013	.00039	.0206	-.00091	.00112
#2	.21836	-.00005	-.00004	.0183	.00025	.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-609016/1-A Acquired: 12/16/2021 18:05:27 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10163	.00029	.00014	.00001	.00024	.00006
Stddev	.01322	.00003	.00001	.00015	.00088	.00016
%RSD	13.011	11.535	6.3644	1089.8	366.98	251.60
#1	.09228	.00031	.00013	.00012	-.00038	.00017
#2	.11098	.00027	.00015	-.00009	.00086	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00110
Stddev	.00028
%RSD	25.372
#1	.00090
#2	.00129
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: MB 480-609016/1-A Acquired: 12/16/2021 18:05:27 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4033.5	2270.0	72177.	3489.2
Stddev	1.2	1.4	117.	22.6
%RSD	.03057	.06080	.16265	.64629
#1	4034.3	2269.0	72094.	3473.2
#2	4032.6	2270.9	72260.	3505.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.433%	98.257%	99.495%	98.843%
Range				

Sample Name: CCV-6817081 Acquired: 12/16/2021 18:09:23 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0069**	**49.540**	**1.0087**	**1.0551**	**.99600**	**1.0040**	**50.401**	**1.0135**
Stddev	.0018	.007	.0006	.0014	.00148	.0012	.160	.0003
%RSD	.17920	.01315	.05510	.13057	.14816	.12274	.31786	.02837
#1	1.0081	49.545	1.0090	1.0560	.99496	1.0049	50.514	1.0137
#2	1.0056	49.536	1.0083	1.0541	.99705	1.0031	50.287	1.0133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.039**	**.99301**	**1.0067**	**.99275**	**50.186**	**49.923**	**.99498**	**49.838**
Stddev	.005	.00111	.0001	.00030	.132	.090	.00163	.153
%RSD	.5263	.11134	.01286	.03066	.26344	.17997	.16376	.30661
#1	1.035	.99379	1.0068	.99254	50.280	49.859	.99382	49.946
#2	1.042	.99222	1.0067	.99297	50.093	49.986	.99613	49.730
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0070**	**1.0332**	**49.335**	**.98923**	**1.0003**	**25.22**	**1.0077**	**.99856**
Stddev	.0029	.0036	.065	.00053	.0006	.01	.0014	.00272
%RSD	.28586	.35034	.13235	.05312	.06064	.0502	.14066	.27287
#1	1.0090	1.0307	49.289	.98960	.99985	25.23	1.0067	1.0005
#2	1.0049	1.0358	49.381	.98885	1.0007	25.21	1.0087	.99663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/16/2021 18:09:23 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.394	.99346	.99296	1.0016	1.0077	1.0030	1.0368
Stddev	.016	.00097	.00130	.0012	.0044	.0014	.0012
%RSD	.15126	.09750	.13117	.12240	.43415	.13786	.11828
#1	10.383	.99278	.99204	1.0024	1.0107	1.0039	1.0376
#2	10.405	.99415	.99388	1.0007	1.0046	1.0020	1.0359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3473.1	2183.6	67194.	3406.2
Stddev	3.0	1.7	13.	8.2
%RSD	.08516	.07738	.01901	.24015
#1	3471.0	2182.4	67185.	3400.4
#2	3475.2	2184.8	67203.	3411.9

Sample Name: CCB-6819143 Acquired: 12/16/2021 18:13:04 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	.01283	.00095	.01132	.00006	-.00001	.00226	-.00004
Stddev	.00063	.01685	.00102	.00013	.00001	.00001	.00096	.00006
%RSD	244.70	131.34	107.40	1.1840	14.141	175.83	42.385	135.75
#1	.00070	.00091	.00023	.01142	.00007	.00000	.00293	-.00000
#2	-.00019	.02474	.00167	.01123	.00006	-.00001	.00158	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0095	-.00009	-.00014	.00047	.00831	.13022	-.00162	.00161
Stddev	.0087	.00011	.00006	.00003	.00535	.01359	.00083	.00091
%RSD	91.50	127.09	40.173	7.1009	64.377	10.435	51.331	56.534
#1	-.0034	-.00001	-.00010	.00044	.00453	.13983	-.00103	.00096
#2	-.0157	-.00017	-.00018	.00049	.01209	.12061	-.00221	.00225
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	.00407	.08983	-.00010	.00071	-.0033	-.00003	.00440
Stddev	.00000	.00121	.00664	.00027	.00064	.0005	.00084	.00088
%RSD	2.6797	29.728	7.3962	285.52	89.632	16.36	2832.0	20.083
#1	.00004	.00492	.08513	-.00029	.00117	-.0037	-.00063	.00377
#2	.00004	.00321	.09452	.00010	.00026	-.0029	.00057	.00502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6819143 Acquired: 12/16/2021 18:13:04 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05867	.00032	.00007	.00056	-.00047	.00013	-.00041
Stddev	.01628	.00013	.00003	.00009	.00029	.00022	.00007
%RSD	27.758	41.602	36.188	16.951	61.642	165.88	17.154
#1	.07018	.00023	.00009	.00062	-.00068	-.00002	-.00046
#2	.04715	.00042	.00005	.00049	-.00027	.00029	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4048.3	2271.5	72290.	3427.3
Stddev	6.5	3.3	298.	16.5
%RSD	.15950	.14594	.41291	.48269
#1	4043.8	2269.1	72501.	3415.6
#2	4052.9	2273.8	72079.	3439.0

Sample Name: CCVL-6819272 Acquired: 12/16/2021 18:17:01 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00626	.21494	.01439	W .02864	.00213	.00202	.51175
Stddev	.00010	.01176	.00068	.00030	.00000	.00000	.00067
%RSD	1.6516	5.4702	4.7302	1.0465	.16304	.04928	.13172
#1	.00633	.20663	.01391	.02885	.00213	.00202	.51223
#2	.00619	.22325	.01487	.02843	.00213	.00202	.51127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value				.02000			
Range				30.000%			

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00192	.0061	.00373	.00384	.01052	.05134	.56113
Stddev	.00003	.0063	.00008	.00022	.00020	.00372	.00109
%RSD	1.7849	102.8	2.1130	5.7521	1.9336	7.2445	.19381
#1	.00194	.0105	.00379	.00369	.01038	.05397	.56190
#2	.00189	.0017	.00368	.00400	.01067	.04871	.56036
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02608	.19544	.00306	.00884	1.0367	.00935	.00953
Stddev	.00080	.00325	.00001	.00015	.0084	.00001	.00004
%RSD	3.0790	1.6622	.21608	1.6665	.81112	.05942	.38717
#1	.02665	.19314	.00306	.00873	1.0308	.00935	.00955
#2	.02551	.19774	.00307	.00894	1.0427	.00934	.00950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCVL-6819272 Acquired: 12/16/2021 18:17:01 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1882**	**.01932**	**.02325**	**.49218**	**.00948**	**.00500**	**.00483**
Stddev	.0014	.00152	.00027	.01444	.00034	.00001	.00010
%RSD	.7416	7.8578	1.1598	2.9340	3.5344	.15230	2.0995
#1	.1872	.01825	.02344	.48197	.00924	.00500	.00490
#2	.1892	.02040	.02306	.50240	.00972	.00501	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	**.01934**	**.00497**	**.00990**
Stddev	.00030	.00003	.00029
%RSD	1.5287	.59547	2.9044
#1	.01913	.00500	.00969
#2	.01955	.00495	.01010
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4033.4**	**2271.3**	**72414.**	**3488.0**
Stddev	4.5	1.1	326.	.2
%RSD	.11112	.04966	.44992	.00484
#1	4030.2	2272.1	72645.	3488.1
#2	4036.6	2270.5	72184.	3487.8

Sample Name: LCS 480-609016/2-A Acquired: 12/16/2021 18:20:57 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04808	9.8427	.20804	.21432	.21051	.20897
Stddev	.00071	.0261	.00153	.00037	.00009	.00062
%RSD	1.4685	.26481	.73639	.17075	.04039	.29587
#1	.04758	9.8611	.20912	.21458	.21045	.20940
#2	.04858	9.8243	.20696	.21406	.21057	.20853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.052	.20223	-.0095	.19291	.19852	.19631
Stddev	.049	.00008	.0182	.00001	.00075	.00042
%RSD	.48346	.04023	191.4	.00770	.37999	.21484
#1	10.087	.20229	-.0224	.19292	.19906	.19602
#2	10.018	.20218	.0034	.19290	.19799	.19661
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCS 480-609016/2-A Acquired: 12/16/2021 18:20:57 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.171**	**9.9172**	**.19353**	**10.229**	**.20627**	**.21118**
Stddev	.028	.0436	.00011	.064	.00105	.00026
%RSD	.27882	.43949	.05702	.62453	.50837	.12290
#1	10.151	9.9480	.19346	10.275	.20701	.21136
#2	10.191	9.8864	.19361	10.184	.20552	.21099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7080**	**.19324**	**.19923**	**9.768**	**.21513**	**.19421**
Stddev	.0454	.00033	.00047	.010	.00018	.00057
%RSD	.46760	.17298	.23534	.1020	.08210	.29418
#1	9.7401	.19301	.19890	9.775	.21501	.19461
#2	9.6760	.19348	.19956	9.761	.21526	.19380
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCS 480-609016/2-A Acquired: 12/16/2021 18:20:57 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.5920**	**.18930**	**.19896**	**.20184**	**.20433**	**.19991**
Stddev	.0011	.00056	.00069	.00027	.00041	.00058
%RSD	.01102	.29512	.34565	.13362	.20082	.28906
#1	9.5913	.18890	.19944	.20203	.20404	.20032
#2	9.5928	.18969	.19847	.20165	.20462	.19950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20551**
Stddev	.00251
%RSD	1.2196
#1	.20728
#2	.20374
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: LCS 480-609016/2-A Acquired: 12/16/2021 18:20:57 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3787.7	2229.9	70884.	3506.6
Stddev	6.2	.5	165.	8.8
%RSD	.16494	.02031	.23321	.25031
#1	3792.2	2230.3	70767.	3500.4
#2	3783.3	2229.6	71001.	3512.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.376%	96.524%	97.712%	99.337%
Range				

Sample Name: 480-193436-D-2-A Acquired: 12/16/2021 18:24:40 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.48073**	**.00858**	**.01102**	**.43839**	**.00006**
Stddev	.00001	.01928	.00097	.00031	.00100	.00000
%RSD	2.1139	4.0108	11.336	2.8338	.22910	3.8603
#1	-.00026	.49437	.00927	.01080	.43768	.00006
#2	-.00027	.46710	.00789	.01124	.43910	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.306**	**.00011**	**-.0057**	**.00112**	**.00084**	**.00287**
Stddev	.055	.00001	.0300	.00005	.00017	.00018
%RSD	.22546	5.4344	528.7	4.2303	19.867	6.1807
#1	24.345	.00011	-.0269	.00108	.00072	.00300
#2	24.267	.00011	.0155	.00115	.00096	.00275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-2-A Acquired: 12/16/2021 18:24:40 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.41779	1.0380	.00167	3.6123	.78063	-.00178
Stddev	.00501	.0142	.00027	.0053	.00272	.00005
%RSD	1.1988	1.3702	16.165	.14697	.34796	2.9209
#1	.42133	1.0279	.00186	3.6161	.78255	-.00181
#2	.41425	1.0480	.00148	3.6086	.77871	-.00174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.6344	.00271	.00105	.5913	-.00006	.00057
Stddev	.0094	.00013	.00069	.0013	.00097	.00197
%RSD	.57659	4.8386	65.731	.2218	1708.5	348.04
#1	1.6411	.00261	.00154	.5904	.00063	.00196
#2	1.6278	.00280	.00056	.5923	-.00075	-.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-2-A Acquired: 12/16/2021 18:24:40 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.6990	.00011	.05766	.00938	-.00032	.00131
Stddev	.0478	.00029	.00059	.00248	.00044	.00012
%RSD	1.2923	254.01	1.0172	26.453	136.10	9.4951
#1	3.7328	.00031	.05807	.00763	-.00001	.00122
#2	3.6652	-.00009	.05724	.01114	-.00064	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00526
Stddev	.00047
%RSD	8.9572
#1	.00559
#2	.00493
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193436-D-2-A Acquired: 12/16/2021 18:24:40 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3894.2	2238.6	71460.	3539.0
Stddev	3.9	1.3	178.	6.9
%RSD	.10042	.05792	.24881	.19496
#1	3891.4	2237.7	71586.	3534.1
#2	3897.0	2239.5	71334.	3543.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.000%	96.900%	98.506%	100.25%
Range				

Sample Name: 480-193436-D-3-A Acquired: 12/16/2021 18:28:39 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	.09723	-.00172	.03666	.19543	.00003
Stddev	.00021	.00458	.00141	.00056	.00002	.00006
%RSD	124.44	4.7063	81.888	1.5147	.01113	188.11
#1	.00002	.10047	-.00271	.03706	.19545	.00008
#2	.00032	.09400	-.00072	.03627	.19542	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	47.179	.00006	-.0052	-.00004	.00033	.00017
Stddev	.292	.00013	.0135	.00003	.00031	.00016
%RSD	.61827	219.73	257.2	95.166	91.643	89.231
#1	47.385	.00015	.0043	-.00001	.00055	.00006
#2	46.972	-.00003	-.0148	-.00006	.00012	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-3-A Acquired: 12/16/2021 18:28:39 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12803	1.0668	.01137	13.665	.02246	-.00259
Stddev	.00188	.0159	.00093	.018	.00012	.00011
%RSD	1.4669	1.4874	8.1577	.13241	.51676	4.3026
#1	.12935	1.0781	.01202	13.678	.02254	-.00267
#2	.12670	1.0556	.01071	13.652	.02237	-.00251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.9554	.00027	.00072	3.353	-.00038	-.00137
Stddev	.0560	.00022	.00090	.021	.00050	.00147
%RSD	.70326	81.209	124.53	.6189	130.60	106.95
#1	7.9950	.00011	.00136	3.367	-.00003	-.00241
#2	7.9159	.00042	.00009	3.338	-.00074	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-3-A Acquired: 12/16/2021 18:28:39 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.7482**	**-.00092**	**.13492**	**.00089**	**.00144**	**.00017**
Stddev	.0762	.00052	.00069	.00014	.00198	.00002
%RSD	1.3258	55.845	.51052	15.659	137.57	13.609
#1	5.8021	-.00056	.13540	.00079	.00284	.00015
#2	5.6944	-.00129	.13443	.00099	.00004	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00262**
Stddev	.00009
%RSD	3.3805
#1	.00256
#2	.00268
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193436-D-3-A Acquired: 12/16/2021 18:28:39 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3766.5	2197.2	69632.	3451.7
Stddev	7.3	2.3	15.	24.9
%RSD	.19306	.10691	.02113	.72133
#1	3771.6	2195.5	69621.	3434.1
#2	3761.4	2198.9	69642.	3469.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.852%	95.107%	95.986%	97.782%
Range				

Sample Name: 480-193436-D-3-ASD@5 Acquired: 12/16/2021 18:32:31 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.03445**	**.00049**	**.00889**	**.03908**	**.00008**
Stddev	.00019	.03796	.00146	.00027	.00009	.00014
%RSD	803.78	110.21	301.03	2.9965	.23361	177.01
#1	-.00016	.00760	.00152	.00908	.03915	.00018
#2	.00011	.06129	-.00055	.00870	.03902	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.4859**	**-.00010**	**-.0145**	**-.00003**	**-.00013**	**.00050**
Stddev	.0308	.00007	.0156	.00006	.00009	.00029
%RSD	.32456	70.300	107.3	185.04	68.023	57.098
#1	9.4642	-.00015	-.0035	-.00007	-.00020	.00071
#2	9.5077	-.00005	-.0255	.00001	-.00007	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-3-ASD@5 Acquired: 12/16/2021 18:32:31 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02772	.22537	.00126	2.7273	.00457	-.00335
Stddev	.00529	.01956	.00004	.0047	.00003	.00008
%RSD	19.071	8.6803	3.1427	.17191	.68513	2.3655
#1	.03146	.21154	.00129	2.7306	.00459	-.00341
#2	.02398	.23920	.00123	2.7240	.00455	-.00330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.6001	-.00001	.00014	.6389	.00050	.00033
Stddev	.0028	.00011	.00084	.0028	.00035	.00006
%RSD	.17736	1161.6	580.29	.4335	70.388	16.808
#1	1.5981	.00007	-.00045	.6409	.00025	.00037
#2	1.6021	-.00008	.00074	.6370	.00074	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-3-ASD@5 Acquired: 12/16/2021 18:32:31 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1544	-.00055	.02677	.00001	.00069	.00008
Stddev	.0061	.00000	.00011	.00018	.00005	.00001
%RSD	.52570	.82592	.41649	2587.1	6.5725	17.991
#1	1.1501	-.00056	.02669	.00013	.00073	.00009
#2	1.1587	-.00055	.02685	-.00012	.00066	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00036
Stddev	.00030
%RSD	82.010
#1	.00057
#2	.00015
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193436-D-3-ASD@5 Acquired: 12/16/2021 18:32:31 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3960.7	2248.5	71482.	3463.3
Stddev	2.7	1.4	234.	7.3
%RSD	.06841	.06195	.32703	.21118
#1	3962.6	2247.5	71317.	3468.4
#2	3958.8	2249.5	71648.	3458.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.639%	97.328%	98.537%	98.109%
Range				

Sample Name: 480-193436-D-3-APDS Acquired: 12/16/2021 18:36:25 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05002	10.062	.21404	.24511	.39356	.21730
Stddev	.00023	.049	.00136	.00046	.00082	.00055
%RSD	.45207	.49111	.63610	.18633	.20770	.25512
#1	.05018	10.096	.21500	.24479	.39414	.21769
#2	.04986	10.027	.21308	.24544	.39298	.21691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	55.809	.21083	-.0030	.20111	.20503	.20440
Stddev	.207	.00004	.0176	.00038	.00013	.00032
%RSD	.37166	.02133	593.0	.18648	.06291	.15737
#1	55.956	.21079	-.0154	.20137	.20493	.20463
#2	55.663	.21086	.0095	.20084	.20512	.20417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-3-APDS Acquired: 12/16/2021 18:36:25 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.582**	**11.103**	**.20806**	**23.867**	**.23387**	**.21748**
Stddev	.042	.069	.00034	.060	.00071	.00020
%RSD	.39664	.61919	.16324	.25289	.30511	.09259
#1	10.611	11.152	.20782	23.825	.23337	.21763
#2	10.552	11.054	.20831	23.910	.23438	.21734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.456**	**.20129**	**.20846**	**13.26**	**.22046**	**.20125**
Stddev	.035	.00014	.00029	.00	.00339	.00219
%RSD	.20202	.07174	.13863	.0243	1.5387	1.0862
#1	17.481	.20140	.20866	13.26	.21807	.19971
#2	17.431	.20119	.20825	13.27	.22286	.20280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-3-APDS Acquired: 12/16/2021 18:36:25 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.214**	**.19569**	**.33043**	**.21127**	**.21492**	**.20747**
Stddev	.054	.00007	.00128	.00041	.00202	.00018
%RSD	.35738	.03492	.38611	.19438	.93833	.08603
#1	15.252	.19574	.33133	.21156	.21350	.20759
#2	15.175	.19564	.32953	.21098	.21635	.20734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21485**
Stddev	.00127
%RSD	.59199
#1	.21395
#2	.21575
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193436-D-3-APDS Acquired: 12/16/2021 18:36:25 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3641.3	2195.8	68945.	3471.4
Stddev	8.0	8.0	79.	2.9
%RSD	.22011	.36437	.11460	.08334
#1	3646.9	2201.5	68889.	3469.4
#2	3635.6	2190.2	69001.	3473.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.765%	95.048%	95.039%	98.339%
Range				

Sample Name: 480-193436-D-3-B MS Acquired: 12/16/2021 18:40:13 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05047	10.034	.20846	.24484	.40368	.21070
Stddev	.00036	.012	.00038	.00052	.00330	.00018
%RSD	.71035	.11852	.18388	.21131	.81655	.08338
#1	.05022	10.025	.20873	.24447	.40134	.21083
#2	.05073	10.042	.20819	.24520	.40601	.21058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	57.361	.20378	-.0049	.19452	.19887	.19624
Stddev	.171	.00001	.0010	.00005	.00205	.00093
%RSD	.29743	.00442	19.72	.02517	1.0286	.47291
#1	57.482	.20379	-.0042	.19449	.19742	.19559
#2	57.241	.20378	-.0056	.19456	.20031	.19690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-3-B MS Acquired: 12/16/2021 18:40:13 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.292**	**11.104**	**.20777**	**23.971**	**.22665**	**.21347**
Stddev	.003	.003	.00138	.095	.00081	.00023
%RSD	.02558	.02419	.66267	.39686	.35679	.10837
#1	10.290	11.106	.20680	23.903	.22607	.21331
#2	10.294	11.102	.20875	24.038	.22722	.21363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.750**	**.19442**	**.20148**	**13.37**	**.21372**	**.19813**
Stddev	.015	.00030	.00058	.01	.00104	.00027
%RSD	.08560	.15644	.28893	.0489	.48562	.13714
#1	17.760	.19464	.20107	13.37	.21299	.19794
#2	17.739	.19421	.20189	13.36	.21445	.19832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-3-B MS Acquired: 12/16/2021 18:40:13 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.514**	**.19251**	**.33499**	**.20417**	**.20805**	**.20066**
Stddev	.011	.00011	.00040	.00143	.00047	.00057
%RSD	.07373	.05531	.11937	.70021	.22472	.28288
#1	15.506	.19258	.33527	.20316	.20772	.20026
#2	15.522	.19243	.33471	.20518	.20838	.20106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20739**
Stddev	.00231
%RSD	1.1159
#1	.20575
#2	.20902
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193436-D-3-B MS Acquired: 12/16/2021 18:40:13 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3631.0	2188.9	68772.	3468.8
Stddev	2.8	2.7	435.	28.2
%RSD	.07742	.12540	.63227	.81342
#1	3632.9	2190.8	69080.	3448.8
#2	3629.0	2187.0	68465.	3488.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.511%	94.748%	94.801%	98.265%
Range				

Sample Name: 480-193436-D-3-C MSD Acquired: 12/16/2021 18:44:01 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05096	10.234	.21088	.24863	.40630	.21330
Stddev	.00020	.010	.00034	.00030	.00002	.00085
%RSD	.38510	.09785	.16128	.12174	.00416	.39968
#1	.05110	10.241	.21064	.24842	.40631	.21270
#2	.05082	10.227	.21113	.24885	.40629	.21391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	57.972	.20693	-.0058	.19694	.20056	.19987
Stddev	.262	.00030	.0195	.00038	.00005	.00097
%RSD	.45204	.14437	334.0	.19530	.02283	.48450
#1	57.787	.20714	-.0196	.19721	.20059	.20055
#2	58.158	.20672	.0079	.19667	.20053	.19919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-3-C MSD Acquired: 12/16/2021 18:44:01 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.344**	**11.218**	**.21188**	**24.286**	**.22899**	**.21547**
Stddev	.034	.037	.00005	.102	.00028	.00037
%RSD	.32871	.33173	.02147	.41797	.12345	.16986
#1	10.320	11.191	.21191	24.357	.22919	.21521
#2	10.368	11.244	.21184	24.214	.22879	.21572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.051**	**.19628**	**.20479**	**13.56**	**.21863**	**.19939**
Stddev	.029	.00020	.00119	.03	.00177	.00296
%RSD	.15873	.10132	.58141	.2195	.81140	1.4861
#1	18.031	.19642	.20395	13.54	.21738	.20149
#2	18.071	.19614	.20563	13.58	.21989	.19730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-3-C MSD Acquired: 12/16/2021 18:44:01 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.607	.19561	.34048	.20690	.20831	.20285
Stddev	.022	.00048	.00031	.00053	.00079	.00049
%RSD	.14394	.24643	.09058	.25628	.38145	.24168
#1	15.591	.19527	.34026	.20727	.20887	.20319
#2	15.623	.19595	.34070	.20652	.20775	.20250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20913
Stddev	.00118
%RSD	.56360
#1	.20996
#2	.20830
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193436-D-3-C MSD Acquired: 12/16/2021 18:44:01 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3620.2	2179.6	68828.	3444.8
Stddev	5.2	3.2	325.	19.7
%RSD	.14232	.14727	.47287	.57099
#1	3616.6	2177.3	68598.	3458.7
#2	3623.8	2181.9	69058.	3430.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.245%	94.345%	94.878%	97.585%
Range				

Sample Name: 480-193436-D-4-A Acquired: 12/16/2021 18:47:49 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.28734**	**.00011**	**.08330**	**1.0057**	**-.00005**
Stddev	.00051	.00483	.00143	.00008	.0021	.00006
%RSD	286.55	1.6821	1300.5	.10112	.20350	124.86
#1	.00018	.29076	.00112	.08336	1.0071	-.00009
#2	-.00054	.28392	-.00090	.08324	1.0042	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**123.75**	**.00006**	**.0022**	**.00007**	**.00035**	**.00105**
Stddev	.18	.00003	.0190	.00003	.00020	.00027
%RSD	.14177	55.332	874.0	47.776	57.490	25.924
#1	123.87	.00009	.0156	.00004	.00049	.00085
#2	123.62	.00004	-.0112	.00009	.00021	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-4-A Acquired: 12/16/2021 18:47:49 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12824	1.4769	.02063	26.859	.10840	-.00201
Stddev	.00386	.0197	.00130	.055	.00016	.00012
%RSD	3.0096	1.3366	6.2870	.20381	.14461	6.2034
#1	.12551	1.4630	.01972	26.898	.10851	-.00210
#2	.13096	1.4909	.02155	26.821	.10829	-.00192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.397	.00121	.00165	2.590	-.00011	-.00499
Stddev	.032	.00020	.00009	.013	.00029	.00150
%RSD	.20803	16.897	5.4092	.5042	261.97	29.987
#1	15.420	.00107	.00171	2.581	.00009	-.00393
#2	15.374	.00136	.00159	2.599	-.00031	-.00605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-4-A Acquired: 12/16/2021 18:47:49 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.5732	-.00015	.29642	.00387	.00126	.00037
Stddev	.0331	.00009	.00007	.00019	.00102	.00005
%RSD	.38670	62.645	.02307	4.8019	80.839	13.918
#1	8.5967	-.00022	.29647	.00400	.00054	.00041
#2	8.5498	-.00008	.29637	.00373	.00198	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00234
Stddev	.00037
%RSD	15.748
#1	.00208
#2	.00260
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193436-D-4-A Acquired: 12/16/2021 18:47:49 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3556.2	2121.2	67524.	3420.0
Stddev	7.8	6.4	93.	25.1
%RSD	.21882	.30229	.13758	.73415
#1	3561.7	2125.7	67459.	3402.3
#2	3550.7	2116.6	67590.	3437.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.668%	91.816%	93.081%	96.884%
Range				

Sample Name: 480-193436-D-5-A Acquired: 12/16/2021 18:51:48 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00023	.23252	-.00111	.01866	.56559	.00006
Stddev	.00012	.01235	.00142	.00000	.00289	.00004
%RSD	50.567	5.3120	127.97	.00588	.51009	57.337
#1	.00015	.24125	-.00212	.01866	.56763	.00009
#2	.00032	.22378	-.00011	.01866	.56355	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.134	.00020	-.0035	-.00009	.00050	.00071
Stddev	.069	.00005	.0007	.00012	.00002	.00040
%RSD	.16654	25.410	20.99	132.84	3.7528	56.679
#1	41.085	.00017	-.0030	-.00018	.00048	.00099
#2	41.182	.00024	-.0040	-.00001	.00051	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-5-A Acquired: 12/16/2021 18:51:48 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12196	.81664	.00773	11.769	.02431	-.00319
Stddev	.00325	.01740	.00075	.040	.00011	.00013
%RSD	2.6672	2.1313	9.7543	.33656	.43342	4.0706
#1	.12426	.80434	.00720	11.741	.02424	-.00310
#2	.11966	.82895	.00827	11.797	.02438	-.00329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.4592	-.00008	.00095	4.669	-.00137	-.00253
Stddev	.0058	.00016	.00021	.018	.00123	.00146
%RSD	.06809	212.25	22.228	.3929	90.132	57.822
#1	8.4633	-.00019	.00080	4.682	-.00050	-.00149
#2	8.4551	.00004	.00110	4.656	-.00224	-.00356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-5-A Acquired: 12/16/2021 18:51:48 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.8238**	**-.00020**	**.17667**	**.00265**	**.00069**	**.00016**
Stddev	.0008	.00043	.00013	.00005	.00022	.00016
%RSD	.00987	221.97	.07120	2.0140	32.267	96.260
#1	7.8244	.00011	.17658	.00261	.00084	.00027
#2	7.8233	-.00050	.17676	.00269	.00053	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00055**
Stddev	.00057
%RSD	104.33
#1	.00014
#2	.00095
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193436-D-5-A Acquired: 12/16/2021 18:51:48 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3758.7	2194.7	69464.	3481.7
Stddev	1.6	1.9	186.	14.9
%RSD	.04364	.08799	.26709	.42893
#1	3759.8	2193.3	69333.	3492.2
#2	3757.5	2196.0	69595.	3471.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.659%	94.997%	95.755%	98.630%
Range				

Sample Name: CCV-6817081 Acquired: 12/16/2021 18:55:48 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0081	49.207	1.0087	1.0362	.99264	1.0023	50.347	1.0062
Stddev	.0018	.275	.0062	.0045	.00364	.0032	.071	.0017
%RSD	.17643	.55826	.61432	.43621	.36717	.32327	.14021	.17041
#1	1.0094	49.013	1.0043	1.0330	.99006	1.0000	50.297	1.0049
#2	1.0069	49.402	1.0131	1.0394	.99522	1.0046	50.396	1.0074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.033	.99493	1.0083	.99247	50.085	49.882	.99254	50.075
Stddev	.018	.00184	.0020	.00013	.057	.154	.00022	.014
%RSD	1.769	.18461	.19998	.01265	.11395	.30788	.02228	.02889
#1	1.046	.99622	1.0097	.99238	50.125	49.773	.99270	50.085
#2	1.020	.99363	1.0069	.99256	50.044	49.990	.99239	50.065
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0111	1.0225	49.241	.99517	1.0020	25.01	.99814	.99608
Stddev	.0006	.0071	.152	.00107	.0001	.10	.00069	.00613
%RSD	.06472	.69798	.30964	.10773	.00473	.3990	.06869	.61492
#1	1.0115	1.0175	49.134	.99441	1.0020	24.94	.99765	.99174
#2	1.0106	1.0276	49.349	.99593	1.0021	25.08	.99862	1.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/16/2021 18:55:48 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.148**	**.99478**	**.99067**	**1.0043**	**1.0060**	**1.0053**	**1.0393**
Stddev	.069	.00197	.00360	.0005	.0016	.0001	.0010
%RSD	.68239	.19770	.36365	.04543	.15896	.01090	.09410
#1	10.099	.99617	.98813	1.0046	1.0072	1.0053	1.0400
#2	10.197	.99339	.99322	1.0040	1.0049	1.0052	1.0386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3478.2**	**2203.3**	**67534.**	**3428.6**
Stddev	6.3	1.2	92.	1.8
%RSD	.18036	.05294	.13569	.05230
#1	3473.8	2204.1	67470.	3429.8
#2	3482.7	2202.5	67599.	3427.3

Sample Name: CCB-6819143 Acquired: 12/16/2021 18:59:30 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00031	-.01507	.00041	.00096	.00009	.00011	-.00015	.00005
Stddev	.00010	.02186	.00087	.00018	.00000	.00009	.00097	.00000
%RSD	30.392	145.03	209.82	18.248	.67827	75.306	665.90	1.9637
#1	.00038	.00038	.00102	.00109	.00009	.00017	.00054	.00005
#2	.00025	-.03053	-.00020	.00084	.00009	.00005	-.00083	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0158	.00005	-.00011	.00039	.00837	-.00753	-.00171	.00150
Stddev	.0107	.00003	.00011	.00000	.00598	.02556	.00017	.00097
%RSD	67.55	49.501	98.907	.53127	71.461	339.59	9.7780	64.629
#1	.0234	.00003	-.00003	.00039	.01260	-.02560	-.00183	.00218
#2	.0083	.00007	-.00019	.00040	.00414	.01055	-.00159	.00081
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.00387	.02967	-.00022	-.00011	-.0040	-.00039	.00615
Stddev	.00001	.00120	.00008	.00018	.00005	.0001	.00027	.00170
%RSD	12.902	31.018	.26152	81.597	44.468	2.076	68.447	27.651
#1	.00007	.00472	.02961	-.00009	-.00007	-.0040	-.00020	.00735
#2	.00009	.00302	.02972	-.00034	-.00014	-.0041	-.00058	.00494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6819143 Acquired: 12/16/2021 18:59:30 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01290	.00034	.00004	.00065	.00063	.00010	.00011
Stddev	.00748	.00001	.00001	.00017	.00020	.00007	.00049
%RSD	57.988	3.0557	27.044	26.189	30.902	70.673	446.88
#1	.01819	.00034	.00005	.00077	.00077	.00005	.00045
#2	.00761	.00033	.00004	.00053	.00050	.00015	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4034.4	2282.3	72087.	3453.0
Stddev	3.4	4.8	98.	8.7
%RSD	.08549	.20813	.13551	.25076
#1	4036.8	2285.6	72157.	3459.2
#2	4031.9	2278.9	72018.	3446.9

Sample Name: CCVL-6819272 Acquired: 12/16/2021 19:03:28 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00559	.19101	.01319	.02033	.00214	.00208	.52090	.00197
Stddev	.00001	.03640	.00161	.00017	.00001	.00005	.00098	.00003
%RSD	.26689	19.055	12.196	.84725	.45106	2.3959	.18748	1.5738
#1	.00560	.16527	.01432	.02021	.00213	.00205	.52159	.00200
#2	.00558	.21675	.01205	.02045	.00214	.00212	.52021	.00195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0066	.00376	.00378	.01022	.05397	.45954	.02755	.19596
Stddev	.0121	.00005	.00002	.00048	.00088	.03375	.00000	.00081
%RSD	182.9	1.4257	.43070	4.6649	1.6262	7.3438	.00595	.41254
#1	-.0152	.00373	.00379	.01056	.05335	.48341	.02755	.19539
#2	.0019	.00380	.00377	.00988	.05459	.43568	.02755	.19653
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00319	.00897	.99639	.00932	.00977	.1822	.01917	.02277
Stddev	.00002	.00008	.00776	.00011	.00002	.0022	.00173	.00012
%RSD	.55975	.83775	.77881	1.2226	.20449	1.194	9.0361	.50939
#1	.00318	.00902	.99090	.00940	.00976	.1837	.02039	.02285
#2	.00321	.00892	1.0019	.00924	.00978	.1806	.01794	.02269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6819272 Acquired: 12/16/2021 19:03:28 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48417	.00941	.00499	.00500	.02024	.00483	.01095
Stddev	.01193	.00075	.00001	.00013	.00006	.00004	.00009
%RSD	2.4643	7.9838	.27211	2.6521	.28223	.79286	.78310
#1	.47574	.00888	.00498	.00510	.02029	.00480	.01101
#2	.49261	.00995	.00500	.00491	.02020	.00486	.01089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4023.5	2265.5	72292.	3438.4
Stddev	2.4	4.7	125.	18.2
%RSD	.05881	.20689	.17269	.52950
#1	4025.2	2268.8	72381.	3425.5
#2	4021.9	2262.2	72204.	3451.3

Sample Name: 480-193436-D-6-A Acquired: 12/16/2021 19:07:23 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	21.738	.01132	.01988	.41935	.00092
Stddev	.00033	.081	.00022	.00022	.00500	.00005
%RSD	167.76	.37094	1.9681	1.1051	1.1913	5.9587
#1	.00043	21.795	.01116	.02003	.42288	.00088
#2	-.00004	21.681	.01148	.01972	.41581	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	82.493	.00062	.0556	.01811	.03011	.02302
Stddev	.005	.00006	.0098	.00001	.00021	.00009
%RSD	.00593	10.283	17.66	.03124	.69748	.41103
#1	82.496	.00058	.0487	.01811	.03026	.02295
#2	82.489	.00067	.0626	.01811	.02997	.02308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-6-A Acquired: 12/16/2021 19:07:23 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.755**	**6.9005**	**.03570**	**13.775**	**.83478**	**-.00263**
Stddev	.011	.0561	.00064	.018	.00096	.00006
%RSD	.03569	.81347	1.8017	.12950	.11474	2.3303
#1	29.747	6.9402	.03524	13.787	.83410	-.00267
#2	29.762	6.8608	.03615	13.762	.83545	-.00258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1511**	**.03154**	**.01008**	**2.166**	**-.00086**	**-.00090**
Stddev	.0093	.00003	.00114	.007	.00085	.00130
%RSD	.29419	.10017	11.274	.3268	98.501	143.68
#1	3.1577	.03157	.01088	2.171	-.00026	.00001
#2	3.1446	.03152	.00928	2.161	-.00146	-.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-6-A Acquired: 12/16/2021 19:07:23 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.643**	**.00015**	**.15850**	**.22371**	**.00107**	**.03055**
Stddev	.199	.00069	.00099	.00834	.00032	.00008
%RSD	.69589	463.14	.62319	3.7282	30.038	.26366
#1	28.784	-.00034	.15920	.22960	.00084	.03050
#2	28.502	.00064	.15780	.21781	.00130	.03061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.05982**
Stddev	.00102
%RSD	1.7109
#1	.05910
#2	.06055
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193436-D-6-A Acquired: 12/16/2021 19:07:23 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3631.8	2188.5	69452.	3508.6
Stddev	.2	2.1	84.	6.7
%RSD	.00558	.09543	.12033	.19064
#1	3631.9	2190.0	69392.	3513.3
#2	3631.7	2187.0	69511.	3503.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.531%	94.731%	95.738%	99.392%
Range				

Sample Name: 480-193436-D-7-O Acquired: 12/16/2021 19:11:19 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	1.1888	-.00023	.02021	.33028	.00010
Stddev	.00008	.0052	.00014	.00044	.00003	.00009
%RSD	47.709	.43956	61.427	2.1906	.00991	88.273
#1	.00023	1.1851	-.00013	.02053	.33026	.00004
#2	.00011	1.1925	-.00033	.01990	.33031	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.538	.00046	.0024	.00000	.00091	.00123
Stddev	.232	.00001	.0055	.00002	.00011	.00021
%RSD	.60117	1.3713	227.6	436.15	11.623	17.128
#1	38.374	.00046	.0063	-.00001	.00083	.00108
#2	38.702	.00046	-.0015	.00002	.00098	.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-7-O Acquired: 12/16/2021 19:11:19 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.57733	1.0013	.00882	9.9167	.23863	-.00341
Stddev	.00745	.0155	.00015	.0163	.00028	.00004
%RSD	1.2900	1.5494	1.6754	.16435	.11783	1.2456
#1	.57207	1.0123	.00872	9.9282	.23883	-.00344
#2	.58260	.99034	.00893	9.9051	.23843	-.00338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.189	.00075	.00208	6.457	.00058	-.00280
Stddev	.049	.00000	.00022	.007	.00006	.00187
%RSD	.34387	.15663	10.524	.1097	10.886	66.808
#1	14.154	.00075	.00223	6.462	.00054	-.00412
#2	14.223	.00075	.00192	6.452	.00063	-.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-7-O Acquired: 12/16/2021 19:11:19 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.6207	-.00016	.14787	.01339	.00070	.00096
Stddev	.0818	.00054	.00058	.00156	.00077	.00013
%RSD	1.2360	325.63	.39026	11.679	110.65	13.381
#1	6.5629	.00021	.14747	.01228	.00124	.00087
#2	6.6786	-.00054	.14828	.01449	.00015	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01301
Stddev	.00024
%RSD	1.8429
#1	.01284
#2	.01318
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193436-D-7-O Acquired: 12/16/2021 19:11:19 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3751.4	2184.6	69704.	3466.1
Stddev	9.8	4.3	299.	9.5
%RSD	.26206	.19715	.42918	.27355
#1	3758.4	2187.7	69492.	3472.8
#2	3744.5	2181.6	69915.	3459.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.480%	94.562%	96.085%	98.189%
Range				

Sample Name: 480-193436-D-8-A Acquired: 12/16/2021 19:15:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.21997**	**.00068**	**.12349**	**.18724**	**.00002**
Stddev	.00001	.01239	.00346	.00061	.00003	.00010
%RSD	4.1568	5.6339	505.42	.49764	.01650	492.56
#1	-.00024	.22874	-.00176	.12306	.18727	.00009
#2	-.00026	.21121	.00313	.12393	.18722	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**75.810**	**.00011**	**.0026**	**.00064**	**.00087**	**.00150**
Stddev	.126	.00015	.0122	.00003	.00018	.00010
%RSD	.16684	127.95	468.7	5.3123	20.363	6.4665
#1	75.721	.00022	.0112	.00062	.00075	.00157
#2	75.900	.00001	-.0060	.00067	.00100	.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-8-A Acquired: 12/16/2021 19:15:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.32041	2.2008	.00233	14.989	2.3191	-.00333
Stddev	.00099	.0378	.00019	.026	.0019	.00001
%RSD	.30883	1.7191	8.3075	.17024	.08282	.22466
#1	.32111	2.2276	.00247	14.971	2.3177	-.00333
#2	.31971	2.1741	.00219	15.007	2.3204	-.00334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.762	.00286	.00103	1.993	-.00095	-.00465
Stddev	.023	.00008	.00133	.014	.00030	.00016
%RSD	.11037	2.8293	129.26	.6920	31.444	3.4688
#1	20.746	.00292	.00197	2.003	-.00117	-.00477
#2	20.778	.00281	.00009	1.983	-.00074	-.00454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193436-D-8-A Acquired: 12/16/2021 19:15:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.4507	.00010	.19644	.00451	.00152	.00041
Stddev	.0205	.00054	.00015	.00111	.00040	.00029
%RSD	.59314	564.98	.07574	24.682	26.326	71.152
#1	3.4362	-.00028	.19654	.00530	.00181	.00062
#2	3.4652	.00048	.19633	.00372	.00124	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00933
Stddev	.00043
%RSD	4.6495
#1	.00964
#2	.00903
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193436-D-8-A Acquired: 12/16/2021 19:15:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3637.3	2159.8	68934.	3476.5
Stddev	3.3	2.7	190.	.6
%RSD	.08941	.12435	.27589	.01800
#1	3639.6	2157.9	69069.	3476.9
#2	3635.0	2161.7	68800.	3476.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.668%	93.487%	95.024%	98.483%
Range				

Sample Name: 480-193422-E-1-A Acquired: 12/16/2021 19:19:11 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.02397	-.00337	.02142	.11495	.00003
Stddev	.00000	.02246	.00048	.00026	.00008	.00002
%RSD	4.9539	93.714	14.284	1.2057	.06564	66.631
#1	.00003	.00809	-.00371	.02161	.11501	.00002
#2	.00003	.03985	-.00303	.02124	.11490	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	473.41	.00016	.0250	-.00016	.00054	.00203
Stddev	5.69	.00003	.0080	.00001	.00047	.00014
%RSD	1.2012	20.938	31.92	8.9269	86.887	6.9894
#1	477.43	.00014	.0193	-.00015	.00088	.00213
#2	469.38	.00019	.0306	-.00017	.00021	.00193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-1-A Acquired: 12/16/2021 19:19:11 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00423	16.497	.06436	38.855	.03679	-.00304
Stddev	.00341	.091	.00040	.083	.00017	.00003
%RSD	80.587	.55014	.61630	.21452	.45787	.96812
#1	.00665	16.561	.06465	38.914	.03691	-.00306
#2	.00182	16.433	.06408	38.796	.03667	-.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	160.55	-.00003	-.00017	F 375.6	-.00086	-.01176
Stddev	1.03	.00018	.00131	.2	.00011	.00655
%RSD	.64463	598.92	791.70	.0487	12.593	55.676
#1	161.28	.00009	-.00109	375.5	-.00094	-.00713
#2	159.82	-.00015	.00076	375.8	-.00079	-.01638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193422-E-1-A Acquired: 12/16/2021 19:19:11 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.8224**	**-.00070**	**3.4477**	**.00247**	**.00132**	**.00010**
Stddev	.0168	.00014	.0261	.00005	.00409	.00070
%RSD	.59407	20.310	.75679	1.8671	310.22	699.80
#1	2.8342	-.00081	3.4661	.00244	.00421	-.00040
#2	2.8105	-.00060	3.4292	.00251	-.00157	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00086**
Stddev	.00077
%RSD	89.988
#1	.00031
#2	.00140
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193422-E-1-A Acquired: 12/16/2021 19:19:11 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3165.4	1994.3	62585.	3355.9
Stddev	2.4	1.9	181.	38.8
%RSD	.07690	.09483	.28932	1.1563
#1	3167.1	1995.7	62713.	3328.5
#2	3163.7	1993.0	62457.	3383.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.034%	86.327%	86.272%	95.068%
Range				

Sample Name: 480-193422-E-2-A Acquired: 12/16/2021 19:23:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.19772**	**-.00547**	**.03480**	**.06983**	**-.00001**
Stddev	.00016	.02635	.00224	.00001	.00020	.00007
%RSD	68.131	13.326	40.978	.03679	.29204	470.77
#1	-.00035	.21635	-.00388	.03481	.06997	.00003
#2	-.00012	.17909	-.00705	.03479	.06969	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**404.31**	**.00010**	**.0295**	**.00018**	**.00297**	**.00181**
Stddev	4.39	.00001	.0132	.00017	.00007	.00033
%RSD	1.0858	10.246	44.65	92.035	2.3063	18.155
#1	401.20	.00009	.0202	.00006	.00302	.00157
#2	407.41	.00011	.0388	.00030	.00293	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-2-A Acquired: 12/16/2021 19:23:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1284	6.4802	.02076	62.358	.04800	-.00317
Stddev	.0027	.0275	.00030	.182	.00008	.00021
%RSD	.23907	.42411	1.4385	.29238	.15666	6.7159
#1	1.1303	6.4608	.02055	62.229	.04794	-.00332
#2	1.1265	6.4997	.02097	62.487	.04805	-.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	94.296	.00084	.00175	F 323.9	-.00072	-.00465
Stddev	.328	.00002	.00067	.3	.00029	.00166
%RSD	.34832	2.4243	38.013	.0892	39.710	35.671
#1	94.064	.00085	.00128	324.1	-.00052	-.00348
#2	94.528	.00082	.00222	323.7	-.00093	-.00582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193422-E-2-A Acquired: 12/16/2021 19:23:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.7541	.00008	2.8904	.00794	.00151	.00106
Stddev	.0699	.00028	.0148	.00011	.00062	.00013
%RSD	.90100	334.40	.51307	1.3866	40.987	12.709
#1	7.7047	.00028	2.8799	.00801	.00107	.00096
#2	7.8035	-.00011	2.9009	.00786	.00195	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00915
Stddev	.00008
%RSD	.90282
#1	.00921
#2	.00909
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193422-E-2-A Acquired: 12/16/2021 19:23:14 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3231.4	2004.0	62969.	3311.2
Stddev	6.4	4.6	20.	13.0
%RSD	.19727	.23006	.03165	.39320
#1	3235.9	2007.3	62955.	3320.4
#2	3226.9	2000.8	62983.	3302.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.660%	86.746%	86.802%	93.801%
Range				

Sample Name: 480-193422-E-3-A Acquired: 12/16/2021 19:27:12 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	.27904	.00929	.02841	.61634	-.00007
Stddev	.00051	.00386	.00309	.00037	.00046	.00003
%RSD	154.00	1.3833	33.236	1.3124	.07477	37.904
#1	.00069	.27631	.01147	.02814	.61601	-.00009
#2	-.00003	.28177	.00710	.02867	.61666	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	830.26	.00007	.0106	.00026	-.00010	.00344
Stddev	5.13	.00002	.0485	.00001	.00049	.00024
%RSD	.61768	35.898	458.1	3.3738	472.34	7.0996
#1	826.64	.00008	.0449	.00027	-.00045	.00361
#2	833.89	.00005	-.0237	.00026	.00024	.00326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-3-A Acquired: 12/16/2021 19:27:12 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00872	16.528	.05374	.21149	.00013	.03715
Stddev	.00457	.051	.00068	.00261	.00008	.00022
%RSD	52.423	.31083	1.2689	1.2346	58.136	.58805
#1	.00549	16.564	.05325	.21333	.00008	.03730
#2	.01195	16.492	.05422	.20964	.00019	.03699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.082	.01645	-.00067	43.13	.00102	-.00085
Stddev	.303	.00006	.00056	.10	.00142	.00377
%RSD	.31175	.39143	84.201	.2230	138.77	441.57
#1	97.296	.01640	-.00027	43.20	.00203	.00181
#2	96.868	.01649	-.00106	43.06	.00002	-.00352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-3-A Acquired: 12/16/2021 19:27:12 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.34578	.00003	3.5172	.00313	-.00000	.00235
Stddev	.00306	.00013	.0136	.00015	.00142	.00001
%RSD	.88431	463.89	.38558	4.6892	108780.	.42176
#1	.34362	.00012	3.5268	.00323	.00100	.00236
#2	.34794	-.00006	3.5076	.00303	-.00100	.00234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	-.00028
Stddev	.00063
%RSD	226.30
#1	-.00072
#2	.00017
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193422-E-3-A Acquired: 12/16/2021 19:27:12 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3072.0	1935.2	61046.	3298.6
Stddev	5.5	.8	26.	4.0
%RSD	.17801	.04057	.04334	.12032
#1	3075.9	1934.7	61028.	3295.8
#2	3068.2	1935.8	61065.	3301.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.732%	83.768%	84.151%	93.444%
Range				

Sample Name: 480-193422-E-4-A Acquired: 12/16/2021 19:31:16 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.22814**	**-.00263**	**.01660**	**.82295**	**-.00002**
Stddev	.00027	.00911	.00036	.00004	.00345	.00001
%RSD	60.488	3.9917	13.588	.23646	.41977	36.175
#1	-.00064	.22171	-.00238	.01657	.82050	-.00003
#2	-.00026	.23458	-.00289	.01662	.82539	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**764.57**	**.00007**	**.0234**	**-.00017**	**.00042**	**.00294**
Stddev	.90	.00016	.0087	.00004	.00040	.00027
%RSD	.11773	234.05	37.25	25.084	96.494	9.2423
#1	763.93	-.00004	.0295	-.00020	.00013	.00275
#2	765.21	.00018	.0172	-.00014	.00070	.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-4-A Acquired: 12/16/2021 19:31:16 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00733	17.709	.10666	.00604	.00013	.02851
Stddev	.00587	.060	.00023	.00066	.00007	.00029
%RSD	80.128	.33738	.21948	10.986	51.222	1.0298
#1	.00317	17.667	.10682	.00651	.00018	.02872
#2	.01148	17.751	.10649	.00557	.00009	.02830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	107.35	.00172	-.00081	20.72	-.00331	-.00218
Stddev	.33	.00027	.00145	.00	.00053	.00473
%RSD	.30957	15.436	178.51	.0206	16.110	216.85
#1	107.11	.00191	.00021	20.72	-.00293	-.00553
#2	107.58	.00153	-.00184	20.72	-.00369	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-4-A Acquired: 12/16/2021 19:31:16 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19695	.00044	5.4697	.00254	.00001	.00080
Stddev	.01147	.00026	.0372	.00016	.00242	.00010
%RSD	5.8236	58.920	.67944	6.3527	43296.	12.725
#1	.20506	.00026	5.4434	.00265	-.00171	.00073
#2	.18884	.00063	5.4960	.00242	.00172	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01126
Stddev	.00032
%RSD	2.8504
#1	.01103
#2	.01148
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193422-E-4-A Acquired: 12/16/2021 19:31:16 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3087.8	1950.5	61528.	3315.7
Stddev	3.1	1.1	95.	12.6
%RSD	.10003	.05663	.15405	.38067
#1	3090.0	1951.3	61461.	3324.7
#2	3085.6	1949.7	61595.	3306.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.121%	84.430%	84.815%	93.929%
Range				

Sample Name: 480-193422-E-5-A Acquired: 12/16/2021 19:35:26 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00043	.22852	.00303	.12553	.19454	-.00006
Stddev	.00023	.00109	.00160	.00019	.00018	.00011
%RSD	53.383	.47646	52.978	.14944	.09265	190.65
#1	.00059	.22929	.00189	.12566	.19467	.00002
#2	.00027	.22775	.00416	.12539	.19441	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	196.99	.00004	.0375	-.00019	.00056	.00136
Stddev	.43	.00005	.0009	.00007	.00038	.00019
%RSD	.21776	124.27	2.336	36.397	68.278	13.730
#1	197.29	.00007	.0381	-.00014	.00029	.00149
#2	196.68	.00000	.0369	-.00024	.00084	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-5-A Acquired: 12/16/2021 19:35:26 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01099	38.886	.64280	-.00274	.00043	.50753
Stddev	.00554	.032	.00085	.00495	.00003	.00017
%RSD	50.446	.08327	.13196	180.54	6.0501	.03262
#1	.00707	38.863	.64220	-.00625	.00041	.50765
#2	.01491	38.909	.64340	.00076	.00044	.50741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1616.6	.00930	.00541	30.67	-.00043	-.01082
Stddev	2.1	.00037	.00118	.03	.00163	.00242
%RSD	.13081	3.9623	21.742	.0836	383.53	22.395
#1	1615.1	.00904	.00458	30.69	-.00158	-.00910
#2	1618.1	.00956	.00625	30.66	.00073	-.01253
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-1.0000					

Sample Name: 480-193422-E-5-A Acquired: 12/16/2021 19:35:26 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48719**	**.00082**	**4.0405**	**.00156**	**.00281**	**.01482**
Stddev	.00302	.00070	.0023	.00008	.00207	.00013
%RSD	.62025	85.042	.05621	5.3130	73.783	.85811
#1	.48505	.00131	4.0389	.00162	.00427	.01491
#2	.48933	.00033	4.0421	.00150	.00134	.01473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.13389**
Stddev	.00187
%RSD	1.3947
#1	.13257
#2	.13521
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193422-E-5-A Acquired: 12/16/2021 19:35:26 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2846.9**	**1896.0**	**57679.**	**3288.2**
Stddev	.3	1.6	44.	1.2
%RSD	.01103	.08696	.07554	.03729
#1	2846.7	1897.2	57710.	3289.1
#2	2847.2	1894.9	57649.	3287.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.183%	82.072%	79.510%	93.149%
Range				

Sample Name: 480-193422-E-6-A Acquired: 12/16/2021 19:39:30 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.08163**	**1.2367**	**.16239**	**3.7000**	**-.00003**
Stddev	.00022	.01136	.0036	.00114	.0127	.00006
%RSD	78.698	13.913	.28846	.70190	.34270	181.26
#1	-.00013	.07360	1.2392	.16159	3.6911	.00001
#2	-.00044	.08966	1.2342	.16320	3.7090	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2321.7**	**-.00011**	**.0213**	**.00931**	**.02316**	**.04013**
Stddev	10.3	.00010	.0141	.00006	.00004	.00023
%RSD	.44372	97.289	66.11	.59187	.16541	.58133
#1	2329.0	-.00018	.0313	.00935	.02319	.03996
#2	2314.4	-.00003	.0114	.00927	.02313	.04029
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-.50000					

Sample Name: 480-193422-E-6-A Acquired: 12/16/2021 19:39:30 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.32150**	**73.860**	**.45942**	**.00970**	**.00264**	**.11182**
Stddev	.00722	.270	.00240	.00564	.00002	.00072
%RSD	2.2467	.36536	.52206	58.094	.86235	.64650
#1	.31639	73.669	.45773	.00572	.00265	.11131
#2	.32661	74.051	.46112	.01369	.00262	.11233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2365.8**	**.02802**	**-.00814**	F **90.85**	**.00028**	**.01394**
Stddev	10.5	.00038	.00166	.05	.00058	.00742
%RSD	.44183	1.3431	20.346	.0571	208.56	53.243
#1	2358.5	.02776	-.00697	90.81	.00068	.01918
#2	2373.2	.02829	-.00931	90.89	-.00013	.00869
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit	900.00			90.00		
Low Limit	-1.0000			-.2000		

Sample Name: 480-193422-E-6-A Acquired: 12/16/2021 19:39:30 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09710	.00238	F 18.164	.01059	.00010	.00009
Stddev	.00498	.00143	.075	.00057	.00116	.00035
%RSD	5.1261	60.294	.41552	5.4181	1164.0	400.03
#1	.10062	.00136	18.111	.01099	-.00072	.00033
#2	.09358	.00339	18.218	.01018	.00092	-.00016
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000			
Low Limit			-.00500			

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.18470
Stddev	.00079
%RSD	.42774
#1	.18414
#2	.18526
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193422-E-6-A Acquired: 12/16/2021 19:39:30 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2401.0	1661.2	51389.	3102.1
Stddev	.5	1.3	14.	16.1
%RSD	.02118	.07670	.02751	.51888
#1	2400.7	1662.1	51379.	3113.5
#2	2401.4	1660.3	51399.	3090.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	59.190%	71.908%	70.839%	87.877%
Range				

Sample Name: CCV-6817081 Acquired: 12/16/2021 19:43:43 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0113	49.073	.98957	1.0302	.98829	1.0011	50.177	.99891
Stddev	.0004	.365	.00894	.0011	.00345	.0083	.370	.00264
%RSD	.04166	.74420	.90328	.10711	.34913	.83069	.73696	.26438
#1	1.0116	48.815	.99589	1.0310	.98586	.99519	49.915	1.0008
#2	1.0110	49.332	.98325	1.0294	.99073	1.0070	50.438	.99704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.046	.99295	1.0097	.99710	49.943	49.947	.99010	50.215
Stddev	.000	.00211	.0020	.00257	.203	.224	.00184	.022
%RSD	.0186	.21254	.20155	.25745	.40714	.44829	.18606	.04376
#1	1.046	.99445	1.0082	.99891	49.799	49.789	.98880	50.199
#2	1.046	.99146	1.0111	.99528	50.087	50.106	.99140	50.230
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0176	1.0128	49.037	.99810	.99718	24.70	.99328	.99055
Stddev	.0006	.0005	.258	.00009	.00407	.08	.00420	.00113
%RSD	.06354	.05294	.52629	.00935	.40860	.3214	.42327	.11363
#1	1.0180	1.0132	48.855	.99804	1.0001	24.76	.99625	.98975
#2	1.0171	1.0124	49.220	.99817	.99430	24.65	.99031	.99134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/16/2021 19:43:43 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.9809	.99070	.99087	1.0092	1.0021	1.0083	1.0403
Stddev	.0819	.00190	.00293	.0012	.0037	.0004	.0009
%RSD	.82107	.19185	.29521	.11481	.37343	.03554	.08385
#1	9.9230	.99204	.98880	1.0100	1.0047	1.0080	1.0397
#2	10.039	.98936	.99294	1.0083	.99943	1.0085	1.0409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3472.0	2212.2	67301.	3420.1
Stddev	3.7	4.4	150.	17.6
%RSD	.10700	.19978	.22267	.51341
#1	3469.4	2209.0	67195.	3432.5
#2	3474.7	2215.3	67407.	3407.7

Sample Name: CCB-6819143 Acquired: 12/16/2021 19:47:25 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.01176**	**.00125**	**.00020**	**.00008**	**.00004**	**.00887**	**-.00000**
Stddev	.00010	.01672	.00050	.00010	.00001	.00005	.00348	.00001
%RSD	28.802	142.18	40.344	50.034	11.639	117.77	39.297	493.91
#1	-.00043	-.00006	.00089	.00013	.00007	.00008	.01133	.00001
#2	-.00029	.02358	.00161	.00027	.00008	.00001	.00640	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0182**	**-.00003**	**-.00026**	**.00049**	**.00350**	**.01580**	**-.00189**	**.00010**
Stddev	.0015	.00012	.00007	.00023	.00854	.00024	.00037	.00013
%RSD	8.456	432.62	25.273	47.138	244.41	1.4965	19.421	124.75
#1	-.0171	.00006	-.00021	.00065	-.00255	.01563	-.00215	.00001
#2	-.0193	-.00011	-.00031	.00033	.00954	.01596	-.00163	.00020
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00425**	**.09774**	**.00005**	**.00069**	**.0067**	**-.00016**	**.00384**
Stddev	.00001	.00101	.00675	.00004	.00022	.0010	.00078	.00159
%RSD	20.602	23.816	6.9031	80.787	31.493	15.75	490.73	41.434
#1	.00004	.00497	.09297	.00008	.00084	.0074	-.00071	.00272
#2	.00003	.00354	.10251	.00002	.00053	.0059	.00039	.00497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6819143 Acquired: 12/16/2021 19:47:25 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00365	.00019	.00007	.00055	.00031	-.00002	.00016
Stddev	.00658	.00022	.00007	.00027	.00016	.00016	.00029
%RSD	180.05	115.60	87.747	48.668	51.879	737.51	178.42
#1	.00830	.00003	.00012	.00074	.00020	.00009	-.00004
#2	-.00100	.00034	.00003	.00036	.00043	-.00013	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4047.4	2294.3	71912.	3411.7
Stddev	5.2	8.0	131.	27.2
%RSD	.12938	.34847	.18275	.79871
#1	4051.1	2300.0	71819.	3430.9
#2	4043.7	2288.6	72005.	3392.4

Sample Name: CCVL-6819272 Acquired: 12/16/2021 19:51:22 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00572	.21007	.01224	.01937	.00216	.00202	.52300	.00205
Stddev	.00047	.00123	.00207	.00017	.00000	.00003	.00121	.00001
%RSD	8.2941	.58473	16.941	.88579	.21598	1.6867	.23198	.71356
#1	.00539	.21094	.01077	.01925	.00216	.00200	.52214	.00206
#2	.00606	.20920	.01371	.01949	.00215	.00205	.52386	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0117	.00358	.00379	.01019	.05405	.46580	.02688	.19578
Stddev	.0235	.00008	.00020	.00000	.00152	.00386	.00124	.00055
%RSD	200.6	2.2715	5.3878	.02038	2.8088	.82841	4.5975	.28194
#1	-.0284	.00364	.00365	.01019	.05298	.46853	.02776	.19539
#2	.0049	.00353	.00394	.01019	.05513	.46307	.02601	.19617
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00325	.00899	1.0602	.00943	.00980	.1888	.02053	.02269
Stddev	.00004	.00007	.0042	.00006	.00012	.0020	.00028	.00156
%RSD	1.1903	.76570	.39939	.65499	1.2443	1.083	1.3415	6.8924
#1	.00323	.00904	1.0572	.00939	.00971	.1873	.02072	.02380
#2	.00328	.00895	1.0632	.00947	.00988	.1902	.02033	.02159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6819272 Acquired: 12/16/2021 19:51:22 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48259	.00955	.00509	.00496	.01998	.00506	.01091
Stddev	.00191	.00060	.00010	.00020	.00003	.00015	.00048
%RSD	.39564	6.3113	1.9629	4.0399	.15921	2.9326	4.4390
#1	.48394	.00912	.00502	.00482	.02000	.00516	.01057
#2	.48124	.00997	.00517	.00511	.01995	.00495	.01125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4029.8	2273.0	72158.	3415.5
Stddev	6.0	3.8	29.	6.5
%RSD	.14839	.16800	.03999	.18938
#1	4025.5	2270.3	72138.	3411.0
#2	4034.0	2275.7	72179.	3420.1

Sample Name: 480-193422-E-7-A Acquired: 12/16/2021 19:55:18 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	.03911	-.00249	.04438	.04357	.00003
Stddev	.00020	.00350	.00271	.00025	.00034	.00001
%RSD	62.470	8.9575	108.94	.56057	.78213	28.151
#1	.00047	.04159	-.00440	.04456	.04381	.00002
#2	.00018	.03663	-.00057	.04421	.04333	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	376.78	.00016	.0181	-.00004	.00022	.00142
Stddev	1.67	.00012	.0375	.00002	.00013	.00007
%RSD	.44404	75.704	207.6	52.119	57.350	4.8408
#1	377.96	.00025	.0446	-.00006	.00031	.00147
#2	375.59	.00008	-.0085	-.00003	.00013	.00137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-7-A Acquired: 12/16/2021 19:55:18 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01134	19.209	.07377	50.719	.00447	-.00094
Stddev	.00103	.073	.00038	.028	.00001	.00018
%RSD	9.0672	.37982	.51491	.05468	.27638	19.193
#1	.01061	19.261	.07350	50.738	.00446	-.00107
#2	.01206	19.158	.07404	50.699	.00448	-.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	187.35	.00030	.00058	F 401.7	-.00016	-.00559
Stddev	.51	.00019	.00002	.8	.00074	.00427
%RSD	.27084	64.179	3.6143	.2105	458.21	76.330
#1	187.71	.00043	.00056	402.3	.00036	-.00257
#2	186.99	.00016	.00059	401.1	-.00068	-.00861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193422-E-7-A Acquired: 12/16/2021 19:55:18 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1058**	**-.00041**	**3.0266**	**.00170**	**.00242**	**-.00013**
Stddev	.0007	.00082	.0111	.00001	.00022	.00006
%RSD	.02334	201.79	.36557	.54697	9.2514	49.511
#1	3.1053	-.00099	3.0345	.00170	.00258	-.00008
#2	3.1063	.00017	3.0188	.00171	.00226	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00044**
Stddev	.00028
%RSD	65.419
#1	-.00064
#2	-.00023
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193422-E-7-A Acquired: 12/16/2021 19:55:18 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3211.7	1997.0	63090.	3331.1
Stddev	2.8	.3	492.	9.3
%RSD	.08609	.01631	.77993	.27804
#1	3213.6	1997.3	62742.	3324.5
#2	3209.7	1996.8	63438.	3337.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.175%	86.443%	86.968%	94.364%
Range				

Sample Name: 480-193422-E-8-A Acquired: 12/16/2021 19:59:16 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.04014**	**-.00355**	**.06257**	**.09975**	**.00002**
Stddev	.00021	.02914	.00436	.00016	.00011	.00006
%RSD	93.503	72.602	122.54	.25437	.10897	396.31
#1	-.00008	.06074	-.00663	.06269	.09967	.00006
#2	-.00038	.01953	-.00047	.06246	.09982	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**443.41**	**.00018**	**.0139**	**-.00002**	**.00087**	**.00175**
Stddev	2.77	.00007	.0121	.00018	.00017	.00016
%RSD	.62392	37.599	86.96	844.93	19.143	9.3468
#1	445.37	.00013	.0054	-.00015	.00076	.00187
#2	441.46	.00023	.0224	.00011	.00099	.00163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-8-A Acquired: 12/16/2021 19:59:16 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04376	7.1756	.01440	71.778	.07502	-.00291
Stddev	.00845	.0445	.00098	.053	.00009	.00031
%RSD	19.314	.62031	6.7969	.07331	.12521	10.670
#1	.03778	7.2071	.01371	71.815	.07495	-.00313
#2	.04973	7.1441	.01509	71.740	.07508	-.00269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	209.45	.00012	.00073	F 371.8	.00006	-.00913
Stddev	.07	.00000	.00067	.2	.00252	.00018
%RSD	.03254	2.4488	91.998	.0552	4563.5	1.9902
#1	209.49	.00012	.00120	371.6	-.00173	-.00900
#2	209.40	.00012	.00025	371.9	.00184	-.00926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193422-E-8-A Acquired: 12/16/2021 19:59:16 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.3249**	**-.00051**	**2.3613**	**.00322**	**.00065**	**.00031**
Stddev	.0521	.00023	.0017	.00014	.00015	.00035
%RSD	.82353	45.805	.07186	4.4341	22.925	112.70
#1	6.2881	-.00034	2.3625	.00312	.00054	.00055
#2	6.3618	-.00067	2.3601	.00332	.00076	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00052**
Stddev	.00039
%RSD	75.421
#1	-.00079
#2	-.00024
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193422-E-8-A Acquired: 12/16/2021 19:59:16 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3153.4	1972.4	62119.	3334.5
Stddev	2.5	.8	16.	7.0
%RSD	.07930	.04089	.02624	.21037
#1	3151.7	1971.8	62107.	3329.5
#2	3155.2	1973.0	62130.	3339.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.739%	85.376%	85.630%	94.461%
Range				

Sample Name: 480-193422-E-9-A Acquired: 12/16/2021 20:03:20 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.06070**	**.00076**	**.04984**	**.07398**	**.00004**
Stddev	.00078	.01387	.00115	.00005	.00020	.00001
%RSD	1167.0	22.853	150.89	.10521	.26694	33.555
#1	-.00062	.05089	-.00005	.04980	.07412	.00004
#2	.00049	.07051	.00157	.04988	.07384	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**360.32**	**.00043**	**.0083**	**-.00000**	**.00401**	**.00268**
Stddev	.06	.00004	.0106	.00003	.00010	.00028
%RSD	.01697	9.1552	127.6	726.39	2.6089	10.608
#1	360.28	.00040	.0008	-.00002	.00409	.00248
#2	360.36	.00046	.0158	.00002	.00394	.00288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-9-A Acquired: 12/16/2021 20:03:20 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14230	10.629	.02892	72.059	.02801	.00467
Stddev	.00622	.024	.00029	.015	.00013	.00003
%RSD	4.3716	.22947	.98890	.02071	.47763	.57031
#1	.13790	10.612	.02913	72.048	.02811	.00468
#2	.14670	10.647	.02872	72.069	.02792	.00465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	230.42	.00073	.01357	F 376.4	.00031	-.00851
Stddev	.55	.00030	.00131	.8	.00060	.00029
%RSD	.23899	40.613	9.6318	.2178	191.00	3.3821
#1	230.04	.00094	.01449	377.0	-.00011	-.00871
#2	230.81	.00052	.01264	375.8	.00074	-.00830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193422-E-9-A Acquired: 12/16/2021 20:03:20 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.4459**	**.00023**	**2.3596**	**.00239**	**.00125**	**.00028**
Stddev	.0469	.00051	.0039	.00012	.00021	.00005
%RSD	.63060	220.25	.16402	4.9711	16.891	17.928
#1	7.4127	-.00013	2.3568	.00248	.00110	.00025
#2	7.4791	.00059	2.3623	.00231	.00140	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.2705**
Stddev	.0060
%RSD	.47495
#1	1.2663
#2	1.2748
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193422-E-9-A Acquired: 12/16/2021 20:03:20 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3181.1	1996.1	62523.	3338.4
Stddev	.3	1.0	164.	4.3
%RSD	.01061	.04767	.26178	.12855
#1	3181.3	1996.8	62407.	3335.4
#2	3180.8	1995.4	62638.	3341.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.420%	86.403%	86.186%	94.571%
Range				

Sample Name: 480-193422-E-10-A Acquired: 12/16/2021 20:07:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.02385**	**.00014**	**.06488**	**.04908**	**-.00001**
Stddev	.00028	.00774	.00059	.00002	.00017	.00001
%RSD	116.11	32.465	412.38	.03126	.35541	53.603
#1	.00044	.01837	-.00027	.06489	.04921	-.00002
#2	.00004	.02932	.00056	.06487	.04896	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**297.43**	**.00023**	**.0154**	**.00180**	**.00050**	**.00169**
Stddev	.32	.00007	.0040	.00024	.00005	.00026
%RSD	.10783	30.641	26.10	13.505	9.0819	15.534
#1	297.21	.00028	.0125	.00197	.00047	.00187
#2	297.66	.00018	.0182	.00163	.00053	.00150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-10-A Acquired: 12/16/2021 20:07:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03803	2.9536	.00804	46.052	.20163	-.00309
Stddev	.00202	.0355	.00104	.117	.00098	.00003
%RSD	5.3023	1.2018	12.995	.25470	.48558	.91894
#1	.03946	2.9285	.00730	46.135	.20233	-.00307
#2	.03661	2.9787	.00877	45.970	.20094	-.00311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	181.35	.00000	.00157	F 203.8	-.00067	-.00885
Stddev	.95	.00018	.00021	.3	.00068	.00331
%RSD	.52297	21529.	13.216	.1264	101.11	37.440
#1	180.68	.00013	.00171	203.6	-.00019	-.01119
#2	182.02	-.00013	.00142	204.0	-.00115	-.00651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193422-E-10-A Acquired: 12/16/2021 20:07:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.4860**	**-.00048**	**1.0810**	**.00179**	**.00175**	**.00016**
Stddev	.0308	.00027	.0053	.00030	.00100	.00035
%RSD	.68645	55.069	.48900	16.719	57.038	220.45
#1	4.4642	-.00067	1.0773	.00201	.00246	.00040
#2	4.5077	-.00030	1.0848	.00158	.00105	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.03150**
Stddev	.00029
%RSD	.90878
#1	.03171
#2	.03130
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193422-E-10-A Acquired: 12/16/2021 20:07:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3244.9	2031.2	63294.	3337.5
Stddev	.6	4.1	304.	24.6
%RSD	.01784	.20230	.47967	.73577
#1	3244.5	2034.1	63080.	3354.9
#2	3245.3	2028.3	63509.	3320.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.993%	87.920%	87.250%	94.546%
Range				

Sample Name: 480-193422-E-11-A Acquired: 12/16/2021 20:11:15 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.07684	.00492	.00015	1.9150	-.00013
Stddev	.00050	.01268	.00032	.00030	.0011	.00000
%RSD	1467.2	16.502	6.4250	203.73	.05521	1.2105
#1	.00039	.08581	.00469	.00036	1.9142	-.00013
#2	-.00032	.06788	.00514	-.00006	1.9157	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	612.78	-.00002	.0228	.00504	.08297	.00989
Stddev	1.73	.00009	.0233	.00003	.00002	.00036
%RSD	.28235	432.11	102.1	.63812	.02811	3.6588
#1	614.00	-.00009	.0393	.00502	.08298	.01015
#2	611.56	.00004	.0063	.00507	.08295	.00963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-11-A Acquired: 12/16/2021 20:11:15 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25391**	**284.90**	**.86389**	**.10924**	**.00172**	**.02094**
Stddev	.00145	.30	.00051	.00329	.00005	.00019
%RSD	.57019	.10448	.05921	3.0160	2.7819	.91402
#1	.25494	284.69	.86353	.11157	.00169	.02081
#2	.25289	285.11	.86425	.10691	.00176	.02108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**267.18**	**.00274**	**.00288**	**8.577**	**-.00020**	**-.01759**
Stddev	.16	.00005	.00079	.030	.00019	.00320
%RSD	.05946	1.6712	27.280	.3529	91.244	18.211
#1	267.06	.00270	.00232	8.599	-.00007	-.01986
#2	267.29	.00277	.00343	8.556	-.00033	-.01533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-11-A Acquired: 12/16/2021 20:11:15 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21130	.00021	F 23.430	.00236	.00300	.00097
Stddev	.01536	.00004	.074	.00010	.00023	.00017
%RSD	7.2687	20.948	.31727	4.1275	7.6256	17.997
#1	.20044	.00018	23.482	.00229	.00317	.00084
#2	.22216	.00024	23.377	.00243	.00284	.00109
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000			
Low Limit			-.00500			

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.09681
Stddev	.00190
%RSD	1.9619
#1	.09815
#2	.09546
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193422-E-11-A Acquired: 12/16/2021 20:11:15 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2983.6	1950.0	59957.	3267.1
Stddev	4.3	3.8	6.	5.7
%RSD	.14427	.19374	.01032	.17520
#1	2986.6	1947.3	59961.	3271.1
#2	2980.5	1952.6	59952.	3263.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.551%	84.405%	82.649%	92.552%
Range				

Sample Name: 480-193422-E-12-A Acquired: 12/16/2021 20:15:32 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	.03211	-.00017	.03611	.05191	-.00002
Stddev	.00001	.00593	.00053	.00006	.00014	.00001
%RSD	20.365	18.468	323.36	.16532	.27339	70.221
#1	.00004	.02792	.00021	.03615	.05201	-.00001
#2	.00006	.03631	-.00054	.03607	.05181	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	295.48	.00016	.0191	.00003	.00048	.00129
Stddev	.16	.00000	.0036	.00010	.00011	.00017
%RSD	.05484	2.3000	19.02	337.29	23.121	13.147
#1	295.59	.00016	.0217	-.00004	.00040	.00141
#2	295.36	.00016	.0165	.00010	.00056	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193422-E-12-A Acquired: 12/16/2021 20:15:32 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11968	6.7681	.01841	35.432	.04493	.00299
Stddev	.00011	.0518	.00098	.131	.00009	.00051
%RSD	.08827	.76595	5.3482	.36985	.20931	17.010
#1	.11961	6.8047	.01910	35.524	.04499	.00263
#2	.11976	6.7314	.01771	35.339	.04486	.00335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	170.70	-.00007	.00257	F 240.6	-.00033	-.00907
Stddev	.33	.00002	.00003	.5	.00018	.00167
%RSD	.19116	28.418	1.0155	.1913	54.416	18.395
#1	170.93	-.00009	.00255	240.2	-.00046	-.00789
#2	170.47	-.00006	.00258	240.9	-.00020	-.01025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				90.00		
Low Limit				-.2000		

Sample Name: 480-193422-E-12-A Acquired: 12/16/2021 20:15:32 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.4787**	**.00001**	**1.3815**	**.00119**	**-.00035**	**-.00014**
Stddev	.0650	.00148	.0019	.00007	.00094	.00005
%RSD	1.4514	25255.	.13416	6.2532	267.36	34.781
#1	4.5247	.00105	1.3801	.00114	.00031	-.00011
#2	4.4327	-.00104	1.3828	.00124	-.00101	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.06937**
Stddev	.00129
%RSD	1.8614
#1	.07028
#2	.06846
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193422-E-12-A Acquired: 12/16/2021 20:15:32 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3259.0	2044.5	63426.	3340.7
Stddev	4.1	6.4	165.	19.6
%RSD	.12624	.31124	.26036	.58767
#1	3261.9	2049.0	63309.	3354.6
#2	3256.1	2040.0	63543.	3326.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.341%	88.496%	87.431%	94.636%
Range				

Sample Name: 240-161335-B-1-B Acquired: 12/16/2021 20:19:29 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**2.5017**	**.02482**	**.15649**	**.14456**	**.00059**
Stddev	.00036	.0105	.00321	.00014	.00037	.00000
%RSD	63.611	.41873	12.952	.09108	.25815	.30789
#1	-.00082	2.4943	.02255	.15639	.14429	.00059
#2	-.00031	2.5091	.02709	.15660	.14482	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.735**	**.00192**	**.0202**	**.01241**	**.07338**	**.42061**
Stddev	.006	.00004	.0077	.00006	.00018	.00018
%RSD	.01670	1.9287	37.94	.49857	.24818	.04303
#1	34.739	.00195	.0257	.01237	.07326	.42048
#2	34.731	.00190	.0148	.01246	.07351	.42073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 240-161335-B-1-B Acquired: 12/16/2021 20:19:29 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**102.26**	**5.6582**	**.02100**	**13.298**	**1.5923**	**.04218**
Stddev	.13	.0037	.00008	.017	.0028	.00018
%RSD	.13157	.06576	.36014	.12588	.17431	.42715
#1	102.17	5.6608	.02106	13.286	1.5903	.04206
#2	102.36	5.6555	.02095	13.310	1.5942	.04231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**325.39**	**.14592**	**.10054**	**15.09**	**.00670**	**-.00122**
Stddev	.72	.00056	.00092	.01	.00039	.00308
%RSD	.22017	.38200	.91268	.0710	5.7642	252.85
#1	324.88	.14632	.09989	15.10	.00697	.00096
#2	325.89	.14553	.10119	15.09	.00643	-.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 240-161335-B-1-B Acquired: 12/16/2021 20:19:29 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.4201**	**.03721**	**.42222**	**.04273**	**-.00143**	**.00584**
Stddev	.0222	.00050	.00159	.00007	.00106	.00018
%RSD	.64901	1.3366	.37580	.16230	74.050	3.0676
#1	3.4358	.03686	.42110	.04268	-.00068	.00597
#2	3.4044	.03757	.42335	.04278	-.00217	.00572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.62236**
Stddev	.00232
%RSD	.37303
#1	.62071
#2	.62400
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 240-161335-B-1-B Acquired: 12/16/2021 20:19:29 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3332.6	2069.1	64219.	3364.7
Stddev	6.7	2.9	82.	7.9
%RSD	.20194	.13806	.12710	.23481
#1	3327.9	2067.1	64161.	3370.3
#2	3337.4	2071.1	64276.	3359.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.156%	89.562%	88.524%	95.317%
Range				

Sample Name: rinse Acquired: 12/16/2021 20:23:22 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00980**	**-.00222**	**-.00090**	**-.00001**	**.00004**
Stddev	.00013	.00666	.00129	.00001	.00001	.00006
%RSD	54.354	67.970	58.301	1.4966	58.265	155.98
#1	-.00015	.00509	-.00313	-.00089	-.00001	-.00000
#2	-.00033	.01450	-.00130	-.00091	-.00002	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01201**	**-.00005**	**-.0026**	**-.00001**	**.00016**	**.00010**
Stddev	.00307	.00002	.0227	.00001	.00005	.00000
%RSD	25.547	42.962	856.8	66.154	28.384	1.7810
#1	.00984	-.00007	.0134	-.00002	.00013	.00010
#2	.01418	-.00004	-.0187	-.00001	.00020	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: rinse Acquired: 12/16/2021 20:23:22 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00976	.00852	-.00097	.00555	.00006	-.00343
Stddev	.00068	.02691	.00066	.00127	.00006	.00011
%RSD	7.0098	315.75	68.242	22.901	102.10	3.3319
#1	.00928	-.01051	-.00143	.00645	.00002	-.00335
#2	.01024	.02755	-.00050	.00465	.00010	-.00352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06607	-.00017	.00047	.0325	.00077	-.00109
Stddev	.00433	.00001	.00068	.0002	.00049	.00073
%RSD	6.5568	4.0683	145.74	.6947	63.871	66.804
#1	.06300	-.00017	.00095	.0323	.00111	-.00161
#2	.06913	-.00016	-.00001	.0326	.00042	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: rinse Acquired: 12/16/2021 20:23:22 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00523	.00036	.00010	.00001	-.00017	.00011
Stddev	.00940	.00068	.00005	.00018	.00117	.00011
%RSD	179.56	189.71	45.907	1597.7	703.44	98.902
#1	-.00141	-.00012	.00013	.00013	.00066	.00003
#2	.01188	.00083	.00007	-.00011	-.00099	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00040
Stddev	.00031
%RSD	77.084
#1	.00018
#2	.00061
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: rinse Acquired: 12/16/2021 20:23:22 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4043.4**	**2268.4**	**72647.**	**3450.3**
Stddev	1.4	2.0	55.	9.5
%RSD	.03543	.08973	.07516	.27667
#1	4042.4	2266.9	72686.	3457.1
#2	4044.4	2269.8	72609.	3443.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.678%	98.188%	100.14%	97.742%
Range				

Sample Name: LB 480-608962/1-D Acquired: 12/16/2021 20:27:18 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	.01376	.00324	.01112	.07899	-.00003
Stddev	.00038	.00681	.00155	.00016	.00012	.00006
%RSD	147.92	49.475	47.834	1.4121	.15098	221.56
#1	.00052	.00895	.00433	.01101	.07890	.00002
#2	-.00001	.01857	.00214	.01123	.07907	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14783	-.00001	.0196	-.00005	.00083	.00195
Stddev	.00024	.00000	.0010	.00002	.00011	.00020
%RSD	.16519	21.337	4.900	43.622	13.176	10.451
#1	.14765	-.00001	.0203	-.00007	.00090	.00180
#2	.14800	-.00001	.0189	-.00004	.00075	.00209
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 480-608962/1-D Acquired: 12/16/2021 20:27:18 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01723	.27529	-.00154	.03284	.00196	-.00406
Stddev	.00118	.00986	.00068	.00009	.00001	.00018
%RSD	6.8709	3.5799	43.840	.27334	.37194	4.4894
#1	.01639	.28226	-.00202	.03278	.00197	-.00393
#2	.01807	.26833	-.00107	.03291	.00195	-.00419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1152.7	.00108	.00147	.1461	-.00033	-.00610
Stddev	6.6	.00051	.00103	.0003	.00066	.00067
%RSD	.57144	47.486	69.965	.2203	200.69	11.056
#1	1157.4	.00072	.00220	.1464	.00014	-.00658
#2	1148.1	.00144	.00074	.1459	-.00080	-.00562
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1.0000					
Low Limit	-1.0000					

Sample Name: LB 480-608962/1-D Acquired: 12/16/2021 20:27:18 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03292	.00076	.00211	-.00010	-.00004	-.00000
Stddev	.01412	.00058	.00000	.00024	.00048	.00024
%RSD	42.904	76.291	.22565	236.28	1145.4	853350.
#1	.04290	.00118	.00211	-.00027	.00030	.00017
#2	.02293	.00035	.00211	.00007	-.00038	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00701
Stddev	.00026
%RSD	3.7743
#1	.00682
#2	.00719
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: LB 480-608962/1-D Acquired: 12/16/2021 20:27:18 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3104.9	1998.7	60317.	3331.8
Stddev	1.4	5.3	98.	35.6
%RSD	.04386	.26364	.16242	1.0681
#1	3103.9	1995.0	60248.	3306.7
#2	3105.8	2002.4	60386.	3357.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.541%	86.514%	83.146%	94.386%
Range				

Sample Name: CCV-6817081 Acquired: 12/16/2021 20:31:20 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0398	50.628	1.0338	1.0678	1.0222	1.0285	51.967	1.0415
Stddev	.0022	.079	.0017	.0004	.0029	.0042	.211	.0004
%RSD	.20936	.15601	.16817	.03899	.27867	.40400	.40617	.03404
#1	1.0414	50.684	1.0326	1.0680	1.0242	1.0315	52.116	1.0417
#2	1.0383	50.572	1.0350	1.0675	1.0202	1.0256	51.817	1.0412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.060	1.0290	1.0336	1.0200	51.610	51.521	1.0264	51.426
Stddev	.012	.0013	.0003	.0024	.316	.234	.0042	.047
%RSD	1.146	.12915	.02528	.23694	.61135	.45437	.40933	.09167
#1	1.069	1.0299	1.0334	1.0217	51.833	51.687	1.0294	51.459
#2	1.051	1.0280	1.0338	1.0183	51.387	51.356	1.0234	51.392
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0394	1.0569	50.470	1.0235	1.0335	25.82	1.0313	1.0265
Stddev	.0002	.0036	.153	.0017	.0033	.03	.0026	.0034
%RSD	.02286	.34136	.30281	.16155	.32182	.1205	.25563	.32658
#1	1.0392	1.0543	50.578	1.0246	1.0359	25.80	1.0331	1.0288
#2	1.0396	1.0594	50.362	1.0223	1.0312	25.84	1.0294	1.0241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/16/2021 20:31:20 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.304	1.0277	1.0178	1.0310	1.0392	1.0300	1.0708
Stddev	.025	.0011	.0027	.0003	.0002	.0011	.0017
%RSD	.24419	.10350	.26906	.03004	.01857	.10509	.15832
#1	10.322	1.0284	1.0198	1.0312	1.0390	1.0292	1.0696
#2	10.286	1.0269	1.0159	1.0308	1.0393	1.0308	1.0720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3468.3	2193.8	67630.	3389.6
Stddev	2.6	1.2	173.	15.8
%RSD	.07576	.05525	.25601	.46728
#1	3466.5	2192.9	67508.	3378.4
#2	3470.2	2194.6	67753.	3400.8

Sample Name: CCB-6819143 Acquired: 12/16/2021 20:35:02 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00021	.02745	-.00056	-.00020	.00007	.00004	.00210	.00000
Stddev	.00022	.01534	.00152	.00005	.00001	.00017	.00036	.00008
%RSD	105.50	55.868	269.54	26.125	15.486	442.70	17.127	3072.9
#1	.00005	.01661	.00051	-.00016	.00008	-.00008	.00235	-.00005
#2	.00036	.03830	-.00164	-.00023	.00007	.00016	.00184	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069	.00008	.00023	.00035	.00832	.00103	-.00092	.00211
Stddev	.0121	.00003	.00005	.00029	.00238	.00309	.00010	.00071
%RSD	176.6	44.053	23.593	83.444	28.660	299.60	11.041	33.531
#1	.0154	.00010	.00027	.00056	.00663	.00322	-.00099	.00161
#2	-.0017	.00005	.00019	.00014	.01000	-.00115	-.00085	.00262
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00009	.00419	.06875	-.00003	.00037	.0134	.00033	.00430
Stddev	.00001	.00103	.00576	.00010	.00131	.0012	.00069	.00031
%RSD	9.5408	24.555	8.3755	299.94	358.02	8.790	209.96	7.2262
#1	-.00009	.00492	.07282	-.00010	.00129	.0143	.00082	.00408
#2	-.00008	.00346	.06468	.00004	-.00056	.0126	-.00016	.00452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6819143 Acquired: 12/16/2021 20:35:02 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02325	.00039	.00008	.00040	.00102	.00018	.00014
Stddev	.00946	.00007	.00003	.00007	.00120	.00021	.00026
%RSD	40.692	19.319	39.176	17.271	117.95	118.84	179.22
#1	.01656	.00044	.00010	.00045	.00187	.00003	-.00004
#2	.02994	.00033	.00006	.00035	.00017	.00033	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4073.3	2296.3	72470.	3429.3
Stddev	2.2	1.9	454.	1.0
%RSD	.05298	.08194	.62689	.03027
#1	4071.8	2297.6	72791.	3430.0
#2	4074.8	2295.0	72148.	3428.6

Sample Name: CCVL-6819272 Acquired: 12/16/2021 20:39:00 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00565	.21527	.01187	.01920	.00211	.00205	.51462	.00200
Stddev	.00044	.01391	.00220	.00028	.00000	.00002	.00123	.00006
%RSD	7.7825	6.4617	18.537	1.4641	.23111	1.1079	.23921	3.1951
#1	.00534	.22510	.01031	.01900	.00211	.00206	.51549	.00204
#2	.00596	.20543	.01342	.01940	.00212	.00203	.51375	.00195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0212	.00375	.00364	.01007	.05167	.48552	.02647	.19832
Stddev	.0002	.00001	.00022	.00038	.00276	.00999	.00203	.00110
%RSD	1.097	.34449	6.1763	3.7709	5.3482	2.0584	7.6744	.55446
#1	-.0213	.00374	.00348	.01034	.05363	.49259	.02791	.19754
#2	-.0210	.00376	.00380	.00980	.04972	.47845	.02504	.19910
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00311	.00846	1.0231	.00933	.01013	.1965	.01984	.02353
Stddev	.00002	.00004	.0005	.00008	.00098	.0000	.00063	.00158
%RSD	.62668	.43753	.04738	.85985	9.6928	.0082	3.1634	6.7138
#1	.00312	.00849	1.0235	.00928	.00944	.1965	.02028	.02465
#2	.00310	.00843	1.0228	.00939	.01083	.1965	.01939	.02241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6819272 Acquired: 12/16/2021 20:39:00 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48391	.00938	.00502	.00480	.01880	.00504	.01040
Stddev	.02812	.00062	.00000	.00017	.00054	.00018	.00002
%RSD	5.8102	6.6071	.07068	3.4480	2.8821	3.6108	.22219
#1	.46403	.00982	.00502	.00492	.01842	.00516	.01039
#2	.50379	.00894	.00503	.00468	.01919	.00491	.01042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4045.6	2302.1	72708.	3434.2
Stddev	7.5	2.0	58.	2.7
%RSD	.18593	.08592	.07934	.07932
#1	4040.3	2300.7	72749.	3436.1
#2	4050.9	2303.5	72667.	3432.3

Sample Name: MB 480-609120/2-A Acquired: 12/16/2021 20:42:55 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00002	.02144	-.00122	-.00052	-.00001	-.00011
Stddev	.00022	.02701	.00192	.00016	.00000	.00001
%RSD	1442.3	125.95	157.96	30.747	28.127	10.306
#1	.00017	.04054	-.00257	-.00064	-.00001	-.00010
#2	-.00014	.00235	.00014	-.00041	-.00001	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01188	.00001	-.0147	.00009	-.00017	.00064
Stddev	.00037	.00003	.0275	.00015	.00009	.00011
%RSD	3.0979	398.41	187.3	168.40	56.181	17.698
#1	.01214	-.00001	.0048	.00020	-.00010	.00056
#2	.01162	.00003	-.0341	-.00002	-.00024	.00072
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-609120/2-A Acquired: 12/16/2021 20:42:55 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.02015**	**-.00185**	**.00393**	**.00001**	**-.00300**
Stddev	.00298	.00565	.00005	.00366	.00000	.00004
%RSD	21743.	28.061	2.9445	93.259	.51123	1.3827
#1	-.00212	-.02415	-.00189	.00651	.00001	-.00297
#2	.00209	-.01615	-.00181	.00134	.00001	-.00303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04188**	**-.00010**	**.00018**	**.0096**	**-.00092**	**.00146**
Stddev	.00042	.00000	.00024	.0036	.00095	.00096
%RSD	1.0057	1.1903	135.43	37.00	103.06	66.261
#1	.04218	-.00010	.00034	.0071	-.00159	.00214
#2	.04158	-.00010	.00001	.0121	-.00025	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-609120/2-A Acquired: 12/16/2021 20:42:55 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01896	.00018	.00012	.00025	-.00002	.00003
Stddev	.02504	.00002	.00004	.00023	.00081	.00000
%RSD	132.04	8.4693	32.849	89.893	4527.6	11.638
#1	.03667	.00017	.00015	.00041	-.00059	.00003
#2	.00126	.00019	.00009	.00009	.00055	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00008
Stddev	.00018
%RSD	214.57
#1	-.00004
#2	.00021
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: MB 480-609120/2-A Acquired: 12/16/2021 20:42:55 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4071.7	2307.3	73056.	3482.9
Stddev	3.8	3.4	5.	2.8
%RSD	.09310	.14636	.00688	.08084
#1	4074.3	2309.7	73053.	3480.9
#2	4069.0	2304.9	73060.	3484.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.37%	99.874%	100.71%	98.665%
Range				

Sample Name: LCS 480-609120/3-A Acquired: 12/16/2021 20:46:51 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0912**	**.02782**	**1.0930**	**.01110**	**1.0721**	**1.0042**
Stddev	.0057	.00846	.0031	.00080	.0015	.0005
%RSD	.52506	30.393	.27865	7.2369	.14254	.04693
#1	1.0953	.03380	1.0952	.01166	1.0710	1.0039
#2	1.0871	.02184	1.0909	.01053	1.0731	1.0046
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15572**	**1.0490**	**-.0167**	**.99364**	**1.0020**	**.99212**
Stddev	.00190	.0013	.0147	.00185	.0045	.00374
%RSD	1.2209	.12161	87.87	.18646	.44810	.37744
#1	.15438	1.0481	-.0063	.99495	1.0052	.99477
#2	.15706	1.0499	-.0272	.99233	.99884	.98947
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCS 480-609120/3-A Acquired: 12/16/2021 20:46:51 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01490	.19850	-.00095	.01509	1.0311	1.0107
Stddev	.00009	.00077	.00095	.00068	.0053	.0041
%RSD	.57332	.38983	100.14	4.4831	.51162	.41002
#1	.01484	.19796	-.00162	.01462	1.0348	1.0077
#2	.01496	.19905	-.00028	.01557	1.0273	1.0136
Check ?	None	None	None	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1150.6	1.0095	1.0105	F .1066	1.0747	1.0572
Stddev	1.9	.0016	.0012	.0013	.0004	.0051
%RSD	.16123	.15987	.11521	1.205	.03904	.48453
#1	1149.3	1.0107	1.0114	.1057	1.0750	1.0536
#2	1151.9	1.0084	1.0097	.1075	1.0744	1.0608
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				1.200		
Low Limit				.8000		

Sample Name: LCS 480-609120/3-A Acquired: 12/16/2021 20:46:51 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03048	.00030	.09955	.00122	.97100	1.0092
Stddev	.00677	.00088	.00021	.00005	.00368	.0035
%RSD	22.215	299.59	.21179	3.8638	.37936	.34688
#1	.02569	.00092	.09940	.00125	.96839	1.0117
#2	.03527	-.00033	.09970	.00118	.97360	1.0068
Check ?	None	None	None	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.1075
Stddev	.0059
%RSD	.53369
#1	1.1117
#2	1.1033
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: LCS 480-609120/3-A Acquired: 12/16/2021 20:46:51 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3105.0	2039.0	60654.	3339.6
Stddev	.3	2.6	109.	10.1
%RSD	.00895	.12736	.17940	.30194
#1	3105.2	2040.8	60578.	3346.7
#2	3104.8	2037.2	60731.	3332.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.546%	88.259%	83.611%	94.605%
Range				

Sample Name: 480-193421-A-1-E Acquired: 12/16/2021 20:50:46 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.21050**	**.00371**	**.10465**	**.59575**	**.00023**
Stddev	.00020	.01049	.00204	.00009	.00068	.00007
%RSD	284.01	4.9837	54.971	.08765	.11337	28.740
#1	-.00021	.20308	.00515	.10459	.59527	.00018
#2	.00007	.21792	.00227	.10472	.59623	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**73.007**	**.00047**	**-.0205**	**.00274**	**.00020**	**.00124**
Stddev	.130	.00012	.0058	.00006	.00015	.00015
%RSD	.17866	26.006	28.55	2.2873	74.632	11.928
#1	73.099	.00056	-.0163	.00279	.00031	.00134
#2	72.915	.00039	-.0246	.00270	.00009	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193421-A-1-E Acquired: 12/16/2021 20:50:46 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12912	3.9637	.00236	12.442	1.4415	.00362
Stddev	.00356	.0010	.00032	.035	.0041	.00097
%RSD	2.7580	.02650	13.647	.28189	.28650	26.783
#1	.12660	3.9630	.00259	12.467	1.4444	.00430
#2	.13164	3.9645	.00214	12.417	1.4385	.00293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1204.2	.00474	.00156	.3816	.00368	-.00140
Stddev	.9	.00007	.00050	.0008	.00038	.00037
%RSD	.07292	1.4957	32.135	.2140	10.451	26.683
#1	1204.8	.00479	.00191	.3822	.00395	-.00167
#2	1203.5	.00469	.00120	.3810	.00340	-.00114
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-1.0000					

Sample Name: 480-193421-A-1-E Acquired: 12/16/2021 20:50:46 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4859	.00035	.17214	.00257	.00163	.00034
Stddev	.0060	.00034	.00039	.00015	.00010	.00033
%RSD	.40209	98.589	.22544	5.7231	5.9266	97.218
#1	1.4901	.00059	.17241	.00267	.00156	.00057
#2	1.4817	.00011	.17186	.00246	.00170	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01726
Stddev	.00031
%RSD	1.8045
#1	.01748
#2	.01704
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193421-A-1-E Acquired: 12/16/2021 20:50:46 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3038.0	2019.0	60098.	3287.4
Stddev	2.9	1.8	182.	2.6
%RSD	.09607	.09134	.30338	.07785
#1	3040.1	2020.3	59969.	3289.2
#2	3036.0	2017.7	60227.	3285.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.893%	87.392%	82.844%	93.127%
Range				

Sample Name: 480-193421-A-1-ESD@5 Acquired: 12/16/2021 20:54:51 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	.03994	.00027	.02005	.12312	.00005
Stddev	.00049	.00533	.00081	.00017	.00050	.00004
%RSD	166.81	13.349	299.72	.84971	.40226	72.088
#1	.00065	.03617	.00084	.01993	.12277	.00008
#2	-.00005	.04371	-.00030	.02017	.12347	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.738	.00015	.0098	.00054	-.00007	.00027
Stddev	.035	.00003	.0150	.00003	.00009	.00080
%RSD	.23511	20.894	152.6	5.5658	138.85	291.35
#1	14.763	.00013	-.0008	.00056	-.00000	-.00029
#2	14.714	.00017	.0205	.00052	-.00013	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193421-A-1-ESD@5 Acquired: 12/16/2021 20:54:51 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02696	.70617	-.00103	2.5479	.28733	-.00190
Stddev	.00232	.01149	.00045	.0073	.00113	.00002
%RSD	8.6044	1.6268	43.780	.28743	.39254	.84832
#1	.02532	.71429	-.00135	2.5427	.28654	-.00189
#2	.02860	.69805	-.00071	2.5530	.28813	-.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	238.15	.00093	.00114	.0743	.00076	-.00099
Stddev	.75	.00018	.00000	.0021	.00179	.00024
%RSD	.31295	19.262	.31892	2.828	234.77	24.621
#1	238.68	.00106	.00114	.0729	-.00050	-.00116
#2	237.62	.00081	.00115	.0758	.00202	-.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193421-A-1-ESD@5 Acquired: 12/16/2021 20:54:51 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29738**	**.00059**	**.03427**	**.00035**	**.00118**	**.00013**
Stddev	.03818	.00028	.00018	.00017	.00160	.00001
%RSD	12.838	48.061	.53863	48.372	134.77	4.7834
#1	.27039	.00079	.03440	.00023	.00231	.00013
#2	.32438	.00039	.03414	.00047	.00006	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00312**
Stddev	.00007
%RSD	2.2233
#1	.00307
#2	.00317
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193421-A-1-ESD@5 Acquired: 12/16/2021 20:54:51 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3467.0	2172.6	65994.	3357.5
Stddev	3.5	2.4	230.	10.9
%RSD	.10024	.11049	.34925	.32446
#1	3464.6	2170.9	66157.	3349.7
#2	3469.5	2174.3	65831.	3365.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.470%	94.044%	90.972%	95.111%
Range				

Sample Name: 480-193421-A-1-EPDS Acquired: 12/16/2021 20:58:50 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1112	.21086	1.1059	.10378	1.6059	1.0372
Stddev	.0043	.00016	.0029	.00044	.0089	.0004
%RSD	.38373	.07609	.25736	.42118	.55707	.03875
#1	1.1142	.21075	1.1039	.10348	1.5996	1.0369
#2	1.1082	.21098	1.1079	.10409	1.6122	1.0375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	72.354	1.0727	-.0201	1.0179	1.0183	1.0117
Stddev	.171	.0012	.0106	.0004	.0037	.0039
%RSD	.23687	.11599	52.82	.03872	.36243	.38809
#1	72.475	1.0718	-.0126	1.0176	1.0209	1.0145
#2	72.233	1.0736	-.0277	1.0182	1.0157	1.0090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193421-A-1-EPDS Acquired: 12/16/2021 20:58:50 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12361	3.9392	.00298	12.344	2.4767	1.0276
Stddev	.00861	.0178	.00033	.000	.0019	.0044
%RSD	6.9677	.45284	11.127	.00311	.07869	.42810
#1	.11752	3.9518	.00322	12.344	2.4781	1.0245
#2	.12970	3.9266	.00275	12.345	2.4753	1.0307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1192.8	1.0401	1.0373	.3573	1.0972	1.0673
Stddev	3.6	.0018	.0004	.0036	.0052	.0036
%RSD	.30336	.17096	.04291	1.016	.47403	.33797
#1	1190.3	1.0389	1.0370	.3547	1.1009	1.0699
#2	1195.4	1.0414	1.0376	.3599	1.0935	1.0648
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-1.0000					

Sample Name: 480-193421-A-1-EPDS Acquired: 12/16/2021 20:58:50 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4673	-.00003	.17072	.00322	.99642	1.0363
Stddev	.0090	.00069	.00045	.00006	.00626	.0021
%RSD	.61394	2607.8	.26091	1.8455	.62875	.20371
#1	1.4609	-.00052	.17041	.00326	.99199	1.0378
#2	1.4736	.00046	.17104	.00318	1.0008	1.0348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.1141
Stddev	.0036
%RSD	.31931
#1	1.1116
#2	1.1166
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193421-A-1-EPDS Acquired: 12/16/2021 20:58:50 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3030.0	2024.0	60372.	3297.6
Stddev	5.4	4.0	364.	11.5
%RSD	.17721	.19771	.60227	.34751
#1	3033.8	2026.9	60115.	3289.5
#2	3026.2	2021.2	60629.	3305.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.697%	87.612%	83.222%	93.416%
Range				

Sample Name: 480-193421-A-1-F MS Acquired: 12/16/2021 21:02:44 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0652	.20718	1.0704	.09944	1.5732	1.0013
Stddev	.0033	.01557	.0049	.00013	.0008	.0004
%RSD	.30693	7.5160	.46171	.12848	.04942	.03739
#1	1.0629	.21819	1.0670	.09953	1.5737	1.0015
#2	1.0675	.19617	1.0739	.09935	1.5726	1.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	69.806	1.0342	-.0168	.97753	.98990	.96992
Stddev	.184	.0027	.0034	.00206	.00482	.00415
%RSD	.26416	.26300	20.31	.21107	.48740	.42794
#1	69.676	1.0323	-.0144	.97899	.98649	.96698
#2	69.937	1.0361	-.0192	.97607	.99331	.97285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193421-A-1-F MS Acquired: 12/16/2021 21:02:44 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10071	3.7519	.00389	11.825	2.3632	1.0028
Stddev	.00386	.0039	.00030	.039	.0120	.0057
%RSD	3.8327	.10345	7.8119	.32840	.50613	.56732
#1	.09798	3.7547	.00367	11.798	2.3547	.99876
#2	.10344	3.7492	.00410	11.853	2.3716	1.0068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1159.1	.99717	.99885	.3383	1.0669	1.0405
Stddev	2.6	.00179	.00020	.0042	.0029	.0019
%RSD	.22397	.17904	.01997	1.238	.27386	.18566
#1	1157.3	.99844	.99871	.3353	1.0648	1.0418
#2	1161.0	.99591	.99900	.3412	1.0690	1.0391
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-1.0000					

Sample Name: 480-193421-A-1-F MS Acquired: 12/16/2021 21:02:44 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.3908	.00027	.26234	.00290	.95660	1.0001
Stddev	.0156	.00140	.00005	.00026	.00326	.0056
%RSD	1.1235	517.16	.01833	9.0560	.34102	.55517
#1	1.4019	-.00072	.26230	.00308	.95891	.99621
#2	1.3798	.00126	.26237	.00271	.95429	1.0041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0784
Stddev	.0047
%RSD	.43599
#1	1.0750
#2	1.0817
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193421-A-1-F MS Acquired: 12/16/2021 21:02:44 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3046.4	2022.8	60245.	3278.8
Stddev	2.6	5.6	247.	13.5
%RSD	.08521	.27479	.40974	.41324
#1	3044.5	2026.7	60420.	3288.4
#2	3048.2	2018.8	60071.	3269.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.099%	87.556%	83.047%	92.884%
Range				

Sample Name: 480-193421-A-1-G MSD Acquired: 12/16/2021 21:06:38 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0300	.18386	1.0275	.09544	1.5070	.96547
Stddev	.0061	.02399	.0046	.00027	.0027	.00348
%RSD	.59128	13.051	.45034	.28067	.17738	.36039
#1	1.0343	.16689	1.0308	.09562	1.5089	.96793
#2	1.0257	.20082	1.0242	.09525	1.5051	.96301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	67.487	.99516	-.0121	.94497	.95202	.93600
Stddev	.274	.00048	.0173	.00175	.00607	.00604
%RSD	.40650	.04797	143.6	.18556	.63723	.64570
#1	67.681	.99550	-.0243	.94373	.95631	.94027
#2	67.293	.99483	.0002	.94621	.94773	.93172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193421-A-1-G MSD Acquired: 12/16/2021 21:06:38 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09773	3.6212	.00241	11.448	2.2893	.96729
Stddev	.00574	.0485	.00054	.057	.0147	.00067
%RSD	5.8721	1.3385	22.264	.49697	.64291	.06891
#1	.10179	3.6555	.00203	11.489	2.2997	.96777
#2	.09367	3.5869	.00279	11.408	2.2789	.96682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1112.9	.96378	.96441	.3212	1.0252	1.0073
Stddev	2.0	.00036	.00005	.0005	.0016	.0020
%RSD	.17665	.03783	.00557	.1516	.15175	.19788
#1	1114.3	.96352	.96445	.3215	1.0263	1.0059
#2	1111.5	.96404	.96437	.3209	1.0241	1.0087
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-1.0000					

Sample Name: 480-193421-A-1-G MSD Acquired: 12/16/2021 21:06:38 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3198**	**.00114**	**.25194**	**.00405**	**.92317**	**.96576**
Stddev	.0075	.00126	.00036	.00240	.00210	.00530
%RSD	.57009	110.58	.14302	59.278	.22752	.54891
#1	1.3145	.00025	.25220	.00235	.92465	.96950
#2	1.3251	.00203	.25169	.00574	.92168	.96201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0401**
Stddev	.0090
%RSD	.86836
#1	1.0464
#2	1.0337
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193421-A-1-G MSD Acquired: 12/16/2021 21:06:38 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3057.9	2032.8	60557.	3276.8
Stddev	3.4	.9	520.	1.7
%RSD	.10959	.04319	.85904	.05269
#1	3060.3	2033.4	60189.	3275.6
#2	3055.5	2032.1	60925.	3278.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.384%	87.989%	83.477%	92.826%
Range				

Sample Name: 480-193421-A-2-E Acquired: 12/16/2021 21:10:32 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.52833	.00644	.11157	.32898	.00009
Stddev	.00045	.02925	.00028	.00095	.00013	.00002
%RSD	1768.2	5.5361	4.2845	.85138	.03942	23.092
#1	.00035	.54901	.00624	.11090	.32907	.00011
#2	-.00029	.50765	.00663	.11224	.32889	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	33.245	.00019	-.0057	.00002	.00093	.00168
Stddev	.072	.00004	.0047	.00018	.00007	.00024
%RSD	.21532	21.437	83.74	1004.0	7.6323	14.088
#1	33.295	.00022	-.0023	-.00011	.00088	.00185
#2	33.194	.00016	-.0090	.00014	.00098	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193421-A-2-E Acquired: 12/16/2021 21:10:32 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50667	3.2369	.00144	5.9578	.07260	.00637
Stddev	.01293	.0234	.00016	.0027	.00024	.00102
%RSD	2.5511	.72375	11.374	.04515	.32688	15.966
#1	.49753	3.2204	.00156	5.9597	.07276	.00709
#2	.51581	3.2535	.00133	5.9559	.07243	.00565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1200.7	.00243	.00241	.1379	.00366	-.00129
Stddev	.4	.00024	.00065	.0008	.00035	.00062
%RSD	.03439	9.8829	26.919	.5892	9.6164	47.677
#1	1200.4	.00226	.00195	.1373	.00341	-.00173
#2	1201.0	.00260	.00287	.1385	.00391	-.00086
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-1.0000					

Sample Name: 480-193421-A-2-E Acquired: 12/16/2021 21:10:32 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.3502	.00062	.06854	.01601	.00053	.00108
Stddev	.0015	.00044	.00003	.00186	.00177	.00040
%RSD	.11271	70.305	.04713	11.631	336.18	36.493
#1	1.3491	.00031	.06856	.01733	-.00072	.00080
#2	1.3513	.00093	.06851	.01469	.00177	.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01711
Stddev	.00101
%RSD	5.9171
#1	.01783
#2	.01640
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193421-A-2-E Acquired: 12/16/2021 21:10:32 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3067.2	2039.1	60238.	3317.6
Stddev	4.3	7.7	55.	7.0
%RSD	.13863	.37883	.09156	.21108
#1	3070.2	2044.6	60199.	3312.7
#2	3064.2	2033.7	60277.	3322.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.613%	88.266%	83.037%	93.983%
Range				

Sample Name: 480-193421-B-3-E Acquired: 12/16/2021 21:14:32 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	.85719	.00401	.16904	.40389	.00003
Stddev	.00030	.00213	.00266	.00073	.00034	.00001
%RSD	226.22	.24832	66.447	.43200	.08367	28.928
#1	-.00008	.85870	.00589	.16955	.40365	.00002
#2	.00034	.85569	.00212	.16852	.40412	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	68.399	.00031	.0165	.00018	.00111	.00149
Stddev	.317	.00008	.0162	.00021	.00012	.00019
%RSD	.46338	25.355	98.12	115.81	10.878	12.839
#1	68.175	.00025	.0051	.00003	.00119	.00162
#2	68.623	.00036	.0280	.00033	.00102	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193421-B-3-E Acquired: 12/16/2021 21:14:32 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.70438	4.0035	.00195	5.8701	.14176	-.00116
Stddev	.00030	.0321	.00035	.0217	.00044	.00007
%RSD	.04274	.80059	18.040	.36957	.30936	5.7934
#1	.70459	3.9808	.00220	5.8548	.14145	-.00112
#2	.70417	4.0262	.00170	5.8854	.14207	-.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1236.3	.00316	.00267	.1859	.00043	-.00507
Stddev	2.2	.00027	.00095	.0036	.00079	.00217
%RSD	.17603	8.6154	35.671	1.954	183.48	42.885
#1	1234.8	.00297	.00335	.1833	-.00013	-.00660
#2	1237.9	.00335	.00200	.1884	.00099	-.00353
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-1.0000					

Sample Name: 480-193421-B-3-E Acquired: 12/16/2021 21:14:32 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.4652	.00112	.14394	.02574	.00252	.00180
Stddev	.0603	.00014	.00009	.00554	.00051	.00000
%RSD	2.4447	12.229	.06164	21.536	20.392	.15154
#1	2.4226	.00122	.14387	.02965	.00216	.00180
#2	2.5078	.00103	.14400	.02182	.00289	.00180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03357
Stddev	.00002
%RSD	.07110
#1	.03359
#2	.03355
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193421-B-3-E Acquired: 12/16/2021 21:14:32 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3040.0	2031.0	60081.	3278.2
Stddev	1.7	3.6	290.	7.9
%RSD	.05558	.17804	.48295	.24228
#1	3038.8	2028.5	60286.	3283.8
#2	3041.2	2033.6	59875.	3272.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.943%	87.915%	82.820%	92.866%
Range				

Sample Name: CCV-6817081 Acquired: 12/16/2021 21:18:39 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0416	50.558	1.0151	1.0492	1.0223	1.0364	51.935	1.0234
Stddev	.0010	.411	.0062	.0001	.0093	.0047	.286	.0004
%RSD	.09508	.81205	.61146	.01365	.90580	.44957	.55084	.03375
#1	1.0423	50.267	1.0195	1.0493	1.0158	1.0331	51.733	1.0236
#2	1.0409	50.848	1.0107	1.0491	1.0289	1.0397	52.137	1.0232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.073	1.0259	1.0520	1.0253	51.419	52.057	1.0259	51.903
Stddev	.017	.0002	.0019	.0011	.357	.231	.0060	.019
%RSD	1.613	.01746	.18041	.11130	.69374	.44301	.58372	.03731
#1	1.060	1.0258	1.0507	1.0261	51.166	51.894	1.0216	51.917
#2	1.085	1.0260	1.0534	1.0245	51.671	52.220	1.0301	51.890
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0513	1.0354	51.147	1.0342	1.0315	25.15	1.0157	1.0216
Stddev	.0000	.0018	.465	.0009	.0031	.02	.0001	.0024
%RSD	.00320	.17642	.91008	.08316	.30143	.0843	.01067	.23922
#1	1.0513	1.0341	50.818	1.0348	1.0293	25.17	1.0156	1.0234
#2	1.0513	1.0367	51.476	1.0336	1.0337	25.14	1.0157	1.0199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/16/2021 21:18:39 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.241	1.0272	1.0276	1.0429	1.0314	1.0454	1.0809
Stddev	.096	.0013	.0079	.0020	.0003	.0022	.0073
%RSD	.93511	.12556	.77285	.19387	.02542	.20702	.67616
#1	10.174	1.0263	1.0220	1.0443	1.0312	1.0439	1.0757
#2	10.309	1.0281	1.0332	1.0414	1.0316	1.0470	1.0861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3488.9	2242.5	67450.	3363.4
Stddev	.2	.9	281.	21.9
%RSD	.00578	.03847	.41672	.65009
#1	3489.1	2241.9	67649.	3378.9
#2	3488.8	2243.1	67252.	3347.9

Sample Name: CCB-6819143 Acquired: 12/16/2021 21:22:20 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.04377	.00039	-.00026	.00009	.00004	.00749	-.00001
Stddev	.00028	.02715	.00272	.00041	.00002	.00011	.00435	.00005
%RSD	189.22	62.031	698.61	158.84	18.909	259.38	58.088	431.92
#1	.00035	.06297	.00232	-.00055	.00008	.00012	.01057	-.00004
#2	-.00005	.02457	-.00154	.00003	.00010	-.00004	.00442	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041	.00002	-.00004	.00051	.01037	.00097	-.00098	.00534
Stddev	.0033	.00004	.00003	.00010	.00461	.01360	.00030	.00011
%RSD	79.38	152.83	63.781	20.516	44.425	1394.7	30.939	1.9981
#1	.0018	-.00000	-.00006	.00043	.01363	.01059	-.00076	.00542
#2	.0065	.00005	-.00002	.00058	.00711	-.00864	-.00119	.00527
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00004	.00468	.12134	-.00003	.00056	.0002	.00044	.00754
Stddev	.00004	.00103	.00116	.00022	.00011	.0021	.00038	.00259
%RSD	98.151	22.040	.95996	676.40	20.286	1259.	88.144	34.406
#1	-.00006	.00541	.12052	-.00019	.00048	-.0013	.00071	.00571
#2	-.00001	.00395	.12217	.00012	.00065	.0017	.00016	.00938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6819143 Acquired: 12/16/2021 21:22:20 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00900	.00007	.00002	.00046	-.00038	.00002	.00054
Stddev	.00751	.00016	.00002	.00028	.00009	.00003	.00053
%RSD	83.479	226.51	115.15	60.207	22.983	155.82	97.274
#1	.01431	-.00004	.00003	.00027	-.00044	-.00000	.00091
#2	.00369	.00018	.00000	.00066	-.00032	.00004	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4095.8	2325.0	72685.	3415.9
Stddev	8.6	4.5	396.	10.6
%RSD	.20961	.19350	.54493	.31107
#1	4101.9	2328.2	72405.	3408.4
#2	4089.7	2321.9	72965.	3423.4

Sample Name: CCVL-6819272 Acquired: 12/16/2021 21:26:17 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00586	.18160	.01319	.01865	.00214	.00207	.51663	.00187
Stddev	.00019	.01086	.00059	.00018	.00002	.00010	.00311	.00024
%RSD	3.2410	5.9800	4.5021	.98586	.73516	4.9830	.60154	12.833
#1	.00600	.18928	.01361	.01878	.00212	.00214	.51882	.00170
#2	.00573	.17392	.01277	.01852	.00215	.00199	.51443	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	.00372	.00421	.01041	.04945	.48643	.02681	.19874
Stddev	.0044	.00002	.00033	.00011	.00294	.00574	.00078	.00332
%RSD	482.6	.65553	7.8311	1.0834	5.9469	1.1810	2.9054	1.6690
#1	-.0041	.00371	.00444	.01033	.04737	.48237	.02626	.20108
#2	.0022	.00374	.00397	.01049	.05153	.49049	.02737	.19639
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00313	.00886	1.0697	.00943	.00925	.1827	.02136	.02399
Stddev	.00006	.00002	.0032	.00028	.00015	.0016	.00021	.00160
%RSD	1.7883	.17092	.30200	2.9390	1.5968	.8822	.96164	6.6810
#1	.00309	.00887	1.0720	.00962	.00935	.1838	.02122	.02285
#2	.00317	.00885	1.0675	.00923	.00914	.1815	.02151	.02512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6819272 Acquired: 12/16/2021 21:26:17 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48148	.00947	.00501	.00485	.01951	.00528	.01028
Stddev	.00609	.00038	.00012	.00018	.00052	.00019	.00073
%RSD	1.2656	4.0519	2.4365	3.6628	2.6546	3.6567	7.0764
#1	.48579	.00974	.00492	.00473	.01914	.00541	.01080
#2	.47717	.00920	.00509	.00498	.01987	.00514	.00977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4070.0	2336.3	72687.	3410.5
Stddev	5.5	1.5	165.	6.6
%RSD	.13511	.06286	.22691	.19418
#1	4066.1	2335.2	72804.	3405.9
#2	4073.9	2337.3	72570.	3415.2

Sample Name: 480-193421-A-4-E Acquired: 12/16/2021 21:30:12 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.13816**	**.00393**	**.15181**	**.51816**	**.00005**
Stddev	.00040	.01327	.00111	.00032	.00305	.00009
%RSD	132.61	9.6062	28.200	.21152	.58931	179.38
#1	-.00059	.12877	.00315	.15204	.51600	.00012
#2	-.00002	.14754	.00472	.15158	.52032	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**249.36**	**.00058**	**.0012**	**.00065**	**.00039**	**.00346**
Stddev	.18	.00008	.0194	.00022	.00008	.00071
%RSD	.07162	13.884	1556.	33.651	19.519	20.564
#1	249.24	.00064	.0149	.00050	.00033	.00296
#2	249.49	.00052	-.0125	.00080	.00044	.00397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193421-A-4-E Acquired: 12/16/2021 21:30:12 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09863	4.1161	.00106	13.792	1.3629	-.00285
Stddev	.00491	.0329	.00094	.020	.0001	.00002
%RSD	4.9810	.79969	89.124	.14186	.00466	.59626
#1	.10210	4.0928	.00173	13.778	1.3629	-.00286
#2	.09515	4.1394	.00039	13.806	1.3630	-.00284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1187.6	.00213	.00141	.4667	-.00030	-.00698
Stddev	2.4	.00009	.00124	.0005	.00187	.00049
%RSD	.20436	4.0854	88.335	.0978	620.29	7.0472
#1	1185.9	.00219	.00053	.4670	.00102	-.00663
#2	1189.3	.00206	.00228	.4664	-.00162	-.00732
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	900.00					
Low Limit	-1.0000					

Sample Name: 480-193421-A-4-E Acquired: 12/16/2021 21:30:12 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.3454	.00114	.37547	.00257	.00169	.00057
Stddev	.0167	.00044	.00103	.00027	.00098	.00002
%RSD	1.2401	38.752	.27434	10.453	58.158	3.7413
#1	1.3336	.00146	.37474	.00276	.00100	.00058
#2	1.3572	.00083	.37620	.00238	.00239	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04883
Stddev	.00107
%RSD	2.1822
#1	.04958
#2	.04807
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193421-A-4-E Acquired: 12/16/2021 21:30:12 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2968.4	1990.0	59674.	3256.2
Stddev	10.2	7.3	256.	.9
%RSD	.34377	.36761	.42824	.02689
#1	2975.7	1995.2	59855.	3255.6
#2	2961.2	1984.8	59494.	3256.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.178%	86.139%	82.260%	92.243%
Range				

Sample Name: 480-193395-A-1-C Acquired: 12/16/2021 21:34:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.04620**	**-.00141**	**.07484**	**.19428**	**.00003**
Stddev	.00032	.00739	.00172	.00074	.00053	.00017
%RSD	104.42	15.990	122.15	.98493	.27359	569.32
#1	-.00053	.05142	-.00019	.07432	.19390	.00015
#2	-.00008	.04097	-.00263	.07536	.19465	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**869.88**	**.00040**	**.0325**	**.00087**	**.00055**	**.00298**
Stddev	7.16	.00014	.0054	.00010	.00024	.00024
%RSD	.82349	35.075	16.52	11.471	42.617	8.0112
#1	874.94	.00030	.0287	.00080	.00072	.00315
#2	864.81	.00050	.0363	.00094	.00039	.00281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193395-A-1-C Acquired: 12/16/2021 21:34:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00090	8.3238	.01139	18.150	.22891	.01650
Stddev	.00489	.0153	.00006	.039	.00000	.00003
%RSD	544.36	.18377	.52098	.21605	.00079	.16312
#1	-.00256	8.3129	.01143	18.178	.22892	.01648
#2	.00436	8.3346	.01135	18.122	.22891	.01652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1202.5	.00697	.00130	F 275.8	-.00011	-.01393
Stddev	3.4	.00012	.00091	.1	.00015	.00073
%RSD	.28387	1.7870	69.860	.0202	142.84	5.2166
#1	1200.1	.00705	.00195	275.8	-.00021	-.01444
#2	1204.9	.00688	.00066	275.9	.00000	-.01341
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit	900.00			90.00		
Low Limit	-1.0000			-.2000		

Sample Name: 480-193395-A-1-C Acquired: 12/16/2021 21:34:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.118**	**-.00017**	F **29.160**	**.00424**	**.00137**	**.00456**
Stddev	.012	.00051	.046	.00050	.00040	.00020
%RSD	.04615	308.52	.15837	11.886	29.375	4.4286
#1	25.110	.00020	29.127	.00460	.00108	.00470
#2	25.126	-.00053	29.192	.00388	.00165	.00442
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000			
Low Limit			-.00500			

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00224**
Stddev	.00110
%RSD	49.360
#1	.00302
#2	.00146
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193395-A-1-C Acquired: 12/16/2021 21:34:17 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2815.2**	**1885.9**	**57143.**	**3171.7**
Stddev	1.2	.6	86.	6.5
%RSD	.04220	.03310	.15072	.20455
#1	2814.3	1885.5	57204.	3167.1
#2	2816.0	1886.4	57082.	3176.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.399%	81.633%	78.770%	89.848%
Range				

Sample Name: LB 480-609105/1-C Acquired: 12/16/2021 21:38:28 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.00105	-.00261	.00333	.00048	-.00002
Stddev	.00045	.00675	.00154	.00023	.00000	.00004
%RSD	537.85	644.96	59.178	6.8616	.58719	246.73
#1	.00040	.00582	-.00370	.00349	.00048	.00001
#2	-.00024	-.00373	-.00152	.00317	.00047	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07004	.00010	-.0066	-.00001	.00014	.00069
Stddev	.00270	.00003	.0269	.00003	.00014	.00027
%RSD	3.8564	30.918	406.3	202.02	103.60	38.866
#1	.07195	.00008	.0124	.00001	.00004	.00088
#2	.06813	.00012	-.0257	-.00004	.00024	.00050
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 480-609105/1-C Acquired: 12/16/2021 21:38:28 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**-.03490**	**-.00186**	**.01016**	**-.00001**	**-.00313**
Stddev	.00300	.01991	.00015	.00304	.00001	.00001
%RSD	158.08	57.059	8.1766	29.876	93.092	.35443
#1	.00402	-.02082	-.00197	.01231	-.00000	-.00313
#2	-.00022	-.04898	-.00175	.00801	-.00002	-.00314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.35937**	**-.00010**	**.00117**	**.0236**	**-.00098**	**-.00059**
Stddev	.00407	.00011	.00008	.0024	.00009	.00083
%RSD	1.1336	105.44	6.6650	10.18	9.4658	139.74
#1	.36225	-.00018	.00122	.0219	-.00104	-.00118
#2	.35649	-.00003	.00111	.0253	-.00091	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LB 480-609105/1-C Acquired: 12/16/2021 21:38:28 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06118	.00048	.00066	.00030	.00065	.00005
Stddev	.00740	.00020	.00003	.00004	.00036	.00012
%RSD	12.089	41.631	4.7205	12.957	56.152	242.66
#1	.06641	.00062	.00069	.00027	.00091	.00013
#2	.05595	.00034	.00064	.00032	.00039	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00217
Stddev	.00009
%RSD	4.0241
#1	.00224
#2	.00211
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: LB 480-609105/1-C Acquired: 12/16/2021 21:38:28 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4097.7	2356.0	73701.	3515.0
Stddev	6.8	1.7	258.	26.4
%RSD	.16500	.07324	.35051	.75150
#1	4102.5	2357.2	73518.	3496.3
#2	4092.9	2354.8	73884.	3533.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.02%	101.98%	101.60%	99.575%
Range				

Sample Name: MB 480-609123/2-A Acquired: 12/16/2021 21:42:24 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	.01394	-.00243	-.00070	.00011	.00000
Stddev	.00023	.00201	.00260	.00001	.00000	.00000
%RSD	190.46	14.382	106.78	1.3560	2.1561	77.012
#1	.00029	.01252	-.00060	-.00071	.00011	.00000
#2	-.00004	.01536	-.00427	-.00070	.00011	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04108	-.00014	-.0081	.00003	-.00003	.00025
Stddev	.00094	.00008	.0027	.00004	.00001	.00036
%RSD	2.2977	54.900	33.85	145.51	45.903	148.37
#1	.04175	-.00019	-.0062	-.00000	-.00003	.00050
#2	.04042	-.00009	-.0100	.00005	-.00002	-.00001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-609123/2-A Acquired: 12/16/2021 21:42:24 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	-.01490	-.00166	.00189	.00009	-.00343
Stddev	.00154	.01652	.00017	.00159	.00001	.00019
%RSD	442.48	110.81	10.474	83.945	6.2532	5.4342
#1	.00143	-.02658	-.00178	.00077	.00008	-.00356
#2	-.00074	-.00323	-.00153	.00302	.00009	-.00330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10922	-.00025	-.00019	.0127	.00072	-.00057
Stddev	.00029	.00014	.00004	.0000	.00071	.00403
%RSD	.26685	54.125	23.168	.0631	98.613	711.04
#1	.10942	-.00035	-.00022	.0127	.00022	.00228
#2	.10901	-.00016	-.00016	.0127	.00122	-.00341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 480-609123/2-A Acquired: 12/16/2021 21:42:24 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02093	.00010	.00017	.00019	.00024	.00006
Stddev	.01741	.00043	.00001	.00008	.00120	.00001
%RSD	83.210	433.25	4.4214	41.309	500.96	14.561
#1	.00861	.00041	.00018	.00013	.00109	.00006
#2	.03324	-.00021	.00017	.00025	-.00061	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00441
Stddev	.00048
%RSD	10.866
#1	.00407
#2	.00474
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: MB 480-609123/2-A Acquired: 12/16/2021 21:42:24 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4078.2	2375.6	72706.	3443.1
Stddev	4.6	1.7	180.	21.0
%RSD	.11337	.07232	.24811	.61018
#1	4081.4	2374.4	72579.	3428.3
#2	4074.9	2376.8	72834.	3458.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.54%	102.83%	100.22%	97.538%
Range				

Sample Name: LCS 480-609123/3-A Acquired: 12/16/2021 21:46:19 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96854	-.00068	.91734	.00217	1.0030	1.0166
Stddev	.00165	.00617	.00492	.00030	.0003	.0023
%RSD	.16990	906.55	.53633	13.848	.02708	.22311
#1	.96970	.00368	.92082	.00196	1.0028	1.0150
#2	.96738	-.00504	.91386	.00238	1.0032	1.0182
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05319	.93623	-.0040	.90502	.98360	.95242
Stddev	.00162	.00239	.0040	.00023	.00206	.00353
%RSD	3.0439	.25488	100.4	.02556	.20942	.37027
#1	.05433	.93792	-.0069	.90485	.98505	.95491
#2	.05204	.93454	-.0012	.90518	.98214	.94992
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCS 480-609123/3-A Acquired: 12/16/2021 21:46:19 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00209	-.02420	-.00186	-.00494	1.0393	.96334
Stddev	.00272	.01201	.00061	.00010	.0025	.00001
%RSD	130.10	49.624	32.682	2.0324	.24014	.00122
#1	.00017	-.01571	-.00143	-.00501	1.0411	.96333
#2	.00401	-.03269	-.00229	-.00487	1.0375	.96335
Check ?	None	None	None	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.30503	.94668	.94302	F -.0125	.98345	.91690
Stddev	.00295	.00150	.00253	.0038	.00021	.00341
%RSD	.96564	.15852	.26827	30.58	.02146	.37144
#1	.30712	.94562	.94481	-.0152	.98360	.91931
#2	.30295	.94774	.94123	-.0098	.98331	.91450
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				1.200		
Low Limit				.8000		

Sample Name: LCS 480-609123/3-A Acquired: 12/16/2021 21:46:19 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06624	.00031	.10001	.00081	.95818	.97858
Stddev	.00404	.00116	.00033	.00010	.00182	.00218
%RSD	6.0960	372.38	.33409	12.302	.19041	.22253
#1	.06338	.00113	.09977	.00088	.95689	.98012
#2	.06909	-.00051	.10025	.00074	.95947	.97704
Check ?	None	None	None	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.99801
Stddev	.00498
%RSD	.49892
#1	1.0015
#2	.99449
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: LCS 480-609123/3-A Acquired: 12/16/2021 21:46:19 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4067.7	2400.1	72834.	3445.2
Stddev	7.4	10.0	147.	18.9
%RSD	.18214	.41680	.20228	.54860
#1	4062.5	2393.0	72730.	3458.6
#2	4073.0	2407.1	72938.	3431.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.28%	103.89%	100.40%	97.597%
Range				

Sample Name: LCSD 480-609123/4-A Acquired: 12/16/2021 21:50:07 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.97550	.03620	.92279	.00223	1.0142	1.0271
Stddev	.00280	.01523	.00314	.00016	.0002	.0038
%RSD	.28724	42.076	.34053	7.0380	.02145	.36783
#1	.97352	.02543	.92501	.00235	1.0140	1.0244
#2	.97749	.04697	.92057	.00212	1.0143	1.0297
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05408	.94091	-.0270	.90942	.99649	.96334
Stddev	.00290	.00041	.0163	.00142	.00273	.00076
%RSD	5.3593	.04352	60.25	.15657	.27418	.07855
#1	.05203	.94120	-.0155	.91043	.99456	.96281
#2	.05613	.94062	-.0385	.90841	.99843	.96388
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCSD 480-609123/4-A Acquired: 12/16/2021 21:50:07 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00332	-.02751	-.00220	-.00346	1.0512	.97617
Stddev	.00006	.00935	.00132	.00045	.0029	.00242
%RSD	1.8640	33.991	59.837	13.039	.27313	.24766
#1	.00336	-.03413	-.00127	-.00378	1.0491	.97446
#2	.00327	-.02090	-.00314	-.00314	1.0532	.97788
Check ?	None	None	None	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.29960	.95697	.94782	F -.0112	.99293	.93077
Stddev	.00232	.00141	.00094	.0007	.00047	.00192
%RSD	.77448	.14720	.09950	6.125	.04736	.20592
#1	.30124	.95797	.94848	-.0107	.99326	.93213
#2	.29796	.95598	.94715	-.0117	.99260	.92942
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				1.200		
Low Limit				.8000		

Sample Name: LCSD 480-609123/4-A Acquired: 12/16/2021 21:50:07 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04738	.00021	.10144	.00092	.96446	.98946
Stddev	.01026	.00035	.00018	.00004	.00371	.00197
%RSD	21.651	164.27	.17545	4.0709	.38484	.19867
#1	.04013	-.00003	.10131	.00089	.96709	.98807
#2	.05464	.00046	.10157	.00094	.96184	.99085
Check ?	None	None	None	None	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0040
Stddev	.0085
%RSD	.84593
#1	.99797
#2	1.0100
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: LCSD 480-609123/4-A Acquired: 12/16/2021 21:50:07 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4064.2	2402.7	72673.	3434.0
Stddev	2.8	.1	168.	19.1
%RSD	.06768	.00264	.23148	.55476
#1	4062.3	2402.7	72792.	3447.4
#2	4066.2	2402.6	72554.	3420.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.19%	104.00%	100.18%	97.279%
Range				

Sample Name: 240-161335-B-1-E Acquired: 12/16/2021 21:53:56 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.63193**	**.00462**	**.12043**	**.08515**	**.00020**
Stddev	.00058	.02307	.00040	.00046	.00014	.00000
%RSD	873.32	3.6508	8.6720	.38531	.16607	.27698
#1	-.00047	.64824	.00434	.12076	.08505	.00020
#2	.00034	.61562	.00491	.12010	.08525	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.038**	**.00021**	**-.0199**	**.00536**	**.01691**	**.01205**
Stddev	.047	.00006	.0015	.00006	.00025	.00007
%RSD	.22200	27.134	7.382	1.0577	1.4632	.58383
#1	21.005	.00017	-.0210	.00532	.01674	.01200
#2	21.071	.00025	-.0189	.00540	.01709	.01210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 240-161335-B-1-E Acquired: 12/16/2021 21:53:56 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.753**	**3.3599**	**.01149**	**8.0219**	**.84467**	**.00925**
Stddev	.041	.0131	.00142	.0039	.00008	.00080
%RSD	.37698	.39110	12.352	.04874	.00948	8.6955
#1	10.781	3.3692	.01250	8.0246	.84473	.00982
#2	10.724	3.3506	.01049	8.0191	.84462	.00868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**200.00**	**.05860**	**.00718**	**5.658**	**.00687**	**.00247**
Stddev	.30	.00013	.00013	.013	.00224	.00401
%RSD	.14804	.23029	1.8777	.2322	32.612	162.17
#1	200.21	.05850	.00708	5.649	.00529	.00531
#2	199.79	.05869	.00727	5.667	.00846	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 240-161335-B-1-E Acquired: 12/16/2021 21:53:56 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.5694	.00287	.24533	.00186	.00009	.00079
Stddev	.0148	.00025	.00091	.00012	.00032	.00019
%RSD	.94390	8.7904	.37229	6.6339	351.95	23.590
#1	1.5590	.00269	.24597	.00177	.00031	.00066
#2	1.5799	.00305	.24468	.00195	-.00013	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.09758
Stddev	.00061
%RSD	.62400
#1	.09715
#2	.09801
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 240-161335-B-1-E Acquired: 12/16/2021 21:53:56 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3514.9	2236.8	66314.	3421.3
Stddev	5.3	2.2	23.	3.4
%RSD	.15031	.09628	.03406	.09891
#1	3511.2	2235.2	66298.	3423.7
#2	3518.6	2238.3	66330.	3418.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.649%	96.820%	91.412%	96.920%
Range				

Sample Name: 240-161335-B-1-ESD@5 Acquired: 12/16/2021 21:57:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00002	.13940	-.00006	.02293	.01732	.00005
Stddev	.00019	.03342	.00214	.00023	.00002	.00006
%RSD	958.29	23.974	3486.8	1.0053	.09746	122.56
#1	-.00012	.16303	-.00157	.02276	.01731	.00001
#2	.00016	.11577	.00145	.02309	.01733	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.2109	-.00001	-.0053	.00098	.00350	.00235
Stddev	.0093	.00011	.0233	.00011	.00011	.00001
%RSD	.22190	937.74	441.5	11.632	3.0629	.23008
#1	4.2175	.00006	-.0217	.00106	.00357	.00235
#2	4.2043	-.00009	.0112	.00090	.00342	.00234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 240-161335-B-1-ESD@5 Acquired: 12/16/2021 21:57:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1353**	**.62385**	**.00014**	**1.6194**	**.16746**	**-.00054**
Stddev	.0150	.01618	.00081	.0025	.00020	.00029
%RSD	.70461	2.5929	584.63	.15458	.11983	53.819
#1	2.1247	.63529	-.00043	1.6177	.16732	-.00033
#2	2.1460	.61241	.00071	1.6212	.16761	-.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.602**	**.01126**	**.00239**	**1.099**	**.00346**	**-.00057**
Stddev	.079	.00002	.00016	.000	.00060	.00009
%RSD	.19882	.19291	6.6851	.0380	17.349	15.094
#1	39.658	.01125	.00228	1.099	.00389	-.00063
#2	39.547	.01128	.00251	1.099	.00304	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 240-161335-B-1-ESD@5 Acquired: 12/16/2021 21:57:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.32274	.00037	.04912	.00011	.00059	.00022
Stddev	.00003	.00009	.00015	.00004	.00019	.00007
%RSD	.00794	23.398	.30122	34.943	31.874	29.373
#1	.32272	.00043	.04922	.00014	.00072	.00018
#2	.32276	.00031	.04901	.00009	.00046	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01879
Stddev	.00068
%RSD	3.5992
#1	.01926
#2	.01831
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 240-161335-B-1-ESD@5 Acquired: 12/16/2021 21:57:52 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3819.2**	**2334.1**	**69996.**	**3434.5**
Stddev	3.5	9.3	50.	5.3
%RSD	.09172	.40049	.07117	.15562
#1	3816.8	2327.5	69961.	3430.7
#2	3821.7	2340.7	70031.	3438.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.152%	101.03%	96.488%	97.294%
Range				

Sample Name: 240-161335-B-1-EPDS Acquired: 12/16/2021 22:01:45 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0105	.64394	.99390	.11860	1.0939	1.0467
Stddev	.0007	.02420	.00230	.00050	.0008	.0033
%RSD	.06688	3.7587	.23125	.41937	.07430	.31820
#1	1.0100	.66105	.99553	.11825	1.0933	1.0443
#2	1.0109	.62682	.99228	.11896	1.0945	1.0490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.884	.97820	-.0285	.97007	1.0311	.99944
Stddev	.046	.00303	.0263	.00002	.0007	.00189
%RSD	.22190	.31002	92.45	.00196	.07120	.18960
#1	20.851	.98034	-.0099	.97006	1.0306	.99810
#2	20.917	.97605	-.0471	.97009	1.0317	1.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 240-161335-B-1-EPDS Acquired: 12/16/2021 22:01:45 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.670**	**3.3538**	**.01148**	**7.9376**	**1.8877**	**.98485**
Stddev	.002	.0249	.00005	.0063	.0004	.00045
%RSD	.02156	.74131	.47649	.08004	.02004	.04592
#1	10.669	3.3362	.01152	7.9421	1.8874	.98517
#2	10.672	3.3714	.01144	7.9331	1.8880	.98453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**199.19**	**1.0699**	**.98418**	**5.566**	**1.0337**	**1.0202**
Stddev	.94	.0019	.00227	.018	.0044	.0034
%RSD	.47015	.17807	.23083	.3331	.42971	.33334
#1	198.52	1.0685	.98257	5.579	1.0368	1.0226
#2	199.85	1.0712	.98578	5.553	1.0306	1.0178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 240-161335-B-1-EPDS Acquired: 12/16/2021 22:01:45 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.5900	.00163	.24503	.00267	.96695	1.0312
Stddev	.0148	.00087	.00040	.00010	.00309	.0004
%RSD	.93045	53.680	.16429	3.8117	.31994	.04057
#1	1.5796	.00101	.24475	.00260	.96914	1.0309
#2	1.6005	.00224	.24532	.00274	.96476	1.0315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.1447
Stddev	.0056
%RSD	.48499
#1	1.1486
#2	1.1407
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 240-161335-B-1-EPDS Acquired: 12/16/2021 22:01:45 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3504.2	2243.7	66262.	3446.7
Stddev	1.4	6.5	217.	1.8
%RSD	.03902	.29099	.32733	.05271
#1	3503.3	2239.1	66416.	3447.9
#2	3505.2	2248.4	66109.	3445.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.387%	97.122%	91.341%	97.638%
Range				

Sample Name: CCV-6817081 Acquired: 12/16/2021 22:05:39 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0439	50.065	.94558	1.0041	1.0151	1.0549	51.843	.97323
Stddev	.0035	.239	.00249	.0038	.0030	.0055	.338	.00163
%RSD	.33711	.47693	.26305	.38292	.29831	.51653	.65245	.16774
#1	1.0464	50.234	.94382	1.0013	1.0172	1.0588	52.083	.97208
#2	1.0415	49.896	.94734	1.0068	1.0130	1.0511	51.604	.97439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.086	1.0159	1.0492	1.0362	52.023	53.169	1.0315	52.159
Stddev	.007	.0003	.0021	.0023	.301	.204	.0043	.131
%RSD	.6097	.03024	.19601	.22293	.57831	.38333	.41209	.25169
#1	1.082	1.0161	1.0506	1.0379	52.236	53.313	1.0345	52.251
#2	1.091	1.0157	1.0477	1.0346	51.810	53.025	1.0285	52.066
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0779	.97041	52.345	1.0610	1.0106	23.34	.97637	1.0011
Stddev	.0027	.00330	.219	.0007	.0029	.03	.00303	.0069
%RSD	.24684	.33969	.41899	.06206	.28158	.1331	.31007	.69316
#1	1.0798	.96807	52.500	1.0614	1.0126	23.32	.97423	.99622
#2	1.0760	.97274	52.190	1.0605	1.0086	23.37	.97851	1.0060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/16/2021 22:05:39 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.214	1.0132	1.0474	1.0599	1.0010	1.0565	1.0680
Stddev	.004	.0030	.0034	.0033	.0032	.0024	.0014
%RSD	.04234	.29165	.32892	.31196	.31880	.22587	.12994
#1	10.211	1.0153	1.0498	1.0623	1.0033	1.0581	1.0690
#2	10.217	1.0112	1.0450	1.0576	.99876	1.0548	1.0670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3489.6	2338.3	67280.	3366.2
Stddev	.5	4.5	235.	20.0
%RSD	.01411	.19395	.34936	.59281
#1	3489.3	2341.5	67113.	3352.1
#2	3490.0	2335.1	67446.	3380.3

Sample Name: CCB-6819143 Acquired: 12/16/2021 22:09:20 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	.02515	.00176	-.00032	.00009	.00004	.00781	-.00002
Stddev	.00032	.00978	.00165	.00012	.00002	.00000	.00036	.00008
%RSD	492.30	38.874	93.230	35.820	18.620	9.7441	4.6306	368.86
#1	-.00016	.01824	.00293	-.00040	.00008	.00004	.00806	.00003
#2	.00029	.03207	.00060	-.00024	.00011	.00004	.00755	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0058	-.00002	.00002	.00010	.00454	-.00837	-.00190	.00216
Stddev	.0052	.00010	.00028	.00022	.00427	.01049	.00088	.00232
%RSD	90.06	414.99	1240.1	225.70	94.044	125.26	46.123	107.11
#1	-.0021	.00004	-.00018	.00025	.00755	-.01579	-.00252	.00380
#2	-.0095	-.00009	.00022	-.00006	.00152	-.00096	-.00128	.00052
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00006	.00513	.07363	-.00020	.00071	.0021	.00190	.00495
Stddev	.00002	.00106	.00166	.00001	.00041	.0003	.00009	.00048
%RSD	32.873	20.775	2.2571	5.9186	57.237	13.93	4.9211	9.7301
#1	-.00007	.00588	.07481	-.00019	.00043	.0023	.00197	.00529
#2	-.00005	.00437	.07246	-.00021	.00100	.0019	.00183	.00461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6819143 Acquired: 12/16/2021 22:09:20 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00780	.00059	.00005	.00046	.00010	-.00008	.00031
Stddev	.01445	.00005	.00001	.00003	.00007	.00002	.00003
%RSD	185.28	8.6926	14.181	7.2202	70.920	19.831	9.7847
#1	-.00242	.00062	.00005	.00048	.00005	-.00007	.00033
#2	.01802	.00055	.00006	.00043	.00015	-.00010	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4099.5	2440.8	72072.	3381.5
Stddev	4.2	.2	490.	4.2
%RSD	.10262	.00711	.67923	.12547
#1	4096.5	2441.0	72418.	3384.5
#2	4102.5	2440.7	71726.	3378.5

Sample Name: CCVL-6819272 Acquired: 12/16/2021 22:13:16 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00619	.21860	.01230	.01790	.00214	.00204	.51711	.00184
Stddev	.00005	.02190	.00064	.00011	.00000	.00006	.00611	.00003
%RSD	.76628	10.019	5.1806	.64165	.16299	3.0853	1.1821	1.4652
#1	.00622	.20311	.01185	.01798	.00214	.00209	.52144	.00185
#2	.00615	.23409	.01275	.01782	.00214	.00200	.51279	.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0098	.00368	.00418	.01062	.05285	.46593	.02775	.19740
Stddev	.0011	.00007	.00025	.00032	.00001	.01707	.00057	.00070
%RSD	11.19	1.9725	6.0868	3.0380	.02269	3.6637	2.0564	.35597
#1	-.0106	.00373	.00400	.01084	.05284	.47800	.02816	.19790
#2	-.0091	.00363	.00436	.01039	.05286	.45385	.02735	.19690
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00324	.00826	1.0839	.00972	.00932	.1680	.01868	.02372
Stddev	.00001	.00007	.0027	.00004	.00078	.0002	.00068	.00248
%RSD	.23171	.86564	.25295	.43003	8.4064	.1280	3.6326	10.475
#1	.00325	.00821	1.0820	.00969	.00987	.1679	.01820	.02196
#2	.00324	.00831	1.0859	.00975	.00876	.1682	.01916	.02548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6819272 Acquired: 12/16/2021 22:13:16 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.45406	.00902	.00511	.00499	.01898	.00519	.00975
Stddev	.01611	.00048	.00001	.00027	.00142	.00025	.00086
%RSD	3.5472	5.3049	.19676	5.4334	7.4731	4.8753	8.7779
#1	.46545	.00936	.00512	.00518	.01798	.00501	.01035
#2	.44267	.00868	.00510	.00480	.01998	.00536	.00914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4071.5	2436.6	71807.	3405.0
Stddev	5.9	.6	59.	5.8
%RSD	.14388	.02510	.08217	.16939
#1	4067.3	2437.1	71849.	3400.9
#2	4075.6	2436.2	71765.	3409.1

Sample Name: 480-193163-I-1-B Acquired: 12/16/2021 22:17:11 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	.01043	.00190	.14470	.15635	.00001
Stddev	.00007	.01640	.00071	.00027	.00111	.00004
%RSD	132.44	157.25	37.360	.18881	.71102	473.07
#1	.00000	.02203	.00140	.14490	.15557	.00004
#2	.00010	-.00117	.00241	.14451	.15714	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273
Line	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}	267.716 {126}	327.396 {103}
IS Ref	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	87.351	.00016	.0031	.00026	.00146	.01946
Stddev	.059	.00005	.0225	.00004	.00006	.00000
%RSD	.06781	31.933	719.9	16.467	4.2258	.01476
#1	87.309	.00019	.0190	.00029	.00142	.01946
#2	87.393	.00012	-.0128	.00023	.00151	.01947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193163-I-1-B Acquired: 12/16/2021 22:17:11 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Line	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}3	202.030 {467}
IS Ref	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08490	2.1764	.00190	27.752	.01242	.00001
Stddev	.00187	.0251	.00087	.112	.00001	.00002
%RSD	2.2034	1.1522	45.596	.40318	.07988	213.09
#1	.08358	2.1586	.00252	27.673	.01241	.00002
#2	.08622	2.1941	.00129	27.831	.01243	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	66.891	.00155	.00349	10.65	.00226	-.00546
Stddev	.004	.00012	.00018	.04	.00028	.00118
%RSD	.00555	7.7449	5.2915	.3481	12.467	21.575
#1	66.888	.00164	.00362	10.62	.00246	-.00629
#2	66.894	.00147	.00336	10.68	.00206	-.00463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 480-193163-I-1-B Acquired: 12/16/2021 22:17:11 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.9601**	**.01217**	**.21046**	**.00073**	**.00192**	**-.00009**
Stddev	.0054	.00002	.00096	.00010	.00051	.00012
%RSD	.10872	.19682	.45494	13.749	26.688	129.56
#1	4.9639	.01219	.20978	.00080	.00229	-.00001
#2	4.9563	.01216	.21114	.00066	.00156	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01308**
Stddev	.00090
%RSD	6.8559
#1	.01245
#2	.01371
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 480-193163-I-1-B Acquired: 12/16/2021 22:17:11 Type: Unk
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3602.4	2294.7	67662.	3417.9
Stddev	8.2	1.2	446.	6.0
%RSD	.22887	.05073	.65982	.17560
#1	3596.6	2293.8	67978.	3422.1
#2	3608.2	2295.5	67346.	3413.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.806%	99.326%	93.271%	96.824%
Range				

Sample Name: CCVL-6819272 Acquired: 12/16/2021 22:21:05 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	sF .00045	F .03804	sF .00024	sF -.00132	sF .00002	kF -.00007	F .01054
Stddev	.00010	.04550	.00163	.00083	.00001	.00002	.00453
%RSD	22.881	119.61	684.59	62.800	43.722	26.340	42.973
#1	.00053	.00587	s .00139	s -.00073	.00001	-.00008	.00733
#2	s .00038	.07022	s -.00092	s -.00191	s .00002	k -.00006	.01374
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.00600	.20000	.01500	.02000	.00200	.00200	.50000
Range	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	sF -.00021	-.0028	sF .00003	sF -.00000	sF -.00021	F .00260	F -.05519
Stddev	.00000	.0095	.00003	.00001	.00004	.00126	.00954
%RSD	1.3141	341.5	80.713	326.04	21.453	48.522	17.278
#1	s -.00021	-.0095	s .00001	-.00001	-.00017	.00171	-.06193
#2	s -.00020	.0039	k .00005	s .00001	s -.00024	.00349	-.04845
Check ?	Chk Fail	None	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.00200		.00400	.00400	.01000	.05000	.50000
Range	-50.000%		-50.000%	-50.000%	-50.000%	-50.000%	-50.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.00210	sF .00539	sF -.00020	sF -.00305	F .02098	sF -.00088	sF .00053
Stddev	.00017	.00049	.00003	.00052	.01569	.00008	.00057
%RSD	8.2836	9.1516	14.465	17.194	74.756	9.1067	106.78
#1	-.00222	.00574	-.00022	s -.00268	.00989	s -.00082	s .00093
#2	-.00198	s .00504	s -.00018	s -.00342	.03207	-.00094	k .00013
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.03000	.20000	.00300	.01000	1.0000	.01000	.01000
Range	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%

Sample Name: CCVL-6819272 Acquired: 12/16/2021 22:21:05 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	sF -.0165	sF .00010	sF -.00002	F .08860	sF -.00007	F .00003	sF .00083
Stddev	.0042	.00052	.00268	.11473	.00020	.00005	.00031
%RSD	25.53	546.77	11337.	129.49	303.90	174.79	36.862
#1	s -.0195	s .00047	s -.00192	.00747	s .00008	-.00001	.00104
#2	s -.0135	s -.00027	s .00187	.16972	-.00021	.00006	s .00061
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.2000	.02000	.02500	.50000	.01000	.00500	.00500
Range	-50.00%	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%	-50.000%

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	sF .00031	sF .00023	sF -.00016
Stddev	.00008	.00017	.00017
%RSD	25.783	73.311	109.39
#1	s .00025	k .00036	-.00028
#2	k .00037	s .00011	s -.00004
Check ?	Chk Fail	Chk Fail	Chk Fail
Value	.02000	.00500	.01000
Range	-50.000%	-50.000%	-50.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	^ *****	^ *****	^ *****	7905.9
Stddev	-----	-----	-----	3652.3
%RSD	-----	-----	-----	46.197
#1	^ -----	^ -----	189520.	10488.
#2	11031.	^ -----	^ -----	5323.3

Sample Name: CCV-6817081 Acquired: 12/16/2021 22:25:00 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0439	50.468	.92562	.99411	1.0216	1.0667	51.997	.96165
Stddev	.0028	.145	.00555	.00109	.0015	.0008	.012	.00024
%RSD	.26611	.28712	.59931	.10989	.14998	.07002	.02330	.02459
#1	1.0419	50.366	.92169	.99488	1.0205	1.0661	51.988	.96182
#2	1.0458	50.570	.92954	.99334	1.0227	1.0672	52.005	.96148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.110	1.0110	1.0575	1.0395	52.645	53.670	1.0333	51.951
Stddev	.004	.0001	.0023	.0036	.007	.100	.0010	.163
%RSD	.3258	.00500	.21593	.34652	.01268	.18585	.10086	.31402
#1	1.107	1.0110	1.0559	1.0369	52.650	53.741	1.0340	51.836
#2	1.112	1.0109	1.0591	1.0420	52.640	53.600	1.0325	52.066
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0791	.94580	53.206	1.0657	1.0043	22.93	.96615	.98638
Stddev	.0036	.00282	.067	.0031	.0010	.01	.00032	.00416
%RSD	.33416	.29800	.12540	.29237	.10504	.0448	.03277	.42206
#1	1.0766	.94380	53.159	1.0635	1.0051	22.92	.96638	.98932
#2	1.0817	.94779	53.254	1.0679	1.0036	22.94	.96593	.98344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6817081 Acquired: 12/16/2021 22:25:00 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.226	1.0066	1.0601	1.0653	.99021	1.0618	1.0669
Stddev	.038	.0010	.0003	.0035	.00117	.0018	.0009
%RSD	.37460	.09741	.02820	.32463	.11831	.16758	.08444
#1	10.253	1.0059	1.0599	1.0628	.99104	1.0605	1.0663
#2	10.199	1.0073	1.0604	1.0677	.98938	1.0630	1.0675
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3499.0	2368.3	67191.	3346.9
Stddev	6.2	6.0	342.	7.6
%RSD	.17720	.25366	.50967	.22645
#1	3494.6	2364.0	67434.	3341.6
#2	3503.4	2372.5	66949.	3352.3

Sample Name: CCB-6819143 Acquired: 12/16/2021 22:28:41 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.02173**	**-.00038**	**-.00029**	**.00007**	**.00000**	**.00954**	**.00002**
Stddev	.00029	.01850	.00045	.00004	.00000	.00003	.00101	.00005
%RSD	216.32	85.142	116.59	12.658	5.0394	1089.5	10.580	227.86
#1	-.00033	.00865	-.00007	-.00027	.00008	.00003	.01025	-.00001
#2	.00007	.03482	-.00070	-.00032	.00007	-.00002	.00883	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0106**	**.00005**	**.00010**	**.00027**	**.01158**	**-.04134**	**-.00139**	**.00169**
Stddev	.0237	.00000	.00010	.00018	.00153	.01490	.00056	.00265
%RSD	223.6	1.7141	105.63	66.601	13.225	36.050	40.687	156.35
#1	-.0274	.00005	.00002	.00039	.01267	-.03080	-.00099	.00356
#2	.0062	.00005	.00017	.00014	.01050	-.05188	-.00179	-.00018
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00344**	**.05287**	**-.00026**	**.00052**	**-.0005**	**.00046**	**.00413**
Stddev	.00004	.00090	.00320	.00014	.00024	.0027	.00042	.00055
%RSD	50.214	26.101	6.0539	56.155	45.450	576.3	92.818	13.375
#1	-.00005	.00407	.05061	-.00036	.00069	-.0024	.00016	.00374
#2	-.00010	.00280	.05513	-.00015	.00035	.0014	.00076	.00452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6819143 Acquired: 12/16/2021 22:28:41 Type: QC
Method: ICAP1 New Stds (v404) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00047	.00024	.00002	.00061	.00041	.00009	.00027
Stddev	.01329	.00039	.00000	.00010	.00091	.00015	.00018
%RSD	2843.6	163.56	.43959	16.285	223.34	168.09	66.344
#1	-.00986	-.00004	.00002	.00054	-.00024	-.00002	.00014
#2	.00893	.00051	.00002	.00068	.00105	.00019	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4092.4	2457.6	72229.	3384.4
Stddev	1.0	2.1	265.	.5
%RSD	.02426	.08728	.36629	.01491
#1	4091.7	2456.1	72042.	3384.8
#2	4093.1	2459.1	72416.	3384.1

Run File: I2121721A

Instrument: ICAP2

Analyst: ADM

Data Review: AMH 12/20/21

Spikes Ids:6639940(W1), 6639959(W2),6639939(Sn), 6742802(Ag),6742856(Si), 6370646(TCLP), 6742882(S)
Pipette IDs: 10/6/21-(1-11)
Internal Standard:6819144

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I2121721A	ICIS-6819143	12/17/2021 11:21:50AM	Standard
2	I2121721A	IC-6819272	12/17/2021 11:25:51AM	Standard
3	I2121721A	IC-6817081	12/17/2021 11:29:40AM	Standard
4	I2121721A	IC-6797476	12/17/2021 11:33:13AM	Standard
5	I2121721A	ICV-6817392	12/17/2021 11:36:46AM	QC
6	I2121721A	ICB-6819143	12/17/2021 11:40:21AM	QC
7	I2121721A	ICVL-6819272	12/17/2021 11:44:09AM	QC
8	I2121721A	ICSA-6812501	12/17/2021 11:47:56AM	QC
9	I2121721A	ICSAB-6743474	12/17/2021 11:51:47AM	QC
10	I2121721A	ICEX1	12/17/2021 11:55:30AM	Unknown
11	I2121721A	ICEX2	12/17/2021 11:59:22AM	Unknown
12	I2121721A	ICEX3	12/17/2021 12:03:11PM	Unknown
13	I2121721A	ICEX4	12/17/2021 12:07:02PM	Unknown
14	I2121721A	ICEX5	12/17/2021 12:10:46PM	Unknown
15	I2121721A	CCV-6817081	12/17/2021 12:14:34PM	QC
16	I2121721A	CCB-6819143	12/17/2021 12:18:06PM	QC
17	I2121721A	CCVL-6819272	12/17/2021 12:34:34PM	QC
18	I2121721A	MB 480-609016/1-A	12/17/2021 12:38:20PM	Unknown
19	I2121721A	LCS 480-609016/2-A	12/17/2021 12:42:07PM	Unknown
20	I2121721A	480-193436-D-2-A	12/17/2021 12:45:42PM	Unknown
21	I2121721A	480-193436-D-3-A	12/17/2021 12:49:27PM	Unknown
22	I2121721A	480-193436-D-3-ASD@5	12/17/2021 12:53:11PM	Unknown
23	I2121721A	480-193436-D-3-APDS	12/17/2021 12:56:57PM	Unknown
24	I2121721A	480-193436-D-3-B MS	12/17/2021 1:00:31PM	Unknown
25	I2121721A	480-193436-D-3-C MSD	12/17/2021 1:04:05PM	Unknown
26	I2121721A	480-193436-D-4-A	12/17/2021 1:07:40PM	Unknown
27	I2121721A	CCV-6817081	12/17/2021 1:11:32PM	QC
28	I2121721A	CCB-6819143	12/17/2021 1:15:05PM	QC
29	I2121721A	CCVL-6819272	12/17/2021 1:18:54PM	QC
30	I2121721A	480-193436-D-5-A	12/17/2021 1:22:41PM	Unknown
31	I2121721A	480-193422-E-5-A@5	12/17/2021 1:26:31PM	Unknown
32	I2121721A	480-193422-E-6-A@5	12/17/2021 1:30:21PM	Unknown
33	I2121721A	MB 480-608407/1-A	12/17/2021 1:34:23PM	Unknown
34	I2121721A	LCS 480-608407/2-A	12/17/2021 1:38:10PM	Unknown
35	I2121721A	480-193300-A-1-A	12/17/2021 1:41:44PM	Unknown
36	I2121721A	480-193300-A-2-A	12/17/2021 1:45:28PM	Unknown
37	I2121721A	480-193300-A-3-A	12/17/2021 1:49:12PM	Unknown
38	I2121721A	480-193300-A-4-A	12/17/2021 1:52:54PM	Unknown
39	I2121721A	CCV-6817081	12/17/2021 1:56:38PM	QC
40	I2121721A	CCB-6819143	12/17/2021 2:00:10PM	QC
41	I2121721A	CCVL-6819272	12/17/2021 2:03:59PM	QC
42	I2121721A	480-193300-A-5-A	12/17/2021 2:07:47PM	Unknown

43	I2121721A	480-193300-A-6-A	12/17/2021	2:11:30PM	Unknown
44	I2121721A	480-193300-A-6-ASD@5	12/17/2021	2:15:15PM	Unknown
45	I2121721A	480-193300-A-6-APDS	12/17/2021	2:18:57PM	Unknown
46	I2121721A	480-193300-A-6-B MS	12/17/2021	2:22:36PM	Unknown
47	I2121721A	480-193300-A-6-C MSD	12/17/2021	2:26:15PM	Unknown
48	I2121721A	480-193300-A-7-A	12/17/2021	2:29:54PM	Unknown
49	I2121721A	480-193300-A-9-A	12/17/2021	2:33:35PM	Unknown
50	I2121721A	480-193300-A-10-A	12/17/2021	2:37:14PM	Unknown
51	I2121721A	CCV-6817081	12/17/2021	2:40:58PM	QC
52	I2121721A	CCB-6819143	12/17/2021	2:44:31PM	QC
53	I2121721A	CCVL-6819272	12/17/2021	2:48:20PM	QC
54	I2121721A	480-193300-A-11-A	12/17/2021	2:52:07PM	Unknown
55	I2121721A	480-193300-A-12-A	12/17/2021	2:55:54PM	Unknown
56	I2121721A	480-193301-D-1-A@5	12/17/2021	2:59:35PM	Unknown
57	I2121721A	480-193301-D-2-A	12/17/2021	3:03:24PM	Unknown
58	I2121721A	480-193301-D-3-A@5	12/17/2021	3:07:06PM	Unknown
59	I2121721A	480-193301-D-4-A@5	12/17/2021	3:10:55PM	Unknown
60	I2121721A	480-193163-I-1-B	12/17/2021	3:14:42PM	Unknown
61	I2121721A	480-193444-C-5-A@5	12/17/2021	3:18:25PM	Unknown
62	I2121721A	480-193444-C-6-A@5	12/17/2021	3:22:16PM	Unknown
63	I2121721A	CCV-6817081	12/17/2021	3:26:08PM	QC
64	I2121721A	CCB-6819143	12/17/2021	3:29:41PM	QC
65	I2121721A	CCVL-6819272	12/17/2021	3:33:29PM	QC
66	I2121721A	MB 480-608410/1-A	12/17/2021	3:37:16PM	Unknown
67	I2121721A	LCS 480-608410/2-A	12/17/2021	3:41:03PM	Unknown
68	I2121721A	480-193293-B-1-A	12/17/2021	3:44:37PM	Unknown
69	I2121721A	480-193293-B-1-ASD@5	12/17/2021	3:48:21PM	Unknown
70	I2121721A	480-193293-B-1-APDS	12/17/2021	3:52:05PM	Unknown
71	I2121721A	480-193293-B-1-B MS	12/17/2021	3:55:39PM	Unknown
72	I2121721A	480-193293-B-1-C MSD	12/17/2021	3:59:13PM	Unknown
73	I2121721A	480-193293-B-2-A	12/17/2021	4:02:48PM	Unknown
74	I2121721A	480-193293-B-3-A	12/17/2021	4:06:33PM	Unknown
75	I2121721A	CCV-6817081	12/17/2021	4:10:25PM	QC
76	I2121721A	CCB-6819143	12/17/2021	4:13:58PM	QC
77	I2121721A	CCVL-6819272	12/17/2021	4:17:48PM	QC
78	I2121721A	480-193293-B-4-A	12/17/2021	4:21:35PM	Unknown
79	I2121721A	480-193293-B-5-A	12/17/2021	4:25:17PM	Unknown
80	I2121721A	480-193293-B-6-A	12/17/2021	4:29:02PM	Unknown
81	I2121721A	480-193293-B-7-A	12/17/2021	4:32:46PM	Unknown
82	I2121721A	480-193293-B-8-A	12/17/2021	4:36:30PM	Unknown
83	I2121721A	480-193293-B-9-A	12/17/2021	4:40:19PM	Unknown
84	I2121721A	480-193293-B-10-A	12/17/2021	4:44:02PM	Unknown
85	I2121721A	480-193293-B-11-A	12/17/2021	4:47:50PM	Unknown
86	I2121721A	480-193293-B-12-A	12/17/2021	4:51:34PM	Unknown
87	I2121721A	CCV-6817081	12/17/2021	4:55:28PM	QC
88	I2121721A	CCB-6819143	12/17/2021	4:59:00PM	QC
89	I2121721A	CCVL-6819272	12/17/2021	5:02:52PM	QC
90	I2121721A	480-193293-B-13-A	12/17/2021	5:06:40PM	Unknown
91	I2121721A	MB 480-609180/1-A	12/17/2021	5:10:24PM	Unknown
92	I2121721A	LCS 480-609180/2-A	12/17/2021	5:14:12PM	Unknown
93	I2121721A	480-193467-C-1-A	12/17/2021	5:17:47PM	Unknown
94	I2121721A	480-193467-C-1-ASD@5	12/17/2021	5:21:33PM	Unknown

95	I2121721A	480-193467-C-1-APDS	12/17/2021	5:25:20PM	Unknown
96	I2121721A	480-193467-C-1-B MS	12/17/2021	5:28:55PM	Unknown
97	I2121721A	480-193467-C-1-C MSD	12/17/2021	5:32:30PM	Unknown
98	I2121721A	480-193467-C-2-A	12/17/2021	5:36:05PM	Unknown
99	I2121721A	CCV-6817081	12/17/2021	5:39:54PM	QC
100	I2121721A	CCB-6819143	12/17/2021	5:43:25PM	QC
101	I2121721A	CCVL-6819272	12/17/2021	5:47:16PM	QC
102	I2121721A	480-193467-C-3-A	12/17/2021	5:51:03PM	Unknown
103	I2121721A	480-193467-C-4-A	12/17/2021	5:54:47PM	Unknown
104	I2121721A	480-193467-C-5-A	12/17/2021	5:58:30PM	Unknown
105	I2121721A	480-193467-C-5-B MS	12/17/2021	6:02:14PM	Unknown
106	I2121721A	480-193467-C-5-C MSD	12/17/2021	6:05:49PM	Unknown
107	I2121721A	480-193467-C-6-A	12/17/2021	6:09:24PM	Unknown
108	I2121721A	480-193467-C-7-A	12/17/2021	6:13:19PM	Unknown
109	I2121721A	480-193466-D-1-A	12/17/2021	6:17:08PM	Unknown
110	I2121721A	480-193464-A-1-A	12/17/2021	6:20:52PM	Unknown
111	I2121721A	CCV-6817081	12/17/2021	6:24:34PM	QC
112	I2121721A	CCB-6819143	12/17/2021	6:28:07PM	QC
113	I2121721A	CCVL-6819272	12/17/2021	6:31:57PM	QC
114	I2121721A	480-193464-A-2-A	12/17/2021	6:35:44PM	Unknown
115	I2121721A	480-193484-B-1-A	12/17/2021	6:39:29PM	Unknown
116	I2121721A	480-193488-B-1-A	12/17/2021	6:43:14PM	Unknown
117	I2121721A	480-193486-D-1-A	12/17/2021	6:46:58PM	Unknown
118	I2121721A	480-193490-D-1-A	12/17/2021	6:50:46PM	Unknown
119	I2121721A	480-193449-G-1-A	12/17/2021	6:54:29PM	Unknown
120	I2121721A	480-193470-B-1-A	12/17/2021	6:58:16PM	Unknown
121	I2121721A	MB 480-609172/1-A	12/17/2021	7:02:03PM	Unknown
122	I2121721A	LCS 480-609172/2-A	12/17/2021	7:05:50PM	Unknown
123	I2121721A	CCV-6817081	12/17/2021	7:09:26PM	QC
124	I2121721A	CCB-6819143	12/17/2021	7:13:00PM	QC
125	I2121721A	CCVL-6819272	12/17/2021	7:16:49PM	QC
126	I2121721A	480-193455-C-1-A	12/17/2021	7:20:37PM	Unknown
127	I2121721A	480-193455-C-3-A	12/17/2021	7:24:20PM	Unknown
128	I2121721A	480-193455-C-5-A	12/17/2021	7:28:05PM	Unknown
129	I2121721A	480-193455-C-5-ASD@5	12/17/2021	7:31:49PM	Unknown
130	I2121721A	480-193455-C-5-APDS	12/17/2021	7:35:34PM	Unknown
131	I2121721A	480-193455-C-5-B MS	12/17/2021	7:39:08PM	Unknown
132	I2121721A	480-193455-C-5-C MSD	12/17/2021	7:42:43PM	Unknown
133	I2121721A	480-193455-C-7-A	12/17/2021	7:46:17PM	Unknown
134	I2121721A	480-193455-C-9-A	12/17/2021	7:49:59PM	Unknown
135	I2121721A	CCV-6817081	12/17/2021	7:53:43PM	QC
136	I2121721A	CCB-6819143	12/17/2021	7:57:16PM	QC
137	I2121721A	CCVL-6819272	12/17/2021	8:01:05PM	QC
138	I2121721A	480-193460-M-1-A	12/17/2021	8:04:52PM	Unknown
139	I2121721A	480-193460-M-2-A	12/17/2021	8:08:36PM	Unknown
140	I2121721A	480-193481-E-1-A	12/17/2021	8:12:20PM	Unknown
141	I2121721A	480-193482-E-1-A	12/17/2021	8:16:03PM	Unknown
142	I2121721A	480-193482-E-2-A	12/17/2021	8:19:59PM	Unknown
143	I2121721A	480-193482-E-3-A	12/17/2021	8:23:55PM	Unknown
144	I2121721A	480-193482-E-4-A	12/17/2021	8:27:49PM	Unknown
145	I2121721A	480-193482-E-5-A	12/17/2021	8:31:42PM	Unknown
146	I2121721A	480-193482-E-6-A	12/17/2021	8:35:38PM	Unknown

147	I2121721A	CCV-6817081	12/17/2021	8:39:28PM	QC
148	I2121721A	CCB-6819143	12/17/2021	8:43:01PM	QC
149	I2121721A	CCVL-6819272	12/17/2021	8:46:49PM	QC
150	I2121721A	480-193482-E-7-A	12/17/2021	8:50:36PM	Unknown
151	I2121721A	480-193482-E-8-A	12/17/2021	8:54:32PM	Unknown
152	I2121721A	480-193482-E-9-A	12/17/2021	8:58:22PM	Unknown
153	I2121721A	MB 480-608622/1-A	12/17/2021	9:02:12PM	Unknown
154	I2121721A	LCS 480-608622/2-A	12/17/2021	9:05:59PM	Unknown
155	I2121721A	480-193330-D-1-A	12/17/2021	9:09:34PM	Unknown
156	I2121721A	480-193330-D-1-ASD@5	12/17/2021	9:13:18PM	Unknown
157	I2121721A	480-193330-D-1-APDS	12/17/2021	9:17:03PM	Unknown
158	I2121721A	480-193330-D-1-B MS	12/17/2021	9:20:37PM	Unknown
159	I2121721A	CCV-6817081	12/17/2021	9:24:15PM	QC
160	I2121721A	CCB-6819143	12/17/2021	9:27:48PM	QC
161	I2121721A	CCVL-6819272	12/17/2021	9:31:38PM	QC
162	I2121721A	480-193330-D-1-C MSD	12/17/2021	9:35:26PM	Unknown
163	I2121721A	480-193330-D-2-A	12/17/2021	9:39:01PM	Unknown
164	I2121721A	480-193330-D-3-A	12/17/2021	9:42:46PM	Unknown
165	I2121721A	480-193330-D-4-A	12/17/2021	9:46:34PM	Unknown
166	I2121721A	480-193330-D-5-A	12/17/2021	9:50:17PM	Unknown
167	I2121721A	480-193330-D-6-A	12/17/2021	9:53:59PM	Unknown
168	I2121721A	480-193403-C-2-A	12/17/2021	9:57:42PM	Unknown
169	I2121721A	480-193403-C-3-A	12/17/2021	10:01:24PM	Unknown
170	I2121721A	480-193403-C-4-A	12/17/2021	10:05:06PM	Unknown
171	I2121721A	CCV-6817081	12/17/2021	10:08:55PM	QC
172	I2121721A	CCB-6819143	12/17/2021	10:12:28PM	QC
173	I2121721A	CCVL-6819272	12/17/2021	10:16:17PM	QC
174	I2121721A	480-193403-C-5-A	12/17/2021	10:20:05PM	Unknown
175	I2121721A	480-193403-C-6-A	12/17/2021	10:23:48PM	Unknown
176	I2121721A	480-193403-C-7-A	12/17/2021	10:27:31PM	Unknown
177	I2121721A	MB 480-608421/1-A	12/17/2021	10:31:12PM	Unknown
178	I2121721A	LCS 480-608421/2-A	12/17/2021	10:34:59PM	Unknown
179	I2121721A	480-193290-D-2-D	12/17/2021	10:38:34PM	Unknown
180	I2121721A	480-193290-D-2-DSD@5	12/17/2021	10:42:15PM	Unknown
181	I2121721A	480-193290-D-2-DPDS	12/17/2021	10:46:00PM	Unknown
182	I2121721A	480-193290-D-2-E MS	12/17/2021	10:49:34PM	Unknown
183	I2121721A	CCV-6817081	12/17/2021	10:53:10PM	QC
184	I2121721A	CCB-6819143	12/17/2021	10:56:43PM	QC
185	I2121721A	CCVL-6819272	12/17/2021	11:00:32PM	QC
186	I2121721A	480-193290-D-2-F MSD	12/17/2021	11:04:19PM	Unknown
187	I2121721A	480-193290-C-3-B	12/17/2021	11:07:54PM	Unknown
188	I2121721A	480-193290-D-4-B	12/17/2021	11:11:39PM	Unknown
189	I2121721A	480-193290-D-5-B	12/17/2021	11:15:24PM	Unknown
190	I2121721A	480-193290-C-6-B	12/17/2021	11:19:15PM	Unknown
191	I2121721A	480-193290-D-7-B	12/17/2021	11:23:05PM	Unknown
192	I2121721A	480-193290-D-8-B	12/17/2021	11:26:48PM	Unknown
193	I2121721A	480-193290-C-9-B	12/17/2021	11:30:30PM	Unknown
194	I2121721A	480-193300-B-13-B	12/17/2021	11:34:13PM	Unknown
195	I2121721A	CCV-6817081	12/17/2021	11:37:57PM	QC
196	I2121721A	CCB-6819143	12/17/2021	11:41:29PM	QC
197	I2121721A	CCVL-6819272	12/17/2021	11:45:18PM	QC
198	I2121721A	480-193300-B-19-B	12/17/2021	11:49:04PM	Unknown

199	I2121721A	CCVL-6819272	12/17/2021	11:52:46PM	QC
200	I2121721A	CCV-6817081	12/17/2021	11:56:33PM	QC
201	I2121721A	CCB-6819143	12/18/2021	12:00:06AM	QC

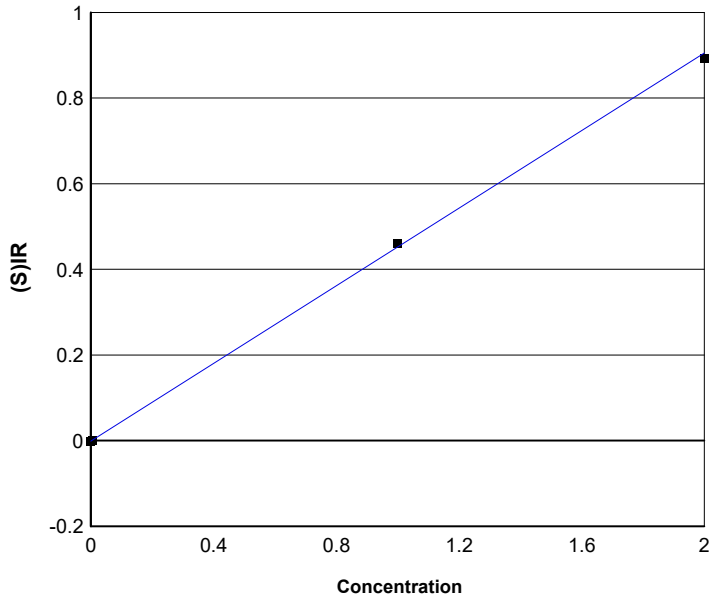
I2121721A

Author: ADM

Published: 12/20/2021 8:29:15AM

Instrument Name: 20094602a Serial Number: 20094602

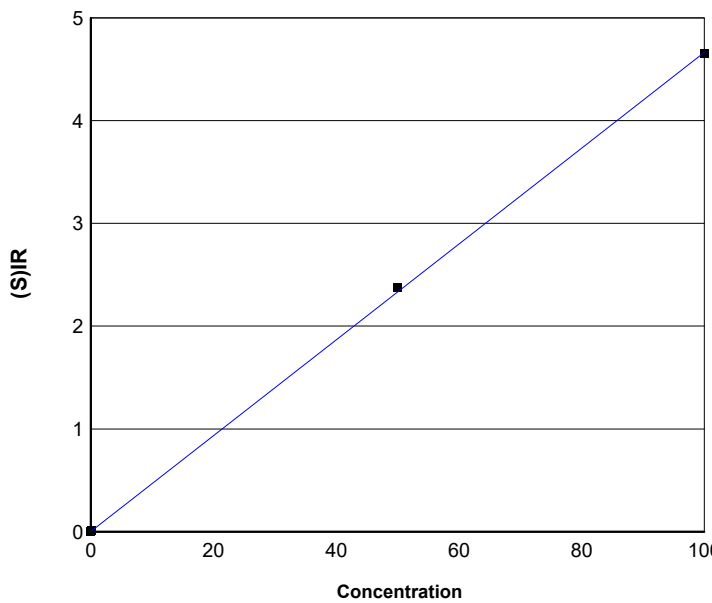
Method Name: ICAP2 New stds DEC2019 (786)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99986
A0 (Offset):	-0.00089851
A1 (Gain):	0.45313
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

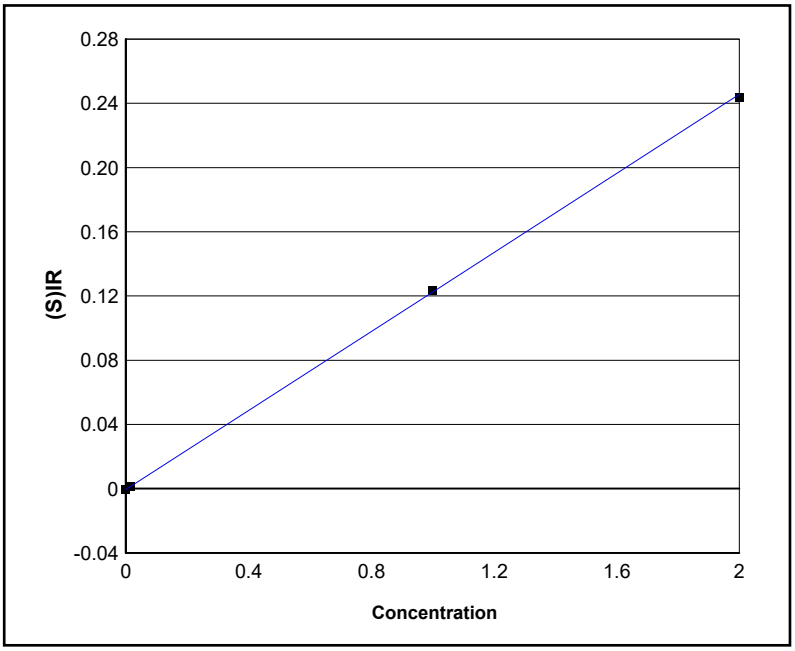
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000002393	0.0000002393	0.00000	-0.00089840	0.000063679	1
IC-6819272	0.0060000	0.0056906	-0.00030938	-5.1564	0.0016801	0.000066743	1
IC-6817081	1.0000	1.0231	0.023064	2.3064	0.46087	0.0000085165	1
IC-6797476	2.0000	1.9772	-0.022753	-1.1377	0.89142	0.00073324	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.0024043
A1 (Gain):	0.046626
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

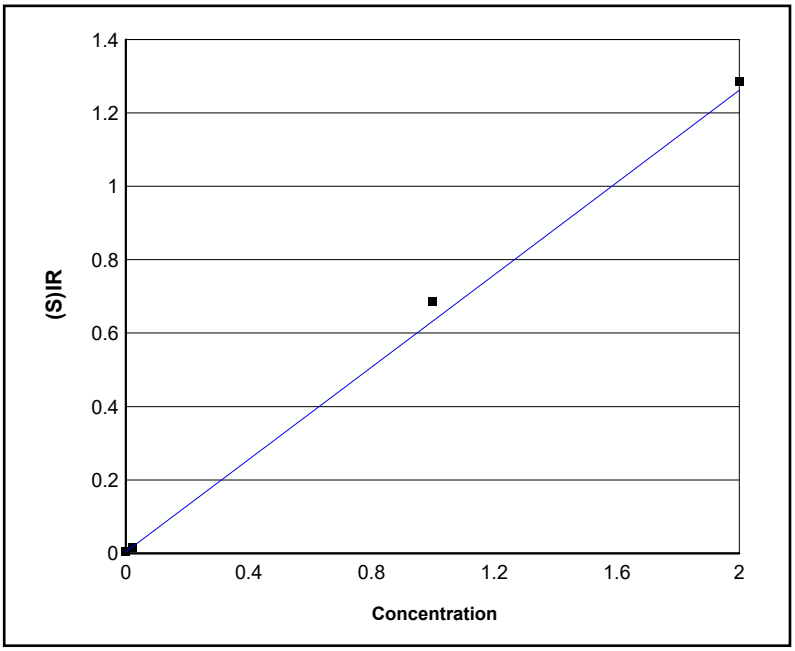
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000047865	0.0000047865	0.00000	0.0024045	0.00096609	1
IC-6819272	0.20000	0.19397	-0.0060315	-3.0157	0.011499	0.0017911	1
IC-6817081	50.000	50.616	0.61644	1.2329	2.3726	0.0079963	1
IC-6797476	100.00	99.390	-0.61040	-0.61040	4.6569	0.012883	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.00049870
A1 (Gain):	0.12303
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

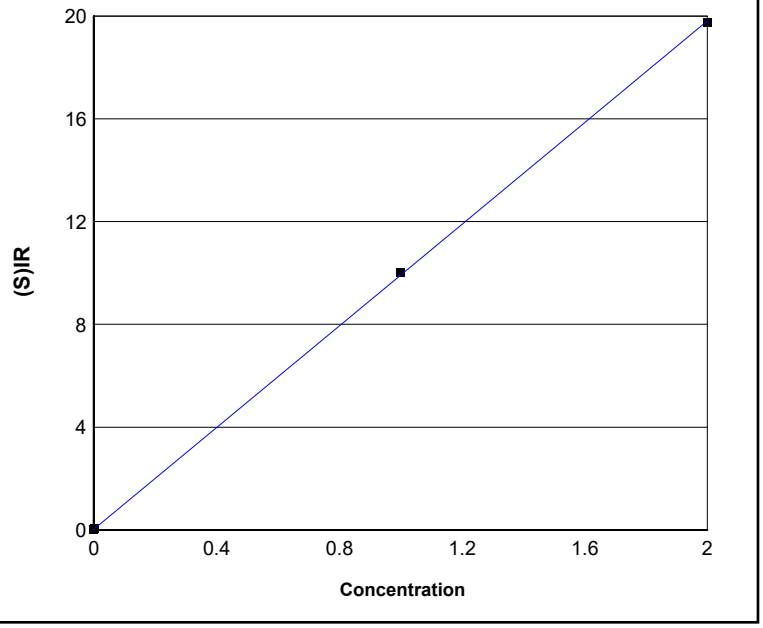
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000019466	0.0000019466	0.00000	-0.00049846	0.00034922	1
IC-6819272	0.015000	0.012964	-0.0020359	-13.573	0.0010939	0.000045464	1
IC-6817081	1.0000	1.0099	0.0098721	0.98721	0.12307	0.00057103	1
IC-6797476	2.0000	1.9922	-0.0078276	-0.39138	0.24326	0.00040929	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99956
A0 (Offset):	0.0034239
A1 (Gain):	0.62920
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

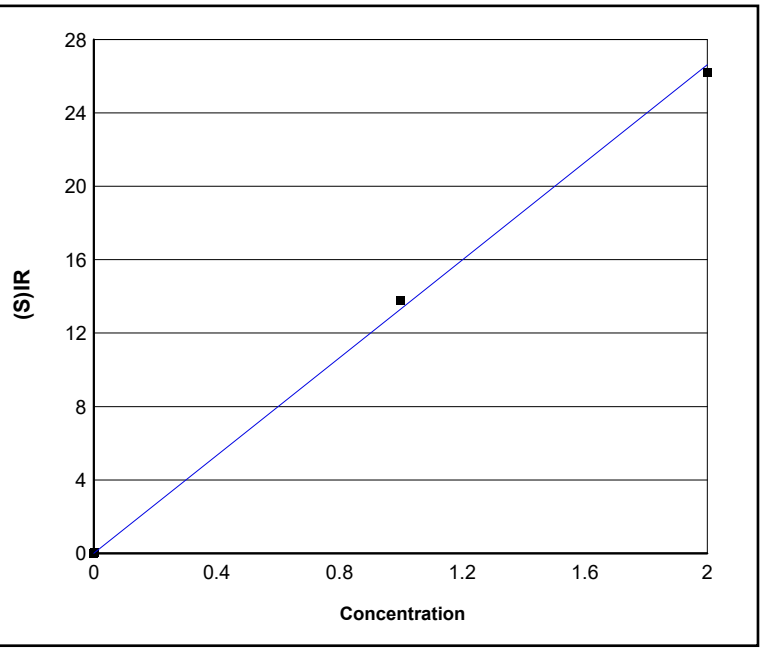
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000005683	0.0000005683	0.00000	0.0034243	0.000081190	1
IC-6819272	0.020000	0.018985	-0.0010149	-5.0743	0.015621	0.000062779	1
IC-6817081	1.0000	1.0437	0.043663	4.3663	0.68531	0.00089142	1
IC-6797476	2.0000	1.9573	-0.042668	-2.1334	1.2854	0.0019385	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.027776
A1 (Gain):	9.8924
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

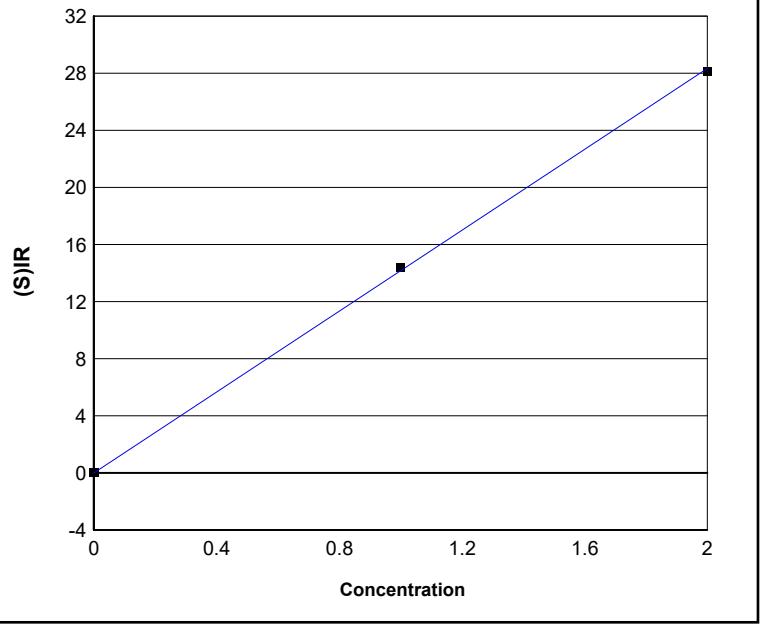
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000002803	0.0000002803	0.00000	0.027779	0.0015606	1
IC-6819272	0.0020000	0.0017105	-0.00028948	-14.474	0.044697	0.0053697	1
IC-6817081	1.0000	1.0089	0.0089102	0.89102	10.008	0.011944	1
IC-6797476	2.0000	1.9914	-0.0086207	-0.43104	19.727	0.097276	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99973
A0 (Offset):	0.0032619
A1 (Gain):	13.311
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

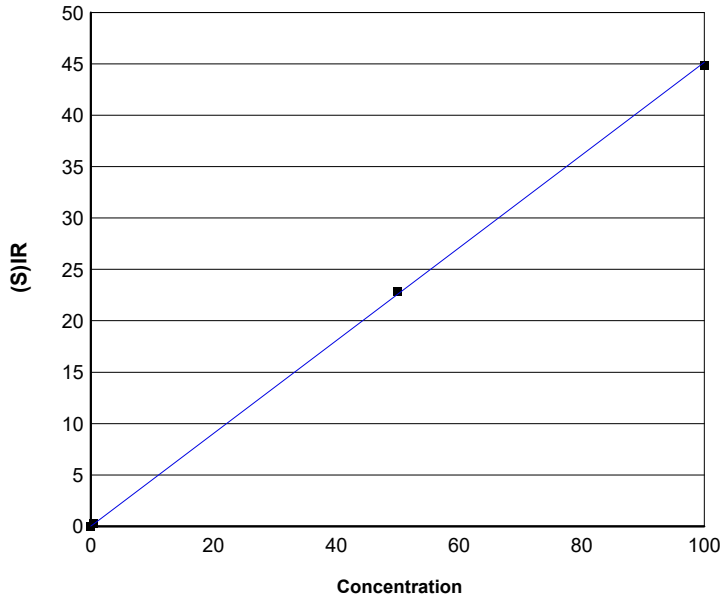
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000001600	-0.0000001600	0.00000	0.0032598	0.00040887	1
IC-6819272	0.0020000	0.0021272	0.00012722	6.3612	0.031576	0.00024095	1
IC-6817081	1.0000	1.0329	0.032904	3.2904	13.752	0.078554	1
IC-6797476	2.0000	1.9670	-0.033031	-1.6516	26.185	0.066871	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.0032499
A1 (Gain):	14.163
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

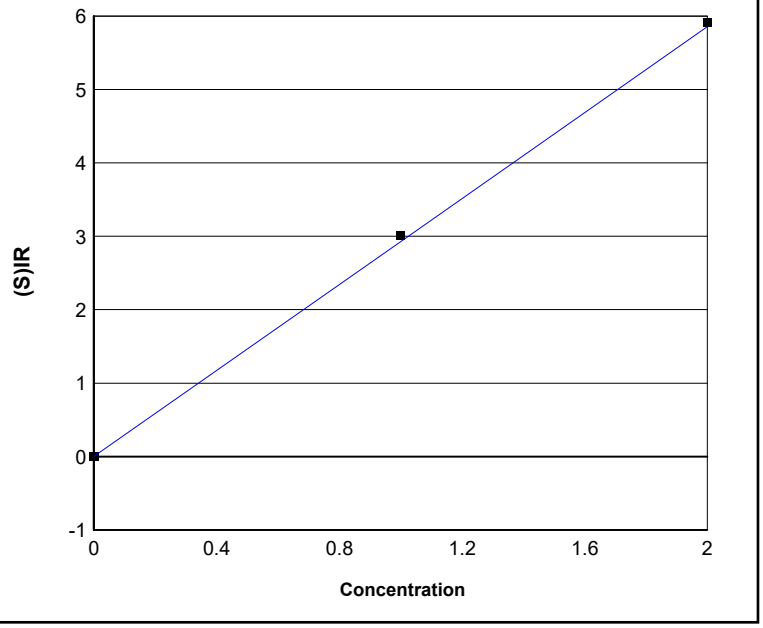
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000000252	-0.0000000252	0.00000	-0.0032503	0.0011393	1
IC-6819272	0.0020000	0.0020097	0.0000096643	0.48321	0.025213	0.00085943	1
IC-6817081	1.0000	1.0156	0.015583	1.5583	14.381	0.025723	1
IC-6797476	2.0000	1.9844	-0.015592	-0.77962	28.102	0.073896	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.015408
A1 (Gain):	0.45125
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

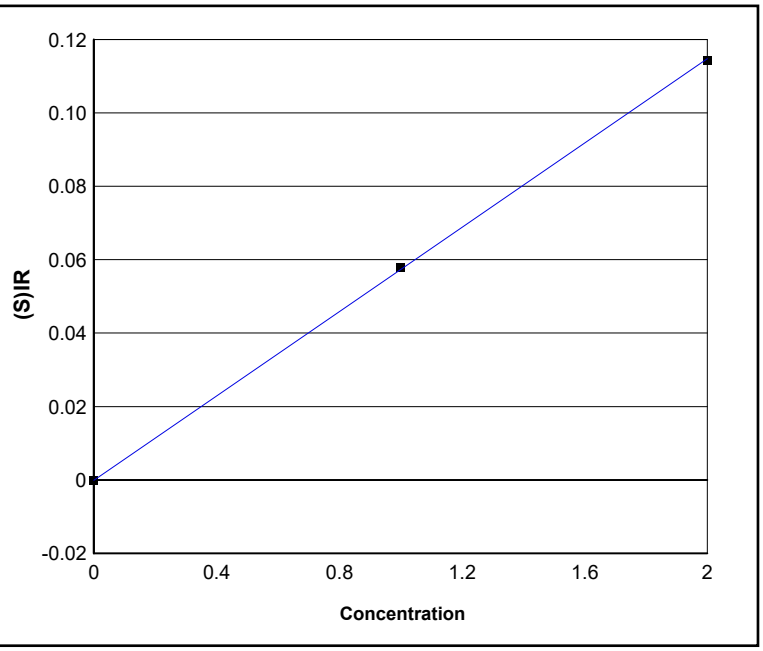
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000005260	-0.0000005260	0.00000	0.015407	0.0011165	1
IC-6819272	0.50000	0.49739	-0.0026148	-0.52296	0.23985	0.0013348	1
IC-6817081	50.000	50.626	0.62555	1.2511	22.860	0.028805	1
IC-6797476	100.00	99.377	-0.62293	-0.62293	44.860	0.19826	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00032591
A1 (Gain):	2.9279
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

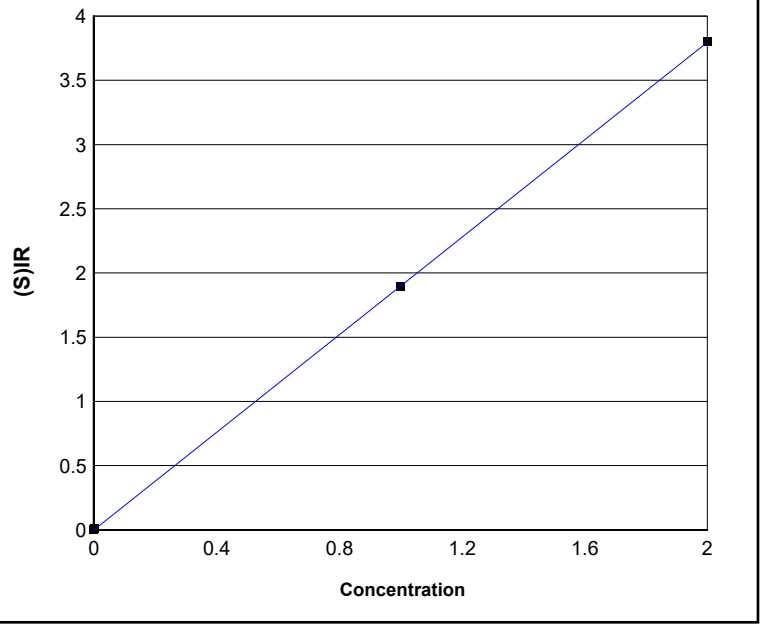
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000000632	-0.0000000632	0.00000	-0.00032609	0.000089292	1
IC-6819272	0.0020000	0.0020518	0.000051798	2.5899	0.0063962	0.00047887	1
IC-6817081	1.0000	1.0114	0.011430	1.1430	3.0077	0.0023265	1
IC-6797476	2.0000	1.9885	-0.011487	-0.57436	5.9152	0.0039136	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	-0.0001453
A1 (Gain):	0.05746
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

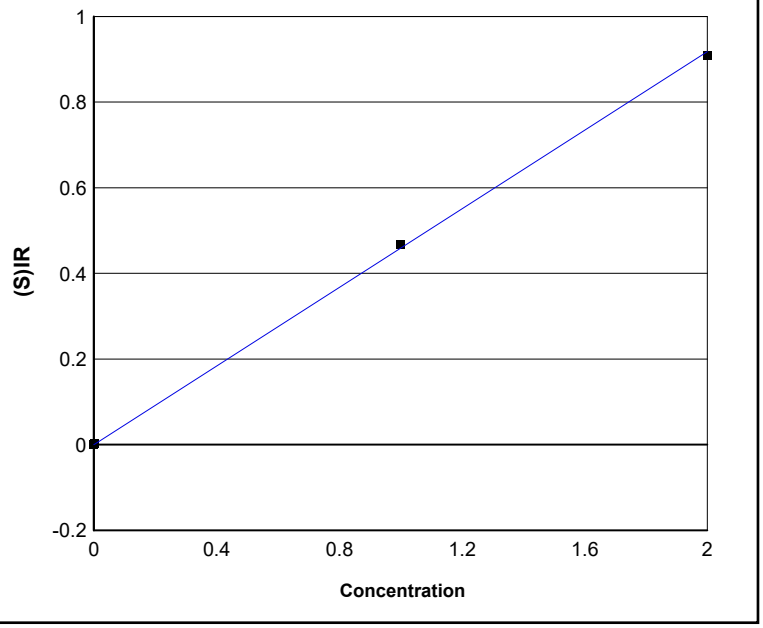
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.0000	-0.000004705	-0.000004705	0.0000	-0.0001456	0.0004134	1
IC-6797476	2.000	1.991	-0.009411	-0.4705	0.1142	0.002013	1
IC-6817081	1.000	1.009	0.009411	0.9411	0.05785	0.0001935	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00077848
A1 (Gain):	1.8978
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

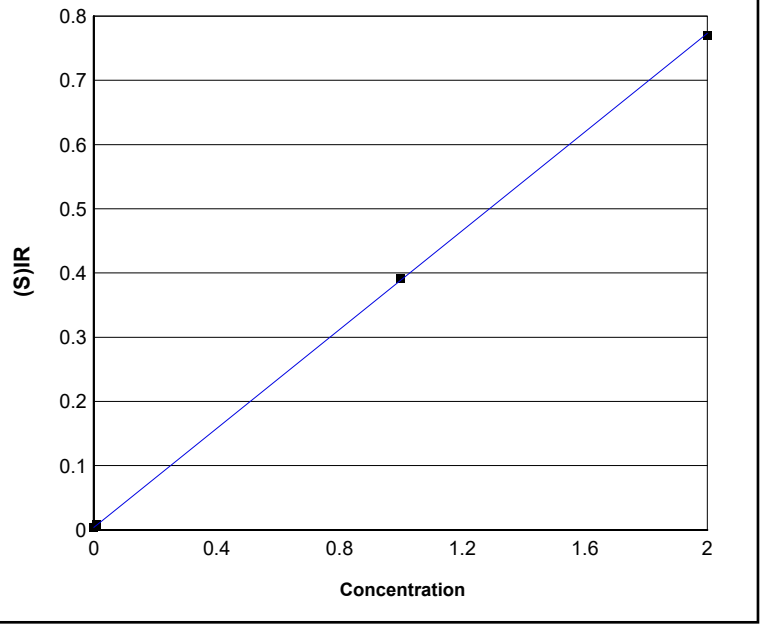
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000004012	0.0000004012	0.00000	0.00077924	0.00033416	1
IC-6819272	0.0040000	0.0036014	-0.00039856	-9.9640	0.0076155	0.00010745	1
IC-6817081	1.0000	0.99829	-0.0017075	-0.17075	1.8973	0.0011448	1
IC-6797476	2.0000	2.0021	0.0021057	0.10529	3.8044	0.0015732	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	-0.000034569
A1 (Gain):	0.45903
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

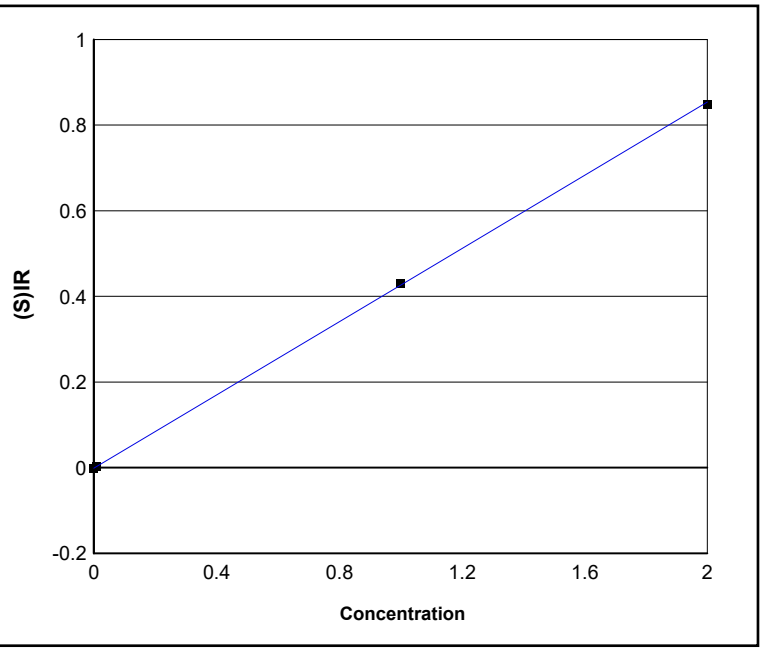
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000000702	0.0000000702	0.00000	-0.000034536	0.00018850	1
IC-6819272	0.0040000	0.0038881	-0.00011192	-2.7980	0.0017502	0.00011638	1
IC-6817081	1.0000	1.0207	0.020731	2.0731	0.46841	0.0012360	1
IC-6797476	2.0000	1.9794	-0.020619	-1.0309	0.90835	0.0014997	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0039527
A1 (Gain):	0.38467
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

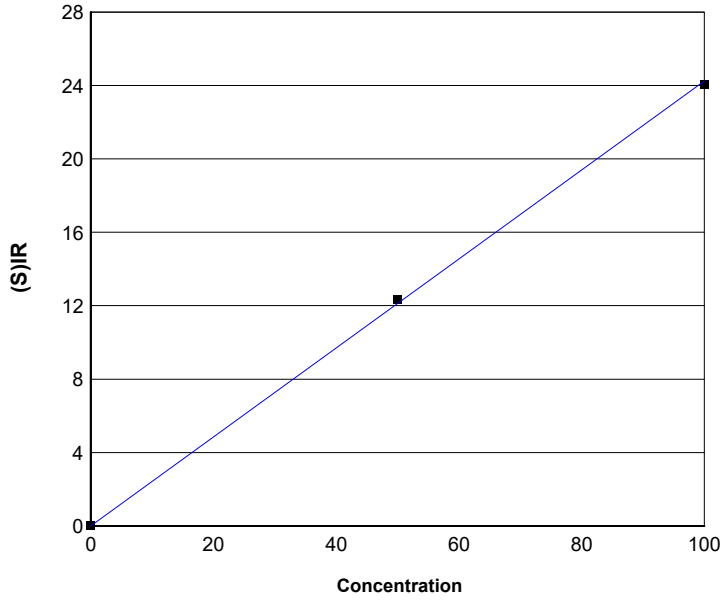
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000007570	-0.0000007570	0.00000	0.0039524	0.00014526	1
IC-6819272	0.010000	0.010718	0.00071770	7.1770	0.0080754	0.00038949	1
IC-6817081	1.0000	1.0086	0.0085749	0.85749	0.39192	0.00098895	1
IC-6797476	2.0000	1.9907	-0.0092926	-0.46463	0.76971	0.0029434	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.0010529
A1 (Gain):	0.42760
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

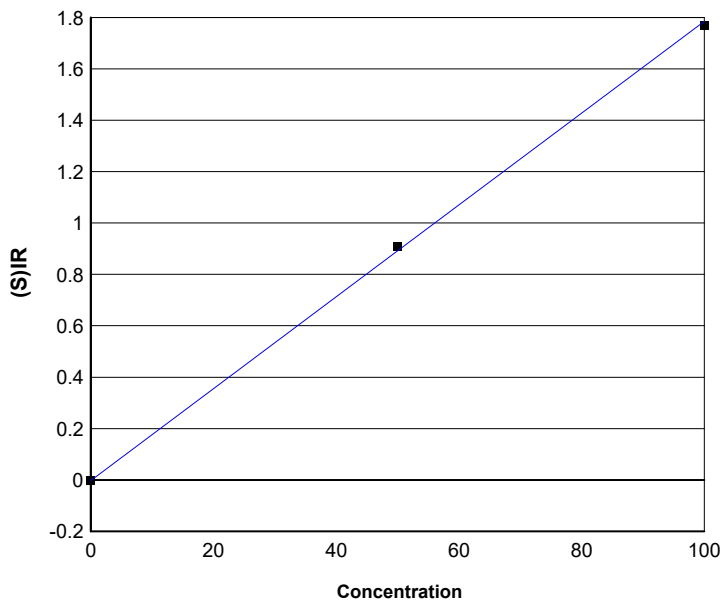
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000010883	-0.0000010883	0.00000	-0.0010533	0.00033850	1
IC-6819272	0.010000	0.011039	0.0010395	10.395	0.0036701	0.00039526	1
IC-6817081	1.0000	1.0108	0.010800	1.0800	0.43114	0.00059963	1
IC-6797476	2.0000	1.9882	-0.011840	-0.59199	0.84904	0.0029751	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.0011754
A1 (Gain):	0.24245
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

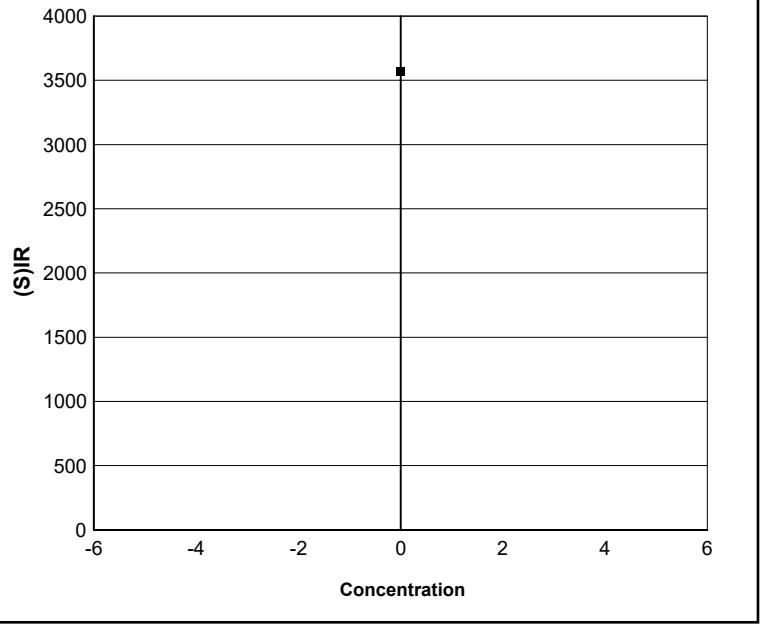
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000005878	0.0000005878	0.00000	0.0011755	0.000087120	1
IC-6819272	0.050000	0.049012	-0.00098771	-1.9754	0.013058	0.00066498	1
IC-6817081	50.025	50.825	0.79968	1.5986	12.323	0.018000	1
IC-6797476	100.00	99.201	-0.79869	-0.79869	24.052	0.13736	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	-0.0022901
A1 (Gain):	0.017878
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

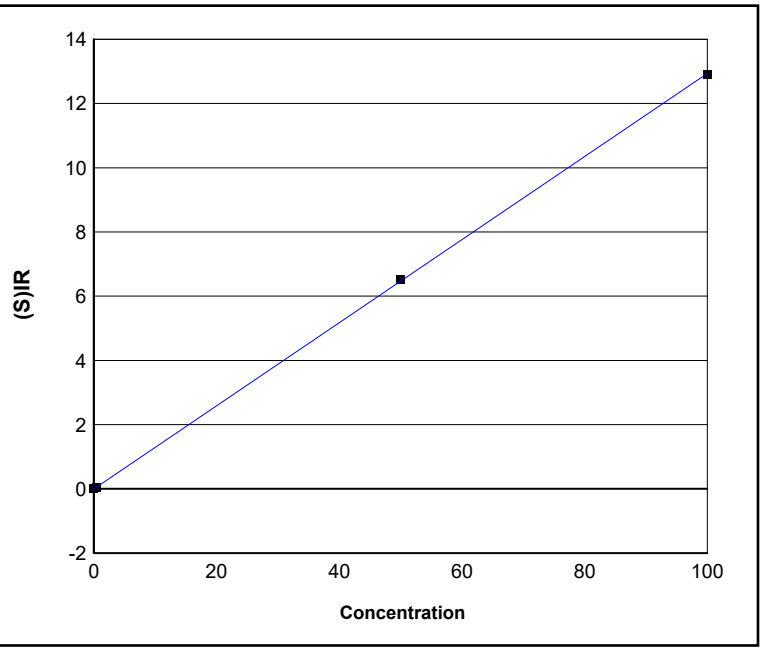
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	-0.000023028	-0.000023028	0.00000	-0.0022905	0.00076666	1
IC-6819272	0.050000	0.072564	0.022564	45.128	-0.00099285	0.00063645	1
IC-6817081	50.025	50.976	0.95141	1.9019	0.90906	0.0015699	1
IC-6797476	100.00	99.026	-0.97397	-0.97397	1.7681	0.017223	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:25:44AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

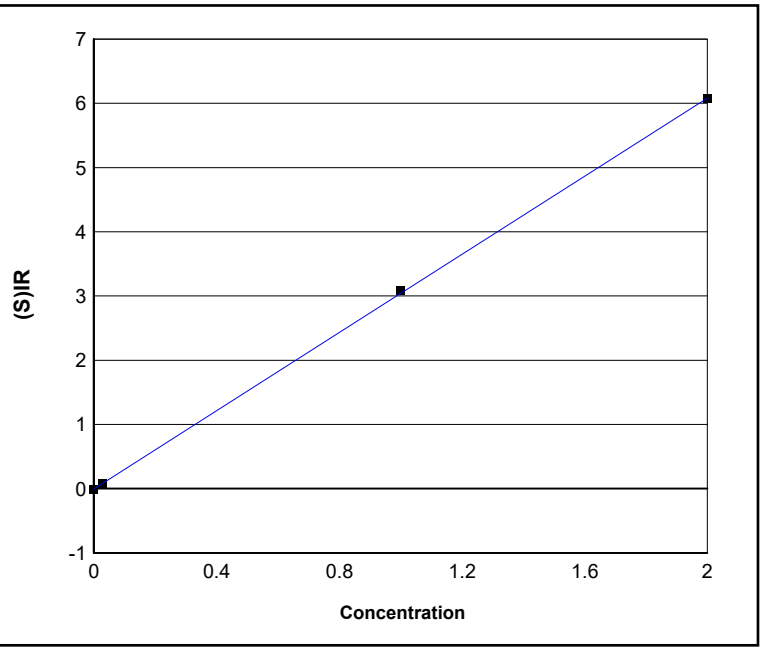
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.0000			0.0000	3,567	2.184	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.0043895
A1 (Gain):	0.12946
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

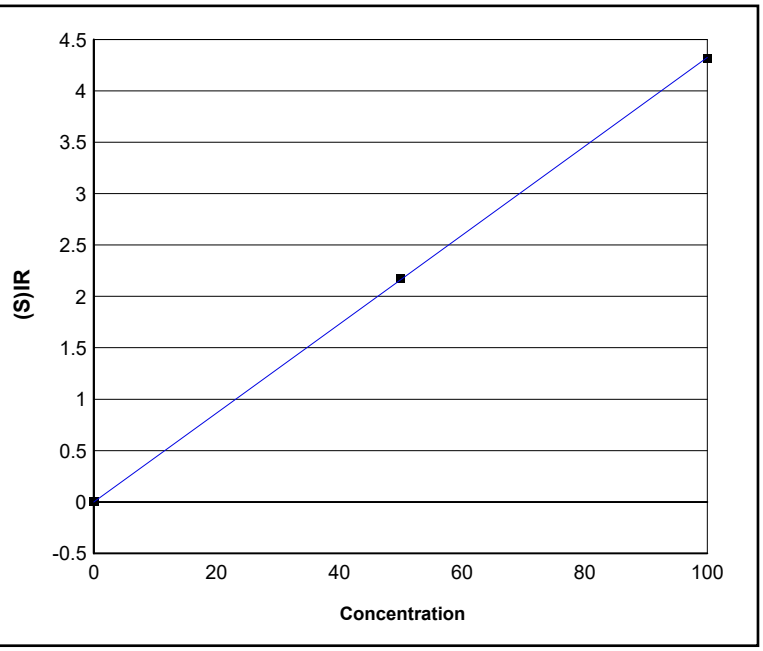
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.000059171	0.000059171	0.00000	-0.0043818	0.00012335	1
IC-6819272	0.50000	0.43918	-0.060823	-12.165	0.052464	0.0049840	1
IC-6817081	50.000	50.270	0.26959	0.53919	6.5033	0.018871	1
IC-6797476	100.00	99.791	-0.20877	-0.20877	12.914	0.071967	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.0037818
A1 (Gain):	3.0429
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

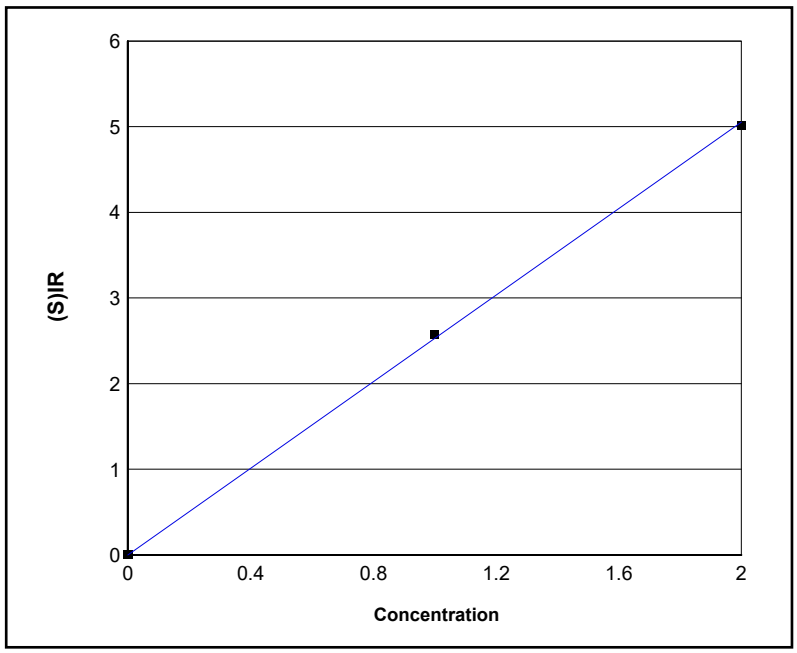
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000023803	0.0000023803	0.00000	-0.0037746	0.00093559	1
IC-6819272	0.030000	0.027419	-0.0025806	-8.6021	0.079747	0.0044808	1
IC-6817081	1.0000	1.0108	0.010782	1.0782	3.0813	0.012119	1
IC-6797476	2.0000	1.9918	-0.0082071	-0.41035	6.0758	0.034509	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000044562
A1 (Gain):	0.043254
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

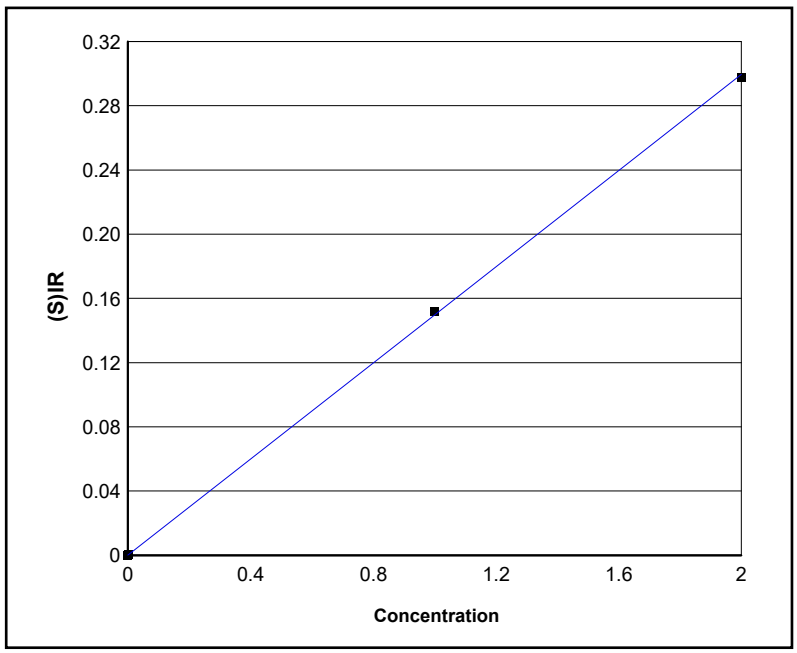
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.000010045	0.000010045	0.00000	-0.000044127	0.000066965	1
IC-6819272	0.20000	0.18940	-0.010604	-5.3019	0.0081472	0.000040432	1
IC-6817081	50.000	50.269	0.26861	0.53722	2.1742	0.0010630	1
IC-6797476	100.00	99.742	-0.25801	-0.25801	4.3140	0.0028347	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.0011340
A1 (Gain):	2.5268
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

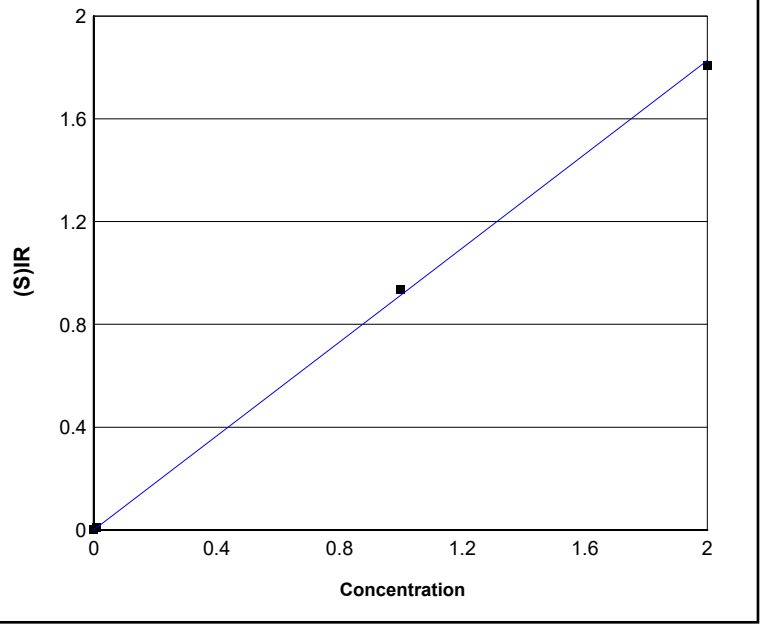
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000001410	-0.0000001410	0.00000	0.0011337	0.000054469	1
IC-6819272	0.0030000	0.0031171	0.00011705	3.9018	0.0090127	0.00011245	1
IC-6817081	1.0000	1.0161	0.016089	1.6089	2.5693	0.0041443	1
IC-6797476	2.0000	1.9838	-0.016207	-0.81033	5.0152	0.0045477	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.00012040
A1 (Gain):	0.14967
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

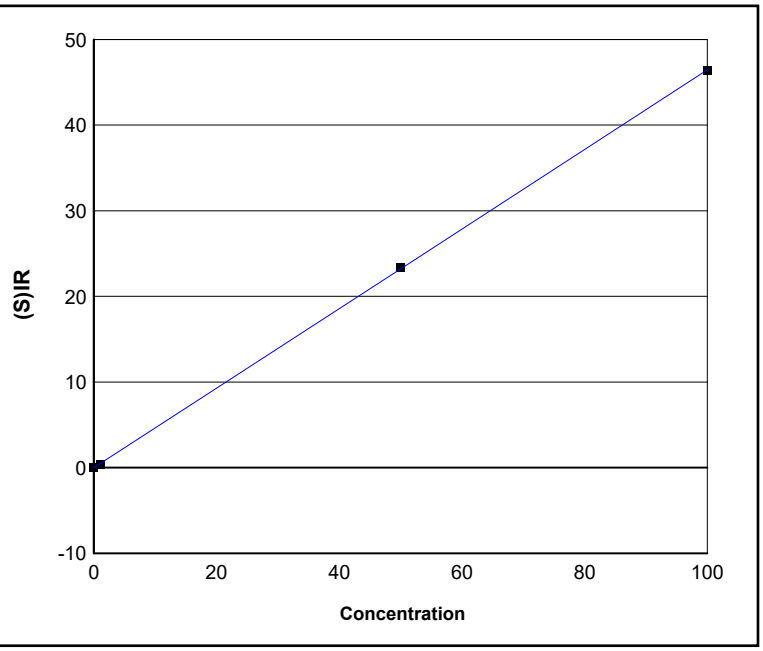
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000007830	0.0000007830	0.00000	0.00012052	0.0000066201	1
IC-6819272	0.0030000	0.0021972	-0.00080276	-26.759	0.00044942	0.000029389	1
IC-6817081	1.0000	1.0124	0.012397	1.2397	0.15169	0.00087650	1
IC-6797476	2.0000	1.9884	-0.011594	-0.57969	0.29782	0.00073018	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	0.00080328
A1 (Gain):	0.91317
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

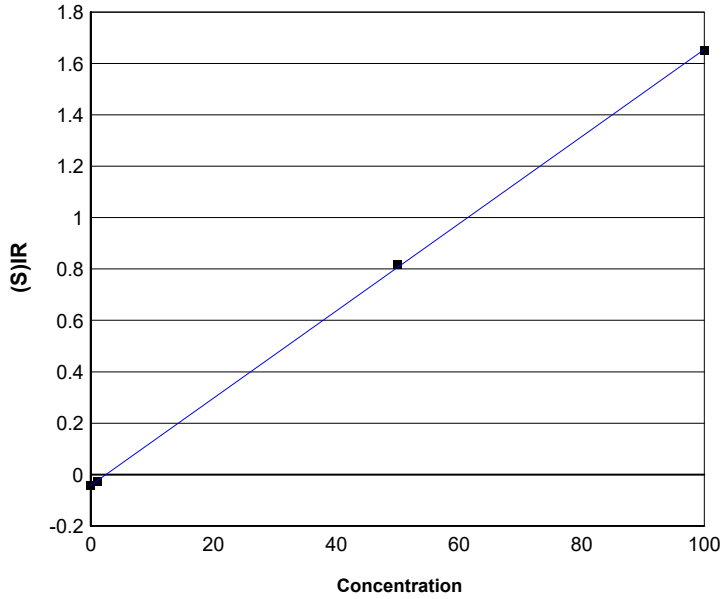
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000003444	0.0000003444	0.00000	0.00080360	0.00012794	1
IC-6819272	0.010000	0.0095409	-0.00045907	-4.5907	0.0095158	0.000022988	1
IC-6817081	1.0000	1.0225	0.022469	2.2469	0.93449	0.00041751	1
IC-6797476	2.0000	1.9780	-0.022009	-1.1005	1.8070	0.00062387	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.017532
A1 (Gain):	0.46483
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

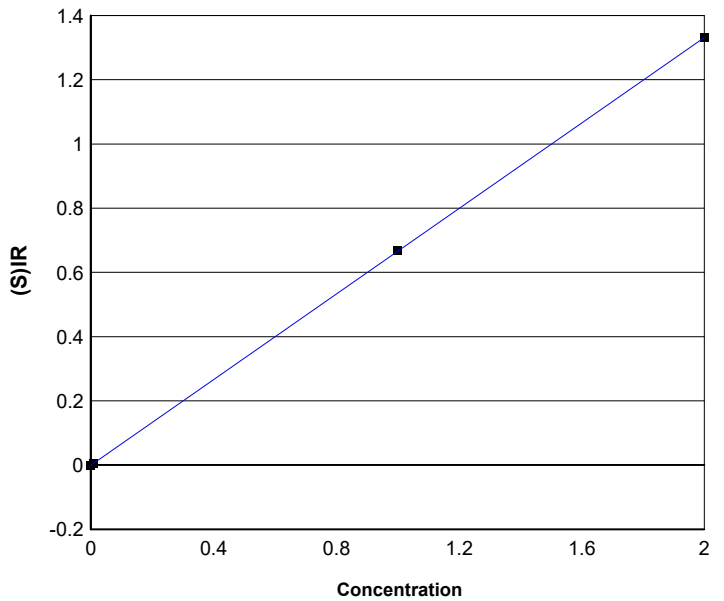
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.000047139	0.000047139	0.00000	-0.017510	0.0024323	1
IC-6819272	1.0000	0.94981	-0.050192	-5.0192	0.42397	0.0053502	1
IC-6817081	50.000	50.255	0.25516	0.51033	23.343	0.032009	1
IC-6797476	100.00	99.795	-0.20497	-0.20497	46.371	0.19312	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	-0.041895
A1 (Gain):	0.016971
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

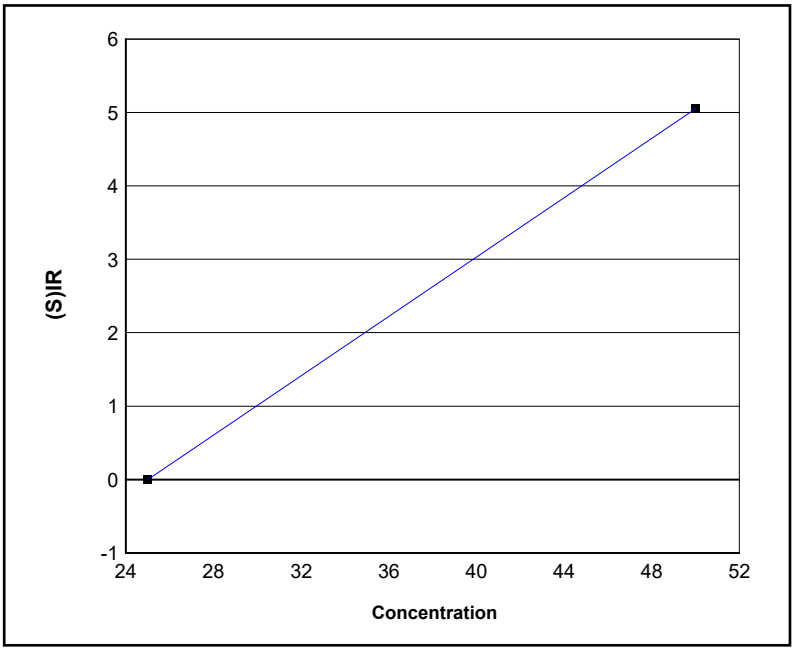
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.00017369	0.00017369	0.00000	-0.041892	0.0065490	1
IC-6819272	1.0000	0.81907	-0.18093	-18.093	-0.027995	0.0023860	1
IC-6817081	50.000	50.543	0.54321	1.0864	0.81588	0.0092339	1
IC-6797476	100.00	99.638	-0.36228	-0.36228	1.6491	0.0039846	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00034365
A1 (Gain):	0.66605
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

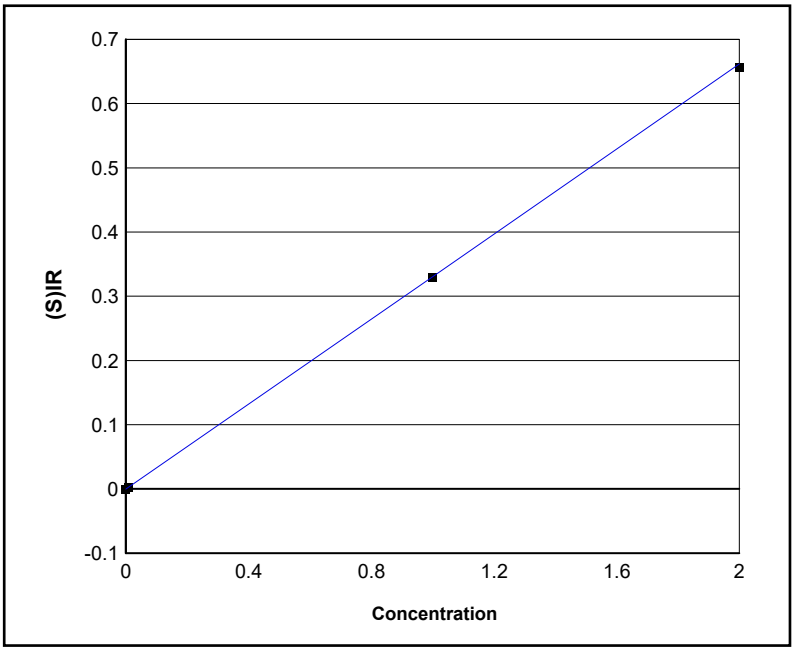
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000005136	0.0000005136	0.00000	-0.00034331	0.000011400	1
IC-6819272	0.010000	0.0094739	-0.00052614	-5.2614	0.0059671	0.000081230	1
IC-6817081	1.0000	1.0020	0.0019744	0.19744	0.66769	0.00083059	1
IC-6797476	2.0000	1.9986	-0.0014488	-0.072439	1.3321	0.0012259	1



Element Name:	P
Element Wavelength:	P 213.618 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-5.057
A1 (Gain):	0.2022
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

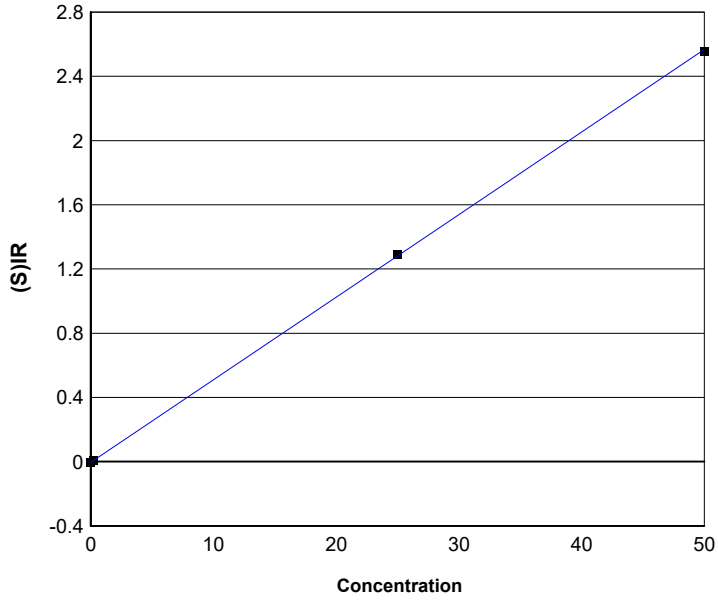
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-6819272	25.00	25.00	0.0000000000	0.0000000000	-0.001618	0.00007714	1
IC-6797476	50.00	50.00	0.0000000000	0.0000000000	5.053	0.004632	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00029470
A1 (Gain):	0.33098
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

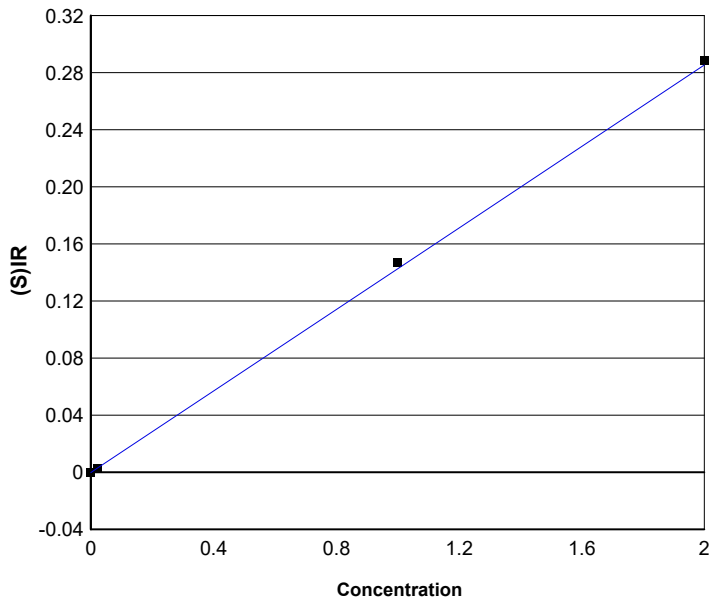
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000007047	0.0000007047	0.00000	-0.00029446	0.00010575	1
IC-6819272	0.010000	0.0092765	-0.00072349	-7.2349	0.0027474	0.000013704	1
IC-6817081	1.0000	1.0030	0.0030334	0.30334	0.32892	0.00061251	1
IC-6797476	2.0000	1.9977	-0.0023100	-0.11550	0.65537	0.00021260	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.0030527
A1 (Gain):	0.051402
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

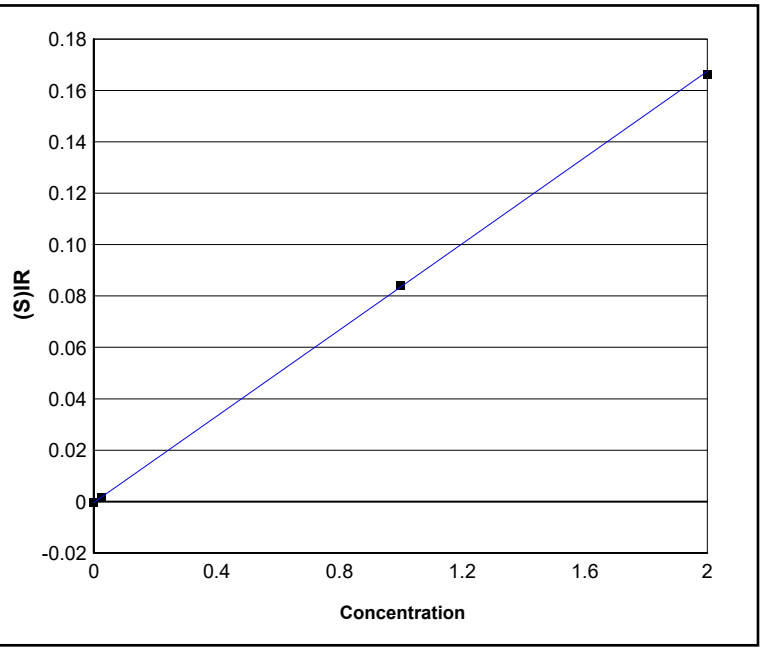
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.000016317	0.000016317	0.00000	-0.0030519	0.000022216	1
IC-6819272	0.20000	0.18270	-0.017297	-8.6485	0.0063386	0.000077860	1
IC-6817081	25.000	25.228	0.22768	0.91071	1.2937	0.0013922	1
IC-6797476	50.000	49.790	-0.21038	-0.42076	2.5562	0.00082386	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00022628
A1 (Gain):	0.14284
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

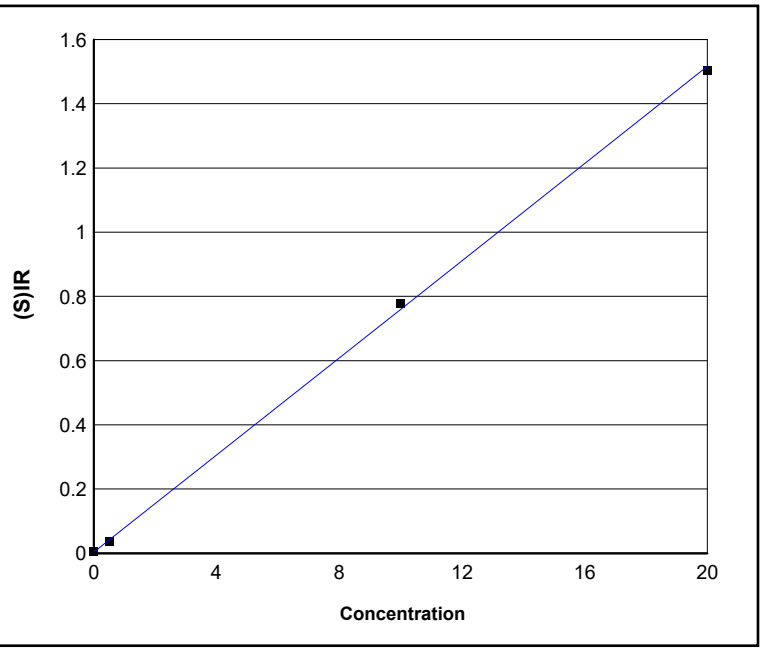
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000002043	0.0000002043	0.00000	-0.00022625	0.000039336	1
IC-6819272	0.020000	0.019650	-0.00034982	-1.7491	0.0025943	0.000018701	1
IC-6817081	1.0000	1.0142	0.014202	1.4202	0.14702	0.00058391	1
IC-6797476	2.0000	1.9861	-0.013856	-0.69282	0.28823	0.00010646	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00041508
A1 (Gain):	0.083941
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

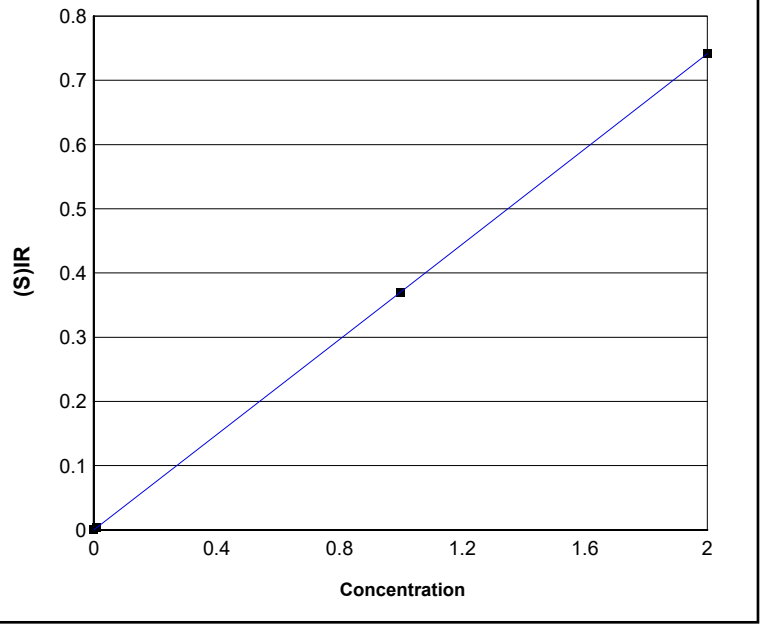
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000006984	0.0000006984	0.00000	-0.00041503	0.000014890	1
IC-6819272	0.025000	0.024180	-0.00082022	-3.2809	0.0016143	0.000032049	1
IC-6817081	1.0000	1.0089	0.0089255	0.89255	0.083947	0.00033047	1
IC-6797476	2.0000	1.9919	-0.0081021	-0.40511	0.16613	0.00082617	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99979
A0 (Offset):	0.0042021
A1 (Gain):	0.075597
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

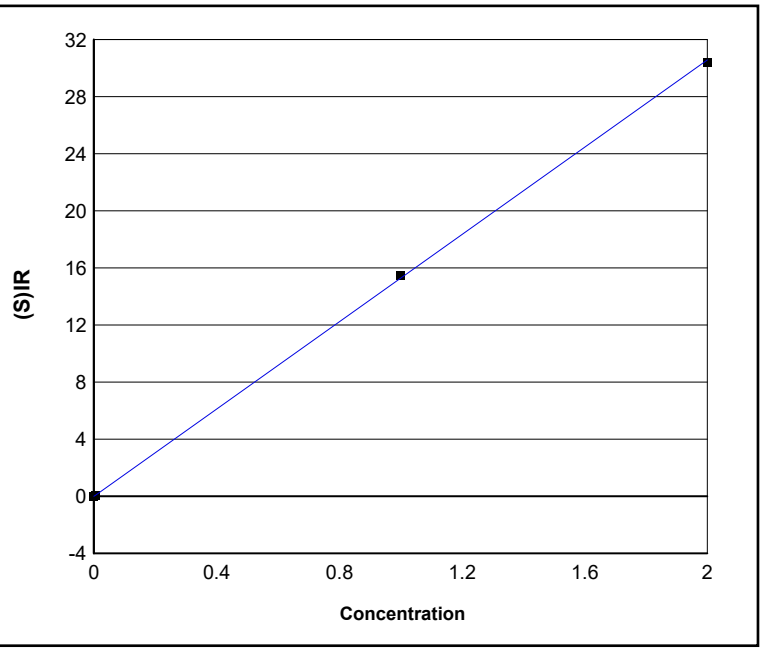
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.000044329	0.000044329	0.00000	0.0042054	0.00019695	1
IC-6819272	0.50000	0.44841	-0.051590	-10.318	0.038100	0.00075367	1
IC-6817081	10.000	10.239	0.23887	2.3887	0.77823	0.00057845	1
IC-6797476	20.000	19.813	-0.18728	-0.93640	1.5020	0.0052025	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.000090910
A1 (Gain):	0.37052
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

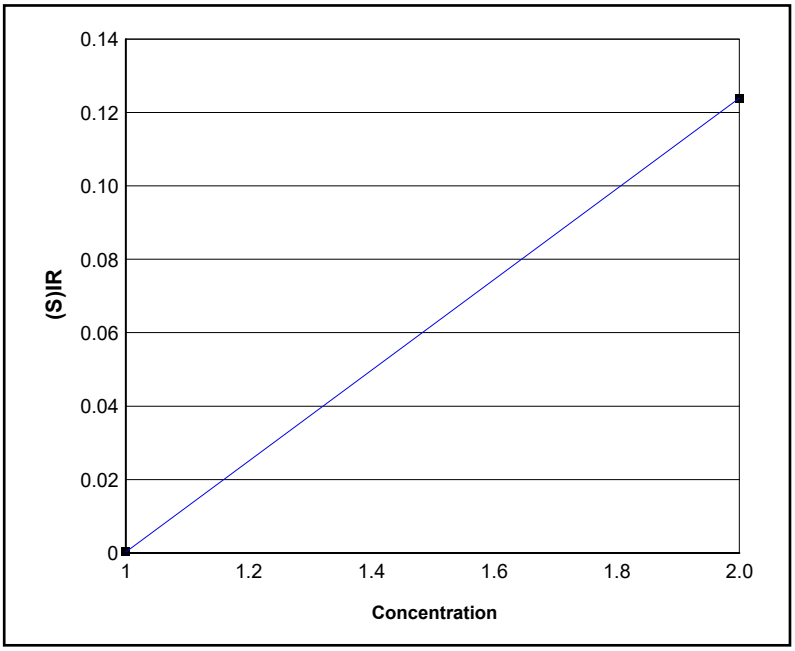
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000008874	0.0000008874	0.00000	0.000091239	0.00011455	1
IC-6819272	0.010000	0.0091175	-0.00088247	-8.8247	0.0034692	0.00012222	1
IC-6817081	1.0000	0.99813	-0.0018744	-0.18744	0.36992	0.00053832	1
IC-6797476	2.0000	2.0028	0.0027569	0.13785	0.74216	0.00015015	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.0039320
A1 (Gain):	15.290
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

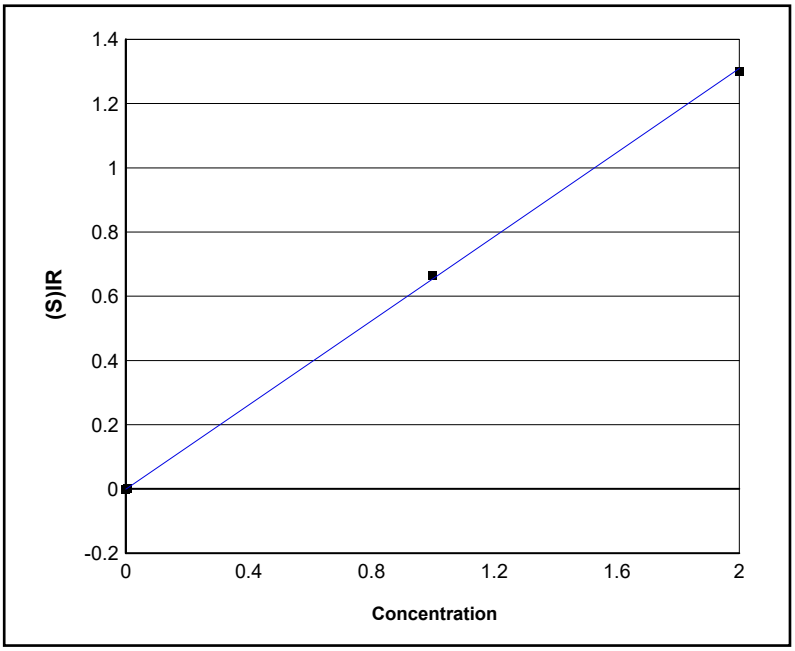
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000000332	-0.0000000332	0.00000	-0.0039325	0.00016222	1
IC-6819272	0.0050000	0.0050075	0.0000074887	0.14977	0.072632	0.00099423	1
IC-6817081	1.0000	1.0103	0.010302	1.0302	15.444	0.0099074	1
IC-6797476	2.0000	1.9897	-0.010309	-0.51546	30.418	0.15237	1



Element Name:	Th
Element Wavelength:	Th 283.730 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-0.1233
A1 (Gain):	0.1236
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

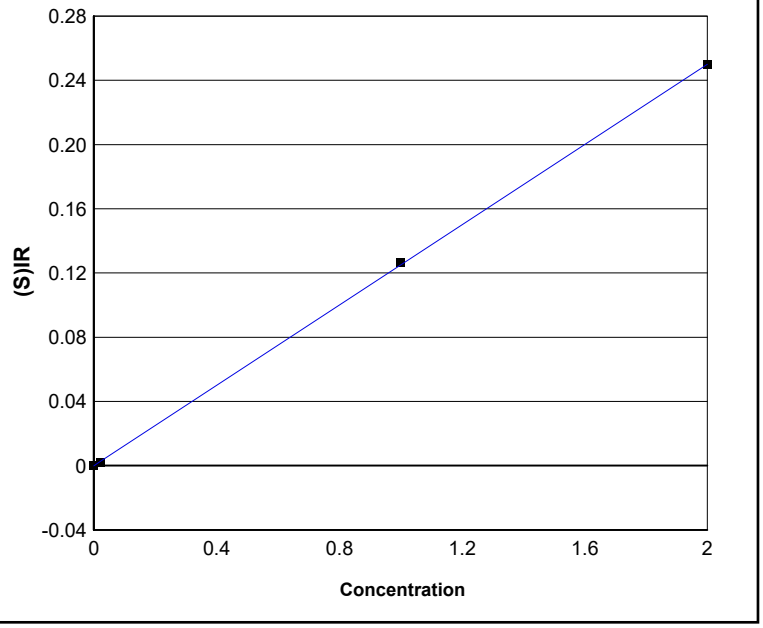
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-6819272	1.000	1.0000	0.0000000000	0.0000000000	0.0002820	0.0005000	1
IC-6797476	2.000	2.000	0.0000000000	0.0000000000	0.1239	0.0002373	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.00098948
A1 (Gain):	0.65528
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

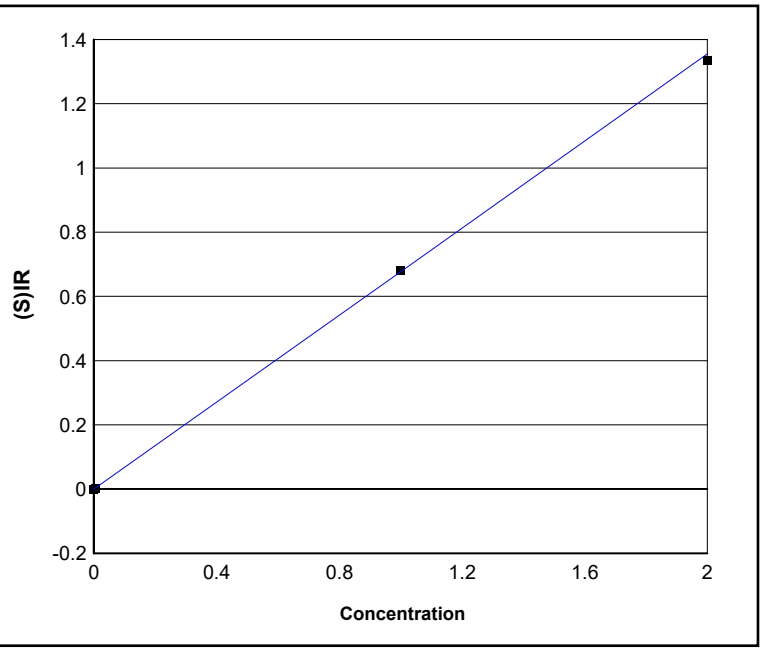
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000003437	0.0000003437	0.00000	-0.00098926	0.00027046	1
IC-6819272	0.0050000	0.0046192	-0.00038083	-7.6165	0.0020420	0.00016307	1
IC-6817081	1.0000	1.0145	0.014474	1.4474	0.66424	0.00089157	1
IC-6797476	2.0000	1.9859	-0.014093	-0.70466	1.3013	0.000058006	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.000045626
A1 (Gain):	0.12501
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

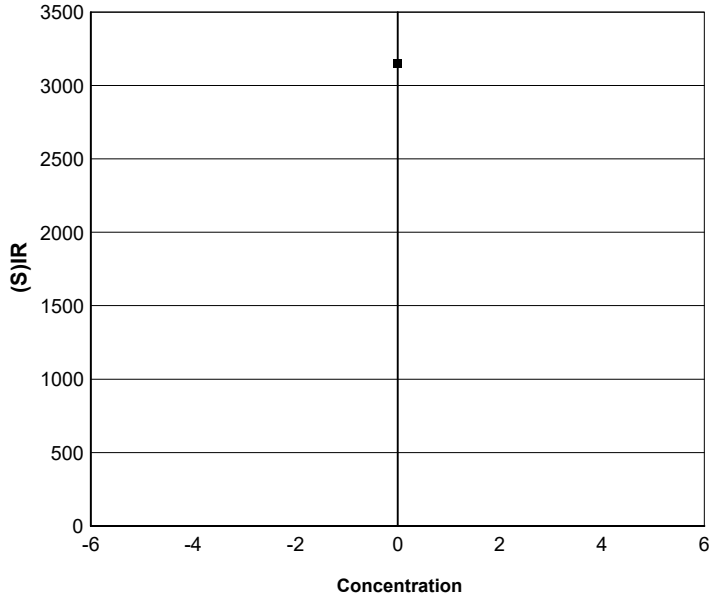
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000012936	0.0000012936	0.00000	-0.000045464	0.0000096760	1
IC-6819272	0.020000	0.018591	-0.0014093	-7.0465	0.0022806	0.00025442	1
IC-6817081	1.0000	1.0102	0.010164	1.0164	0.12673	0.000094003	1
IC-6797476	2.0000	1.9912	-0.0087586	-0.43793	0.24986	0.00053104	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00033560
A1 (Gain):	0.67765
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

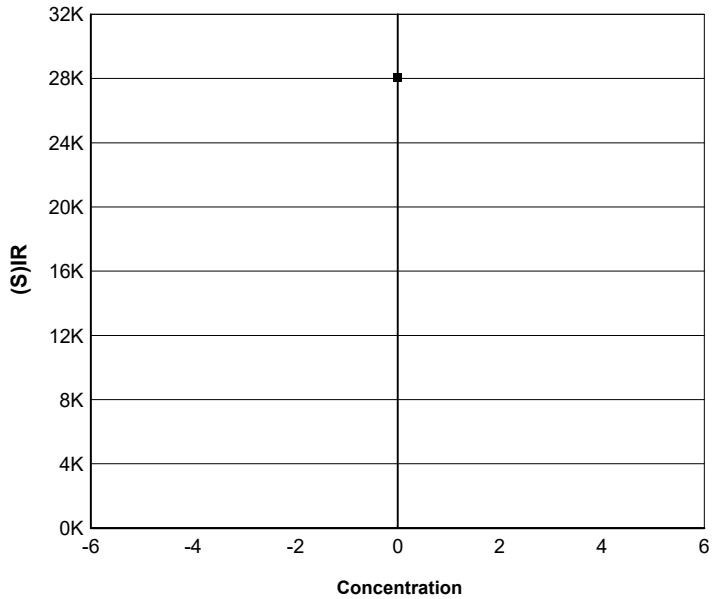
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000000621	0.0000000621	0.00000	-0.00033556	0.000034554	1
IC-6819272	0.0050000	0.0049027	-0.000097302	-1.9460	0.0029234	0.00027626	1
IC-6817081	1.0000	1.0140	0.014001	1.4001	0.68102	0.00015518	1
IC-6797476	2.0000	1.9861	-0.013905	-0.69525	1.3340	0.0012743	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:25:44AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

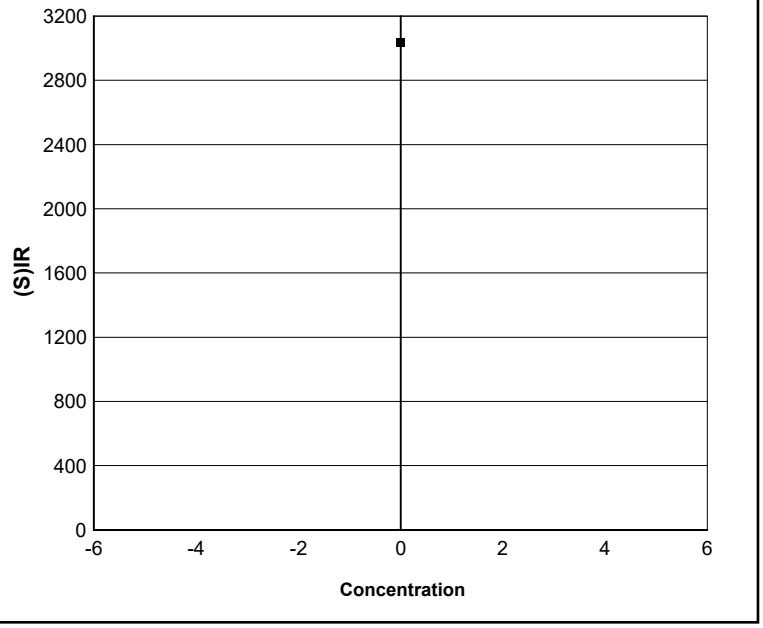
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.0000			0.0000	3,146	2.247	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:25:44AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

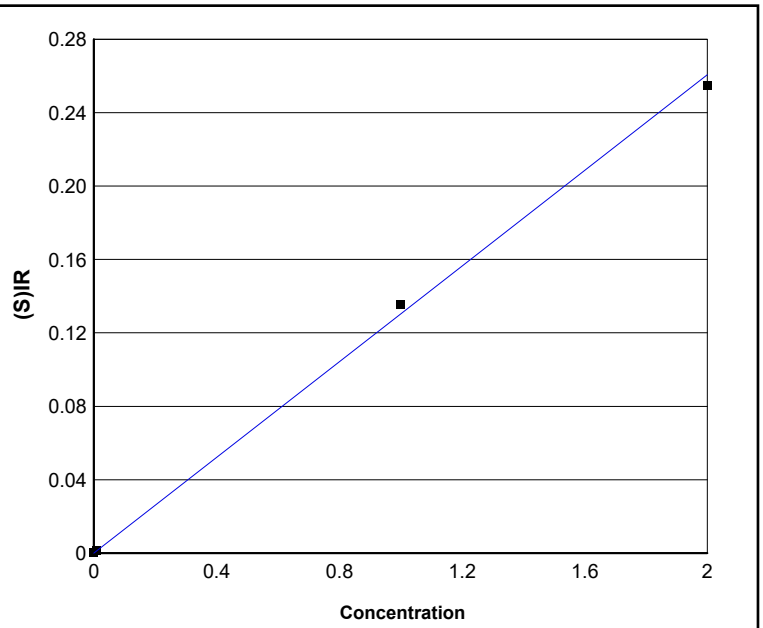
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.0000			0.0000	28,070	22.57	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:25:44AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

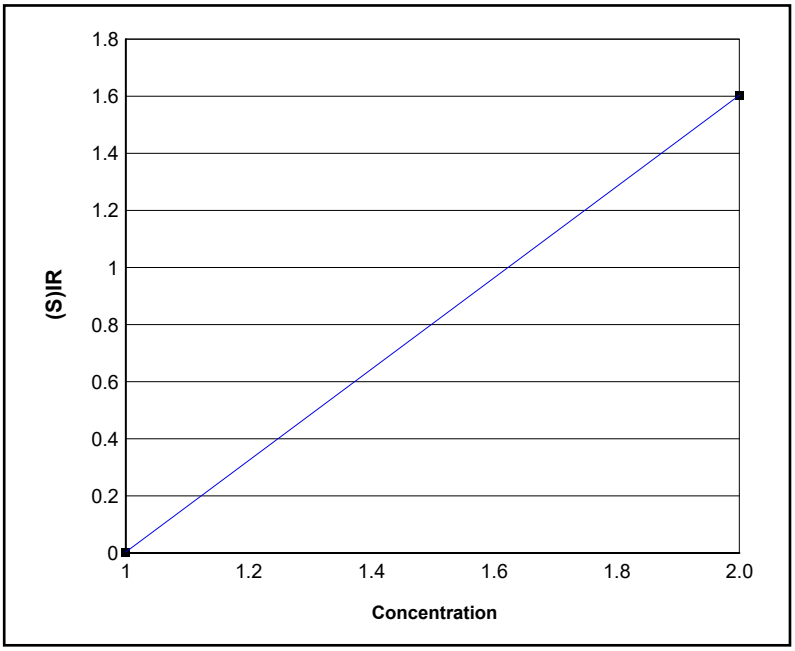
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.0000			0.0000	3,034	3.357	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	0.99956
A0 (Offset):	0.0000063919
A1 (Gain):	0.13038
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6819143	0.00000	0.0000006963	-0.0000006963	0.00000	0.0000063011	0.000054332	1
IC-6819272	0.010000	0.010490	0.00049046	4.9046	0.0013735	0.000027948	1
IC-6817081	1.0000	1.0417	0.041650	4.1650	0.13566	0.00023330	1
IC-6797476	2.0000	1.9579	-0.042141	-2.1071	0.25495	0.00018970	1



Element Name:	Zr
Element Wavelength:	Zr 343.823 nm
Concentration Units:	ppm
Date of Calibration:	12/17/2021 11:36:37AM
Date of Fit:	12/17/2021 12:33:11PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-1.598
A1 (Gain):	1.601
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-6819272	1.000	1.0000	0.0000000000	0.0000000000	0.002790	0.001397	1
IC-6797476	2.000	2.000	0.0000	0.0000	1.604	0.003090	1

Sample Name: ICIS-6819143 Acquired: 12/17/2021 11:21:50 Type: Cal
Method: ICAP2 New stds DEC2019(v786) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00090**	**.00240**	**-.00050**	**.00342**	**.02778**
Stddev	.00006	.00097	.00035	.00008	.00156
%RSD	7.0881	40.178	70.060	2.3710	5.6181
#1	-.00094	.00309	-.00075	.00337	.02888
#2	-.00085	.00172	-.00025	.00348	.02668

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00326**	**-.00325**	**.01541**	**-.00033**	**-.0001**
Stddev	.00041	.00114	.00112	.00009	.0004
%RSD	12.543	35.051	7.2463	27.382	284.0
#1	.00297	-.00406	.01462	-.00039	-.0004
#2	.00355	-.00244	.01620	-.00026	.0001

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00078**	**-.00003**	**-.00105**	**.00118**	**-.00229**
Stddev	.00033	.00019	.00034	.00009	.00077
%RSD	42.883	545.80	32.136	7.4113	33.470
#1	.00054	-.00017	-.00081	.00124	-.00175
#2	.00102	.00010	-.00129	.00111	-.00283

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00438**	**-.00377**	**-.00004**	**.00113**	**.00012**
Stddev	.00012	.00094	.00007	.00005	.00001
%RSD	2.8150	24.787	151.75	4.8046	5.4930
#1	-.00429	-.00311	.00000	.00117	.00013
#2	-.00447	-.00444	-.00009	.00110	.00012

Sample Name: ICIS-6819143 Acquired: 12/17/2021 11:21:50 Type: Cal
Method: ICAP2 New stds DEC2019(v786) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00080**	**-.01751**	**-.04189**	**-.00034**	**-.00029**
Stddev	.00013	.00243	.00655	.00001	.00011
%RSD	15.921	13.891	15.633	3.3206	35.913
#1	.00071	-.01579	-.03726	-.00035	-.00022
#2	.00089	-.01923	-.04652	-.00034	-.00037

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00305**	**-.00023**	**-.00042**	**.00421**	**.00009**
Stddev	.00002	.00004	.00001	.00020	.00011
%RSD	.72796	17.386	3.5878	4.6833	125.55
#1	-.00304	-.00020	-.00040	.00434	.00017
#2	-.00307	-.00025	-.00043	.00407	.00001

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00393**	**-.00099**	**-.00005**	**-.00034**	**.00001**
Stddev	.00016	.00027	.00001	.00003	.00005
%RSD	4.1250	27.340	21.283	10.298	862.27
#1	-.00405	-.00080	-.00004	-.00036	.00004
#2	-.00382	-.00118	-.00005	-.00031	-.00003

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3566.8**	**3146.2**	**28072.**	**3033.6**
Stddev	2.2	2.2	23.	3.4
%RSD	.06122	.07140	.08041	.11066
#1	3568.4	3144.6	28088.	3031.3
#2	3565.3	3147.8	28056.	3036.0

Sample Name: IC-6819272 Acquired: 12/17/2021 11:25:51 Type: Cal
Method: ICAP2 New stds DEC2019(v786) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00168**	**.01150**	**.00109**	**.01562**	**.04470**
Stddev	.00007	.00179	.00005	.00006	.00537
%RSD	3.9726	15.576	4.1561	.40188	12.014
#1	.00163	.01277	.00113	.01558	.04090
#2	.00173	.01023	.00106	.01567	.04849

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03158**	**.02521**	**.23985**	**.00640**	**.00762**
Stddev	.00024	.00086	.00133	.00048	.00011
%RSD	.76308	3.4087	.55650	7.4867	1.4110
#1	.03141	.02461	.23891	.00673	.00769
#2	.03175	.02582	.24080	.00606	.00754

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00175**	**.00367**	**.01306**	**-.00099**	**.05246**
Stddev	.00012	.00040	.00066	.00064	.00498
%RSD	6.6499	10.770	5.0924	64.103	9.4998
#1	.00167	.00395	.01259	-.00144	.04894
#2	.00183	.00339	.01353	-.00054	.05599

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07975**	**.00815**	**.00901**	**.00045**	**.00952**
Stddev	.00448	.00004	.00011	.00003	.00002
%RSD	5.6187	.49626	1.2477	6.5392	.24158
#1	.07658	.00812	.00909	.00043	.00953
#2	.08292	.00818	.00893	.00047	.00950

Sample Name: IC-6819272 Acquired: 12/17/2021 11:25:51 Type: Cal
Method: ICAP2 New stds DEC2019(v786) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.42397**	**-.02799**	**.00597**	**-.0016**	**.00275**
Stddev	.00535	.00239	.00008	.0001	.00001
%RSD	1.2619	8.5231	1.3613	4.767	.49877
#1	.42776	-.02968	.00591	-.0016	.00274
#2	.42019	-.02631	.00602	-.0017	.00276

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00634**	**.00259**	**.00161**	**.03810**	**.00347**
Stddev	.00008	.00002	.00003	.00075	.00012
%RSD	1.2283	.72086	1.9853	1.9781	3.5229
#1	.00628	.00258	.00159	.03757	.00338
#2	.00639	.00261	.00164	.03863	.00356

Elem	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Line	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}	292.402 {115}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07263**	**.0003**	**.00204**	**.00228**	**.00292**
Stddev	.00099	.0005	.00016	.00025	.00028
%RSD	1.3689	177.3	7.9858	11.156	9.4500
#1	.07334	-.0001	.00193	.00246	.00273
#2	.07193	.0006	.00216	.00210	.00312

Elem	Zn2062	Zr3438
Line	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S
Avg	**.00137**	**.0028**
Stddev	.00003	.0014
%RSD	2.0349	50.07
#1	.00135	.0038
#2	.00139	.0018

Sample Name: IC-6819272 Acquired: 12/17/2021 11:25:51 Type: Cal
Method: ICAP2 New stds DEC2019(v786) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3573.0**	**3158.1**	**28091.**	**3044.6**
Stddev	1.9	4.7	25.	6.9
%RSD	.05178	.14775	.08862	.22560
#1	3571.7	3161.4	28073.	3049.5
#2	3574.3	3154.8	28109.	3039.7

Sample Name: IC-6817081 Acquired: 12/17/2021 11:29:40 Type: Cal
Method: ICAP2 New stds DEC2019(v786) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.46087**	**2.3726**	**.12307**	**.68531**	**10.008**
Stddev	.00001	.0080	.00057	.00089	.012
%RSD	.00185	.33702	.46397	.13008	.11934
#1	.46087	2.3783	.12348	.68594	10.017
#2	.46086	2.3670	.12267	.68468	9.9999

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13.752**	**14.381**	**22.860**	**3.0077**	**.0579**
Stddev	.079	.026	.029	.0023	.0002
%RSD	.57123	.17887	.12600	.07735	.3344
#1	13.807	14.399	22.881	3.0094	.0577
#2	13.696	14.362	22.840	3.0061	.0580

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.8973**	**.46841**	**.43114**	**12.323**	**.90906**
Stddev	.0011	.00124	.00060	.018	.00157
%RSD	.06034	.26388	.13908	.14606	.17269
#1	1.8982	.46928	.43157	12.336	.91017
#2	1.8965	.46753	.43072	12.311	.90795

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.5033**	**3.0813**	**2.1742**	**2.5693**	**.15169**
Stddev	.0189	.0121	.0011	.0041	.00088
%RSD	.29017	.39332	.04889	.16130	.57782
#1	6.5166	3.0899	2.1749	2.5722	.15231
#2	6.4900	3.0727	2.1734	2.5664	.15107

Sample Name: IC-6817081 Acquired: 12/17/2021 11:29:40 Type: Cal
Method: ICAP2 New stds DEC2019(v786) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.93449**	**23.343**	**.81588**	**.66769**	**.32892**
Stddev	.00042	.032	.00923	.00083	.00061
%RSD	.04468	.13712	1.1318	.12440	.18622
#1	.93478	23.365	.82241	.66828	.32935
#2	.93419	23.320	.80935	.66710	.32849

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2937**	**.14702**	**.08395**	**.77823**	**.36992**
Stddev	.0014	.00058	.00033	.00058	.00054
%RSD	.10761	.39717	.39366	.07433	.14552
#1	1.2947	.14743	.08418	.77782	.37030
#2	1.2927	.14660	.08371	.77863	.36954

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**15.444**	**.66424**	**.12673**	**.68102**	**.13566**
Stddev	.010	.00089	.00009	.00016	.00023
%RSD	.06415	.13422	.07418	.02279	.17198
#1	15.451	.66487	.12666	.68091	.13582
#2	15.436	.66361	.12679	.68113	.13549

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3093.3**	**3036.4**	**26384.**	**3026.7**
Stddev	3.4	1.6	13.	14.6
%RSD	.11131	.05130	.05096	.48163
#1	3090.9	3035.3	26375.	3037.0
#2	3095.8	3037.5	26394.	3016.4

Sample Name: IC-6797476 Acquired: 12/17/2021 11:33:13 Type: Cal
Method: ICAP2 New stds DEC2019(v786) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.89142**	**4.6569**	**.24326**	**1.2854**	**19.727**
Stddev	.00073	.0129	.00041	.0019	.097
%RSD	.08225	.27664	.16825	.15081	.49311
#1	.89194	4.6660	.24297	1.2840	19.796
#2	.89090	4.6478	.24355	1.2868	19.658

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**26.185**	**28.102**	**44.860**	**5.9152**	**.1142**
Stddev	.067	.074	.198	.0039	.0020
%RSD	.25538	.26295	.44196	.06616	1.762
#1	26.137	28.154	45.000	5.9125	.1128
#2	26.232	28.050	44.719	5.9180	.1157

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.8044**	**.90835**	**.84904**	**24.052**	**1.7681**
Stddev	.0016	.00150	.00298	.137	.0172
%RSD	.04135	.16510	.35041	.57108	.97411
#1	3.8033	.90941	.85115	24.149	1.7803
#2	3.8055	.90729	.84694	23.955	1.7559

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.914**	**6.0758**	**4.3140**	**5.0152**	**.29782**
Stddev	.072	.0345	.0028	.0046	.00073
%RSD	.55727	.56798	.06571	.09068	.24518
#1	12.965	6.1002	4.3160	5.0184	.29833
#2	12.863	6.0514	4.3120	5.0120	.29730

Sample Name: IC-6797476 Acquired: 12/17/2021 11:33:13 Type: Cal
Method: ICAP2 New stds DEC2019(v786) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	P_2136
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.8070**	**46.371**	**1.6491**	**1.3321**	**5.053**
Stddev	.0006	.193	.0040	.0012	.005
%RSD	.03452	.41648	.24163	.09203	.0917
#1	1.8075	46.507	1.6519	1.3313	5.057
#2	1.8066	46.234	1.6463	1.3330	5.050

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.65537**	**2.5562**	**.28823**	**.16613**	**1.5020**
Stddev	.00021	.0008	.00011	.00083	.0052
%RSD	.03244	.03223	.03694	.49730	.34638
#1	.65552	2.5568	.28830	.16672	1.5057
#2	.65522	2.5557	.28815	.16555	1.4983

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Line	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.74216**	**30.418**	**.1239**	**1.3013**	**.24986**
Stddev	.00015	.152	.0002	.0001	.00053
%RSD	.02023	.50092	.1916	.00446	.21253
#1	.74226	30.526	.1237	1.3012	.25024
#2	.74205	30.311	.1240	1.3013	.24949

Elem	V_2924	Zn2062	Zr3438
Line	292.402 {115}	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S	Cts/S
Avg	**1.3340**	**.25495**	**1.604**
Stddev	.0013	.00019	.003
%RSD	.09552	.07440	.1927
#1	1.3349	.25509	1.606
#2	1.3331	.25482	1.601

Sample Name: IC-6797476 Acquired: 12/17/2021 11:33:13 Type: Cal
Method: ICAP2 New stds DEC2019(v786) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2893.6**	**2965.3**	**25639.**	**2982.7**
Stddev	4.9	6.5	16.	12.1
%RSD	.17088	.21773	.06315	.40485
#1	2897.1	2969.9	25628.	2974.1
#2	2890.1	2960.8	25651.	2991.2

Sample Name: ICV-6817392 Acquired: 12/17/2021 11:36:46 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75153**	**37.593**	**.72970**	**.75309**	**.73199**
Stddev	.00162	.051	.00374	.00028	.00125
%RSD	.21564	.13478	.51214	.03663	.17143
#1	.75268	37.557	.73234	.75328	.73110
#2	.75039	37.629	.72705	.75289	.73288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.73732**	**37.511**	**.73450**	**.0178**	W **.70820**
Stddev	.00232	.067	.00103	.0086	.00170
%RSD	.31479	.17834	.14082	48.40	.23990
#1	.73567	37.464	.73377	.0240	.70700
#2	.73896	37.558	.73524	.0117	.70940
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Warn
Value					.75000
Range					-5.0000%

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.74277**	**.72274**	**37.772**	**37.271**	**.73511**
Stddev	.00035	.00104	.004	.032	.00055
%RSD	.04723	.14325	.00927	.08506	.07524
#1	.74252	.72347	37.775	37.293	.73471
#2	.74302	.72201	37.770	37.248	.73550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-6817392 Acquired: 12/17/2021 11:36:46 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.205**	**.73975**	**.74968**	**36.939**	**.71873**
Stddev	.034	.00009	.00077	.097	.00009
%RSD	.09192	.01174	.10208	.26260	.01284
#1	37.181	.73981	.74914	36.871	.71867
#2	37.229	.73968	.75022	37.008	.71880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.40**	**.72115**	**18.552**	**.73613**	**.73244**
Stddev	.01	.00140	.014	.00077	.00232
%RSD	.0357	.19465	.07437	.10436	.31699
#1	34.39	.72215	18.542	.73667	.73080
#2	34.41	.72016	18.562	.73559	.73408
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3965**	**.71781**	**.73069**	**1.032**	**.74237**
Stddev	.0578	.00106	.00051	.011	.00088
%RSD	.78078	.14773	.07005	1.098	.11903
#1	7.3557	.71706	.73033	1.024	.74300
#2	7.4373	.71856	.73105	1.040	.74175
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: ICV-6817392 Acquired: 12/17/2021 11:36:46 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.73564**	**.73943**	**.74429**	**1.006**
Stddev	.00058	.00006	.00029	.001
%RSD	.07916	.00763	.03949	.0579
#1	.73523	.73939	.74409	1.006
#2	.73605	.73947	.74450	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3147.8**	**3029.2**	**26370.**	**3000.9**
Stddev	5.0	3.9	94.	9.1
%RSD	.15771	.12896	.35630	.30299
#1	3144.3	3026.4	26436.	3007.4
#2	3151.3	3032.0	26304.	2994.5

Sample Name: ICB-6819143 Acquired: 12/17/2021 11:40:21 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**-.00524**	**-.00020**	**.00044**	**.00008**
Stddev	.00037	.01404	.00162	.00019	.00006
%RSD	72.408	268.00	799.77	43.833	69.443
#1	.00025	-.01517	.00094	.00057	.00012
#2	.00078	.00469	-.00135	.00030	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00012**	**.00009**	**-.0112**	**.00004**
Stddev	.00007	.00453	.00008	.0271	.00012
%RSD	170.48	3636.3	89.290	241.6	334.33
#1	-.00001	-.00333	.00015	-.0304	.00013
#2	.00010	.00308	.00003	.0079	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00096**	**.00105**	**.00652**	**-.00014**
Stddev	.00009	.00020	.00205	.03209	.00006
%RSD	43.277	20.387	196.24	492.02	45.144
#1	-.00026	.00082	-.00041	-.01617	-.00009
#2	-.00014	.00110	.00250	.02921	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-6819143 Acquired: 12/17/2021 11:40:21 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**-.00003**	**.00119**	**-.00608**	**-.00033**
Stddev	.00037	.00000	.00018	.00682	.00010
%RSD	19.702	3.9364	15.020	112.12	29.627
#1	.00164	-.00003	.00106	-.01090	-.00040
#2	.00217	-.00003	.00131	-.00126	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00026**	**-.00368**	**.00148**	**.00288**
Stddev	.00	.00014	.00049	.00037	.00402
%RSD	.0035	55.184	13.333	25.134	139.74
#1	25.01	-.00016	-.00334	.00121	.00572
#2	25.01	-.00036	-.00403	.00174	.00003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00640**	**.00030**	**.00029**	**1.003**	**.00011**
Stddev	.01727	.00047	.00003	.004	.00020
%RSD	269.74	156.47	11.984	.3602	183.26
#1	-.01862	.00064	.00031	1.005	.00025
#2	.00581	-.00003	.00026	1.000	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-6819143 Acquired: 12/17/2021 11:40:21 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00028**	**-.00004**	**.9979**
Stddev	.00023	.00011	.00016	.0009
%RSD	89.892	40.523	426.35	.0904
#1	-.00042	.00020	-.00015	.9985
#2	-.00009	.00036	.00008	.9973
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3577.0**	**3124.2**	**27991.**	**3024.4**
Stddev	.8	1.2	177.	16.1
%RSD	.02248	.03688	.63284	.53227
#1	3576.4	3125.0	27866.	3013.0
#2	3577.5	3123.4	28116.	3035.8

Sample Name: ICVL-6819272 Acquired: 12/17/2021 11:44:09 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00587**	**.21809**	**.01403**	**.01921**	**.00213**
Stddev	.00004	.01555	.00074	.00006	.00001
%RSD	.73050	7.1301	5.2446	.28708	.55958
#1	.00584	.22908	.01351	.01917	.00214
#2	.00590	.20709	.01455	.01925	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.49375**	**.00192**	**.0139**	**.00355**
Stddev	.00009	.00022	.00007	.0342	.00003
%RSD	4.7009	.04436	3.7259	246.5	.82543
#1	.00186	.49360	.00187	.0380	.00353
#2	.00199	.49391	.00198	-.0103	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00444**	**.01032**	**.05000**	**.49712**	**.03001**
Stddev	.00028	.00015	.00300	.02652	.00007
%RSD	6.2986	1.4948	6.0046	5.3352	.23081
#1	.00464	.01021	.05212	.47837	.03006
#2	.00424	.01043	.04788	.51588	.02997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-6819272 Acquired: 12/17/2021 11:44:09 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18842**	**.00312**	**.01001**	**.95094**	**.00938**
Stddev	.00238	.00002	.00019	.00557	.00002
%RSD	1.2614	.59334	1.9133	.58563	.21972
#1	.19010	.00311	.00987	.94700	.00936
#2	.18674	.00314	.01014	.95488	.00939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00968**	**.18490**	**.02059**	**.02187**
Stddev	.00	.00161	.00118	.00009	.00162
%RSD	.0036	16.644	.63992	.41665	7.4218
#1	25.00	.01082	.18407	.02065	.02072
#2	25.00	.00854	.18574	.02053	.02302
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46874**	**.00908**	**.00496**	F **.9991**	**.00466**
Stddev	.00923	.00025	.00010	.0064	.00039
%RSD	1.9687	2.7725	1.9298	.6391	8.4158
#1	.47527	.00890	.00503	.9946	.00439
#2	.46222	.00926	.00489	1.004	.00494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: ICVL-6819272 Acquired: 12/17/2021 11:44:09 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01973**	**.00488**	**.01013**	F **.9981**
Stddev	.00028	.00009	.00008	.0011
%RSD	1.4314	1.7987	.81860	.1135
#1	.01953	.00481	.01007	.9989
#2	.01993	.00494	.01019	.9973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3578.9**	**3144.5**	**28063.**	**3097.0**
Stddev	7.8	5.1	31.	27.5
%RSD	.21669	.16141	.11164	.88681
#1	3573.4	3140.9	28041.	3116.4
#2	3584.3	3148.1	28085.	3077.6

Sample Name: ICSA-6812501 Acquired: 12/17/2021 11:47:56 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00177**	**513.75**	**-.00623**	**-.00278**	**.01356**
Stddev	.00008	2.14	.00139	.00062	.00004
%RSD	4.5956	.41683	22.400	22.440	.31575
#1	-.00183	515.26	-.00524	-.00234	.01359
#2	-.00172	512.23	-.00721	-.00322	.01353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**487.39**	**.00043**	**.0237**	**-.00002**
Stddev	.00002	.62	.00028	.0235	.00017
%RSD	43.599	.12781	66.820	99.38	1015.1
#1	-.00007	487.83	.00022	.0070	.00010
#2	-.00003	486.95	.00063	.0403	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**-.00041**	**193.27**	**.22841**	**.01460**
Stddev	.00001	.00053	.88	.00182	.00051
%RSD	1.5323	127.58	.45508	.79848	3.4774
#1	.00094	-.00079	193.90	.22970	.01424
#2	.00096	-.00004	192.65	.22712	.01496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-6812501 Acquired: 12/17/2021 11:47:56 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**530.70**	**-.00020**	**-.00162**	**.05781**	**.00031**
Stddev	2.62	.00003	.00004	.00189	.00013
%RSD	.49437	17.247	2.4614	3.2662	43.706
#1	528.85	-.00018	-.00159	.05914	.00040
#2	532.56	-.00023	-.00165	.05647	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.90**	**-.00239**	**-.13599**	**-.01041**	**.00512**
Stddev	.00	.00096	.00075	.00116	.00543
%RSD	.0118	40.100	.54963	11.148	106.02
#1	24.90	-.00171	-.13652	-.00959	.00896
#2	24.91	-.00307	-.13546	-.01123	.00128
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00043**	**.01351**	**1.099**	**.00314**
Stddev	.00522	.00094	.00001	.000	.00005
%RSD	1045.9	218.04	.06301	.0065	1.6008
#1	.00319	.00023	.01351	1.099	.00318
#2	-.00419	-.00110	.01352	1.099	.00311
Check ?	None	Chk Pass	None	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-6812501 Acquired: 12/17/2021 11:47:56 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00035**	**-.00018**	**.00398**	**1.002**
Stddev	.00033	.00075	.00011	.000
%RSD	94.069	427.21	2.6414	.0368
#1	.00058	.00035	.00405	1.002
#2	.00012	-.00071	.00390	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2611.5**	**2759.5**	**23627.**	**2956.5**
Stddev	.8	.4	111.	13.6
%RSD	.03143	.01426	.46795	.45971
#1	2612.1	2759.2	23549.	2946.9
#2	2610.9	2759.7	23705.	2966.1

Sample Name: ICSAB-6743474 Acquired: 12/17/2021 11:51:47 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54290**	**504.69**	**.50995**	**4.9391**	**.52743**
Stddev	.00205	3.05	.00779	.0024	.00000
%RSD	.37781	.60398	1.5281	.04814	.00084
#1	.54435	502.53	.51546	4.9408	.52743
#2	.54145	506.84	.50444	4.9374	.52742
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25250**	**480.12**	**.52698**	**.0705**	**.50321**
Stddev	.00144	3.60	.00075	.0131	.00060
%RSD	.57093	.74985	.14207	18.63	.11869
#1	.25148	477.57	.52645	.0612	.50278
#2	.25352	482.66	.52751	.0798	.50363
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50112**	**.51776**	**188.04**	**5.2105**	**.01620**
Stddev	.00142	.00198	.52	.0148	.00146
%RSD	.28264	.38171	.27628	.28433	8.9935
#1	.50212	.51916	187.67	5.2210	.01723
#2	.50012	.51637	188.41	5.2000	.01517
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-6743474 Acquired: 12/17/2021 11:51:47 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**512.49**	**.49466**	**.50164**	**5.1075**	**.50393**
Stddev	.23	.00065	.00131	.0208	.00044
%RSD	.04565	.13064	.26198	.40738	.08679
#1	512.66	.49512	.50257	5.0927	.50424
#2	512.33	.49421	.50071	5.1222	.50362
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.28**	**.50890**	**-.13347**	**.50378**	**.49873**
Stddev	.00	.00212	.00169	.00642	.00067
%RSD	.0020	.41593	1.2690	1.2735	.13377
#1	27.28	.50740	-.13467	.50831	.49826
#2	27.28	.51040	-.13227	.49924	.49921
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8927**	**.50717**	**.50631**	**1.077**	**.51330**
Stddev	.0165	.00158	.00185	.001	.00098
%RSD	.33699	.31177	.36445	.0956	.19030
#1	4.9044	.50829	.50500	1.078	.51399
#2	4.8810	.50606	.50761	1.076	.51261
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ICSAB-6743474 Acquired: 12/17/2021 11:51:47 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.50301**	**.50649**	**.47503**	**1.001**
Stddev	.00055	.00139	.00292	.000
%RSD	.10955	.27395	.61493	.0308
#1	.50262	.50747	.47709	1.001
#2	.50340	.50551	.47296	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2605.4**	**2744.1**	**23854.**	**2923.1**
Stddev	4.2	4.6	1.	3.4
%RSD	.16042	.16872	.00449	.11693
#1	2602.5	2740.8	23853.	2925.5
#2	2608.4	2747.4	23855.	2920.7

Sample Name: ICEX1 Acquired: 12/17/2021 11:55:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.17004**	**4.8548**	**.00333**	**.00005**
Stddev	.00064	.01522	.0079	.00037	.00005
%RSD	430.81	8.9517	.16325	11.033	98.631
#1	.00030	-.18080	4.8604	.00359	.00008
#2	-.00060	-.15927	4.8492	.00307	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00158**	**.00903**	**.00026**	**-.0152**	**.00023**
Stddev	.00000	.00267	.00016	.0149	.00008
%RSD	.25205	29.515	62.191	97.90	34.686
#1	.00158	.01091	.00037	-.0047	.00017
#2	.00158	.00715	.00015	-.0257	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**25.836**	**.00882**	**-.01474**	**-.00033**
Stddev	.00013	.539	.00051	.00853	.00313
%RSD	15.482	2.0850	5.8185	57.909	936.44
#1	.00093	25.455	.00846	-.00870	-.00255
#2	.00075	26.217	.00918	-.02077	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 12/17/2021 11:55:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00352**	**-.00025**	**-.00107**	**-.01130**	**-.00003**
Stddev	.00265	.00002	.00013	.00387	.00016
%RSD	75.267	9.6020	11.892	34.241	484.56
#1	.00165	-.00023	-.00116	-.01404	.00008
#2	.00540	-.00027	-.00098	-.00857	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.00313**	**-.00289**	**.00188**	**.00171**
Stddev	-----	.00013	.00418	.00342	.00344
%RSD	-----	4.2346	144.60	181.55	200.66
#1	^ -----	.00304	.00007	-.00053	.00415
#2	^ -----	.00322	-.00585	.00430	-.00072
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02691**	**.00056**	**.00004**	**.9996**	**.00001**
Stddev	.00737	.00032	.00008	.0074	.00002
%RSD	27.381	56.713	180.17	.7366	180.57
#1	.02170	.00033	-.00001	.9944	-.00000
#2	.03212	.00078	.00010	1.005	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 12/17/2021 11:55:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00098**	**4.9233**	**.00045**	**.9992**
Stddev	.00051	.0022	.00004	.0010
%RSD	52.574	.04531	8.4953	.0988
#1	-.00134	4.9217	.00042	.9999
#2	-.00061	4.9249	.00047	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3560.0**	**3091.5**	**28095.**	**2953.7**
Stddev	7.0	8.1	134.	4.2
%RSD	.19695	.26262	.47793	.14184
#1	3565.0	3097.3	28000.	2956.7
#2	3555.0	3085.8	28190.	2950.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.808%	98.261%	100.08%	97.365%
Range				

Sample Name: ICEX2 Acquired: 12/17/2021 11:59:22 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.02645**	**-.00194**	**.00235**	**.00011**
Stddev	.00077	.00007	.00238	.00010	.00004
%RSD	141.19	.25317	122.80	4.3192	33.846
#1	-.00109	.02650	-.00025	.00228	.00014
#2	-.00000	.02641	-.00362	.00242	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00690**	**.00115**	**.0169**	**.00207**
Stddev	.00001	.00071	.00003	.0037	.00017
%RSD	4.8053	10.305	2.7010	21.92	8.1188
#1	-.00021	.00640	.00113	.0143	.00218
#2	-.00020	.00740	.00118	.0195	.00195
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00003**	**-.00052**	**-.08182**	**10.010**
Stddev	.00009	.00010	.00151	.05432	.016
%RSD	13.054	376.62	291.65	66.390	.15590
#1	.00063	-.00004	.00055	-.12023	10.021
#2	.00076	.00010	-.00159	-.04341	9.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 12/17/2021 11:59:22 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00221**	**.00012**	**.00057**	**-.02998**	**.00703**
Stddev	.00220	.00013	.00004	.00615	.00035
%RSD	99.604	103.45	6.9641	20.506	4.9629
#1	.00065	.00021	.00060	-.02563	.00678
#2	.00376	.00003	.00054	-.03432	.00727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00080**	**-.01038**	**.01274**	**-.00076**
Stddev	.00	.00100	.00049	.00211	.00044
%RSD	.0004	124.94	4.7222	16.537	57.436
#1	25.01	-.00151	-.01072	.01125	-.00045
#2	25.01	-.00009	-.01003	.01423	-.00107
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.583**	**-.00242**	**.00021**	**.9898**	**20.131**
Stddev	.417	.00022	.00008	.0125	.035
%RSD	.84060	9.2915	36.903	1.264	.17278
#1	49.288	-.00226	.00016	.9986	20.155
#2	49.878	-.00258	.00027	.9809	20.106
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 12/17/2021 11:59:22 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**20.093**	**-.00274**	**-.00075**	**1.004**
Stddev	.008	.00009	.00011	.001
%RSD	.03990	3.1702	14.069	.0887
#1	20.087	-.00268	-.00083	1.005
#2	20.098	-.00280	-.00068	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3366.0**	**3066.3**	**27184.**	**2992.8**
Stddev	21.7	18.0	2.	4.3
%RSD	.64554	.58639	.00677	.14332
#1	3350.7	3053.6	27185.	2995.8
#2	3381.4	3079.1	27182.	2989.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.370%	97.461%	96.835%	98.654%
Range				

Sample Name: ICEX3 Acquired: 12/17/2021 12:03:11 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.01368**	**.00432**	**-.00061**	**-.00002**
Stddev	.00070	.01017	.00097	.00039	.00005
%RSD	230.56	74.312	22.368	63.957	339.54
#1	-.00080	.00649	.00364	-.00089	.00002
#2	.00019	.02087	.00500	-.00033	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00193**	**.00014**	**-.5118**	**.00010**
Stddev	.00006	.00169	.00013	.0396	.00008
%RSD	282.82	88.026	96.667	7.735	82.426
#1	-.00002	-.00312	.00023	-.4838	.00016
#2	.00007	-.00073	.00004	-.5398	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**.00094**	**-.01391**	**.02356**	**.00242**
Stddev	.00023	.00050	.00490	.02471	.00156
%RSD	13.520	52.789	35.248	104.85	64.294
#1	.00154	.00129	-.01737	.04103	.00132
#2	.00187	.00059	-.01044	.00609	.00352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 12/17/2021 12:03:11 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02254**	**48.458**	**-.00400**	**-.02262**	**.00031**
Stddev	.00198	.217	.00010	.00399	.00004
%RSD	8.7934	.44715	2.4336	17.639	12.928
#1	-.02114	48.611	-.00393	-.01980	.00029
#2	-.02395	48.305	-.00407	-.02544	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00480**	**94.855**	**-.00467**	**.00397**
Stddev	.00	.00068	.072	.00409	.00129
%RSD	.0039	14.218	.07567	87.694	32.387
#1	25.01	.00432	94.805	-.00756	.00488
#2	25.01	.00528	94.906	-.00177	.00306
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02693**	**-.00013**	**.00018**	**.9936**	**.00423**
Stddev	.01391	.00016	.00014	.0042	.00035
%RSD	51.656	126.59	79.998	.4223	8.1927
#1	.03677	-.00024	.00008	.9906	.00399
#2	.01710	-.00001	.00028	.9966	.00448
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 12/17/2021 12:03:11 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00225**	**.00020**	**.9814**
Stddev	.00083	.00032	.00012	.0000
%RSD	24468.	14.014	59.229	.0017
#1	.00058	.00203	.00028	.9815
#2	-.00059	.00247	.00011	.9814
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3583.5**	**3142.2**	**28120.**	**3081.3**
Stddev	13.7	9.2	38.	21.1
%RSD	.38357	.29276	.13593	.68514
#1	3573.8	3135.7	28093.	3096.3
#2	3593.2	3148.7	28147.	3066.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.47%	99.872%	100.17%	101.57%
Range				

Sample Name: ICEX4 Acquired: 12/17/2021 12:07:02 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00941**	**-.00009**	**-.00127**	**.00011**
Stddev	.00110	.01681	.00052	.00033	.00001
%RSD	741.80	178.68	606.45	26.338	12.502
#1	-.00093	-.00248	-.00045	-.00103	.00010
#2	.00063	.02129	.00028	-.00150	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00255**	**.00025**	**.0177**	**18.701**
Stddev	.00002	.00005	.00012	.0153	.020
%RSD	14.976	1.8371	48.874	86.80	.10543
#1	-.00012	.00259	.00034	.0285	18.715
#2	-.00010	.00252	.00016	.0068	18.687
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.242**	**.00739**	**-.00064**	**-.03349**	**.00215**
Stddev	.001	.00068	.00479	.07340	.00001
%RSD	.00559	9.1918	746.23	219.17	.66372
#1	10.242	.00787	-.00403	-.08539	.00216
#2	10.242	.00691	.00275	.01841	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 12/17/2021 12:07:02 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00081**	**-.00061**	**-.02646**	**9.4751**
Stddev	.00713	.00005	.00015	.00707	.0010
%RSD	1623.6	6.5089	24.770	26.727	.01062
#1	-.00460	.00077	-.00051	-.02146	9.4744
#2	.00548	.00085	-.00072	-.03146	9.4758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00199**	**.04418**	**.00117**	**-.00189**
Stddev	.00	.00080	.00034	.00090	.00103
%RSD	.0042	40.060	.76692	76.745	54.495
#1	25.01	-.00142	.04442	.00180	-.00116
#2	25.01	-.00255	.04394	.00053	-.00261
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.12464**	**.00013**	**.00015**	**.9969**	**.00217**
Stddev	.01310	.00047	.00001	.0069	.00047
%RSD	10.514	353.45	10.111	.6886	21.666
#1	-.13391	.00047	.00014	1.002	.00250
#2	-.11537	-.00020	.00016	.9921	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 12/17/2021 12:07:02 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00442**	**.00053**	**-.00093**	**.9946**
Stddev	.00028	.00011	.00029	.0003
%RSD	6.4449	21.295	30.693	.0267
#1	-.00462	.00045	-.00114	.9948
#2	-.00422	.00061	-.00073	.9945
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3595.0**	**3072.1**	**28019.**	**3066.0**
Stddev	6.7	6.8	26.	10.1
%RSD	.18558	.22187	.09421	.32933
#1	3590.3	3067.3	28038.	3073.1
#2	3599.7	3077.0	28001.	3058.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.79%	97.645%	99.811%	101.07%
Range				

Sample Name: ICEX5 Acquired: 12/17/2021 12:10:46 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.14132**	**-.00214**	**-.00133**	**-.00010**
Stddev	.00045	.00907	.00348	.00024	.00002
%RSD	78.674	6.4165	162.15	17.702	15.278
#1	-.00026	.13491	.00031	-.00150	-.00009
#2	-.00090	.14773	-.00460	-.00117	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00007**	**-.00011**	**-.0084**	**-.00193**
Stddev	.00002	.00118	.00006	.0509	.00017
%RSD	17.064	1579.7	50.374	604.5	8.9759
#1	-.00015	-.00091	-.00015	-.0444	-.00181
#2	-.00011	.00076	-.00007	.0276	-.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00126**	**.00066**	**-.03361**	**-.00133**
Stddev	.00007	.00012	.00201	.00383	.00041
%RSD	186.03	9.2844	305.97	11.408	30.823
#1	-.00001	-.00134	-.00077	-.03090	-.00104
#2	.00009	-.00117	.00208	-.03632	-.00162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 12/17/2021 12:10:46 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.05745**	**.00024**	**5.1230**	**-.00242**	**.00006**
Stddev	.00232	.00004	.0039	.00333	.00021
%RSD	4.0323	17.333	.07558	137.91	326.81
#1	-.05909	.00021	5.1203	-.00477	-.00008
#2	-.05581	.00027	5.1258	-.00006	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**-.00541**	**-.02845**	**.00085**	**.00172**
Stddev	.00	.00144	.00298	.00087	.00164
%RSD	.0013	26.678	10.484	102.42	94.907
#1	25.00	-.00439	-.03056	.00147	.00057
#2	25.00	-.00643	-.02634	.00024	.00288
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12286**	**.00003**	**.00006**	**.9998**	**-.00128**
Stddev	.01301	.00043	.00011	.0018	.00053
%RSD	10.591	1559.2	179.63	.1804	41.627
#1	.11366	-.00027	-.00002	1.001	-.00090
#2	.13206	.00033	.00014	.9985	-.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 12/17/2021 12:10:46 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00024**	**-.00068**	**.9979**
Stddev	.00089	.00003	.00013	.0000
%RSD	487.73	10.962	19.283	.0003
#1	.00045	-.00022	-.00059	.9979
#2	-.00081	-.00026	-.00078	.9979
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3561.0**	**3111.9**	**28179.**	**3052.7**
Stddev	2.5	.7	42.	28.1
%RSD	.07072	.02349	.15040	.92081
#1	3562.8	3111.4	28209.	3072.5
#2	3559.2	3112.4	28149.	3032.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.836%	98.909%	100.38%	100.63%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 12:14:34 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99692**	**50.408**	**.98949**	**1.0263**	**.98807**
Stddev	.00005	.263	.00363	.0013	.00587
%RSD	.00548	.52106	.36717	.12302	.59419
#1	.99688	50.593	.99206	1.0255	.99223
#2	.99695	50.222	.98692	1.0272	.98392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0057**	**49.872**	**.99841**	**.9810**	**.96730**
Stddev	.0062	.432	.00263	.0345	.00257
%RSD	.61957	.86557	.26356	3.522	.26568
#1	1.0101	50.177	.99655	1.005	.96548
#2	1.0013	49.567	1.0003	.9565	.96912
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0023**	**.99000**	**49.699**	**49.214**	**.99617**
Stddev	.0011	.00169	.388	.422	.00239
%RSD	.11299	.17029	.77974	.85797	.23995
#1	1.0015	.98881	49.973	49.513	.99786
#2	1.0031	.99120	49.425	48.916	.99448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 12:14:34 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.510**	**.98948**	**1.0166**	**49.558**	**.96942**
Stddev	.031	.00009	.0020	.327	.00073
%RSD	.06392	.00935	.20100	.65914	.07566
#1	48.532	.98941	1.0180	49.789	.96891
#2	48.488	.98954	1.0151	49.327	.96994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.43**	**.97121**	**24.648**	**1.0012**	**.98351**
Stddev	.01	.00191	.023	.0011	.00166
%RSD	.0182	.19709	.09216	.11427	.16854
#1	37.43	.96986	24.632	1.0004	.98468
#2	37.44	.97256	24.664	1.0021	.98234
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9479**	**.96907**	**.98973**	**1.505**	**.99860**
Stddev	.0061	.00007	.00655	.006	.00147
%RSD	.06096	.00741	.66171	.3903	.14724
#1	9.9436	.96912	.99436	1.509	.99756
#2	9.9522	.96902	.98510	1.500	.99964
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 12:14:34 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98493**	**.99820**	**1.0113**	**1.504**
Stddev	.00149	.00127	.0006	.001
%RSD	.15083	.12684	.05937	.0339
#1	.98387	.99731	1.0117	1.504
#2	.98598	.99910	1.0109	1.504
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3088.0**	**2991.4**	**26225.**	**2944.7**
Stddev	7.2	10.2	2.	27.6
%RSD	.23388	.34091	.00700	.93629
#1	3082.9	2984.2	26226.	2925.2
#2	3093.1	2998.6	26224.	2964.2

Sample Name: CCB-6819143 Acquired: 12/17/2021 12:18:06 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00118**	**.00062**	**-.00118**	**.00009**
Stddev	.00023	.00529	.00138	.00008	.00005
%RSD	35.459	447.50	221.50	6.7033	55.471
#1	.00048	.00492	-.00035	-.00112	.00013
#2	.00080	-.00256	.00160	-.00123	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00398**	**-.00017**	**-.0453**	**-.00007**
Stddev	.00006	.00184	.00014	.0245	.00001
%RSD	135.55	46.246	81.021	54.14	19.535
#1	.00009	-.00268	-.00027	-.0627	-.00008
#2	.00000	-.00528	-.00007	-.0280	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00095**	**-.00031**	**-.00266**	**.00144**
Stddev	.00021	.00057	.00132	.04926	.00077
%RSD	564.34	59.553	432.35	1848.9	52.991
#1	-.00011	.00135	.00063	-.03750	.00199
#2	.00018	.00055	-.00124	.03217	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 12:18:06 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00380**	**.00016**	**.00197**	**-.02447**	**-.00013**
Stddev	.00440	.00005	.00007	.00568	.00001
%RSD	115.82	29.962	3.4757	23.231	10.822
#1	-.00069	.00019	.00192	-.02849	-.00014
#2	-.00691	.00013	.00202	-.02045	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00082**	**-.00466**	**.00034**	**.00089**
Stddev	.00	.00083	.00236	.00349	.00105
%RSD	.0036	101.29	50.628	1022.2	117.80
#1	25.01	-.00141	-.00633	.00281	.00015
#2	25.01	-.00023	-.00299	-.00212	.00163
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00198**	**.00019**	**.00008**	**1.002**	**.00006**
Stddev	.00478	.00037	.00005	.006	.00072
%RSD	241.87	197.89	61.360	.6363	1144.9
#1	.00140	.00045	.00005	.9973	-.00044
#2	-.00536	-.00007	.00012	1.006	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 12:18:06 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00061**	**-.00015**	**.9984**
Stddev	.00047	.00014	.00038	.0007
%RSD	223.94	22.417	263.83	.0694
#1	.00054	.00071	.00013	.9979
#2	-.00012	.00051	-.00042	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3592.4**	**3102.6**	**27945.**	**3028.5**
Stddev	1.1	5.6	106.	4.2
%RSD	.03101	.18082	.38087	.13749
#1	3591.6	3098.7	28020.	3025.6
#2	3593.1	3106.6	27870.	3031.5

Sample Name: CCVL-6819272 Acquired: 12/17/2021 12:34:34 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00485**	**.20472**	**.01284**	**.01703**	**.00202**
Stddev	.00004	.03332	.00120	.00064	.00003
%RSD	.75614	16.276	9.3791	3.7326	1.3951
#1	.00487	.22828	.01370	.01748	.00200
#2	.00482	.18116	.01199	.01658	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**.49565**	**.00186**	**-.0003**	**.00359**
Stddev	.00004	.00062	.00010	.0323	.00027
%RSD	1.8546	.12475	5.5739	11590.	7.4882
#1	.00198	.49521	.00178	.0226	.00340
#2	.00193	.49608	.00193	-.0231	.00378
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00426**	**.01044**	**.04969**	**.48199**	**.03044**
Stddev	.00009	.00049	.00342	.01928	.00189
%RSD	2.0122	4.7295	6.8891	4.0001	6.2188
#1	.00420	.01009	.05211	.46836	.02911
#2	.00432	.01079	.04727	.49562	.03178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 12:34:34 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18704**	**.00299**	**.01052**	**.94259**	**.00937**
Stddev	.00081	.00009	.00016	.01156	.00006
%RSD	.43055	2.8857	1.4918	1.2269	.63483
#1	.18647	.00305	.01041	.93441	.00933
#2	.18761	.00293	.01063	.95077	.00942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00893**	**.17891**	**.02015**	**.02324**
Stddev	.00	.00014	.00337	.00134	.00166
%RSD	.0041	1.6118	1.8851	6.6575	7.1448
#1	25.00	.00903	.17652	.01920	.02207
#2	25.00	.00883	.18129	.02110	.02441
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46424**	**.00930**	**.00505**	F **1.003**	**.00524**
Stddev	.00976	.00009	.00006	.003	.00059
%RSD	2.1026	1.0076	1.0975	.2601	11.183
#1	.47114	.00936	.00509	1.001	.00483
#2	.45733	.00923	.00501	1.005	.00566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 12:34:34 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01868**	**.00477**	**.01008**	F **.9985**
Stddev	.00062	.00015	.00037	.0005
%RSD	3.3024	3.1057	3.6503	.0502
#1	.01824	.00467	.00982	.9988
#2	.01911	.00488	.01034	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3589.3**	**3114.5**	**27965.**	**3054.2**
Stddev	4.8	1.1	77.	16.6
%RSD	.13489	.03452	.27405	.54366
#1	3585.9	3113.8	28020.	3065.9
#2	3592.7	3115.3	27911.	3042.4

Sample Name: MB 480-609016/1-A Acquired: 12/17/2021 12:38:20 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00925**	**-.00007**	**-.00256**	**.00008**
Stddev	.00049	.01730	.00153	.00009	.00001
%RSD	452.16	187.01	2172.4	3.6739	18.028
#1	.00045	-.00298	-.00115	-.00263	.00009
#2	-.00024	.02148	.00101	-.00250	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.03242**	**-.00003**	**-.0129**	**-.00012**
Stddev	.00008	.00139	.00012	.0329	.00001
%RSD	125.07	4.2962	436.19	255.7	9.8322
#1	.00013	.03144	.00006	.0104	-.00013
#2	.00001	.03341	-.00011	-.0362	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00172**	**-.00097**	**.03098**	**.00114**
Stddev	.00011	.00075	.00026	.02134	.00087
%RSD	62.751	43.683	26.882	68.899	76.262
#1	-.00009	.00226	-.00078	.04607	.00175
#2	-.00024	.00119	-.00115	.01589	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-609016/1-A Acquired: 12/17/2021 12:38:20 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.00011**	**-.00062**	**-.00435**	**-.00002**
Stddev	.00504	.00007	.00014	.00127	.00026
%RSD	974.95	65.286	22.529	29.155	1192.9
#1	.00408	.00006	-.00072	-.00346	.00016
#2	-.00305	.00016	-.00052	-.00525	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00065**	**.00065**	**.00010**	**-.00096**
Stddev	.00	.00189	.00243	.00006	.00211
%RSD	.0014	289.56	375.86	56.077	219.72
#1	25.01	-.00199	-.00107	.00006	-.00246
#2	25.01	.00069	.00237	.00014	.00053
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00363**	**.00014**	**.00016**	**.9940**	**-.00029**
Stddev	.00684	.00021	.00011	.0031	.00003
%RSD	188.35	154.34	65.417	.3160	9.9124
#1	.00120	.00028	.00024	.9917	-.00027
#2	-.00846	-.00001	.00009	.9962	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-609016/1-A Acquired: 12/17/2021 12:38:20 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00157**	**.00019**	**.00085**	**.9993**
Stddev	.00029	.00027	.00044	.0006
%RSD	18.504	138.45	51.321	.0592
#1	-.00178	.00000	.00054	.9989
#2	-.00137	.00038	.00116	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3637.0**	**3158.3**	**28465.**	**3081.4**
Stddev	5.2	5.7	95.	1.2
%RSD	.14196	.17918	.33488	.03979
#1	3633.4	3154.3	28532.	3080.5
#2	3640.7	3162.3	28397.	3082.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.97%	100.38%	101.40%	101.57%
Range				

Sample Name: LCS 480-609016/2-A Acquired: 12/17/2021 12:42:07 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04849**	**10.253**	**.20917**	**.20470**	**.20662**
Stddev	.00066	.051	.00184	.00065	.00037
%RSD	1.3513	.49501	.87832	.31992	.18019
#1	.04802	10.289	.21047	.20516	.20636
#2	.04895	10.217	.20787	.20424	.20688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21354**	**10.046**	**.20240**	**-.0486**	**.18963**
Stddev	.00056	.036	.00012	.0018	.00043
%RSD	.26001	.35699	.05900	3.704	.22910
#1	.21394	10.072	.20248	-.0474	.18993
#2	.21315	10.021	.20232	-.0499	.18932
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20086**	**.20081**	**10.149**	**9.9232**	**.19977**
Stddev	.00032	.00003	.018	.0150	.00023
%RSD	.15700	.01587	.17873	.15151	.11299
#1	.20108	.20078	10.136	9.9338	.19961
#2	.20063	.20083	10.162	9.9126	.19993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-609016/2-A Acquired: 12/17/2021 12:42:07 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.130**	**.20581**	**.20779**	**9.8251**	**.19106**
Stddev	.005	.00002	.00012	.0273	.00017
%RSD	.04941	.00816	.05556	.27832	.08699
#1	10.127	.20582	.20771	9.8444	.19118
#2	10.134	.20580	.20787	9.8058	.19094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.83**	**.19509**	**9.8064**	**.21675**	**.19841**
Stddev	.00	.00175	.0026	.00015	.00056
%RSD	.0058	.89676	.02608	.06900	.28004
#1	24.84	.19633	9.8046	.21665	.19881
#2	24.83	.19385	9.8082	.21686	.19802
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6774**	**.18713**	**.20230**	**1.004**	**.20428**
Stddev	.0015	.00014	.00027	.007	.00080
%RSD	.01599	.07619	.13287	.7215	.39259
#1	9.6763	.18723	.20211	.9993	.20485
#2	9.6785	.18703	.20249	1.010	.20371
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-609016/2-A Acquired: 12/17/2021 12:42:07 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20042**	**.19942**	**.20488**	**1.005**
Stddev	.00101	.00009	.00033	.001
%RSD	.50409	.04355	.16022	.1138
#1	.19971	.19936	.20511	1.004
#2	.20114	.19948	.20465	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3431.1**	**3105.6**	**27562.**	**3082.1**
Stddev	2.1	3.7	48.	13.1
%RSD	.06209	.11872	.17374	.42539
#1	3432.6	3108.2	27528.	3072.9
#2	3429.6	3103.0	27596.	3091.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.195%	98.709%	98.183%	101.60%
Range				

Sample Name: 480-193436-D-2-A Acquired: 12/17/2021 12:45:42 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.39039**	**.00567**	**.00283**	**.43714**
Stddev	.00104	.01499	.00160	.00024	.00172
%RSD	198.97	3.8407	28.240	8.5174	.39329
#1	.00021	.37979	.00680	.00266	.43592
#2	-.00126	.40099	.00454	.00300	.43835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**24.485**	**.00023**	**-.0095**	**.00101**
Stddev	.00002	.094	.00005	.0396	.00008
%RSD	86.743	.38420	22.331	416.7	7.6073
#1	.00001	24.419	.00027	.0185	.00096
#2	.00003	24.552	.00020	-.0375	.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00293**	**.41231**	**.94109**	**.00461**
Stddev	.00026	.00016	.00120	.03285	.00226
%RSD	25.675	5.4928	.29101	3.4903	48.922
#1	.00083	.00282	.41146	.96431	.00302
#2	.00120	.00305	.41315	.91786	.00621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-2-A Acquired: 12/17/2021 12:45:42 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6062**	**.78056**	**-.00007**	**1.6049**	**.00277**
Stddev	.0105	.00244	.00015	.0101	.00006
%RSD	.29039	.31221	214.63	.62671	2.2151
#1	3.5988	.77883	.00004	1.5978	.00282
#2	3.6136	.78228	-.00017	1.6120	.00273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00087**	**.60603**	**.00093**	**-.00319**
Stddev	.00	.00016	.00143	.00129	.00063
%RSD	.0044	18.067	.23661	138.23	19.651
#1	25.02	.00098	.60501	.00002	-.00363
#2	25.02	.00076	.60704	.00184	-.00275
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6302**	**.00002**	**.05954**	**.9998**	**.00504**
Stddev	.0340	.00020	.00042	.0023	.00091
%RSD	.93552	823.55	.71280	.2279	18.001
#1	3.6062	.00017	.05924	1.001	.00440
#2	3.6542	-.00012	.05984	.9982	.00569
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-2-A Acquired: 12/17/2021 12:45:42 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.00109**	**.00562**	**.9986**
Stddev	.00002	.00008	.00035	.0011
%RSD	3.6685	7.3146	6.1788	.1069
#1	-.00064	.00103	.00538	.9979
#2	-.00061	.00115	.00587	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3495.8**	**3089.8**	**28020.**	**3078.9**
Stddev	1.9	6.0	72.	30.2
%RSD	.05483	.19271	.25594	.97961
#1	3494.4	3085.6	28071.	3100.2
#2	3497.2	3094.0	27970.	3057.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.009%	98.205%	99.815%	101.49%
Range				

Sample Name: 480-193436-D-3-A Acquired: 12/17/2021 12:49:27 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.10723**	**-.00044**	**.03032**	**.19048**
Stddev	.00022	.01389	.00132	.00028	.00014
%RSD	77.020	12.952	299.59	.90748	.07596
#1	.00045	.09741	-.00138	.03051	.19038
#2	.00013	.11705	.00049	.03012	.19058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**46.748**	**.00021**	**.0212**	**-.00006**
Stddev	.00000	.003	.00003	.0052	.00006
%RSD	3.7260	.00629	13.558	24.54	101.98
#1	.00010	46.746	.00019	.0249	-.00011
#2	.00010	46.750	.00023	.0175	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00051**	**.12604**	**1.0330**	**.01556**
Stddev	.00010	.00061	.00050	.0431	.00022
%RSD	21.881	118.17	.39487	4.1726	1.4004
#1	.00052	.00094	.12569	1.0025	.01571
#2	.00038	.00008	.12639	1.0635	.01541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-3-A Acquired: 12/17/2021 12:49:27 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.473**	**.02265**	**.00014**	**7.8979**	**.00045**
Stddev	.006	.00001	.00021	.0095	.00023
%RSD	.04287	.03002	142.88	.12076	49.792
#1	13.469	.02265	-.00000	7.9047	.00029
#2	13.478	.02264	.00029	7.8912	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00021**	**3.3079**	**-.00273**	**.00058**
Stddev	.00	.00042	.0022	.00229	.00367
%RSD	.0040	198.00	.06627	83.880	629.47
#1	25.01	-.00008	3.3064	-.00435	-.00201
#2	25.01	.00051	3.3095	-.00111	.00318
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6919**	**-.00005**	**.13628**	**.9899**	**.00078**
Stddev	.0160	.00010	.00017	.0044	.00004
%RSD	.28046	199.22	.12666	.4404	5.6796
#1	5.7032	.00002	.13640	.9930	.00075
#2	5.6806	-.00013	.13615	.9868	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-3-A Acquired: 12/17/2021 12:49:27 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00010**	**.00311**	**.9983**
Stddev	.00027	.00023	.00006	.0005
%RSD	101.89	232.17	1.9851	.0546
#1	-.00007	.00026	.00307	.9987
#2	-.00045	-.00006	.00316	.9979
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3404.1**	**3073.7**	**27375.**	**3070.0**
Stddev	6.6	.2	35.	13.8
%RSD	.19470	.00586	.12954	.45058
#1	3408.8	3073.6	27400.	3060.3
#2	3399.4	3073.9	27350.	3079.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.438%	97.696%	97.517%	101.20%
Range				

Sample Name: 480-193436-D-3-ASD@5 Acquired: 12/17/2021 12:53:11 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00253**	**-.00069**	**.00319**	**.03809**
Stddev	.00102	.00039	.00055	.00006	.00009
%RSD	265.11	15.607	80.831	1.7590	.22417
#1	.00111	.00225	-.00029	.00315	.03815
#2	-.00034	.00281	-.00108	.00323	.03803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**9.3760**	**.00000**	**.0176**	**-.00012**
Stddev	.00008	.0198	.00011	.0044	.00013
%RSD	219.36	.21163	4076.8	24.83	109.93
#1	-.00002	9.3900	.00008	.0207	-.00003
#2	.00009	9.3620	-.00008	.0145	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00079**	**.02437**	**.17613**	**.00455**
Stddev	.00045	.00069	.00063	.00630	.00276
%RSD	205.10	87.775	2.5884	3.5775	60.726
#1	-.00053	.00128	.02392	.18058	.00650
#2	.00010	.00030	.02481	.17167	.00260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-3-ASD@5 Acquired: 12/17/2021 12:53:11 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6942**	**.00462**	**-.00054**	**1.5740**	**-.00006**
Stddev	.0085	.00002	.00014	.0011	.00011
%RSD	.31607	.47342	25.465	.06710	189.09
#1	2.7002	.00464	-.00064	1.5733	.00002
#2	2.6881	.00461	-.00045	1.5748	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00011**	**.63582**	**-.00091**	**.00047**
Stddev	.00	.00036	.00387	.00106	.00142
%RSD	.0011	322.91	.60911	116.98	299.62
#1	25.01	.00014	.63309	-.00016	.00148
#2	25.01	-.00036	.63856	-.00166	-.00053
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1294**	**.00021**	**.02732**	**.9993**	**-.00050**
Stddev	.0044	.00028	.00011	.0006	.00029
%RSD	.39036	131.72	.41720	.0593	57.238
#1	1.1263	.00001	.02724	.9997	-.00071
#2	1.1325	.00041	.02740	.9989	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-3-ASD@5 Acquired: 12/17/2021 12:53:11 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00020**	**.00108**	**.9986**
Stddev	.00112	.00007	.00040	.0009
%RSD	329.55	36.290	36.617	.0950
#1	-.00045	-.00015	.00080	.9993
#2	.00113	-.00025	.00136	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3536.4**	**3101.3**	**27947.**	**3054.7**
Stddev	6.7	5.5	134.	15.4
%RSD	.19017	.17605	.47832	.50438
#1	3541.1	3105.2	27852.	3043.8
#2	3531.6	3097.4	28041.	3065.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.146%	98.572%	99.554%	100.69%
Range				

Sample Name: 480-193436-D-3-APDS Acquired: 12/17/2021 12:56:57 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05088**	**10.250**	**.21554**	**.24174**	**.39668**
Stddev	.00134	.021	.00118	.00034	.00042
%RSD	2.6280	.20731	.54739	.14261	.10529
#1	.04993	10.265	.21471	.24150	.39697
#2	.05182	10.235	.21637	.24199	.39638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21711**	**55.090**	**.21176**	**-.0131**	**.19860**
Stddev	.00006	.169	.00048	.0240	.00092
%RSD	.02899	.30688	.22573	183.6	.46377
#1	.21716	55.209	.21142	.0039	.19925
#2	.21707	54.970	.21210	-.0300	.19795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20534**	**.20953**	**10.540**	**11.050**	**.21551**
Stddev	.00025	.00069	.018	.022	.00166
%RSD	.12334	.32877	.16999	.20051	.77079
#1	.20516	.21001	10.553	11.066	.21669
#2	.20552	.20904	10.527	11.035	.21434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-3-APDS Acquired: 12/17/2021 12:56:57 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.357**	**.23195**	**.21591**	**17.366**	**.19935**
Stddev	.101	.00057	.00068	.033	.00038
%RSD	.43040	.24649	.31590	.18752	.18838
#1	23.428	.23235	.21543	17.389	.19962
#2	23.286	.23154	.21639	17.343	.19909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.20685**	**13.174**	**.22453**	**.20781**
Stddev	.00	.00157	.042	.00044	.00009
%RSD	.0066	.76010	.32178	.19629	.04372
#1	24.84	.20797	13.144	.22484	.20774
#2	24.84	.20574	13.204	.22422	.20787
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.123**	**.19366**	**.33379**	**1.003**	**.21236**
Stddev	.028	.00106	.00084	.008	.00025
%RSD	.18653	.54574	.25315	.7609	.11818
#1	15.143	.19441	.33438	.9980	.21218
#2	15.103	.19291	.33319	1.009	.21254
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-3-APDS Acquired: 12/17/2021 12:56:57 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20949**	**.20740**	**.21099**	**1.001**
Stddev	.00069	.00025	.00034	.002
%RSD	.33122	.11978	.16052	.1566
#1	.20900	.20722	.21075	1.003
#2	.20998	.20757	.21123	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3305.9**	**3071.3**	**27478.**	**3128.9**
Stddev	7.8	1.8	42.	10.2
%RSD	.23628	.05956	.15109	.32725
#1	3300.4	3070.0	27449.	3121.7
#2	3311.4	3072.6	27507.	3136.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.685%	97.618%	97.883%	103.14%
Range				

Sample Name: 480-193436-D-3-B MS Acquired: 12/17/2021 13:00:31 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05023**	**10.394**	**.21304**	**.24068**	**.40033**
Stddev	.00047	.077	.00206	.00024	.00086
%RSD	.94216	.73862	.96899	.09899	.21581
#1	.04990	10.449	.21450	.24085	.39972
#2	.05057	10.340	.21158	.24051	.40094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21509**	**57.479**	**.20414**	**-.0086**	**.19169**
Stddev	.00008	.019	.00040	.0638	.00043
%RSD	.03748	.03374	.19556	741.1	.22655
#1	.21503	57.465	.20443	.0365	.19200
#2	.21515	57.493	.20386	-.0537	.19138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20061**	**.20207**	**10.279**	**11.050**	**.21877**
Stddev	.00104	.00156	.030	.080	.00248
%RSD	.52045	.77120	.29140	.72690	1.1333
#1	.19987	.20317	10.258	10.993	.22052
#2	.20135	.20097	10.301	11.107	.21702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-3-B MS Acquired: 12/17/2021 13:00:31 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.658**	**.22656**	**.21021**	**17.900**	**.19341**
Stddev	.047	.00014	.00013	.010	.00013
%RSD	.19813	.06148	.06380	.05766	.06736
#1	23.625	.22647	.21030	17.893	.19332
#2	23.691	.22666	.21011	17.908	.19351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.19811**	**13.417**	**.21656**	**.20000**
Stddev	.00	.00130	.003	.00153	.00115
%RSD	.0016	.65645	.01923	.70471	.57641
#1	24.84	.19719	13.419	.21764	.20081
#2	24.84	.19903	13.415	.21548	.19918
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.614**	**.19099**	**.33999**	**1.011**	**.20680**
Stddev	.038	.00051	.00105	.006	.00001
%RSD	.24615	.26684	.30893	.6015	.00302
#1	15.587	.19135	.33925	1.015	.20680
#2	15.641	.19063	.34073	1.007	.20679
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-3-B MS Acquired: 12/17/2021 13:00:31 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20406**	**.20074**	**.20600**	**.9994**
Stddev	.00063	.00031	.00007	.0015
%RSD	.30957	.15683	.03187	.1532
#1	.20451	.20051	.20595	1.000
#2	.20362	.20096	.20605	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3291.1**	**3054.7**	**27337.**	**3109.9**
Stddev	2.3	9.4	6.	1.5
%RSD	.06852	.30774	.02369	.04896
#1	3292.7	3061.3	27332.	3111.0
#2	3289.5	3048.0	27342.	3108.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.271%	97.089%	97.381%	102.51%
Range				

Sample Name: 480-193436-D-3-C MSD Acquired: 12/17/2021 13:04:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05069**	**10.584**	**.21401**	**.24355**	**.40201**
Stddev	.00061	.020	.00347	.00032	.00043
%RSD	1.1999	.18446	1.6220	.12994	.10757
#1	.05112	10.598	.21156	.24333	.40231
#2	.05026	10.570	.21647	.24378	.40170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21949**	**58.582**	**.20582**	**.0058**	**.19235**
Stddev	.00090	.160	.00028	.0192	.00041
%RSD	.41142	.27361	.13495	332.9	.21255
#1	.22013	58.695	.20602	-.0078	.19206
#2	.21885	58.469	.20562	.0193	.19264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20295**	**.20334**	**10.389**	**11.265**	**.22019**
Stddev	.00013	.00047	.036	.040	.00084
%RSD	.06351	.23074	.35095	.35770	.37951
#1	.20286	.20367	10.414	11.294	.21960
#2	.20304	.20301	10.363	11.237	.22078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-3-C MSD Acquired: 12/17/2021 13:04:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.862**	**.22862**	**.21266**	**18.192**	**.19365**
Stddev	.038	.00017	.00055	.072	.00093
%RSD	.15758	.07318	.25913	.39323	.48207
#1	23.889	.22874	.21305	18.242	.19299
#2	23.836	.22850	.21227	18.141	.19431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.19935**	**13.466**	**.21971**	**.20047**
Stddev	.00	.00078	.001	.00045	.00204
%RSD	.0036	.39018	.00523	.20420	1.0199
#1	24.84	.19990	13.466	.21940	.20192
#2	24.84	.19880	13.465	.22003	.19903
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.906**	**.19197**	**.34497**	**1.005**	**.20813**
Stddev	.050	.00059	.00139	.002	.00083
%RSD	.31346	.30756	.40302	.2094	.39768
#1	15.942	.19238	.34595	1.003	.20872
#2	15.871	.19155	.34398	1.006	.20755
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-3-C MSD Acquired: 12/17/2021 13:04:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20638**	**.20226**	**.20697**	**.9993**
Stddev	.00019	.00033	.00104	.0006
%RSD	.09101	.16509	.50450	.0618
#1	.20624	.20250	.20771	.9997
#2	.20651	.20202	.20623	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3285.1**	**3039.9**	**27190.**	**3037.8**
Stddev	2.8	.7	63.	11.7
%RSD	.08453	.02453	.23015	.38578
#1	3287.0	3039.3	27146.	3029.5
#2	3283.1	3040.4	27235.	3046.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.101%	96.619%	96.859%	100.14%
Range				

Sample Name: 480-193436-D-4-A Acquired: 12/17/2021 13:07:40 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.20397**	**.00018**	**.07848**	**.99519**
Stddev	.00219	.00153	.00059	.00014	.00391
%RSD	992.95	.74809	322.34	.17850	.39280
#1	-.00133	.20505	.00060	.07838	.99795
#2	.00177	.20289	-.00024	.07858	.99242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**123.85**	**.00008**	**.0541**	**.00014**
Stddev	.00001	.47	.00008	.0341	.00017
%RSD	34.012	.37994	89.740	63.15	116.54
#1	-.00003	124.18	.00014	.0299	.00003
#2	-.00005	123.52	.00003	.0782	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00082**	**.10721**	**1.3470**	**.02643**
Stddev	.00028	.00091	.00074	.0082	.00007
%RSD	70.213	110.17	.69228	.60943	.27252
#1	.00020	.00018	.10774	1.3412	.02648
#2	.00060	.00146	.10669	1.3528	.02638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-4-A Acquired: 12/17/2021 13:07:40 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.139**	**.10831**	**-.00010**	**15.309**	**.00108**
Stddev	.005	.00011	.00002	.065	.00010
%RSD	.01891	.09737	16.498	.42268	9.4453
#1	26.135	.10823	-.00009	15.355	.00101
#2	26.142	.10838	-.00011	15.264	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00145**	**2.5041**	**.00021**	**.00281**
Stddev	.00	.00104	.0007	.00228	.00131
%RSD	.0043	71.764	.02680	1080.6	46.645
#1	25.01	.00072	2.5046	-.00140	.00374
#2	25.01	.00219	2.5037	.00182	.00188
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3699**	**.00003**	**.29669**	**.9951**	**.00270**
Stddev	.0484	.00102	.00085	.0002	.00042
%RSD	.57820	3377.4	.28644	.0179	15.435
#1	8.4041	-.00069	.29729	.9950	.00241
#2	8.3357	.00075	.29609	.9952	.00300
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-4-A Acquired: 12/17/2021 13:07:40 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00055**	**.00359**	**.9990**
Stddev	.00062	.00021	.00041	.0002
%RSD	310.19	37.145	11.344	.0204
#1	.00024	-.00041	.00330	.9988
#2	-.00064	-.00070	.00388	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3256.5**	**3003.6**	**26685.**	**3021.1**
Stddev	2.3	1.0	41.	9.5
%RSD	.06925	.03402	.15291	.31485
#1	3254.9	3002.8	26656.	3027.9
#2	3258.1	3004.3	26714.	3014.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.300%	95.465%	95.057%	99.588%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 13:11:32 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0011**	**50.111**	**.98679**	**1.0303**	**.98982**
Stddev	.0020	.116	.00076	.0001	.00219
%RSD	.19940	.23175	.07690	.00954	.22093
#1	1.0025	50.029	.98732	1.0302	.98828
#2	.99965	50.193	.98625	1.0304	.99137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99899**	**49.391**	**1.0028**	**.9886**	**.96628**
Stddev	.00112	.032	.0011	.0242	.00149
%RSD	.11261	.06417	.11305	2.443	.15378
#1	.99819	49.413	1.0036	.9715	.96523
#2	.99978	49.368	1.0020	1.006	.96733
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99589**	**.99707**	**49.603**	**49.188**	**.99396**
Stddev	.00140	.00000	.002	.095	.00010
%RSD	.14098	.00014	.00401	.19378	.01039
#1	.99489	.99707	49.602	49.121	.99389
#2	.99688	.99707	49.605	49.256	.99404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 13:11:32 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.203**	**.98633**	**1.0103**	**49.372**	**.96626**
Stddev	.060	.00024	.0020	.045	.00190
%RSD	.12367	.02404	.19723	.09024	.19705
#1	48.245	.98650	1.0117	49.340	.96491
#2	48.161	.98617	1.0089	49.403	.96761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.43**	**.96954**	**24.708**	**1.0046**	**.98846**
Stddev	.01	.00059	.039	.0022	.00290
%RSD	.0305	.06073	.15946	.22102	.29305
#1	37.44	.96913	24.736	1.0062	.99050
#2	37.42	.96996	24.680	1.0030	.98641
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9495**	**.96383**	**.99276**	**1.498**	**.99705**
Stddev	.0321	.00149	.00185	.003	.00380
%RSD	.32228	.15456	.18617	.2124	.38068
#1	9.9268	.96278	.99145	1.496	.99436
#2	9.9721	.96489	.99406	1.500	.99973
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 13:11:32 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.97985**	**.99522**	**1.0002**	**1.506**
Stddev	.00243	.00003	.0004	.000
%RSD	.24797	.00307	.04195	.0079
#1	.98157	.99520	.99994	1.506
#2	.97813	.99524	1.0005	1.506
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3103.2**	**2996.6**	**26511.**	**2991.7**
Stddev	3.6	4.1	76.	.1
%RSD	.11758	.13576	.28795	.00469
#1	3105.8	2993.7	26565.	2991.8
#2	3100.6	2999.5	26457.	2991.6

Sample Name: CCB-6819143 Acquired: 12/17/2021 13:15:05 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**-.03293**	**-.00071**	**-.00252**	**.00009**
Stddev	.00047	.02516	.00160	.00018	.00000
%RSD	90.112	76.411	223.89	7.0275	.57988
#1	.00086	-.05072	-.00185	-.00240	.00009
#2	.00019	-.01514	.00042	-.00265	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00569**	**-.00000**	**-.0041**	**-.00001**
Stddev	.00004	.00056	.00008	.0001	.00008
%RSD	43.857	9.8147	6333.0	3.332	1010.0
#1	.00011	-.00530	.00005	-.0042	.00005
#2	.00006	-.00609	-.00006	-.0040	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00033**	**.00113**	**.04503**	**.00142**
Stddev	.00031	.00098	.00120	.01902	.00163
%RSD	226.30	296.98	106.23	42.234	114.81
#1	.00036	.00036	.00028	.03158	.00257
#2	-.00008	-.00102	.00197	.05847	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 13:15:05 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.00001**	**.00094**	**-.01076**	**-.00033**
Stddev	.00412	.00008	.00001	.00563	.00014
%RSD	800.43	972.92	.65499	52.308	40.703
#1	-.00343	.00007	.00094	-.01474	-.00024
#2	.00240	-.00005	.00093	-.00678	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00086**	**-.00769**	**-.00052**	**.00305**
Stddev	.00	.00033	.00128	.00179	.00519
%RSD	.0071	39.012	16.571	345.34	169.82
#1	25.01	-.00062	-.00860	-.00179	-.00061
#2	25.01	-.00109	-.00679	.00075	.00672
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01165**	**.00068**	**.00005**	**.9937**	**-.00019**
Stddev	.01261	.00027	.00011	.0012	.00010
%RSD	108.21	39.872	209.33	.1213	55.705
#1	.02057	.00049	.00013	.9928	-.00011
#2	.00274	.00087	-.00003	.9945	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 13:15:05 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00135**	**.00017**	**-.00042**	**.9989**
Stddev	.00028	.00029	.00002	.0000
%RSD	20.853	171.68	4.0054	.0016
#1	.00115	.00037	-.00041	.9989
#2	.00155	-.00004	-.00044	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3603.4**	**3132.6**	**28169.**	**3087.6**
Stddev	1.7	4.9	72.	13.4
%RSD	.04756	.15597	.25711	.43549
#1	3602.2	3129.1	28220.	3078.1
#2	3604.6	3136.0	28118.	3097.1

Sample Name: CCVL-6819272 Acquired: 12/17/2021 13:18:54 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00604**	**.21575**	**.01472**	**.01722**	**.00207**
Stddev	.00014	.00652	.00055	.00002	.00001
%RSD	2.3961	3.0208	3.7383	.11952	.45546
#1	.00615	.21114	.01433	.01724	.00207
#2	.00594	.22036	.01511	.01721	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.50197**	**.00197**	**-.0240**	**.00351**
Stddev	.00011	.00350	.00011	.0613	.00001
%RSD	5.3096	.69797	5.5900	255.3	.15295
#1	.00215	.50444	.00205	-.0673	.00351
#2	.00199	.49949	.00190	.0193	.00350
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00390**	**.00970**	**.04818**	**.47743**	**.02999**
Stddev	.00008	.00076	.00003	.00244	.00300
%RSD	2.0655	7.8062	.06842	.51065	10.021
#1	.00396	.01023	.04820	.47916	.03211
#2	.00384	.00916	.04815	.47571	.02786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 13:18:54 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19128**	**.00307**	**.00994**	**.97373**	**.00901**
Stddev	.00219	.00009	.00032	.00255	.00002
%RSD	1.1442	2.9076	3.1868	.26189	.26591
#1	.19282	.00313	.00972	.97193	.00903
#2	.18973	.00301	.01017	.97554	.00900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00921**	**.17795**	**.01925**	**.02474**
Stddev	.00	.00033	.00215	.00114	.00129
%RSD	.0002	3.5404	1.2078	5.9452	5.2254
#1	25.00	.00944	.17643	.02006	.02565
#2	25.00	.00898	.17947	.01844	.02383
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46009**	**.00918**	**.00498**	F **1.006**	**.00405**
Stddev	.00219	.00008	.00011	.002	.00068
%RSD	.47598	.86766	2.2603	.2428	16.809
#1	.46164	.00923	.00506	1.007	.00357
#2	.45854	.00912	.00490	1.004	.00453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 13:18:54 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01883**	**.00497**	**.00978**	F **.9980**
Stddev	.00067	.00007	.00026	.0005
%RSD	3.5720	1.4404	2.6926	.0534
#1	.01835	.00502	.00997	.9984
#2	.01930	.00492	.00960	.9976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3580.2**	**3109.4**	**27918.**	**3032.0**
Stddev	.0	.9	148.	8.9
%RSD	.00020	.03021	.52888	.29306
#1	3580.2	3110.1	27814.	3025.7
#2	3580.2	3108.8	28023.	3038.2

Sample Name: 480-193436-D-5-A Acquired: 12/17/2021 13:22:41 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.19216**	**-.00083**	**.01463**	**.54933**
Stddev	.00004	.00219	.00129	.00037	.00752
%RSD	14.705	1.1420	155.48	2.5065	1.3688
#1	-.00030	.19371	-.00174	.01437	.55464
#2	-.00025	.19061	.00008	.01489	.54401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**40.688**	**.00022**	**-.0382**	**-.00000**
Stddev	.00004	.042	.00005	.0234	.00008
%RSD	242.18	.10431	24.768	61.26	2372.0
#1	.00001	40.658	.00018	-.0547	.00005
#2	-.00005	40.718	.00025	-.0216	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00052**	**.12055**	**.79673**	**.01162**
Stddev	.00012	.00028	.00157	.01176	.00016
%RSD	32.127	53.879	1.2985	1.4761	1.4028
#1	.00044	.00072	.11945	.80505	.01151
#2	.00028	.00032	.12166	.78842	.01174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-5-A Acquired: 12/17/2021 13:22:41 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.491**	**.02429**	**-.00059**	**8.5136**	**.00033**
Stddev	.029	.00003	.00013	.0181	.00035
%RSD	.24881	.11201	22.547	.21274	105.30
#1	11.511	.02427	-.00050	8.5008	.00008
#2	11.471	.02431	-.00069	8.5264	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00053**	**4.5716**	**-.00032**	**-.00244**
Stddev	.00	.00142	.0039	.00180	.00111
%RSD	.0007	267.16	.08548	566.77	45.618
#1	25.01	.00153	4.5689	-.00159	-.00165
#2	25.01	-.00047	4.5744	.00096	-.00323
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6828**	**-.00016**	**.17943**	**.9954**	**.00159**
Stddev	.0406	.00008	.00047	.0025	.00003
%RSD	.52888	49.435	.26136	.2536	1.7271
#1	7.6541	-.00011	.17910	.9972	.00161
#2	7.7115	-.00022	.17976	.9936	.00157
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-D-5-A Acquired: 12/17/2021 13:22:41 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00003**	**.00128**	**.9987**
Stddev	.00001	.00046	.00015	.0006
%RSD	1.9101	1569.2	12.042	.0560
#1	.00055	.00035	.00117	.9991
#2	.00056	-.00030	.00139	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3426.1**	**3085.2**	**27570.**	**3076.3**
Stddev	2.3	5.2	108.	10.9
%RSD	.06661	.16917	.39191	.35344
#1	3427.8	3088.9	27494.	3084.0
#2	3424.5	3081.5	27646.	3068.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.056%	98.061%	98.211%	101.41%
Range				

Sample Name: 480-193422-E-5-A@5 Acquired: 12/17/2021 13:26:31 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.02732**	**.00012**	**.02273**	**.04027**
Stddev	.00028	.02350	.00125	.00016	.00002
%RSD	47.654	86.023	1069.3	.70458	.06042
#1	-.00078	.04394	.00100	.02261	.04025
#2	-.00039	.01070	-.00077	.02284	.04028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**40.689**	**-.00015**	**-.0387**	**-.00029**
Stddev	.00021	.095	.00008	.0437	.00012
%RSD	1780.3	.23324	54.975	113.0	39.679
#1	.00014	40.756	-.00020	-.0696	-.00021
#2	-.00016	40.622	-.00009	-.0078	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00092**	**.00147**	**7.3797**	**.12855**
Stddev	.00029	.00001	.00089	.0168	.00211
%RSD	200.39	1.2191	60.576	.22823	1.6451
#1	-.00035	.00092	.00084	7.3678	.12706
#2	.00006	.00093	.00210	7.3916	.13005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193422-E-5-A@5 Acquired: 12/17/2021 13:26:31 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00305**	**.00019**	**.10424**	**326.11**	**.00155**
Stddev	.00027	.00004	.00041	.83	.00021
%RSD	8.9613	19.998	.39155	.25562	13.610
#1	-.00286	.00016	.10452	325.52	.00140
#2	-.00325	.00022	.10395	326.70	.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00017**	**5.7097**	**-.00215**	**-.00085**
Stddev	.00	.00051	.0077	.00128	.00014
%RSD	.0034	297.06	.13546	59.728	16.023
#1	25.01	-.00053	5.7043	-.00124	-.00095
#2	25.02	.00019	5.7152	-.00305	-.00075
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09109**	**-.00028**	**.84713**	**.9971**	**.00005**
Stddev	.00765	.00000	.00103	.0053	.00015
%RSD	8.4010	.17729	.12176	.5279	290.36
#1	.09650	-.00028	.84640	1.001	.00016
#2	.08568	-.00028	.84786	.9934	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193422-E-5-A@5 Acquired: 12/17/2021 13:26:31 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00302**	**.02747**	**.9976**
Stddev	.00050	.00020	.00069	.0008
%RSD	70.620	6.7157	2.5107	.0768
#1	-.00107	.00316	.02698	.9971
#2	-.00036	.00288	.02795	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3045.1**	**2930.2**	**25767.**	**2992.8**
Stddev	1.9	3.6	1.	5.2
%RSD	.06181	.12272	.00434	.17469
#1	3043.7	2927.6	25768.	2989.1
#2	3046.4	2932.7	25766.	2996.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.372%	93.132%	91.787%	98.654%
Range				

Sample Name: 480-193422-E-6-A@5 Acquired: 12/17/2021 13:30:21 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.04939**	**.22167**	**.02784**	**.73862**
Stddev	.00080	.00405	.00042	.00013	.00127
%RSD	98.783	8.2096	.19124	.47699	.17241
#1	-.00024	.04652	.22137	.02775	.73952
#2	-.00138	.05226	.22197	.02794	.73772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**544.86**	**-.00075**	**-.0837**	**.00146**
Stddev	.00004	1.07	.00023	.0072	.00015
%RSD	64.131	.19549	30.370	8.610	10.441
#1	-.00009	545.62	-.00059	-.0888	.00157
#2	-.00003	544.11	-.00091	-.0786	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00472**	**.00885**	**.06219**	**13.588**	**.09504**
Stddev	.00035	.00022	.00012	.048	.00017
%RSD	7.4202	2.5395	.19906	.35509	.17718
#1	.00497	.00869	.06228	13.622	.09492
#2	.00447	.00901	.06211	13.553	.09516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193422-E-6-A@5 Acquired: 12/17/2021 13:30:21 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00058**	**.02213**	**454.34**	**.00525**
Stddev	.00403	.00001	.00007	.94	.00031
%RSD	391.73	1.2906	.31781	.20612	5.8114
#1	-.00182	.00059	.02208	455.00	.00546
#2	.00387	.00058	.02218	453.68	.00503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00061**	**16.296**	**-.00067**	**.00432**
Stddev	.00	.00149	.011	.00234	.00017
%RSD	.0020	243.42	.06863	347.46	3.9395
#1	25.05	-.00044	16.288	.00098	.00444
#2	25.05	.00167	16.304	-.00233	.00420
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02680**	**.00080**	**3.8696**	**1.005**	**.00251**
Stddev	.01736	.00026	.0035	.004	.00038
%RSD	64.759	32.397	.08982	.4225	15.240
#1	.03908	.00098	3.8721	1.002	.00278
#2	.01453	.00061	3.8671	1.008	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193422-E-6-A@5 Acquired: 12/17/2021 13:30:21 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00163**	**.00019**	**.03875**	**.9998**
Stddev	.00003	.00033	.00046	.0005
%RSD	1.6098	176.97	1.1838	.0531
#1	-.00165	.00042	.03843	.9994
#2	-.00161	-.00005	.03907	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2784.8**	**2775.9**	**24668.**	**2995.1**
Stddev	2.6	1.0	85.	17.4
%RSD	.09187	.03751	.34412	.57969
#1	2786.6	2776.6	24728.	2982.8
#2	2783.0	2775.2	24608.	3007.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.074%	88.229%	87.873%	98.729%
Range				

Sample Name: MB 480-608407/1-A Acquired: 12/17/2021 13:34:23 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.03542**	**-.00008**	**-.00328**	**.00004**
Stddev	.00035	.00135	.00140	.00043	.00003
%RSD	152.06	3.8252	1666.3	13.098	74.891
#1	.00048	-.03638	-.00108	-.00298	.00002
#2	-.00002	-.03446	.00091	-.00359	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.03391**	**-.00003**	**-.0442**	**.00003**
Stddev	.00000	.00033	.00005	.0005	.00003
%RSD	20.855	.96790	167.73	1.124	105.65
#1	-.00001	.03414	-.00007	-.0439	.00004
#2	-.00002	.03368	.00001	-.0446	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00088**	**.00222**	**.02741**	**.00117**
Stddev	.00062	.00054	.00077	.01100	.00367
%RSD	963.20	61.627	34.603	40.117	315.21
#1	-.00037	.00050	.00276	.01963	.00376
#2	.00050	.00127	.00168	.03518	-.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608407/1-A Acquired: 12/17/2021 13:34:23 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00357**	**.00016**	**-.00060**	**.04115**	**-.00001**
Stddev	.00136	.00006	.00017	.00806	.00016
%RSD	38.184	35.942	28.696	19.586	2195.7
#1	.00454	.00021	-.00048	.03545	.00011
#2	.00261	.00012	-.00072	.04685	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00031**	**-.00063**	**-.00150**	**.00040**
Stddev	.00	.00056	.00008	.00122	.00352
%RSD	.0006	181.28	11.957	81.381	874.12
#1	25.01	.00009	-.00068	-.00237	.00289
#2	25.01	-.00070	-.00058	-.00064	-.00209
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01469**	**.00045**	**.00015**	**1.001**	**.00004**
Stddev	.00299	.00006	.00006	.010	.00002
%RSD	20.344	12.457	40.074	1.032	65.733
#1	-.01681	.00041	.00020	.9941	.00002
#2	-.01258	.00049	.00011	1.009	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608407/1-A Acquired: 12/17/2021 13:34:23 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.00008**	**.00087**	**.9978**
Stddev	.00072	.00006	.00008	.0004
%RSD	120.39	82.764	9.5771	.0414
#1	-.00111	-.00003	.00081	.9975
#2	-.00009	-.00012	.00093	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3622.2**	**3153.4**	**28673.**	**3119.2**
Stddev	3.4	4.4	115.	17.6
%RSD	.09373	.14007	.40123	.56407
#1	3619.8	3156.5	28591.	3131.6
#2	3624.6	3150.3	28754.	3106.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.55%	100.23%	102.14%	102.82%
Range				

Sample Name: LCS 480-608407/2-A Acquired: 12/17/2021 13:38:10 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04753**	**10.207**	**.20854**	**.20486**	**.20519**
Stddev	.00041	.005	.00327	.00038	.00020
%RSD	.86026	.05153	1.5690	.18325	.09906
#1	.04724	10.204	.21085	.20512	.20505
#2	.04782	10.211	.20623	.20459	.20534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21268**	**9.9188**	**.20037**	**-.0281**	**.18684**
Stddev	.00099	.0398	.00027	.0546	.00025
%RSD	.46332	.40128	.13692	194.6	.13278
#1	.21198	9.8907	.20057	-.0667	.18701
#2	.21337	9.9470	.20018	.0105	.18666
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19922**	**.19832**	**9.9991**	**9.8441**	**.20419**
Stddev	.00025	.00042	.0566	.0192	.00252
%RSD	.12723	.20956	.56618	.19495	1.2331
#1	.19940	.19862	9.9590	9.8305	.20597
#2	.19904	.19803	10.039	9.8576	.20241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608407/2-A Acquired: 12/17/2021 13:38:10 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9822**	**.20271**	**.20571**	**9.8893**	**.18887**
Stddev	.0395	.00023	.00018	.0352	.00049
%RSD	.39579	.11268	.08764	.35638	.25847
#1	9.9543	.20255	.20583	9.8644	.18853
#2	10.010	.20287	.20558	9.9142	.18922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.19359**	**9.7700**	**.21483**	**.19872**
Stddev	.00	.00222	.0227	.00233	.00295
%RSD	.0062	1.1454	.23201	1.0858	1.4825
#1	24.83	.19516	9.7860	.21648	.20081
#2	24.84	.19202	9.7540	.21318	.19664
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6106**	**.18513**	**.20177**	**1.007**	**.20075**
Stddev	.0096	.00080	.00064	.003	.00056
%RSD	.09973	.43366	.31788	.3293	.27975
#1	9.6038	.18457	.20132	1.010	.20035
#2	9.6174	.18570	.20222	1.005	.20115
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608407/2-A Acquired: 12/17/2021 13:38:10 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19867**	**.19806**	**.20241**	**1.004**
Stddev	.00044	.00036	.00045	.001
%RSD	.21897	.17948	.22298	.0942
#1	.19897	.19781	.20209	1.005
#2	.19836	.19832	.20273	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3430.3**	**3095.2**	**27739.**	**3065.9**
Stddev	1.1	5.9	178.	11.2
%RSD	.03326	.19014	.64094	.36468
#1	3429.5	3091.0	27865.	3073.8
#2	3431.1	3099.4	27614.	3058.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.173%	98.378%	98.814%	101.06%
Range				

Sample Name: 480-193300-A-1-A Acquired: 12/17/2021 13:41:44 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.01756**	**-.00033**	**.03655**	**.08904**
Stddev	.00065	.04931	.00044	.00006	.00007
%RSD	113.61	280.76	132.05	.17511	.08075
#1	-.00102	.05243	-.00064	.03651	.08909
#2	-.00011	-.01731	-.00002	.03660	.08899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**18.597**	**.00030**	**.0030**	**.00044**
Stddev	.00005	.030	.00000	.0117	.00003
%RSD	62.188	.16244	1.2811	392.3	7.7389
#1	.00011	18.576	.00030	.0112	.00042
#2	.00004	18.619	.00029	-.0053	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00553**	**.09135**	**5.4941**	**.01888**
Stddev	.00003	.00031	.00054	.0619	.00128
%RSD	15.662	5.6061	.58728	1.1274	6.7804
#1	.00016	.00531	.09097	5.5379	.01979
#2	.00020	.00575	.09173	5.4503	.01798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-1-A Acquired: 12/17/2021 13:41:44 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.061**	**.29827**	**.00323**	**16.531**	**.00318**
Stddev	.052	.00063	.00015	.001	.00012
%RSD	.47237	.21067	4.7446	.00772	3.8411
#1	11.098	.29871	.00312	16.532	.00327
#2	11.024	.29782	.00333	16.530	.00309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00098**	**2.5293**	**-.00119**	**-.00132**
Stddev	.00	.00077	.0030	.00045	.00125
%RSD	.0002	78.335	.12029	37.693	94.712
#1	25.02	.00152	2.5315	-.00150	-.00044
#2	25.02	.00044	2.5272	-.00087	-.00221
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.136**	**.00031**	**.20056**	**1.002**	**.00044**
Stddev	.014	.00029	.00001	.005	.00041
%RSD	.12280	93.573	.00375	.4555	91.844
#1	11.146	.00011	.20056	.9986	.00073
#2	11.127	.00052	.20055	1.005	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-1-A Acquired: 12/17/2021 13:41:44 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00031**	**-.00007**	**.00374**	**.9977**
Stddev	.00029	.00032	.00019	.0007
%RSD	91.329	449.60	5.0765	.0670
#1	-.00011	.00015	.00361	.9981
#2	-.00052	-.00030	.00388	.9972
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3431.3**	**3081.9**	**27552.**	**3074.8**
Stddev	1.7	2.6	68.	.7
%RSD	.04833	.08424	.24535	.02321
#1	3430.1	3080.0	27504.	3075.3
#2	3432.4	3083.7	27599.	3074.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.199%	97.954%	98.145%	101.36%
Range				

Sample Name: 480-193300-A-2-A Acquired: 12/17/2021 13:45:28 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.06862**	**-.00123**	**.07394**	**.08339**
Stddev	.00090	.00717	.00038	.00006	.00004
%RSD	157.19	10.455	31.185	.08783	.04525
#1	.00006	.06354	-.00150	.07398	.08337
#2	-.00121	.07369	-.00096	.07389	.08342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**48.094**	**.00015**	**-.0111**	**.00314**
Stddev	.00006	.137	.00001	.0121	.00013
%RSD	218.12	.28449	5.2857	109.0	4.0042
#1	.00001	48.191	.00015	-.0196	.00305
#2	-.00007	47.998	.00016	-.0025	.00323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00394**	**.00462**	**.03137**	**3.2468**	**.00398**
Stddev	.00021	.00028	.00121	.0368	.00076
%RSD	5.4124	6.1599	3.8669	1.1341	18.970
#1	.00410	.00442	.03223	3.2208	.00452
#2	.00379	.00482	.03052	3.2729	.00345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-2-A Acquired: 12/17/2021 13:45:28 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7980**	**.15016**	**-.00050**	**8.8288**	**.00194**
Stddev	.0023	.00026	.00012	.0134	.00000
%RSD	.04032	.17298	24.189	.15149	.00954
#1	5.7996	.14998	-.00042	8.8383	.00194
#2	5.7963	.15034	-.00059	8.8193	.00194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00002**	**9.6859**	**-.00004**	**-.00013**
Stddev	.00	.00160	.0106	.00105	.00219
%RSD	.0044	9553.8	.10945	2619.2	1668.0
#1	25.01	.00112	9.6934	.00070	.00142
#2	25.01	-.00115	9.6784	-.00078	-.00168
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1385**	**.00043**	**.13133**	**1.001**	**.00043**
Stddev	.0013	.00010	.00033	.007	.00022
%RSD	.02077	22.373	.24758	.6834	50.956
#1	6.1394	.00049	.13156	.9964	.00058
#2	6.1376	.00036	.13110	1.006	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-2-A Acquired: 12/17/2021 13:45:28 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00245**	**.01169**	**.9987**
Stddev	.00058	.00001	.00016	.0002
%RSD	378.03	.53219	1.3268	.0172
#1	.00026	.00244	.01158	.9989
#2	-.00056	.00246	.01180	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3431.1**	**3088.2**	**27726.**	**3083.3**
Stddev	4.8	2.6	1.	15.9
%RSD	.14123	.08296	.00468	.51605
#1	3427.7	3086.4	27726.	3072.0
#2	3434.6	3090.0	27725.	3094.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.196%	98.155%	98.765%	101.64%
Range				

Sample Name: 480-193300-A-3-A Acquired: 12/17/2021 13:49:12 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.72879**	**.00141**	**.02421**	**.09158**
Stddev	.00127	.00189	.00051	.00033	.00013
%RSD	341.83	.25912	36.487	1.3722	.14412
#1	.00052	.72746	.00177	.02444	.09167
#2	-.00127	.73013	.00104	.02397	.09148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**13.753**	**.00050**	**.0042**	**.02713**
Stddev	.00011	.012	.00034	.0456	.00000
%RSD	24.367	.08633	67.116	1086.	.01230
#1	.00054	13.761	.00026	-.0280	.02712
#2	.00038	13.744	.00074	.0364	.02713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**.03921**	**1.3089**	**2.5237**	**.00334**
Stddev	.00006	.00005	.0009	.0465	.00383
%RSD	4.5915	.13131	.06672	1.8412	114.76
#1	.00134	.03925	1.3083	2.4909	.00605
#2	.00126	.03917	1.3095	2.5566	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-3-A Acquired: 12/17/2021 13:49:12 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5935**	**.26060**	**-.00059**	**2.7136**	**.01292**
Stddev	.0028	.00004	.00027	.0037	.00032
%RSD	.05042	.01609	46.013	.13707	2.5066
#1	5.5955	.26057	-.00078	2.7110	.01269
#2	5.5915	.26062	-.00040	2.7162	.01315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00170**	**16.215**	**-.00166**	**.00282**
Stddev	.00	.00065	.040	.00136	.00066
%RSD	.0013	38.229	.24565	82.039	23.432
#1	25.00	.00124	16.187	-.00262	.00328
#2	25.00	.00216	16.243	-.00070	.00235
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6384**	**.00015**	**.06863**	**1.003**	**.01011**
Stddev	.0176	.00022	.00015	.002	.00001
%RSD	.31280	143.55	.21970	.1824	.12824
#1	5.6508	.00031	.06873	1.001	.01012
#2	5.6259	-.00000	.06852	1.004	.01010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-3-A Acquired: 12/17/2021 13:49:12 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00242**	**.11685**	**.9981**
Stddev	.00050	.00019	.00069	.0006
%RSD	221.96	7.6568	.58623	.0619
#1	-.00013	.00255	.11637	.9977
#2	.00058	.00229	.11734	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3521.7**	**3136.0**	**28114.**	**3097.2**
Stddev	18.8	9.7	117.	1.5
%RSD	.53333	.31064	.41624	.04881
#1	3508.4	3129.1	28197.	3096.1
#2	3535.0	3142.9	28031.	3098.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.735%	99.675%	100.15%	102.09%
Range				

Sample Name: 480-193300-A-4-A Acquired: 12/17/2021 13:52:54 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**2.3361**	**-.00067**	**.04999**	**.06431**
Stddev	.00014	.0092	.00048	.00039	.00002
%RSD	21.815	.39575	72.078	.77882	.02525
#1	-.00073	2.3426	-.00101	.05027	.06430
#2	-.00054	2.3295	-.00033	.04972	.06432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**64.117**	**.00016**	**-.0213**	**.02364**
Stddev	.00000	.136	.00010	.0400	.00010
%RSD	.59833	.21262	63.487	187.3	.44049
#1	.00014	64.213	.00023	-.0496	.02357
#2	.00014	64.021	.00009	.0069	.02372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00133**	**.01565**	**4.5497**	**2.4089**	**.00558**
Stddev	.00019	.00006	.0049	.0013	.00023
%RSD	14.466	.38739	.10805	.05328	4.0381
#1	.00147	.01561	4.5462	2.4080	.00574
#2	.00120	.01570	4.5531	2.4098	.00542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-4-A Acquired: 12/17/2021 13:52:54 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9899**	**1.1882**	**-.00096**	**12.827**	**.00511**
Stddev	.0126	.0012	.00004	.003	.00007
%RSD	.21036	.09937	3.9539	.02280	1.3440
#1	5.9988	1.1891	-.00099	12.825	.00516
#2	5.9810	1.1874	-.00094	12.829	.00506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00235**	**6.8210**	**-.00132**	**.00004**
Stddev	.00	.00042	.0024	.00044	.00019
%RSD	.0028	17.910	.03453	33.437	486.72
#1	25.02	.00205	6.8193	-.00101	-.00010
#2	25.02	.00265	6.8226	-.00164	.00018
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.873**	**.00022**	**.13315**	**1.001**	**.05800**
Stddev	.038	.00042	.00011	.002	.00196
%RSD	.35398	191.76	.07942	.1520	3.3741
#1	10.900	.00052	.13323	1.002	.05938
#2	10.846	-.00008	.13308	.9994	.05662
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-4-A Acquired: 12/17/2021 13:52:54 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.02681**	**.02708**	**.9983**
Stddev	.00101	.00033	.00052	.0004
%RSD	143.05	1.2399	1.9102	.0370
#1	.00001	.02657	.02745	.9986
#2	-.00142	.02705	.02672	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3386.6**	**3110.2**	**27805.**	**3146.8**
Stddev	7.1	9.0	171.	17.6
%RSD	.21051	.28847	.61389	.56022
#1	3391.6	3116.6	27685.	3134.4
#2	3381.5	3103.9	27926.	3159.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.946%	98.856%	99.049%	103.73%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 13:56:38 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99267**	**50.285**	**1.0087**	**1.0324**	**.99039**
Stddev	.00182	.082	.0011	.0002	.00128
%RSD	.18359	.16332	.11195	.01738	.12942
#1	.99138	50.343	1.0079	1.0323	.98948
#2	.99396	50.227	1.0095	1.0325	.99129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0112**	**49.551**	**.99730**	**.9988**	**.96444**
Stddev	.0021	.060	.00204	.0787	.00116
%RSD	.20276	.12060	.20470	7.876	.11990
#1	1.0126	49.593	.99874	.9432	.96525
#2	1.0097	49.509	.99586	1.054	.96362
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0080**	**.99128**	**49.537**	**49.246**	**1.0026**
Stddev	.0008	.00439	.047	.050	.0014
%RSD	.08185	.44320	.09419	.10062	.13613
#1	1.0074	.98817	49.504	49.211	1.0035
#2	1.0085	.99438	49.570	49.281	1.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 13:56:38 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.699**	**.99368**	**1.0151**	**49.754**	**.97831**
Stddev	.119	.00215	.0027	.052	.00156
%RSD	.24396	.21607	.26579	.10359	.15965
#1	48.615	.99216	1.0170	49.791	.97720
#2	48.783	.99520	1.0132	49.718	.97941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.51**	**.97083**	**24.850**	**.99645**	**.99986**
Stddev	.00	.00168	.020	.00335	.00637
%RSD	.0120	.17344	.07901	.33649	.63728
#1	37.52	.97202	24.864	.99408	1.0044
#2	37.51	.96964	24.836	.99882	.99535
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9399**	**.97002**	**.99905**	**1.506**	**.99953**
Stddev	.0311	.00080	.00031	.006	.00008
%RSD	.31251	.08299	.03099	.3800	.00782
#1	9.9618	.97059	.99883	1.502	.99947
#2	9.9179	.96945	.99927	1.510	.99959
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 13:56:38 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98825**	**1.0028**	**1.0127**	**1.511**
Stddev	.00240	.0027	.0026	.001
%RSD	.24304	.26506	.25269	.0438
#1	.98655	1.0009	1.0109	1.511
#2	.98995	1.0047	1.0145	1.512
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3103.9**	**3001.1**	**26364.**	**3011.6**
Stddev	.1	.4	6.	4.6
%RSD	.00173	.01193	.02278	.15138
#1	3103.9	3000.8	26368.	3008.4
#2	3103.9	3001.3	26359.	3014.9

Sample Name: CCB-6819143 Acquired: 12/17/2021 14:00:10 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00504**	**-.00008**	**-.00293**	**.00003**
Stddev	.00062	.01477	.00252	.00027	.00002
%RSD	292.37	293.26	3284.9	9.1061	57.939
#1	-.00065	.01548	-.00186	-.00274	.00002
#2	.00023	-.00541	.00170	-.00312	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00116**	**.00000**	**.0023**	**-.00005**
Stddev	.00008	.00140	.00007	.0055	.00002
%RSD	120.97	120.72	1498.0	243.1	51.731
#1	-.00012	-.00017	.00005	.0062	-.00003
#2	-.00001	-.00215	-.00004	-.0016	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00040**	**.00065**	**.02546**	**.00037**
Stddev	.00001	.00107	.00226	.06671	.00082
%RSD	12.865	266.11	346.00	262.07	220.59
#1	.00005	.00036	.00225	-.02172	.00096
#2	.00004	-.00116	-.00095	.07263	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 14:00:10 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**-.00003**	**.00083**	**-.02505**	**.00009**
Stddev	.00039	.00004	.00028	.00269	.00002
%RSD	111.63	128.18	33.263	10.733	18.233
#1	-.00007	-.00000	.00063	-.02695	.00008
#2	-.00063	-.00005	.00102	-.02315	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00037**	**-.00749**	**-.00097**	**.00334**
Stddev	.00	.00034	.00362	.00069	.00147
%RSD	.0022	91.903	48.346	71.232	43.967
#1	25.01	-.00013	-.01005	-.00048	.00437
#2	25.01	-.00062	-.00493	-.00146	.00230
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01436**	**.00054**	**-.00008**	**1.002**	**.00004**
Stddev	.01045	.00020	.00008	.003	.00017
%RSD	72.805	36.789	99.602	.2721	468.09
#1	-.02175	.00067	-.00002	1.004	-.00009
#2	-.00697	.00040	-.00014	.9998	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 14:00:10 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00032**	**-.00040**	**.9973**
Stddev	.00056	.00013	.00041	.0001
%RSD	99.923	39.445	101.85	.0065
#1	-.00017	.00023	-.00069	.9972
#2	-.00096	.00041	-.00011	.9973
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3590.2**	**3094.6**	**27929.**	**3010.0**
Stddev	7.3	4.3	80.	3.2
%RSD	.20398	.13863	.28678	.10481
#1	3585.0	3091.5	27872.	3012.3
#2	3595.3	3097.6	27986.	3007.8

Sample Name: CCVL-6819272 Acquired: 12/17/2021 14:03:59 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00559**	**.17927**	**.01241**	**.01704**	**.00208**
Stddev	.00057	.02664	.00118	.00039	.00002
%RSD	10.273	14.862	9.5149	2.3099	1.0250
#1	.00600	.16043	.01157	.01676	.00210
#2	.00519	.19811	.01324	.01731	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.50469**	**.00212**	**-.0575**	**.00351**
Stddev	.00013	.00090	.00009	.0180	.00007
%RSD	6.2774	.17888	4.1947	31.27	1.9339
#1	.00193	.50405	.00206	-.0702	.00356
#2	.00211	.50533	.00219	-.0448	.00346
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00430**	**.01001**	**.04595**	**.41905**	**.02889**
Stddev	.00004	.00020	.00007	.06050	.00227
%RSD	.90215	1.9752	.16286	14.437	7.8633
#1	.00427	.01015	.04589	.46183	.03049
#2	.00433	.00987	.04600	.37627	.02728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 14:03:59 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19219**	**.00302**	**.00982**	**.96241**	**.00930**
Stddev	.00147	.00003	.00008	.01154	.00034
%RSD	.76584	1.1590	.84962	1.1991	3.6632
#1	.19324	.00299	.00976	.97057	.00906
#2	.19115	.00304	.00988	.95425	.00954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00862**	**.17670**	**.01820**	**.02105**
Stddev	.00	.00177	.00169	.00031	.00448
%RSD	.0048	20.507	.95741	1.6821	21.294
#1	25.00	.00737	.17789	.01799	.02422
#2	25.00	.00987	.17550	.01842	.01788
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47605**	**.00929**	**.00506**	F **1.011**	**.00485**
Stddev	.02003	.00028	.00001	.000	.00017
%RSD	4.2069	3.0381	.29084	.0163	3.5670
#1	.49021	.00909	.00507	1.011	.00498
#2	.46189	.00949	.00505	1.011	.00473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 14:03:59 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01884**	**.00474**	**.01024**	F **.9988**
Stddev	.00001	.00043	.00063	.0003
%RSD	.02891	9.1165	6.1473	.0271
#1	.01883	.00505	.01068	.9986
#2	.01884	.00444	.00979	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3596.6**	**3114.1**	**28026.**	**3052.9**
Stddev	4.1	3.2	51.	31.5
%RSD	.11421	.10231	.18101	1.0325
#1	3593.7	3111.9	27990.	3030.6
#2	3599.5	3116.4	28062.	3075.2

Sample Name: 480-193300-A-5-A Acquired: 12/17/2021 14:07:47 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.36702**	**-.00011**	**.02002**	**.04066**
Stddev	.00060	.01644	.00083	.00034	.00006
%RSD	417.65	4.4780	726.89	1.7097	.14770
#1	.00057	.35540	-.00070	.02026	.04061
#2	-.00028	.37864	.00047	.01978	.04070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**15.838**	**.00028**	**-.0438**	**.01418**
Stddev	.00011	.010	.00002	.0277	.00023
%RSD	12.654	.06192	6.8575	63.29	1.6161
#1	.00093	15.845	.00029	-.0242	.01434
#2	.00078	15.831	.00027	-.0634	.01402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00180**	**.01114**	**.20385**	**1.4145**	**.00467**
Stddev	.00021	.00070	.00238	.0255	.00210
%RSD	11.749	6.2561	1.1680	1.8046	45.033
#1	.00165	.01064	.20216	1.3964	.00615
#2	.00194	.01163	.20553	1.4325	.00318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-5-A Acquired: 12/17/2021 14:07:47 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.837**	**.26107**	**-.00062**	**11.485**	**.01822**
Stddev	.007	.00024	.00019	.041	.00020
%RSD	.06206	.09107	31.018	.35992	1.1241
#1	11.842	.26090	-.00075	11.456	.01836
#2	11.832	.26124	-.00048	11.514	.01807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00055**	**26.097**	**.00030**	**-.00279**
Stddev	.00	.00036	.034	.00065	.00158
%RSD	.0009	65.283	.12871	215.33	56.800
#1	25.00	.00080	26.121	-.00016	-.00391
#2	25.00	.00029	26.073	.00076	-.00167
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0460**	**.00054**	**.13366**	**1.004**	**.00062**
Stddev	.0103	.00020	.00037	.006	.00014
%RSD	.17088	36.521	.27880	.6493	22.783
#1	6.0533	.00068	.13392	1.008	.00072
#2	6.0387	.00040	.13339	.9991	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-5-A Acquired: 12/17/2021 14:07:47 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00031**	**.12467**	**.9981**
Stddev	.00091	.00018	.00077	.0016
%RSD	1569.4	57.980	.61470	.1617
#1	.00058	.00043	.12413	.9993
#2	-.00070	.00018	.12522	.9970
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3502.8**	**3127.5**	**28023.**	**3110.1**
Stddev	15.2	14.1	3.	11.9
%RSD	.43315	.45014	.01015	.38251
#1	3492.1	3117.5	28025.	3118.5
#2	3513.5	3137.4	28021.	3101.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.205%	99.403%	99.824%	102.52%
Range				

Sample Name: 480-193300-A-6-A Acquired: 12/17/2021 14:11:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**4.2375**	**.00133**	**.06927**	**.09595**
Stddev	.00018	.0339	.00014	.00018	.00016
%RSD	1434.1	.79921	10.129	.25643	.16967
#1	.00011	4.2135	.00124	.06940	.09607
#2	-.00014	4.2614	.00143	.06915	.09584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**31.103**	**.00276**	**-.0975**	**.49840**
Stddev	.00006	.045	.00013	.0372	.00035
%RSD	18.341	.14461	4.8853	38.17	.07106
#1	.00035	31.071	.00286	-.0712	.49865
#2	.00027	31.135	.00267	-.1238	.49815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15679**	**.11832**	**5.3250**	**5.5880**	**.00542**
Stddev	.00030	.00019	.0081	.0021	.00168
%RSD	.19343	.16435	.15271	.03666	30.926
#1	.15658	.11846	5.3192	5.5865	.00660
#2	.15700	.11818	5.3307	5.5894	.00423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-6-A Acquired: 12/17/2021 14:11:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.908**	**10.627**	**.00678**	**76.905**	**.09098**
Stddev	.007	.069	.00023	.417	.00002
%RSD	.06078	.65021	3.3936	.54286	.01903
#1	11.902	10.578	.00695	77.200	.09097
#2	11.913	10.676	.00662	76.609	.09099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.98**	**.00771**	**15.250**	**-.00286**	**.00225**
Stddev	.00	.00061	.033	.00094	.00039
%RSD	.0014	7.8649	.21348	32.880	17.395
#1	24.98	.00728	15.273	-.00219	.00252
#2	24.98	.00813	15.227	-.00352	.00197
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.256**	**.00081**	**.20319**	**1.005**	**.04415**
Stddev	.029	.00016	.00054	.005	.00389
%RSD	.20595	20.262	.26348	.5038	8.8038
#1	14.235	.00093	.20281	1.009	.04140
#2	14.277	.00070	.20357	1.002	.04689
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-6-A Acquired: 12/17/2021 14:11:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00337**	**.03195**	**.39867**	**.9957**
Stddev	.00016	.00069	.00213	.0001
%RSD	4.7835	2.1552	.53506	.0134
#1	-.00348	.03147	.39716	.9956
#2	-.00325	.03244	.40018	.9958
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3290.9**	**3129.0**	**27873.**	**3171.0**
Stddev	3.8	5.0	48.	11.4
%RSD	.11428	.15853	.17106	.36071
#1	3293.5	3132.6	27907.	3179.1
#2	3288.2	3125.5	27840.	3162.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.263%	99.454%	99.292%	104.53%
Range				

Sample Name: 480-193300-A-6-ASD@5 Acquired: 12/17/2021 14:15:15 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.97683**	**-.00189**	**.01090**	**.01976**
Stddev	.00052	.02587	.00142	.00021	.00000
%RSD	153.69	2.6482	75.325	1.9280	.00944
#1	-.00003	.99512	-.00290	.01075	.01976
#2	.00070	.95854	-.00088	.01105	.01976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**6.4242**	**.00059**	**-.0298**	**.09610**
Stddev	.00014	.0164	.00013	.0196	.00029
%RSD	189.25	.25598	21.816	65.75	.30063
#1	.00017	6.4126	.00050	-.0437	.09590
#2	-.00002	6.4358	.00068	-.0160	.09631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03165**	**.02235**	**1.1070**	**1.1208**	**.00049**
Stddev	.00046	.00083	.0000	.0268	.00109
%RSD	1.4501	3.6974	.00236	2.3912	223.94
#1	.03197	.02293	1.1070	1.1019	.00125
#2	.03133	.02176	1.1070	1.1398	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-6-ASD@5 Acquired: 12/17/2021 14:15:15 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4539**	**2.2621**	**.00080**	**15.281**	**.01759**
Stddev	.0190	.0088	.00002	.032	.00018
%RSD	.77359	.38844	1.8768	.20959	1.0222
#1	2.4673	2.2683	.00079	15.259	.01772
#2	2.4405	2.2559	.00081	15.304	.01746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00012**	**2.9870**	**.00009**	**.00016**
Stddev	.00	.00122	.0068	.00136	.00144
%RSD	.0011	1005.9	.22831	1489.7	873.25
#1	25.00	-.00074	2.9822	-.00087	.00118
#2	25.00	.00099	2.9919	.00106	-.00085
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1017**	**.00005**	**.04191**	**.9984**	**.01064**
Stddev	.0094	.00047	.00021	.0011	.00079
%RSD	.30428	1032.9	.49533	.1136	7.3928
#1	3.1084	-.00029	.04176	.9992	.01008
#2	3.0951	.00038	.04206	.9976	.01120
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-6-ASD@5 Acquired: 12/17/2021 14:15:15 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00179**	**.00656**	**.08057**	**.9972**
Stddev	.00065	.00065	.00039	.0006
%RSD	36.325	9.8520	.48473	.0601
#1	-.00133	.00702	.08029	.9976
#2	-.00224	.00610	.08085	.9968
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3488.0**	**3094.7**	**27807.**	**3041.3**
Stddev	5.5	4.1	210.	11.0
%RSD	.15780	.13356	.75487	.36236
#1	3484.1	3091.8	27659.	3049.1
#2	3491.9	3097.7	27956.	3033.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.789%	98.363%	99.056%	100.25%
Range				

Sample Name: 480-193300-A-6-APDS Acquired: 12/17/2021 14:18:57 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04966**	**15.298**	**.21578**	**.27491**	**.29524**
Stddev	.00031	.065	.00203	.00011	.00012
%RSD	.62598	.42252	.93997	.03989	.04079
#1	.04944	15.252	.21722	.27483	.29533
#2	.04988	15.344	.21435	.27499	.29516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21927**	**40.262**	**.20888**	**-.0618**	**.68174**
Stddev	.00065	.104	.00020	.0213	.00116
%RSD	.29426	.25730	.09639	34.54	.16980
#1	.21881	40.189	.20902	-.0467	.68092
#2	.21973	40.336	.20873	-.0769	.68256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35406**	**.31622**	**15.413**	**15.341**	**.20922**
Stddev	.00093	.00143	.013	.066	.00033
%RSD	.26169	.45274	.08290	.43044	.15914
#1	.35471	.31724	15.404	15.294	.20898
#2	.35340	.31521	15.422	15.387	.20945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-6-APDS Acquired: 12/17/2021 14:18:57 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.635**	**10.486**	**.21836**	**84.972**	**.29083**
Stddev	.017	.017	.00035	.146	.00051
%RSD	.07858	.15743	.15932	.17164	.17490
#1	21.647	10.475	.21861	84.869	.29119
#2	21.623	10.498	.21811	85.075	.29047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.80**	**.21420**	**24.475**	**.21709**	**.20722**
Stddev	.00	.00200	.009	.00148	.00198
%RSD	.0060	.93203	.03489	.68176	.95364
#1	24.80	.21279	24.481	.21813	.20861
#2	24.80	.21561	24.469	.21604	.20582
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.934**	**.19475**	**.39886**	**1.010**	**.28104**
Stddev	.052	.00035	.00168	.002	.00248
%RSD	.20245	.17742	.42031	.2151	.88390
#1	25.896	.19499	.39767	1.011	.27929
#2	25.971	.19450	.40004	1.008	.28280
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-6-APDS Acquired: 12/17/2021 14:18:57 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20492**	**.23791**	**.58927**	**1.003**
Stddev	.00046	.00017	.00022	.001
%RSD	.22610	.07151	.03796	.0868
#1	.20459	.23803	.58911	1.003
#2	.20525	.23779	.58942	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3211.7**	**3093.4**	**27552.**	**3113.4**
Stddev	1.1	3.9	15.	24.1
%RSD	.03417	.12649	.05396	.77249
#1	3210.9	3090.6	27542.	3130.4
#2	3212.5	3096.2	27563.	3096.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.044%	98.321%	98.148%	102.63%
Range				

Sample Name: 480-193300-A-6-B MS Acquired: 12/17/2021 14:22:36 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05026**	**28.674**	**.20585**	**.27670**	**.30773**
Stddev	.00053	.044	.00164	.00006	.00022
%RSD	1.0617	.15337	.79477	.02188	.07215
#1	.04989	28.705	.20470	.27666	.30758
#2	.05064	28.643	.20701	.27675	.30789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21002**	**41.333**	**.20309**	**-.0701**	**.70023**
Stddev	.00031	.037	.00065	.0000	.00029
%RSD	.14603	.09023	.31883	.0156	.04139
#1	.20980	41.306	.20263	-.0701	.70003
#2	.21024	41.359	.20355	-.0701	.70044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44087**	**.34900**	**19.469**	**15.614**	**.20492**
Stddev	.00012	.00021	.050	.037	.00134
%RSD	.02634	.06132	.25705	.23488	.65621
#1	.44079	.34885	19.504	15.588	.20397
#2	.44096	.34916	19.433	15.640	.20587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-6-B MS Acquired: 12/17/2021 14:22:36 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.945**	**10.666**	**.21538**	**87.512**	**.29842**
Stddev	.077	.063	.00001	.227	.00142
%RSD	.33724	.58651	.00562	.25995	.47689
#1	22.891	10.621	.21537	87.673	.29943
#2	23.000	10.710	.21539	87.351	.29742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.21581**	**24.767**	**.20203**	**.19858**
Stddev	.00	.00066	.062	.00188	.00214
%RSD	.0036	.30782	.24883	.93101	1.0799
#1	24.84	.21534	24.724	.20070	.20010
#2	24.84	.21628	24.811	.20336	.19706
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.028**	**.19523**	**.40541**	**1.008**	**.30629**
Stddev	.006	.00036	.00028	.008	.00072
%RSD	.01222	.18490	.06859	.7961	.23495
#1	49.023	.19549	.40561	1.013	.30680
#2	49.032	.19498	.40521	1.002	.30578
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-6-B MS Acquired: 12/17/2021 14:22:36 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20014**	**.26743**	**.61008**	**1.004**
Stddev	.00041	.00050	.00014	.000
%RSD	.20497	.18742	.02315	.0426
#1	.20043	.26708	.60998	1.004
#2	.19985	.26779	.61018	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3175.8**	**3117.7**	**27552.**	**3146.7**
Stddev	2.7	.7	2.	17.1
%RSD	.08539	.02225	.00561	.54307
#1	3173.9	3118.2	27550.	3134.6
#2	3177.8	3117.3	27553.	3158.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.038%	99.094%	98.145%	103.73%
Range				

Sample Name: 480-193300-A-6-C MSD Acquired: 12/17/2021 14:26:15 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05075**	**24.292**	**.20891**	**.27863**	**.30301**
Stddev	.00005	.059	.00157	.00035	.00024
%RSD	.10046	.24451	.75095	.12640	.07809
#1	.05079	24.334	.21002	.27838	.30318
#2	.05072	24.250	.20780	.27888	.30284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20947**	**41.257**	**.20375**	**-.0724**	**.70964**
Stddev	.00038	.066	.00010	.0404	.00175
%RSD	.18180	.16095	.05019	55.83	.24598
#1	.20920	41.304	.20383	-.0438	.70840
#2	.20974	41.210	.20368	-.1010	.71087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36169**	**.32610**	**16.705**	**15.621**	**.20462**
Stddev	.00056	.00034	.037	.015	.00159
%RSD	.15455	.10500	.21859	.09816	.77471
#1	.36130	.32634	16.731	15.632	.20574
#2	.36209	.32586	16.679	15.610	.20350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-6-C MSD Acquired: 12/17/2021 14:26:15 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.580**	**11.067**	**.21228**	**87.567**	**.28975**
Stddev	.049	.009	.00007	.155	.00077
%RSD	.21766	.07804	.03448	.17723	.26516
#1	22.615	11.061	.21233	87.677	.28921
#2	22.545	11.073	.21223	87.458	.29030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.80**	**.21100**	**25.302**	**.20924**	**.19775**
Stddev	.00	.00139	.051	.00207	.00147
%RSD	.0007	.65932	.20031	.98920	.74154
#1	24.80	.21002	25.266	.21071	.19671
#2	24.80	.21198	25.338	.20778	.19879
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.148**	**.19724**	**.40269**	**1.011**	**.28072**
Stddev	.043	.00066	.00041	.002	.00013
%RSD	.10554	.33339	.10304	.1481	.04490
#1	41.179	.19677	.40298	1.010	.28064
#2	41.117	.19770	.40240	1.012	.28081
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-6-C MSD Acquired: 12/17/2021 14:26:15 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20074**	**.24844**	**.60269**	**1.000**
Stddev	.00105	.00041	.00008	.001
%RSD	.52367	.16326	.01344	.0481
#1	.19999	.24873	.60275	.9997
#2	.20148	.24816	.60263	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3205.3**	**3117.3**	**27437.**	**3155.4**
Stddev	5.8	10.4	60.	31.1
%RSD	.18148	.33499	.21775	.98499
#1	3201.2	3109.9	27395.	3133.4
#2	3209.4	3124.6	27479.	3177.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.863%	99.079%	97.738%	104.01%
Range				

Sample Name: 480-193300-A-7-A Acquired: 12/17/2021 14:29:54 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.07860**	**-.00081**	**.02916**	**.17161**
Stddev	.00096	.02347	.00131	.00006	.00005
%RSD	292.88	29.859	162.87	.21648	.02897
#1	.00035	.06200	.00012	.02921	.17164
#2	-.00101	.09520	-.00173	.02912	.17157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**5.6547**	**.00033**	**.0119**	**.03925**
Stddev	.00008	.0078	.00004	.0189	.00030
%RSD	21.109	.13773	11.474	159.7	.75859
#1	.00044	5.6492	.00036	.0252	.03904
#2	.00032	5.6602	.00031	-.0015	.03946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04288**	**.03289**	**.21524**	**2.4872**	**.00619**
Stddev	.00003	.00026	.00110	.0378	.00021
%RSD	.07129	.80422	.51069	1.5197	3.3334
#1	.04286	.03271	.21447	2.5140	.00605
#2	.04290	.03308	.21602	2.4605	.00634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-7-A Acquired: 12/17/2021 14:29:54 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0236**	**.37931**	**.00012**	**59.730**	**.26988**
Stddev	.0084	.00007	.00005	.307	.00009
%RSD	.20827	.01886	44.240	.51423	.03275
#1	4.0177	.37926	.00016	59.513	.26982
#2	4.0295	.37936	.00008	59.947	.26994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.98**	**.00053**	**6.3701**	**.00056**	**.00178**
Stddev	.00	.00044	.0043	.00073	.00361
%RSD	.0088	82.921	.06824	131.04	202.78
#1	24.98	.00085	6.3732	.00107	-.00077
#2	24.98	.00022	6.3670	.00004	.00434
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8870**	**.00037**	**.06069**	**1.001**	**-.00023**
Stddev	.0259	.00041	.00007	.002	.00002
%RSD	.37621	109.64	.12248	.2186	10.087
#1	6.8687	.00008	.06064	.9996	-.00021
#2	6.9053	.00067	.06075	1.003	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-7-A Acquired: 12/17/2021 14:29:54 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00005**	**.15057**	**.9982**
Stddev	.00006	.00035	.00056	.0003
%RSD	19.165	666.87	.37399	.0342
#1	-.00026	-.00020	.15097	.9985
#2	-.00035	.00030	.15018	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3397.7**	**3083.4**	**27421.**	**3096.5**
Stddev	4.1	4.0	33.	11.9
%RSD	.11986	.13002	.12000	.38317
#1	3400.6	3086.2	27397.	3104.9
#2	3394.8	3080.5	27444.	3088.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.258%	98.002%	97.679%	102.07%
Range				

Sample Name: 480-193300-A-9-A Acquired: 12/17/2021 14:33:35 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**15.600**	**.00410**	**.01775**	**.01971**
Stddev	.00132	.013	.00051	.00005	.00001
%RSD	183.93	.08381	12.377	.30504	.06530
#1	-.00022	15.590	.00446	.01771	.01970
#2	.00165	15.609	.00374	.01779	.01972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00408**	**29.146**	**.00163**	**.2319**	**.11362**
Stddev	.00013	.051	.00003	.0269	.00014
%RSD	3.2915	.17610	1.5872	11.59	.12563
#1	.00418	29.109	.00164	.2129	.11372
#2	.00399	29.182	.00161	.2509	.11352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00637**	**.12040**	**7.4327**	**1.6712**	**.05535**
Stddev	.00064	.00132	.0136	.0528	.00057
%RSD	10.002	1.0943	.18254	3.1586	1.0326
#1	.00682	.12133	7.4232	1.6339	.05576
#2	.00592	.11946	7.4423	1.7085	.05495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-9-A Acquired: 12/17/2021 14:33:35 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.958**	**1.9128**	**-.00084**	**8.6787**	**.12362**
Stddev	.013	.0012	.00019	.0155	.00047
%RSD	.05880	.06190	23.185	.17871	.38373
#1	21.949	1.9136	-.00098	8.6896	.12328
#2	21.967	1.9119	-.00070	8.6677	.12395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.91**	**.00954**	F **91.108**	**-.00193**	**-.00187**
Stddev	.00	.00021	.020	.00057	.00213
%RSD	.0045	2.2206	.02223	29.363	113.94
#1	24.91	.00939	91.094	-.00153	-.00036
#2	24.91	.00969	91.123	-.00233	-.00338
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.5470**	**.00049**	**.13857**	**1.005**	**.00047**
Stddev	.0100	.00030	.00004	.000	.00024
%RSD	.13205	61.192	.03245	.0105	51.261
#1	7.5540	.00070	.13854	1.005	.00030
#2	7.5399	.00028	.13860	1.005	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-9-A Acquired: 12/17/2021 14:33:35 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00254**	**.00911**	**.39211**	**.9980**
Stddev	.00141	.00003	.00259	.0006
%RSD	55.465	.27790	.65948	.0613
#1	-.00154	.00913	.39394	.9975
#2	-.00353	.00910	.39029	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3421.8**	**3551.7**	**31794.**	**3546.7**
Stddev	.6	3.1	68.	5.2
%RSD	.01620	.08761	.21503	.14585
#1	3421.4	3553.9	31746.	3550.4
#2	3422.2	3549.5	31842.	3543.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.934%	112.89%	113.26%	116.91%
Range				

Sample Name: 480-193300-A-10-A Acquired: 12/17/2021 14:37:14 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**1.4489**	**-.00086**	**.01056**	**.03045**
Stddev	.00022	.0370	.00179	.00012	.00001
%RSD	92.562	2.5509	207.08	1.1240	.01826
#1	.00008	1.4228	.00040	.01048	.03044
#2	.00039	1.4750	-.00213	.01065	.03045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00185**	**14.415**	**.00084**	**.0953**	**.02902**
Stddev	.00002	.028	.00007	.0113	.00003
%RSD	1.1070	.19210	8.4429	11.83	.11924
#1	.00184	14.435	.00079	.0873	.02900
#2	.00187	14.396	.00089	.1032	.02905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.01772**	**1.3200**	**1.3351**	**.00605**
Stddev	.00014	.00016	.0056	.0591	.00171
%RSD	38.533	.90768	.42798	4.4252	28.258
#1	.00027	.01760	1.3239	1.2933	.00484
#2	.00048	.01783	1.3160	1.3768	.00726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-10-A Acquired: 12/17/2021 14:37:14 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9710**	**1.0163**	**-.00096**	**2.8879**	**.02945**
Stddev	.0196	.0016	.00021	.0012	.00021
%RSD	.28147	.15381	21.893	.04215	.70255
#1	6.9571	1.0152	-.00111	2.8870	.02960
#2	6.9848	1.0175	-.00081	2.8888	.02931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**.00341**	**28.220**	**.00029**	**-.00038**
Stddev	.00	.00008	.024	.00169	.00135
%RSD	.0006	2.3542	.08497	574.61	353.51
#1	24.99	.00335	28.203	-.00090	-.00134
#2	24.99	.00346	28.236	.00149	.00057
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8159**	**-.00025**	**.10254**	**.9992**	**-.00031**
Stddev	.0590	.00025	.00001	.0020	.00000
%RSD	.60083	101.66	.01032	.1959	.49526
#1	9.7742	-.00042	.10255	1.001	-.00031
#2	9.8576	-.00007	.10253	.9978	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-10-A Acquired: 12/17/2021 14:37:14 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00021**	**.11397**	**.9970**
Stddev	.00044	.00034	.00073	.0000
%RSD	144.39	161.74	.63999	.0041
#1	.00062	.00045	.11345	.9969
#2	-.00001	-.00003	.11448	.9970
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3554.3**	**3282.3**	**29338.**	**3211.0**
Stddev	9.4	5.9	52.	19.0
%RSD	.26528	.17973	.17772	.59091
#1	3547.7	3278.1	29375.	3197.6
#2	3561.0	3286.5	29301.	3224.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.650%	104.32%	104.51%	105.85%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 14:40:58 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98901**	**50.332**	**1.0043**	**1.0324**	**.99284**
Stddev	.00299	.151	.0009	.0016	.00161
%RSD	.30217	.29939	.08804	.15930	.16184
#1	.98690	50.439	1.0049	1.0312	.99171
#2	.99113	50.226	1.0036	1.0335	.99398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0092**	**49.591**	**.99727**	**1.052**	**.96091**
Stddev	.0005	.054	.00022	.041	.00015
%RSD	.05358	.10864	.02195	3.885	.01519
#1	1.0088	49.629	.99711	1.081	.96081
#2	1.0096	49.553	.99742	1.023	.96102
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0035**	**.98935**	**49.600**	**49.286**	**1.0041**
Stddev	.0027	.00207	.215	.093	.0016
%RSD	.27150	.20907	.43375	.18853	.15857
#1	1.0015	.98788	49.752	49.221	1.0030
#2	1.0054	.99081	49.448	49.352	1.0052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 14:40:58 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.496**	**.99051**	**1.0147**	**49.735**	**.97365**
Stddev	.151	.00289	.0008	.022	.00065
%RSD	.31050	.29211	.07345	.04355	.06725
#1	48.389	.98846	1.0152	49.720	.97319
#2	48.602	.99255	1.0141	49.750	.97411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.45**	**.96474**	**24.760**	**.99818**	**.99398**
Stddev	.01	.00105	.007	.00873	.00362
%RSD	.0204	.10887	.02806	.87446	.36469
#1	37.44	.96549	24.755	.99201	.99142
#2	37.46	.96400	24.765	1.0044	.99654
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.143**	**.96595**	**.99941**	**1.504**	**.99493**
Stddev	.025	.00099	.00181	.009	.00093
%RSD	.24325	.10276	.18094	.5809	.09337
#1	10.126	.96525	.99813	1.497	.99427
#2	10.161	.96665	1.0007	1.510	.99558
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 14:40:58 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98707**	**.99982**	**1.0051**	**1.513**
Stddev	.00148	.00050	.0048	.003
%RSD	.15031	.05012	.47793	.2222
#1	.98812	.99947	1.0017	1.511
#2	.98602	1.0002	1.0085	1.516
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3114.5**	**3004.6**	**26389.**	**2994.2**
Stddev	2.0	.3	100.	4.9
%RSD	.06378	.01022	.37785	.16491
#1	3113.1	3004.3	26460.	2990.7
#2	3115.9	3004.8	26319.	2997.7

Sample Name: CCB-6819143 Acquired: 12/17/2021 14:44:31 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.01470**	**-.00037**	**-.00274**	**.00000**
Stddev	.00005	.01041	.00189	.00002	.00004
%RSD	21.278	70.777	504.32	.66125	1177.1
#1	.00024	.00735	.00096	-.00273	.00003
#2	.00018	.02206	-.00171	-.00276	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00005**	**-.00005**	**-.0056**	**-.00003**
Stddev	.00004	.00274	.00011	.0425	.00002
%RSD	78.172	5733.4	236.86	760.8	48.983
#1	-.00008	.00189	-.00013	-.0356	-.00002
#2	-.00002	-.00198	.00003	.0245	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00047**	**.00197**	**.05118**	**.00032**
Stddev	.00002	.00030	.00243	.00514	.00035
%RSD	214.10	64.770	123.80	10.042	107.14
#1	-.00003	.00068	.00024	.04755	.00008
#2	.00001	.00025	.00369	.05481	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 14:44:31 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00012**	**.00079**	**-.01398**	**-.00024**
Stddev	.00150	.00008	.00039	.00407	.00020
%RSD	277.82	66.004	49.356	29.138	84.053
#1	.00160	.00006	.00051	-.01110	-.00010
#2	-.00052	.00017	.00106	-.01687	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00080**	**-.00227**	**.00112**	**.00258**
Stddev	.00	.00114	.00173	.00198	.00398
%RSD	.0007	142.23	76.459	176.15	154.14
#1	25.01	.00000	-.00349	.00252	-.00023
#2	25.01	-.00160	-.00104	-.00028	.00539
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00461**	**.00046**	**.00014**	**1.000**	**-.00040**
Stddev	.01988	.00009	.00005	.007	.00002
%RSD	431.27	20.682	38.728	.7145	4.7668
#1	-.01867	.00039	.00010	1.005	-.00041
#2	.00945	.00052	.00017	.9951	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 14:44:31 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00030**	**-.00007**	**.9987**
Stddev	.00087	.00058	.00054	.0001
%RSD	123.49	191.51	739.38	.0084
#1	-.00132	.00072	-.00045	.9986
#2	-.00009	-.00011	.00031	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3607.8**	**3100.4**	**27961.**	**3026.0**
Stddev	6.9	.6	68.	5.2
%RSD	.19165	.01870	.24326	.17106
#1	3602.9	3100.8	27912.	3022.4
#2	3612.6	3099.9	28009.	3029.7

Sample Name: CCVL-6819272 Acquired: 12/17/2021 14:48:20 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00504**	**.17713**	**.01319**	**.01693**	**.00206**
Stddev	.00026	.01090	.00211	.00020	.00004
%RSD	5.1066	6.1524	15.992	1.1946	1.7007
#1	.00522	.16942	.01169	.01707	.00203
#2	.00485	.18483	.01468	.01678	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.49689**	**.00205**	**-.0478**	**.00347**
Stddev	.00008	.00679	.00005	.0138	.00008
%RSD	3.9264	1.3667	2.6335	28.86	2.2774
#1	.00201	.49209	.00209	-.0576	.00342
#2	.00212	.50169	.00201	-.0381	.00353
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00408**	**.01035**	**.04963**	**.49983**	**.03165**
Stddev	.00015	.00070	.00079	.00885	.00060
%RSD	3.7411	6.7235	1.5877	1.7698	1.9097
#1	.00397	.00986	.04907	.49357	.03122
#2	.00419	.01084	.05019	.50608	.03208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 14:48:20 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19126**	**.00310**	**.00989**	**.94921**	**.00929**
Stddev	.00366	.00004	.00010	.00844	.00044
%RSD	1.9140	1.1516	1.0410	.88957	4.7624
#1	.19384	.00308	.00996	.94324	.00897
#2	.18867	.00313	.00981	.95518	.00960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00922**	**.17869**	**.02164**	**.02095**
Stddev	.00	.00105	.00383	.00041	.00342
%RSD	.0019	11.421	2.1447	1.9148	16.344
#1	25.00	.00997	.18140	.02193	.02337
#2	25.00	.00848	.17598	.02135	.01853
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46316**	**.00964**	**.00501**	F **1.002**	**.00479**
Stddev	.00600	.00015	.00000	.002	.00020
%RSD	1.2948	1.5709	.03902	.2255	4.2151
#1	.46740	.00974	.00500	1.003	.00493
#2	.45892	.00953	.00501	1.0000	.00465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 14:48:20 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01914**	**.00515**	**.00988**	F **.9990**
Stddev	.00095	.00031	.00039	.0006
%RSD	4.9776	5.9949	3.9781	.0604
#1	.01981	.00536	.01016	.9994
#2	.01846	.00493	.00960	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3600.0**	**3133.5**	**28281.**	**3087.1**
Stddev	2.1	.8	14.	6.0
%RSD	.05843	.02433	.04969	.19313
#1	3598.6	3134.0	28291.	3091.3
#2	3601.5	3132.9	28271.	3082.9

Sample Name: 480-193300-A-11-A Acquired: 12/17/2021 14:52:07 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.63010**	**.00114**	**.03430**	**.03009**
Stddev	.00025	.01094	.00136	.00002	.00009
%RSD	35.512	1.7365	119.07	.06917	.30044
#1	.00052	.62237	.00210	.03428	.03016
#2	.00087	.63784	.00018	.03432	.03003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**26.823**	**.00045**	**-.0760**	**.23010**
Stddev	.00007	.031	.00006	.0440	.00034
%RSD	9.1915	.11654	14.211	57.80	.14932
#1	.00068	26.845	.00049	-.1071	.23034
#2	.00077	26.801	.00040	-.0450	.22986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00482**	**.00477**	**10.525**	**2.4488**	**.00423**
Stddev	.00005	.00091	.007	.0029	.00017
%RSD	1.0191	19.059	.06436	.11991	3.9478
#1	.00485	.00541	10.530	2.4468	.00412
#2	.00478	.00412	10.520	2.4509	.00435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-11-A Acquired: 12/17/2021 14:52:07 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.258**	**15.752**	**-.00166**	**6.0453**	**.00973**
Stddev	.007	.002	.00015	.0234	.00029
%RSD	.04552	.01356	9.0604	.38669	2.9613
#1	16.263	15.753	-.00155	6.0288	.00994
#2	16.253	15.750	-.00176	6.0619	.00953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00800**	**64.456**	**-.00165**	**.00177**
Stddev	.00	.00129	.070	.00147	.00072
%RSD	.0011	16.116	.10921	88.781	40.953
#1	25.00	.00892	64.407	-.00269	.00126
#2	25.00	.00709	64.506	-.00061	.00228
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1194**	**-.00020**	**.10665**	**.9976**	**.00066**
Stddev	.0513	.00005	.00010	.0015	.00035
%RSD	1.2453	26.868	.09367	.1520	53.002
#1	4.1557	-.00024	.10658	.9965	.00091
#2	4.0831	-.00016	.10672	.9986	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-11-A Acquired: 12/17/2021 14:52:07 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00422**	**.00146**	**.05098**	**.9930**
Stddev	.00109	.00003	.00036	.0011
%RSD	25.899	2.1961	.70680	.1104
#1	-.00499	.00144	.05124	.9938
#2	-.00345	.00149	.05073	.9922
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3462.0**	**3168.4**	**28316.**	**3152.4**
Stddev	15.2	14.4	82.	7.6
%RSD	.43978	.45454	.28919	.24079
#1	3451.2	3158.2	28258.	3147.0
#2	3472.7	3178.5	28374.	3157.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.060%	100.70%	100.87%	103.91%
Range				

Sample Name: 480-193300-A-12-A Acquired: 12/17/2021 14:55:54 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**7.8378**	**.00334**	**.02820**	**.01741**
Stddev	.00000	.0013	.00157	.00011	.00001
%RSD	.35807	.01601	47.147	.37716	.05838
#1	.00084	7.8387	.00445	.02812	.01740
#2	.00084	7.8369	.00223	.02827	.01742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00328**	**52.444**	**.00063**	**.2357**	**.06144**
Stddev	.00008	.148	.00007	.0241	.00009
%RSD	2.2889	.28143	10.725	10.21	.15289
#1	.00323	52.549	.00059	.2187	.06151
#2	.00333	52.340	.00068	.2527	.06137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02361**	**.01016**	**39.118**	**3.2171**	**.12469**
Stddev	.00004	.00070	.013	.0001	.00165
%RSD	.19003	6.8678	.03378	.00143	1.3257
#1	.02364	.01065	39.108	3.2171	.12586
#2	.02358	.00966	39.127	3.2172	.12352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-12-A Acquired: 12/17/2021 14:55:54 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.394**	**1.9620**	**.00103**	**4.0465**	**.10704**
Stddev	.076	.0048	.00020	.0060	.00006
%RSD	.37067	.24242	19.180	.14747	.05610
#1	20.340	1.9586	.00089	4.0508	.10708
#2	20.447	1.9653	.00117	4.0423	.10700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**.01135**	F **109.86**	**.00198**	**.00686**
Stddev	.00	.00010	.20	.00046	.00211
%RSD	.0042	.92372	.18042	23.029	30.712
#1	24.99	.01128	110.00	.00230	.00835
#2	24.99	.01143	109.72	.00165	.00537
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.255**	**.00042**	**.20890**	**1.019**	**.00234**
Stddev	.023	.00061	.00013	.001	.00073
%RSD	.18996	146.02	.06142	.1186	31.040
#1	12.271	.00085	.20900	1.020	.00183
#2	12.238	-.00001	.20881	1.018	.00285
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-A-12-A Acquired: 12/17/2021 14:55:54 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.00142**	**.30089**	**.9978**
Stddev	.00070	.00005	.00054	.0000
%RSD	106.85	3.8087	.18001	.0000
#1	-.00016	.00138	.30051	.9978
#2	-.00115	.00146	.30128	.9978
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3378.8**	**3291.7**	**29470.**	**3299.7**
Stddev	.2	5.0	91.	16.1
%RSD	.00734	.15142	.30831	.48877
#1	3378.9	3288.2	29406.	3288.3
#2	3378.6	3295.3	29535.	3311.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.728%	104.62%	104.98%	108.77%
Range				

Sample Name: 480-193301-D-1-A@5 Acquired: 12/17/2021 14:59:35 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.07485**	**.00736**	**1.9732**	**.07893**
Stddev	.00075	.01654	.00090	.0021	.00002
%RSD	397.48	22.103	12.161	.10443	.03068
#1	-.00072	.06315	.00673	1.9717	.07891
#2	.00034	.08655	.00800	1.9746	.07895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**22.576**	**.00061**	**.0071**	**.00414**
Stddev	.00008	.036	.00019	.0383	.00014
%RSD	265.58	.15825	31.694	542.5	3.3200
#1	.00003	22.551	.00075	-.0200	.00404
#2	-.00009	22.601	.00047	.0342	.00423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00773**	**.00051**	**1.3706**	**66.907**	**.14606**
Stddev	.00056	.00073	.0024	.033	.00361
%RSD	7.2727	142.42	.17600	.04928	2.4723
#1	.00813	.00103	1.3723	66.884	.14351
#2	.00734	-.00000	1.3689	66.931	.14861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193301-D-1-A@5 Acquired: 12/17/2021 14:59:35 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.678**	**.02485**	**.00229**	**252.88**	**.03316**
Stddev	.072	.00010	.00040	.57	.00044
%RSD	.19764	.39487	17.278	.22602	1.3414
#1	36.627	.02478	.00201	252.48	.03284
#2	36.730	.02492	.00257	253.29	.03347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.25**	**-.00110**	**14.478**	**.00174**	**-.00169**
Stddev	.00	.00041	.006	.00261	.00295
%RSD	.0028	37.238	.03889	150.22	174.70
#1	25.25	-.00081	14.474	-.00011	.00040
#2	25.25	-.00140	14.482	.00358	-.00377
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4541**	**.00152**	**.20846**	**.9967**	**.01108**
Stddev	.0348	.00040	.00004	.0098	.00024
%RSD	1.0077	26.256	.02117	.9814	2.1316
#1	3.4295	.00180	.20843	.9898	.01125
#2	3.4787	.00124	.20849	1.004	.01091
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193301-D-1-A@5 Acquired: 12/17/2021 14:59:35 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.04957**	**.00442**	**1.005**
Stddev	.00042	.00012	.00038	.001
%RSD	133.54	.24869	8.6501	.0534
#1	-.00061	.04948	.00469	1.005
#2	-.00002	.04966	.00415	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3079.6**	**2940.9**	**26000.**	**3023.2**
Stddev	1.5	6.1	29.	8.2
%RSD	.04754	.20801	.10982	.27162
#1	3080.6	2945.2	26020.	3017.4
#2	3078.5	2936.6	25980.	3029.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.339%	93.474%	92.617%	99.655%
Range				

Sample Name: 480-193301-D-2-A Acquired: 12/17/2021 15:03:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.04986**	**-.00019**	**.44685**	**.07787**
Stddev	.00026	.02260	.00020	.00008	.00001
%RSD	319.93	45.322	104.60	.01719	.01921
#1	-.00010	.03388	-.00005	.44679	.07788
#2	.00027	.06584	-.00033	.44690	.07786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**182.85**	**.00084**	**.0147**	**.00111**
Stddev	.00003	.14	.00031	.0010	.00008
%RSD	36.446	.07742	36.483	6.881	6.8488
#1	-.00012	182.75	.00062	.0140	.00116
#2	-.00007	182.95	.00106	.0155	.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00288**	**.00509**	**1.4076**	**4.5287**	**.00911**
Stddev	.00050	.00004	.0066	.0069	.00350
%RSD	17.370	.85092	.46620	.15176	38.430
#1	.00252	.00512	1.4029	4.5336	.00663
#2	.00323	.00506	1.4122	4.5239	.01158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193301-D-2-A Acquired: 12/17/2021 15:03:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**114.62**	**.05603**	**-.00051**	**62.234**	**.02212**
Stddev	.11	.00020	.00014	.350	.00025
%RSD	.09712	.35327	28.619	.56234	1.1501
#1	114.70	.05617	-.00061	61.986	.02230
#2	114.54	.05589	-.00040	62.481	.02194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00270**	**24.528**	**-.00052**	**-.00089**
Stddev	.00	.00015	.008	.00071	.00242
%RSD	.0000	5.4356	.03321	137.44	271.12
#1	25.01	.00280	24.534	-.00001	.00082
#2	25.01	.00260	24.522	-.00102	-.00260
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.4131**	**.00019**	**.25591**	**1.004**	**.00178**
Stddev	.0091	.00015	.00016	.003	.00008
%RSD	.10828	83.271	.06119	.2883	4.7120
#1	8.4195	.00008	.25602	1.002	.00184
#2	8.4066	.00030	.25580	1.006	.00172
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193301-D-2-A Acquired: 12/17/2021 15:03:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00005**	**.07802**	**.9975**
Stddev	.00068	.00010	.00088	.0008
%RSD	464.74	221.83	1.1325	.0761
#1	.00063	.00003	.07864	.9970
#2	-.00034	-.00012	.07739	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3048.3**	**2904.2**	**25906.**	**2995.7**
Stddev	9.9	8.9	74.	16.9
%RSD	.32606	.30622	.28448	.56365
#1	3041.3	2897.9	25854.	2983.7
#2	3055.4	2910.5	25959.	3007.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.464%	92.308%	92.285%	98.749%
Range				

Sample Name: 480-193301-D-3-A@5 Acquired: 12/17/2021 15:07:06 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.05988**	**.01515**	**4.1168**	**.06846**
Stddev	.00120	.01521	.00202	.0025	.00009
%RSD	1203.3	25.400	13.327	.06011	.13318
#1	-.00075	.04913	.01658	4.1150	.06840
#2	.00095	.07064	.01372	4.1185	.06852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**17.848**	**.00028**	**-.0231**	**.00707**
Stddev	.00002	.059	.00014	.0400	.00027
%RSD	27.535	.32881	50.728	173.2	3.8537
#1	.00009	17.889	.00018	-.0514	.00726
#2	.00006	17.806	.00038	.0052	.00687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01773**	**.00044**	**.60904**	**83.388**	**.19269**
Stddev	.00008	.00057	.00102	.117	.00037
%RSD	.42424	129.74	.16791	.13980	.19246
#1	.01779	.00004	.60976	83.470	.19243
#2	.01768	.00085	.60832	83.305	.19295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193301-D-3-A@5 Acquired: 12/17/2021 15:07:06 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.493**	**.01393**	**.00017**	**417.03**	**.03387**
Stddev	.020	.00001	.00014	1.17	.00101
%RSD	.05577	.04330	84.131	.28128	2.9956
#1	35.507	.01393	.00027	417.86	.03315
#2	35.479	.01392	.00007	416.20	.03459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.56**	**.00068**	**30.953**	**.00066**	**-.00047**
Stddev	.00	.00071	.002	.00116	.00029
%RSD	.0010	104.03	.00500	177.05	61.081
#1	25.56	.00018	30.952	-.00017	-.00027
#2	25.56	.00118	30.954	.00148	-.00067
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1394**	**.00163**	**.21655**	**1.006**	**.02137**
Stddev	.0437	.00019	.00021	.001	.00028
%RSD	.71113	11.840	.09742	.1061	1.2897
#1	6.1703	.00150	.21670	1.006	.02117
#2	6.1086	.00177	.21641	1.005	.02156
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193301-D-3-A@5 Acquired: 12/17/2021 15:07:06 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.04137**	**.00429**	**1.011**
Stddev	.00091	.00052	.00030	.001
%RSD	2556.3	1.2468	7.0397	.0959
#1	-.00068	.04100	.00408	1.012
#2	.00061	.04173	.00451	1.011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2997.1**	**2922.5**	**25599.**	**3039.8**
Stddev	4.0	7.3	33.	14.3
%RSD	.13413	.25144	.12850	.46984
#1	2994.3	2917.3	25622.	3029.7
#2	3000.0	2927.7	25576.	3049.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.027%	92.889%	91.190%	100.20%
Range				

Sample Name: 480-193301-D-4-A@5 Acquired: 12/17/2021 15:10:55 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.02987**	**.07046**	**4.0093**	**.05056**
Stddev	.00150	.01747	.00089	.0008	.00010
%RSD	317.97	58.482	1.2612	.02072	.19419
#1	.00059	.01752	.07108	4.0087	.05062
#2	-.00153	.04222	.06983	4.0099	.05049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**10.916**	**.00040**	**.0402**	**.00650**
Stddev	.00004	.061	.00009	.0063	.00016
%RSD	39.742	.55648	23.231	15.56	2.5019
#1	.00013	10.873	.00046	.0446	.00639
#2	.00007	10.959	.00033	.0358	.00662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03750**	**.00088**	**.32564**	**91.163**	**.11569**
Stddev	.00026	.00033	.00354	.442	.00007
%RSD	.69329	37.030	1.0885	.48445	.05699
#1	.03768	.00065	.32314	90.851	.11565
#2	.03732	.00111	.32815	91.475	.11574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193301-D-4-A@5 Acquired: 12/17/2021 15:10:55 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.425**	**.01944**	**.00186**	**422.07**	**.03278**
Stddev	.076	.00001	.00022	.97	.00000
%RSD	.23549	.05456	12.027	.23034	.01438
#1	32.371	.01945	.00171	421.38	.03279
#2	32.479	.01943	.00202	422.76	.03278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.61**	**.00021**	**84.746**	**.01587**	**-.00066**
Stddev	.00	.00192	.132	.00145	.00144
%RSD	.0047	895.45	.15578	9.1593	219.49
#1	25.61	.00157	84.840	.01689	-.00168
#2	25.61	-.00114	84.653	.01484	.00036
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.8533**	**.00152**	**.21506**	**.9939**	**.05711**
Stddev	.0570	.00046	.00094	.0006	.00017
%RSD	.72643	30.345	.43822	.0572	.29643
#1	7.8129	.00119	.21439	.9943	.05723
#2	7.8936	.00184	.21572	.9935	.05699
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193301-D-4-A@5 Acquired: 12/17/2021 15:10:55 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.10866**	**.00122**	**1.009**
Stddev	.00005	.00017	.00057	.001
%RSD	35.173	.15213	47.142	.0486
#1	-.00011	.10878	.00162	1.009
#2	-.00018	.10854	.00081	1.009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2986.0**	**2910.1**	**25597.**	**3062.0**
Stddev	.3	2.4	48.	.4
%RSD	.00939	.08417	.18731	.01437
#1	2986.2	2911.8	25630.	3061.7
#2	2985.8	2908.3	25563.	3062.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.715%	92.493%	91.181%	100.93%
Range				

Sample Name: 480-193163-I-1-B Acquired: 12/17/2021 15:14:42 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00488**	**.00192**	**.15975**	**.15184**
Stddev	.00014	.03949	.00036	.00081	.00012
%RSD	607.63	809.12	18.885	.50985	.08011
#1	.00012	-.02304	.00217	.16032	.15193
#2	-.00008	.03280	.00166	.15917	.15176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**89.163**	**.00025**	**-.0109**	**.00038**
Stddev	.00007	.013	.00013	.0144	.00018
%RSD	506.38	.01403	52.950	132.0	47.726
#1	.00003	89.172	.00016	-.0007	.00025
#2	-.00006	89.154	.00034	-.0211	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.01889**	**.08358**	**2.2786**	**.00645**
Stddev	.00029	.00019	.00075	.0209	.00041
%RSD	35.196	.98782	.89380	.91543	6.2824
#1	.00102	.01902	.08305	2.2934	.00674
#2	.00061	.01876	.08411	2.2639	.00617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193163-I-1-B Acquired: 12/17/2021 15:14:42 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.417**	**.01235**	**.00178**	**68.038**	**.00155**
Stddev	.003	.00014	.00009	.029	.00052
%RSD	.01029	1.1020	5.0768	.04249	33.448
#1	27.419	.01244	.00172	68.018	.00192
#2	27.415	.01225	.00185	68.059	.00118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00318**	**11.574**	**.00383**	**.00112**
Stddev	.00	.00056	.008	.00057	.00551
%RSD	.0050	17.588	.07327	14.914	492.95
#1	25.01	.00358	11.568	.00423	.00501
#2	25.01	.00279	11.580	.00342	-.00278
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1642**	**.01223**	**.21011**	**1.002**	**.00090**
Stddev	.0031	.00053	.00012	.009	.00011
%RSD	.05931	4.3534	.05719	.8639	12.640
#1	5.1663	.01261	.21019	1.008	.00098
#2	5.1620	.01186	.21002	.9959	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193163-I-1-B Acquired: 12/17/2021 15:14:42 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00016**	**.01372**	**.9985**
Stddev	.00128	.00030	.00001	.0014
%RSD	319.82	185.87	.04378	.1443
#1	-.00050	-.00037	.01372	.9975
#2	.00130	.00005	.01371	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3218.6**	**2975.9**	**26499.**	**2988.6**
Stddev	17.6	13.5	73.	4.4
%RSD	.54703	.45384	.27684	.14587
#1	3206.1	2966.4	26551.	2985.5
#2	3231.0	2985.5	26447.	2991.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.236%	94.586%	94.395%	98.515%
Range				

Sample Name: 480-193444-C-5-A@5 Acquired: 12/17/2021 15:18:25 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00125**	**.02006**	**-.00009**	**.07755**	**.12390**
Stddev	.00101	.01792	.00065	.00119	.00028
%RSD	81.275	89.372	727.75	1.5283	.22497
#1	-.00196	.00738	-.00055	.07839	.12410
#2	-.00053	.03273	.00037	.07671	.12371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**41.497**	**.00008**	**-.0336**	**-.00014**
Stddev	.00004	.167	.00010	.0384	.00008
%RSD	93.499	.40295	126.54	114.4	55.353
#1	-.00001	41.615	.00014	-.0064	-.00019
#2	-.00007	41.379	.00001	-.0608	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00106**	**.01890**	**10.534**	**.00456**
Stddev	.00017	.00045	.00185	.054	.00091
%RSD	171.60	42.508	9.7788	.50910	19.924
#1	-.00002	.00074	.02021	10.572	.00521
#2	.00022	.00138	.01759	10.496	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193444-C-5-A@5 Acquired: 12/17/2021 15:18:25 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3993**	**.00727**	**.00245**	**228.76**	**-.00022**
Stddev	.0107	.00010	.00010	1.03	.00033
%RSD	.24442	1.3726	3.9925	.44861	148.02
#1	4.3917	.00720	.00238	229.49	-.00046
#2	4.4069	.00734	.00252	228.04	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**-.00010**	**6.0741**	**-.00125**	**-.00096**
Stddev	.00	.00075	.0094	.00182	.00107
%RSD	.0048	756.07	.15411	145.79	111.78
#1	25.04	.00043	6.0807	.00004	-.00020
#2	25.04	-.00063	6.0675	-.00253	-.00172
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6056**	**.00004**	**.39005**	**.9977**	**.00046**
Stddev	.0267	.00013	.00031	.0002	.00036
%RSD	1.6657	289.60	.07886	.0245	77.883
#1	1.6245	-.00005	.39026	.9975	.00021
#2	1.5867	.00014	.38983	.9979	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193444-C-5-A@5 Acquired: 12/17/2021 15:18:25 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00321**	**.00057**	**.9976**
Stddev	.00082	.00014	.00047	.0001
%RSD	243.77	4.3864	83.378	.0119
#1	.00091	.00311	.00090	.9975
#2	-.00024	.00331	.00023	.9977
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3112.8**	**2945.1**	**25890.**	**2981.3**
Stddev	3.8	.2	8.	14.8
%RSD	.12090	.00768	.02929	.49513
#1	3115.4	2945.0	25885.	2970.9
#2	3110.1	2945.3	25896.	2991.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.270%	93.608%	92.227%	98.275%
Range				

Sample Name: 480-193444-C-6-A@5 Acquired: 12/17/2021 15:22:16 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00572**	**.00025**	**.04165**	**.25321**
Stddev	.00022	.00430	.00098	.00060	.00014
%RSD	116.05	75.141	395.74	1.4302	.05566
#1	-.00003	.00877	-.00044	.04207	.25331
#2	-.00034	.00268	.00094	.04123	.25311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**56.088**	**.00025**	**-.0017**	**.00134**
Stddev	.00010	.332	.00009	.0075	.00005
%RSD	656.74	.59241	35.800	434.5	3.7579
#1	.00008	55.853	.00032	.0036	.00138
#2	-.00005	56.323	.00019	-.0070	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00050**	**1.3939**	**2.7756**	**.00703**
Stddev	.00026	.00029	.0108	.0027	.00042
%RSD	121.35	57.361	.77529	.09555	5.9119
#1	-.00039	.00070	1.3863	2.7775	.00674
#2	-.00003	.00030	1.4016	2.7738	.00733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193444-C-6-A@5 Acquired: 12/17/2021 15:22:16 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.260**	**1.8101**	**-.00056**	**382.07**	**.00161**
Stddev	.035	.0017	.00001	2.19	.00048
%RSD	.28640	.09111	2.0004	.57303	30.083
#1	12.235	1.8113	-.00057	380.52	.00195
#2	12.284	1.8089	-.00055	383.62	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00044**	**.98767**	**-.00432**	**-.00027**
Stddev	.00	.00144	.00085	.00115	.00148
%RSD	.0053	324.17	.08650	26.576	542.75
#1	25.01	.00146	.98828	-.00351	.00077
#2	25.01	-.00057	.98707	-.00514	-.00132
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2357**	**.00005**	**.49729**	**.9969**	**.00045**
Stddev	.0166	.00014	.00278	.0054	.00038
%RSD	.74317	278.68	.55814	.5380	85.191
#1	2.2239	.00015	.49532	.9931	.00072
#2	2.2474	-.00005	.49925	1.001	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193444-C-6-A@5 Acquired: 12/17/2021 15:22:16 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00028**	**.00859**	**.9971**
Stddev	.00164	.00012	.00023	.0006
%RSD	3667.5	42.627	2.6218	.0554
#1	-.00111	.00036	.00843	.9975
#2	.00120	.00019	.00875	.9967
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2984.2**	**2892.4**	**25384.**	**2963.1**
Stddev	6.6	8.1	12.	.8
%RSD	.22199	.28005	.04711	.02606
#1	2988.9	2898.1	25375.	2962.6
#2	2979.6	2886.6	25392.	2963.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.667%	91.931%	90.422%	97.676%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 15:26:08 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99970**	**50.198**	**1.0000**	**1.0343**	**.99192**
Stddev	.00112	.099	.0019	.0007	.00263
%RSD	.11216	.19636	.18662	.06575	.26520
#1	1.0005	50.128	1.0014	1.0338	.99006
#2	.99891	50.268	.99872	1.0348	.99378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0056**	**49.499**	**1.0008**	**.9927**	**.96495**
Stddev	.0012	.001	.0003	.0051	.00024
%RSD	.11918	.00278	.02633	.5105	.02449
#1	1.0064	49.499	1.0006	.9963	.96512
#2	1.0048	49.500	1.0010	.9891	.96478
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0028**	**.99410**	**49.685**	**49.307**	**.99953**
Stddev	.0012	.00485	.131	.001	.00049
%RSD	.12083	.48834	.26433	.00241	.04883
#1	1.0037	.99754	49.778	49.308	.99987
#2	1.0020	.99067	49.592	49.306	.99918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 15:26:08 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.708**	**.99439**	**1.0141**	**49.590**	**.97265**
Stddev	.014	.00033	.0014	.001	.00225
%RSD	.02822	.03302	.14124	.00285	.23152
#1	48.718	.99416	1.0151	49.589	.97424
#2	48.698	.99462	1.0131	49.591	.97106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.46**	**.96882**	**24.717**	**1.0035**	**.99614**
Stddev	.02	.00250	.016	.0005	.00008
%RSD	.0444	.25843	.06458	.04873	.00777
#1	37.44	.97059	24.705	1.0038	.99619
#2	37.47	.96705	24.728	1.0031	.99609
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.025**	**.96744**	**.99848**	**1.501**	**.99685**
Stddev	.037	.00026	.00104	.007	.00033
%RSD	.36793	.02643	.10438	.4667	.03297
#1	9.9990	.96726	.99774	1.506	.99662
#2	10.051	.96762	.99922	1.496	.99709
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 15:26:08 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98795**	**.99971**	**1.0078**	**1.517**
Stddev	.00052	.00040	.0022	.001
%RSD	.05290	.04051	.21988	.0724
#1	.98832	1.00000	1.0062	1.517
#2	.98758	.99942	1.0094	1.518
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3104.5**	**2997.0**	**26377.**	**2996.3**
Stddev	5.4	3.8	110.	17.4
%RSD	.17385	.12711	.41530	.57953
#1	3100.7	2994.3	26455.	2984.0
#2	3108.3	2999.7	26300.	3008.6

Sample Name: CCB-6819143 Acquired: 12/17/2021 15:29:41 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00040**	**-.00025**	**-.00002**	**.00003**
Stddev	.00055	.04422	.00011	.00013	.00001
%RSD	263.25	10968.	44.771	679.70	19.308
#1	-.00018	-.03086	-.00017	.00007	.00004
#2	.00059	.03167	-.00033	-.00011	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00176**	**.00009**	**.0297**	**-.00019**
Stddev	.00014	.00039	.00008	.0134	.00001
%RSD	219.58	22.196	83.551	45.24	6.1190
#1	-.00017	-.00204	.00004	.0202	-.00020
#2	.00004	-.00148	.00015	.0391	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00041**	**-.00146**	**.02440**	**.00240**
Stddev	.00011	.00029	.00291	.00255	.00091
%RSD	135.07	70.366	199.83	10.440	38.038
#1	-.00015	.00020	.00060	.02620	.00175
#2	-.00000	.00061	-.00351	.02260	.00304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 15:29:41 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00006**	**.00101**	**.01319**	**-.00007**
Stddev	.00071	.00008	.00009	.00017	.00030
%RSD	242.16	116.46	8.7646	1.3223	455.14
#1	.00021	.00012	.00095	.01307	-.00028
#2	-.00080	.00001	.00107	.01332	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00035**	**-.00310**	**-.00144**	**.00245**
Stddev	.00	.00072	.00246	.00009	.00085
%RSD	.0004	206.04	79.422	6.4692	34.434
#1	25.01	.00016	-.00136	-.00137	.00186
#2	25.01	-.00086	-.00484	-.00150	.00305
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00027**	**.00002**	**.9963**	**.00002**
Stddev	.00969	.00022	.00012	.0188	.00016
%RSD	5150.7	79.983	735.66	1.883	1024.2
#1	.00704	.00012	-.00007	1.010	.00013
#2	-.00666	.00042	.00010	.9830	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 15:29:41 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.00005**	**-.00006**	**.9996**
Stddev	.00009	.00020	.00028	.0020
%RSD	12.163	385.99	456.12	.1959
#1	-.00068	.00020	-.00026	.9982
#2	-.00081	-.00009	.00014	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3600.9**	**3110.7**	**28013.**	**3073.8**
Stddev	20.5	13.1	75.	40.8
%RSD	.56934	.41964	.26675	1.3262
#1	3586.4	3101.5	28066.	3044.9
#2	3615.4	3120.0	27960.	3102.6

Sample Name: CCVL-6819272 Acquired: 12/17/2021 15:33:29 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**.17204**	**.01340**	**.01848**	**.00204**
Stddev	.00014	.01673	.00150	.00038	.00003
%RSD	2.8182	9.7265	11.189	2.0565	1.2723
#1	.00491	.18388	.01234	.01875	.00202
#2	.00511	.16021	.01446	.01821	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**.50666**	**.00193**	**-.0313**	**.00354**
Stddev	.00004	.00210	.00001	.0103	.00012
%RSD	1.7462	.41355	.27796	32.86	3.3444
#1	.00218	.50814	.00192	-.0386	.00345
#2	.00213	.50518	.00193	-.0240	.00362
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00412**	**.00992**	**.04479**	**.44938**	**.03016**
Stddev	.00009	.00032	.00387	.01218	.00019
%RSD	2.1660	3.1889	8.6516	2.7112	.63791
#1	.00418	.00970	.04205	.44077	.03002
#2	.00406	.01015	.04753	.45800	.03029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 15:33:29 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19013**	**.00309**	**.00992**	**.99851**	**.00885**
Stddev	.00209	.00007	.00016	.00448	.00036
%RSD	1.0979	2.3838	1.6201	.44829	4.0913
#1	.18866	.00314	.00980	1.0017	.00911
#2	.19161	.00304	.01003	.99535	.00860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00892**	**.18148**	**.01839**	**.02240**
Stddev	.00	.00048	.00364	.00036	.00005
%RSD	.0082	5.3418	2.0048	1.9348	.22786
#1	25.00	.00858	.18405	.01865	.02244
#2	25.00	.00926	.17891	.01814	.02237
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46892**	**.00906**	**.00516**	F **.9994**	**.00443**
Stddev	.01075	.00010	.00023	.0091	.00077
%RSD	2.2919	1.0881	4.4808	.9096	17.308
#1	.47652	.00913	.00532	.9929	.00389
#2	.46133	.00899	.00500	1.006	.00498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 15:33:29 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01973**	**.00513**	**.01031**	F **.9985**
Stddev	.00064	.00019	.00008	.0007
%RSD	3.2446	3.7187	.77410	.0724
#1	.01928	.00526	.01025	.9979
#2	.02018	.00499	.01036	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3597.5**	**3114.9**	**27983.**	**3008.4**
Stddev	.5	2.1	76.	8.1
%RSD	.01467	.06611	.26986	.26875
#1	3597.8	3116.4	28037.	3014.1
#2	3597.1	3113.5	27930.	3002.7

Sample Name: MB 480-608410/1-A Acquired: 12/17/2021 15:37:16 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.00017**	**-.00094**	**-.00225**	**-.00002**
Stddev	.00048	.02104	.00038	.00009	.00000
%RSD	65.488	12414.	39.936	3.8809	10.175
#1	-.00039	.01505	-.00068	-.00219	-.00002
#2	-.00108	-.01471	-.00121	-.00231	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00244**	**.00019**	**.0221**	**-.00005**
Stddev	.00000	.00221	.00007	.0259	.00019
%RSD	.33835	90.874	37.643	117.2	399.42
#1	.00006	.00400	.00014	.0404	.00009
#2	.00006	.00087	.00024	.0038	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00024**	**-.00180**	**-.03694**	**.00095**
Stddev	.00017	.00034	.00082	.04146	.00052
%RSD	138.28	141.29	45.293	112.25	54.918
#1	.00024	.00000	-.00122	-.00762	.00058
#2	.00000	.00049	-.00238	-.06626	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608410/1-A Acquired: 12/17/2021 15:37:16 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**.00004**	**-.00071**	**-.00594**	**.00017**
Stddev	.00220	.00005	.00009	.00415	.00010
%RSD	196.41	108.72	12.945	69.746	58.593
#1	-.00044	.00008	-.00065	-.00301	.00024
#2	.00268	.00001	-.00078	-.00888	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00043**	**-.00575**	**-.00117**	**-.00005**
Stddev	.00	.00073	.00179	.00033	.00160
%RSD	.0009	170.92	31.167	27.814	2911.7
#1	25.01	.00009	-.00448	-.00140	-.00118
#2	25.01	-.00095	-.00702	-.00094	.00107
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00562**	**.00034**	**.00012**	**1.003**	**-.00036**
Stddev	.00055	.00030	.00018	.009	.00013
%RSD	9.7369	86.034	149.44	.8495	36.990
#1	-.00600	.00055	.00024	.9971	-.00045
#2	-.00523	.00013	-.00001	1.009	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608410/1-A Acquired: 12/17/2021 15:37:16 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00008**	**.00051**	**.9984**
Stddev	.00000	.00009	.00024	.0004
%RSD	.77266	107.78	46.006	.0355
#1	-.00056	.00015	.00034	.9982
#2	-.00056	.00002	.00068	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3638.7**	**3139.8**	**28307.**	**3070.2**
Stddev	.4	1.8	139.	4.6
%RSD	.01055	.05726	.49174	.14934
#1	3638.4	3141.1	28405.	3073.4
#2	3638.9	3138.5	28208.	3066.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.01%	99.795%	100.84%	101.20%
Range				

Sample Name: LCS 480-608410/2-A Acquired: 12/17/2021 15:41:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05034**	**10.141**	**.20764**	**.20427**	**.20599**
Stddev	.00031	.077	.00252	.00034	.00020
%RSD	.60972	.76415	1.2148	.16879	.09830
#1	.05056	10.196	.20942	.20403	.20613
#2	.05012	10.086	.20586	.20451	.20584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21323**	**9.8940**	**.20027**	**-.0095**	**.18660**
Stddev	.00112	.0046	.00007	.0201	.00009
%RSD	.52661	.04672	.03516	210.8	.04811
#1	.21403	9.8972	.20022	.0047	.18654
#2	.21244	9.8907	.20032	-.0237	.18666
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19953**	**.19849**	**10.003**	**9.8133**	**.20089**
Stddev	.00148	.00077	.045	.0521	.00171
%RSD	.74295	.38679	.45037	.53094	.85220
#1	.20058	.19795	10.035	9.8502	.20210
#2	.19849	.19903	9.9714	9.7765	.19968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608410/2-A Acquired: 12/17/2021 15:41:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.032**	**.20368**	**.20613**	**9.8548**	**.18904**
Stddev	.002	.00050	.00060	.0417	.00023
%RSD	.01874	.24358	.29027	.42269	.11944
#1	10.031	.20403	.20571	9.8842	.18920
#2	10.034	.20333	.20655	9.8253	.18888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.19213**	**9.6979**	**.21377**	**.19327**
Stddev	.00	.00162	.0083	.00043	.00170
%RSD	.0035	.84490	.08569	.20218	.87919
#1	24.84	.19098	9.6920	.21346	.19447
#2	24.84	.19327	9.7037	.21407	.19207
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5948**	**.18564**	**.20300**	**1.006**	**.20095**
Stddev	.1098	.00075	.00035	.002	.00100
%RSD	1.1446	.40211	.17185	.2345	.49752
#1	9.6724	.18511	.20324	1.007	.20024
#2	9.5171	.18617	.20275	1.004	.20165
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608410/2-A Acquired: 12/17/2021 15:41:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19884**	**.19666**	**.20221**	**1.004**
Stddev	.00113	.00120	.00034	.001
%RSD	.56603	.61098	.16913	.1348
#1	.19804	.19751	.20245	1.005
#2	.19963	.19581	.20197	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3433.7**	**3095.6**	**27699.**	**3064.4**
Stddev	3.8	6.2	129.	13.9
%RSD	.11018	.20157	.46422	.45325
#1	3436.4	3100.0	27608.	3054.6
#2	3431.1	3091.2	27790.	3074.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.268%	98.390%	98.670%	101.01%
Range				

Sample Name: 480-193293-B-1-A Acquired: 12/17/2021 15:44:37 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.01829**	**.00081**	**.76903**	**.07103**
Stddev	.00016	.01456	.00008	.00050	.00016
%RSD	2533.1	79.579	10.048	.06467	.22908
#1	.00011	.02859	.00086	.76938	.07091
#2	-.00012	.00800	.00075	.76868	.07114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**20.900**	**.00021**	**-.0078**	**-.00018**
Stddev	.00001	.019	.00015	.0100	.00015
%RSD	76.266	.09147	70.163	129.2	81.742
#1	.00000	20.913	.00031	-.0007	-.00029
#2	.00001	20.886	.00011	-.0148	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00128**	**.20788**	**1.2534**	**.01094**
Stddev	.00014	.00139	.00018	.0799	.00172
%RSD	243.66	108.65	.08632	6.3773	15.730
#1	.00015	.00226	.20800	1.1969	.00972
#2	-.00004	.00030	.20775	1.3100	.01216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-1-A Acquired: 12/17/2021 15:44:37 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1941**	**.03066**	**.13708**	**153.67**	**-.00018**
Stddev	.0071	.00004	.00050	.18	.00047
%RSD	.08644	.13766	.36503	.11786	265.39
#1	8.1891	.03063	.13743	153.54	.00015
#2	8.1991	.03069	.13673	153.80	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00030**	**.18020**	**-.00067**	**-.00214**
Stddev	.00	.00103	.00043	.00183	.00301
%RSD	.0029	342.75	.23897	271.71	140.71
#1	25.02	-.00043	.17989	.00062	-.00427
#2	25.02	.00102	.18050	-.00196	-.00001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1583**	**.00065**	**.79025**	**.9998**	**-.00042**
Stddev	.0010	.00020	.00074	.0042	.00024
%RSD	.01973	31.094	.09302	.4246	57.890
#1	5.1576	.00051	.78973	.9968	-.00025
#2	5.1591	.00079	.79077	1.003	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-1-A Acquired: 12/17/2021 15:44:37 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00122**	**-.00024**	**.00089**	**.9987**
Stddev	.00091	.00000	.00019	.0013
%RSD	74.349	.77022	21.644	.1310
#1	.00187	-.00024	.00103	.9977
#2	.00058	-.00024	.00075	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3184.3**	**2992.9**	**26543.**	**3031.2**
Stddev	10.3	4.6	1.	1.7
%RSD	.32330	.15445	.00388	.05595
#1	3177.0	2989.7	26542.	3032.4
#2	3191.5	2996.2	26544.	3030.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.275%	95.127%	94.552%	99.920%
Range				

Sample Name: 480-193293-B-1-ASD@5 Acquired: 12/17/2021 15:48:21 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.02014**	**.00008**	**.14951**	**.01447**
Stddev	.00099	.02696	.00083	.00074	.00003
%RSD	348.46	133.87	1028.9	.49213	.24028
#1	-.00099	-.00108	.00067	.14899	.01444
#2	.00042	-.03921	-.00051	.15003	.01449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**4.1992**	**.00017**	**-.0214**	**.00002**
Stddev	.00000	.0039	.00010	.0310	.00017
%RSD	3.9455	.09366	61.882	144.8	710.66
#1	.00011	4.2020	.00010	.0005	.00015
#2	.00012	4.1964	.00024	-.0434	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**-.00002**	**.04185**	**.26118**	**.00293**
Stddev	.00005	.00048	.00360	.10922	.00335
%RSD	11.775	2259.4	8.6059	41.817	114.33
#1	-.00039	.00032	.03930	.33842	.00056
#2	-.00046	-.00036	.04439	.18395	.00530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-1-ASD@5 Acquired: 12/17/2021 15:48:21 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6615**	**.00628**	**.02695**	**30.069**	**-.00025**
Stddev	.0055	.00001	.00011	.036	.00029
%RSD	.33222	.13478	.39102	.11969	118.23
#1	1.6654	.00629	.02702	30.044	-.00004
#2	1.6576	.00628	.02687	30.094	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00061**	**.02673**	**-.00126**	**-.00123**
Stddev	.00	.00052	.00126	.00222	.00120
%RSD	.0024	84.711	4.6971	176.23	97.615
#1	25.01	-.00025	.02762	.00031	-.00207
#2	25.01	-.00098	.02584	-.00284	-.00038
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0256**	**.00060**	**.15883**	**.9993**	**-.00050**
Stddev	.0095	.00003	.00071	.0009	.00033
%RSD	.93116	4.5662	.44931	.0945	66.107
#1	1.0188	.00062	.15833	.9986	-.00074
#2	1.0324	.00058	.15934	.9999	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-1-ASD@5 Acquired: 12/17/2021 15:48:21 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	.00001	.00011	-.00011	.9986
Stddev	.00127	.00012	.00019	.0005
%RSD	13422.	116.86	164.88	.0506
#1	.00090	.00002	.00002	.9989
#2	-.00089	.00019	-.00025	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3434.3	3097.8	27650.	3080.9
Stddev	1.4	5.6	25.	2.9
%RSD	.03939	.18228	.08925	.09386
#1	3435.3	3101.8	27668.	3082.9
#2	3433.4	3093.8	27633.	3078.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.286%	98.460%	98.497%	101.56%
Range				

Sample Name: 480-193293-B-1-APDS Acquired: 12/17/2021 15:52:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04995**	**10.351**	**.22656**	**.95707**	**.27073**
Stddev	.00032	.099	.00100	.00303	.00041
%RSD	.63584	.95208	.44277	.31640	.15291
#1	.05017	10.281	.22585	.95493	.27044
#2	.04972	10.420	.22727	.95921	.27102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22569**	**30.751**	**.20964**	**-.0292**	**.20090**
Stddev	.00095	.121	.00009	.0158	.00067
%RSD	.42284	.39238	.04489	54.19	.33578
#1	.22502	30.666	.20957	-.0180	.20138
#2	.22637	30.836	.20971	-.0403	.20043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20968**	**.20671**	**10.573**	**11.367**	**.21356**
Stddev	.00049	.00092	.010	.002	.00090
%RSD	.23265	.44607	.09848	.01936	.42042
#1	.20933	.20605	10.566	11.369	.21420
#2	.21002	.20736	10.581	11.366	.21293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-1-APDS Acquired: 12/17/2021 15:52:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.372**	**.24035**	**.34855**	**162.50**	**.20552**
Stddev	.033	.00002	.00024	.39	.00031
%RSD	.18026	.00690	.06977	.23980	.15293
#1	18.348	.24036	.34872	162.23	.20530
#2	18.395	.24034	.34838	162.78	.20574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.20726**	**10.342**	**.22387**	**.21160**
Stddev	.00	.00046	.002	.00126	.00196
%RSD	.0002	.22232	.01732	.56389	.92520
#1	24.84	.20694	10.344	.22476	.21022
#2	24.84	.20759	10.341	.22298	.21299
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.822**	**.19631**	**.98222**	**1.005**	**.21204**
Stddev	.066	.00081	.00176	.006	.00055
%RSD	.44704	.41429	.17964	.6219	.25796
#1	14.775	.19573	.98098	1.000	.21165
#2	14.869	.19688	.98347	1.009	.21243
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-1-APDS Acquired: 12/17/2021 15:52:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20801**	**.21069**	**.21617**	**1.003**
Stddev	.00036	.00074	.00020	.000
%RSD	.17187	.34903	.09218	.0366
#1	.20826	.21121	.21631	1.003
#2	.20775	.21017	.21603	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3156.7**	**3004.6**	**26555.**	**3025.9**
Stddev	.1	1.7	4.	11.5
%RSD	.00443	.05737	.01456	.38013
#1	3156.6	3005.8	26552.	3034.0
#2	3156.8	3003.3	26558.	3017.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.501%	95.497%	94.596%	99.743%
Range				

Sample Name: 480-193293-B-1-B MS Acquired: 12/17/2021 15:55:39 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05023**	**10.161**	**.21596**	**.97356**	**.26961**
Stddev	.00091	.076	.00138	.00140	.00123
%RSD	1.8208	.75083	.64071	.14397	.45573
#1	.04958	10.107	.21498	.97455	.26874
#2	.05087	10.215	.21694	.97257	.27048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21670**	**30.864**	**.20032**	**-.0350**	**.19247**
Stddev	.00038	.083	.00036	.0413	.00023
%RSD	.17331	.26786	.17823	118.2	.11822
#1	.21644	30.805	.20058	-.0642	.19231
#2	.21697	30.922	.20007	-.0057	.19263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20045**	**.19816**	**10.050**	**11.283**	**.21146**
Stddev	.00038	.00010	.006	.011	.00245
%RSD	.18874	.05044	.05870	.09684	1.1583
#1	.20072	.19823	10.046	11.275	.20973
#2	.20019	.19809	10.055	11.290	.21320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-1-B MS Acquired: 12/17/2021 15:55:39 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.153**	**.23209**	**.34399**	**166.40**	**.19613**
Stddev	.082	.00112	.00031	.22	.00101
%RSD	.44916	.48296	.08973	.12944	.51612
#1	18.095	.23129	.34421	166.25	.19685
#2	18.211	.23288	.34377	166.55	.19542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.19530**	**10.175**	**.21154**	**.20186**
Stddev	.00	.00093	.020	.00140	.00206
%RSD	.0002	.47386	.19342	.65950	1.0226
#1	24.84	.19465	10.189	.21252	.20332
#2	24.84	.19596	10.161	.21055	.20040
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.965**	**.19388**	**1.0047**	**.9966**	**.20246**
Stddev	.040	.00109	.0009	.0098	.00100
%RSD	.26828	.56202	.09271	.9883	.49369
#1	14.937	.19465	1.0041	1.004	.20176
#2	14.994	.19311	1.0054	.9896	.20317
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-1-B MS Acquired: 12/17/2021 15:55:39 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19743**	**.19921**	**.20705**	**.9984**
Stddev	.00086	.00060	.00046	.0007
%RSD	.43366	.30197	.22273	.0683
#1	.19804	.19878	.20738	.9979
#2	.19683	.19964	.20672	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3143.6**	**2992.6**	**26391.**	**3002.0**
Stddev	1.0	4.0	85.	6.1
%RSD	.03179	.13501	.32152	.20252
#1	3144.3	2995.4	26451.	3006.3
#2	3142.9	2989.7	26331.	2997.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.135%	95.116%	94.011%	98.957%
Range				

Sample Name: 480-193293-B-1-C MSD Acquired: 12/17/2021 15:59:13 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05041**	**10.292**	**.21876**	**.98840**	**.27509**
Stddev	.00028	.014	.00102	.00010	.00007
%RSD	.56387	.13867	.46412	.00976	.02653
#1	.05061	10.302	.21948	.98847	.27504
#2	.05021	10.282	.21804	.98834	.27514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21943**	**31.287**	**.20425**	**.0320**	**.19625**
Stddev	.00022	.027	.00061	.0125	.00002
%RSD	.10110	.08547	.29895	39.25	.00774
#1	.21959	31.268	.20468	.0231	.19624
#2	.21928	31.306	.20381	.0408	.19626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20363**	**.20180**	**10.242**	**11.463**	**.21412**
Stddev	.00002	.00003	.004	.004	.00156
%RSD	.01161	.01404	.03929	.03190	.72979
#1	.20365	.20182	10.239	11.460	.21301
#2	.20361	.20178	10.245	11.465	.21522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-1-C MSD Acquired: 12/17/2021 15:59:13 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.421**	**.23639**	**.35079**	**168.70**	**.20030**
Stddev	.009	.00006	.00025	.28	.00018
%RSD	.05090	.02455	.07058	.16420	.08916
#1	18.414	.23643	.35097	168.50	.20042
#2	18.428	.23635	.35062	168.89	.20017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.20014**	**10.317**	**.21627**	**.20313**
Stddev	.00	.00126	.003	.00105	.00381
%RSD	.0025	.63126	.03025	.48381	1.8739
#1	24.84	.20104	10.319	.21701	.20044
#2	24.84	.19925	10.315	.21553	.20582
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.180**	**.19553**	**1.0239**	**.9989**	**.20715**
Stddev	.032	.00090	.0000	.0001	.00071
%RSD	.20878	.46225	.00172	.0118	.34193
#1	15.158	.19489	1.0239	.9989	.20665
#2	15.202	.19617	1.0240	.9990	.20765
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-1-C MSD Acquired: 12/17/2021 15:59:13 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20109**	**.20362**	**.20905**	**.9995**
Stddev	.00076	.00023	.00137	.0006
%RSD	.37591	.11052	.65623	.0595
#1	.20162	.20377	.20808	.9999
#2	.20055	.20346	.21002	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3141.7**	**3000.6**	**26492.**	**3019.4**
Stddev	2.1	6.6	13.	20.1
%RSD	.06804	.22091	.05037	.66682
#1	3140.2	2995.9	26482.	3005.1
#2	3143.2	3005.3	26501.	3033.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.082%	95.370%	94.369%	99.529%
Range				

Sample Name: 480-193293-B-2-A Acquired: 12/17/2021 16:02:48 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.16002**	**.00387**	**1.1638**	**.07582**
Stddev	.00039	.02975	.00159	.0002	.00020
%RSD	96.502	18.591	41.111	.01738	.26656
#1	-.00068	.13898	.00499	1.1640	.07568
#2	-.00013	.18105	.00274	1.1637	.07596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**20.303**	**.00001**	**-.0549**	**-.00001**
Stddev	.00005	.082	.00004	.0143	.00021
%RSD	712.72	.40448	645.54	26.01	1989.2
#1	.00004	20.244	-.00002	-.0448	-.00016
#2	-.00003	20.361	.00003	-.0651	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00176**	**.59738**	**1.6023**	**.01147**
Stddev	.00077	.00058	.00013	.0755	.00013
%RSD	133.42	32.900	.02104	4.7147	1.1314
#1	.00112	.00135	.59729	1.5489	.01138
#2	.00003	.00217	.59747	1.6557	.01156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-2-A Acquired: 12/17/2021 16:02:48 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8329**	**.03780**	**.02816**	**178.21**	**.00007**
Stddev	.0426	.00013	.00001	.73	.00009
%RSD	.48209	.35408	.04624	.41074	122.85
#1	8.8028	.03770	.02817	177.70	.00013
#2	8.8630	.03789	.02815	178.73	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00094**	**1.0752**	**-.00109**	**-.00301**
Stddev	.00	.00081	.0033	.00081	.00079
%RSD	.0027	86.251	.30418	74.446	26.203
#1	25.06	.00037	1.0775	-.00167	-.00245
#2	25.06	.00152	1.0729	-.00052	-.00356
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0014**	**.00053**	**.56797**	**1.007**	**.00343**
Stddev	.0388	.00025	.00215	.005	.00018
%RSD	.64679	47.056	.37845	.4951	5.2969
#1	5.9739	.00071	.56645	1.004	.00356
#2	6.0288	.00035	.56949	1.011	.00330
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-2-A Acquired: 12/17/2021 16:02:48 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00007**	**.00309**	**.9984**
Stddev	.00006	.00001	.00003	.0004
%RSD	47.366	20.494	.92411	.0359
#1	.00008	.00006	.00307	.9982
#2	.00017	.00008	.00311	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3170.6**	**2998.4**	**26475.**	**3027.5**
Stddev	1.0	.6	78.	23.1
%RSD	.03287	.01954	.29613	.76160
#1	3169.9	2998.8	26530.	3043.8
#2	3171.3	2998.0	26419.	3011.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.891%	95.302%	94.310%	99.798%
Range				

Sample Name: 480-193293-B-3-A Acquired: 12/17/2021 16:06:33 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**-.00638**	**-.00044**	**2.3299**	**.16400**
Stddev	.00006	.00943	.00103	.0019	.00024
%RSD	8.2380	147.69	235.62	.08348	.14624
#1	-.00082	-.01305	.00029	2.3312	.16417
#2	-.00073	.00028	-.00117	2.3285	.16383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**30.475**	**.00016**	**-.0458**	**-.00030**
Stddev	.00001	.014	.00006	.0028	.00004
%RSD	90.773	.04448	38.321	6.163	13.419
#1	.00002	30.485	.00020	-.0438	-.00027
#2	.00001	30.466	.00012	-.0477	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00147**	**.36220**	**3.2357**	**.05328**
Stddev	.00005	.00078	.00433	.0245	.00165
%RSD	65.295	53.137	1.1951	.75551	3.0978
#1	-.00004	.00203	.35914	3.2184	.05445
#2	-.00010	.00092	.36527	3.2529	.05211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-3-A Acquired: 12/17/2021 16:06:33 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.264**	**.03208**	**.00794**	**295.38**	**-.00011**
Stddev	.043	.00014	.00015	.26	.00017
%RSD	.28329	.43191	1.8296	.08767	144.54
#1	15.295	.03217	.00804	295.56	.00000
#2	15.234	.03198	.00783	295.19	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00103**	**.20116**	**-.00178**	**-.00262**
Stddev	.00	.00071	.00686	.00023	.00286
%RSD	.0017	69.125	3.4126	12.842	109.43
#1	25.02	.00053	.20601	-.00194	-.00059
#2	25.02	.00153	.19630	-.00162	-.00464
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0565**	**.00069**	**1.2133**	**.9979**	**-.00019**
Stddev	.0499	.00012	.0017	.0011	.00003
%RSD	.82405	17.164	.13613	.1078	15.567
#1	6.0918	.00061	1.2121	.9971	-.00021
#2	6.0212	.00078	1.2144	.9987	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-3-A Acquired: 12/17/2021 16:06:33 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00034**	**.00111**	**.9989**
Stddev	.00012	.00042	.00016	.0001
%RSD	46.194	124.69	14.387	.0103
#1	.00033	.00004	.00100	.9988
#2	.00017	.00064	.00122	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3073.3**	**2961.4**	**26028.**	**3023.4**
Stddev	3.3	6.1	82.	9.7
%RSD	.10606	.20728	.31484	.32159
#1	3071.0	2957.1	25970.	3030.2
#2	3075.6	2965.7	26086.	3016.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.162%	94.125%	92.718%	99.661%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 16:10:25 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99400**	**50.486**	**1.0122**	**1.0386**	**.99504**
Stddev	.00003	.072	.0015	.0006	.00180
%RSD	.00290	.14218	.14702	.05592	.18127
#1	.99402	50.435	1.0133	1.0390	.99376
#2	.99398	50.537	1.0112	1.0382	.99631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0171**	**49.911**	**.99518**	**1.043**	**.96778**
Stddev	.0026	.062	.00221	.004	.00153
%RSD	.25303	.12336	.22217	.4070	.15823
#1	1.0153	49.868	.99674	1.046	.96886
#2	1.0190	49.955	.99361	1.040	.96670
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0095**	**.99325**	**49.942**	**49.426**	**1.0060**
Stddev	.0012	.00131	.044	.241	.0044
%RSD	.12150	.13235	.08769	.48845	.43371
#1	1.0087	.99418	49.911	49.255	1.0029
#2	1.0104	.99232	49.973	49.597	1.0091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 16:10:25 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.150**	**.99951**	**1.0138**	**50.047**	**.98720**
Stddev	.113	.00191	.0017	.151	.00032
%RSD	.22999	.19095	.16897	.30213	.03193
#1	49.230	1.0009	1.0150	49.941	.98742
#2	49.070	.99816	1.0126	50.154	.98698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.51**	**.97331**	**24.897**	**.99606**	**1.0013**
Stddev	.03	.00018	.066	.00025	.0007
%RSD	.0685	.01816	.26654	.02483	.07131
#1	37.53	.97344	24.944	.99623	1.0018
#2	37.50	.97319	24.850	.99588	1.0008
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.066**	**.97268**	**1.0058**	**1.503**	**.99927**
Stddev	.073	.00212	.0035	.013	.00064
%RSD	.72994	.21750	.34990	.8602	.06434
#1	10.014	.97417	1.0033	1.512	.99881
#2	10.118	.97118	1.0083	1.493	.99972
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 16:10:25 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	.99665	1.0048	1.0217	1.512
Stddev	.00243	.0026	.0043	.001
%RSD	.24368	.25651	.42059	.0513
#1	.99836	1.0066	1.0187	1.513
#2	.99493	1.0030	1.0248	1.512
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3108.5	3022.2	26394.	3012.4
Stddev	3.0	4.0	.	9.7
%RSD	.09525	.13196	.00062	.32227
#1	3106.4	3019.3	26394.	3019.2
#2	3110.6	3025.0	26393.	3005.5

Sample Name: CCB-6819143 Acquired: 12/17/2021 16:13:58 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00674**	**.00222**	**.00051**	**.00004**
Stddev	.00021	.01583	.00056	.00007	.00003
%RSD	138.04	234.80	25.340	13.507	65.609
#1	.00000	.00445	.00182	.00056	.00006
#2	.00030	-.01793	.00262	.00046	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00192**	**-.00005**	**.0327**	**-.00001**
Stddev	.00011	.00203	.00008	.0736	.00012
%RSD	185.03	106.06	144.45	224.8	1151.5
#1	-.00014	-.00336	.00000	.0848	.00007
#2	.00002	-.00048	-.00011	-.0193	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.00015**	**-.00030**	**-.04285**	**.00073**
Stddev	.00047	.00092	.00059	.03705	.00032
%RSD	280.49	594.74	195.69	86.480	44.211
#1	-.00016	.00049	-.00072	-.01665	.00096
#2	.00050	-.00080	.00012	-.06905	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 16:13:58 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00415**	**.00004**	**.00105**	**.02596**	**-.00010**
Stddev	.00229	.00012	.00040	.00270	.00002
%RSD	55.098	306.08	37.559	10.398	18.403
#1	-.00576	-.00004	.00077	.02405	-.00011
#2	-.00253	.00012	.00133	.02786	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00102**	**-.00642**	**-.00107**	**.00286**
Stddev	.00	.00151	.00147	.00224	.00458
%RSD	.0014	147.44	22.925	209.75	160.32
#1	25.01	-.00209	-.00538	.00052	.00609
#2	25.01	.00004	-.00746	-.00265	-.00038
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**.00033**	**.00018**	**.9914**	**-.00010**
Stddev	.01321	.00017	.00004	.0004	.00017
%RSD	295.15	51.812	20.546	.0453	166.38
#1	-.00487	.00021	.00015	.9917	.00002
#2	.01382	.00045	.00021	.9911	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 16:13:58 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00002**	**-.00014**	**.9976**
Stddev	.00089	.00039	.00030	.0001
%RSD	891.91	2308.4	222.58	.0076
#1	-.00073	-.00026	-.00035	.9976
#2	.00053	.00029	.00008	.9977
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3598.0**	**3104.9**	**27845.**	**3015.3**
Stddev	1.7	2.3	28.	12.4
%RSD	.04715	.07315	.10160	.41054
#1	3596.8	3106.5	27825.	3024.1
#2	3599.2	3103.2	27865.	3006.6

Sample Name: CCVL-6819272 Acquired: 12/17/2021 16:17:48 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00574**	**.18465**	**.01150**	**.01891**	**.00207**
Stddev	.00029	.02446	.00133	.00013	.00001
%RSD	5.0854	13.248	11.550	.67607	.49637
#1	.00594	.20194	.01056	.01882	.00207
#2	.00553	.16735	.01244	.01900	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.49872**	**.00197**	**-.0489**	**.00372**
Stddev	.00009	.00132	.00002	.0330	.00010
%RSD	4.2886	.26545	.85089	67.51	2.6522
#1	.00212	.49778	.00198	-.0256	.00365
#2	.00200	.49965	.00196	-.0723	.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00432**	**.01062**	**.05066**	**.38505**	**.02888**
Stddev	.00044	.00052	.00223	.01510	.00086
%RSD	10.106	4.9153	4.3993	3.9228	2.9910
#1	.00463	.01025	.04909	.39573	.02950
#2	.00401	.01099	.05224	.37437	.02827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 16:17:48 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19195**	**.00303**	**.00992**	**.99937**	**.00899**
Stddev	.00066	.00004	.00005	.00775	.00005
%RSD	.34361	1.2599	.49261	.77526	.52333
#1	.19148	.00306	.00988	.99389	.00903
#2	.19242	.00300	.00995	1.0048	.00896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00831**	**.17582**	**.02002**	**.02203**
Stddev	.00	.00045	.00194	.00062	.00075
%RSD	.0052	5.4612	1.1032	3.1060	3.4007
#1	25.00	.00798	.17445	.02046	.02150
#2	25.00	.00863	.17719	.01958	.02255
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47883**	**.00917**	**.00503**	F **1.003**	**.00432**
Stddev	.01155	.00005	.00012	.006	.00002
%RSD	2.4122	.54425	2.3685	.6181	.54448
#1	.48700	.00920	.00495	.9990	.00430
#2	.47066	.00913	.00512	1.008	.00434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 16:17:48 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01947**	**.00515**	**.01010**	F **.9983**
Stddev	.00169	.00043	.00019	.0007
%RSD	8.6711	8.3902	1.8406	.0711
#1	.01828	.00546	.01023	.9988
#2	.02066	.00485	.00997	.9978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3583.8**	**3112.2**	**28067.**	**3040.9**
Stddev	1.6	1.0	132.	19.2
%RSD	.04420	.03364	.47108	.63022
#1	3582.7	3113.0	27974.	3054.4
#2	3584.9	3111.5	28161.	3027.3

Sample Name: 480-193293-B-4-A Acquired: 12/17/2021 16:21:35 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00734**	**-.00157**	**1.7310**	**.06183**
Stddev	.00081	.04365	.00165	.0026	.00023
%RSD	547.13	594.82	104.87	.14909	.36965
#1	.00043	-.02353	-.00274	1.7292	.06199
#2	-.00072	.03821	-.00041	1.7328	.06166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**68.857**	**.00032**	**-.0119**	**-.00027**
Stddev	.00000	.272	.00012	.0082	.00010
%RSD	10.913	.39494	39.553	69.23	35.630
#1	-.00003	69.049	.00023	-.0177	-.00020
#2	-.00003	68.664	.00040	-.0061	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00148**	**.05320**	**2.4117**	**.02345**
Stddev	.00008	.00107	.00407	.0346	.00298
%RSD	76.923	72.053	7.6439	1.4345	12.691
#1	.00016	.00073	.05608	2.4362	.02555
#2	.00005	.00224	.05033	2.3872	.02135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-4-A Acquired: 12/17/2021 16:21:35 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.970**	**.04213**	**.00030**	**190.93**	**.00021**
Stddev	.184	.00029	.00007	1.01	.00009
%RSD	.52612	.68803	23.694	.52739	44.468
#1	35.100	.04234	.00025	191.64	.00014
#2	34.840	.04193	.00035	190.22	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00085**	**87.335**	**-.00215**	**-.00267**
Stddev	.00	.00043	.033	.00187	.00162
%RSD	.0038	50.509	.03824	86.989	60.647
#1	25.05	.00115	87.311	-.00083	-.00381
#2	25.05	.00054	87.358	-.00347	-.00152
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4867**	**.00021**	**1.7158**	**.9962**	**.00031**
Stddev	.0152	.00003	.0099	.0037	.00068
%RSD	.23365	12.888	.57696	.3713	218.29
#1	6.4974	.00019	1.7228	.9989	.00080
#2	6.4760	.00023	1.7088	.9936	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-4-A Acquired: 12/17/2021 16:21:35 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00052**	**-.00004**	**.00444**	**.9985**
Stddev	.00037	.00035	.00020	.0007
%RSD	71.684	808.53	4.5143	.0748
#1	-.00026	.00020	.00430	.9990
#2	-.00078	-.00029	.00459	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3115.8**	**2950.8**	**26328.**	**3020.6**
Stddev	.2	.8	1.	18.1
%RSD	.00524	.02806	.00493	.59951
#1	3115.7	2950.3	26328.	3007.8
#2	3115.9	2951.4	26327.	3033.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.355%	93.790%	93.785%	99.569%
Range				

Sample Name: 480-193293-B-5-A Acquired: 12/17/2021 16:25:17 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.04489**	**.00044**	**.04685**	**.04760**
Stddev	.00054	.00415	.00035	.00027	.00011
%RSD	250.15	9.2350	80.954	.57411	.23513
#1	.00060	.04196	.00069	.04704	.04753
#2	-.00017	.04782	.00019	.04666	.04768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**159.67**	**.00042**	**-.0104**	**.00012**
Stddev	.00005	.31	.00011	.0258	.00015
%RSD	32.605	.19315	26.922	249.3	122.40
#1	-.00011	159.45	.00050	-.0286	.00023
#2	-.00017	159.88	.00034	.0079	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.01007**	**.00463**	**13.206**	**.01285**
Stddev	.00034	.00043	.00038	.021	.00263
%RSD	45.906	4.3063	8.1441	.15855	20.488
#1	.00051	.00976	.00490	13.191	.01098
#2	.00099	.01038	.00436	13.221	.01471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-5-A Acquired: 12/17/2021 16:25:17 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.488**	**.00327**	**.00769**	**8.6614**	**.00272**
Stddev	.069	.00008	.00008	.0205	.00003
%RSD	.20059	2.5010	.99498	.23659	1.1371
#1	34.439	.00333	.00764	8.6469	.00274
#2	34.537	.00321	.00775	8.6759	.00269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00102**	**74.302**	**.00002**	**.00082**
Stddev	.00	.00104	.025	.00291	.00070
%RSD	.0010	101.85	.03382	15854.	85.307
#1	25.00	.00175	74.320	-.00204	.00033
#2	25.00	.00028	74.284	.00208	.00132
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9357**	**.00028**	**1.4783**	**1.002**	**.00113**
Stddev	.0208	.00084	.0032	.004	.00074
%RSD	.35046	296.09	.21419	.4078	65.826
#1	5.9210	.00088	1.4761	1.005	.00060
#2	5.9504	-.00031	1.4806	.9988	.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-5-A Acquired: 12/17/2021 16:25:17 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.00043**	**.19179**	**.9983**
Stddev	.00193	.00022	.00193	.0010
%RSD	624.93	49.500	1.0083	.1014
#1	-.00105	-.00028	.19043	.9990
#2	.00167	-.00059	.19316	.9976
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3210.1**	**2975.2**	**26715.**	**3035.7**
Stddev	3.3	6.9	71.	14.4
%RSD	.10324	.23038	.26460	.47278
#1	3207.8	2970.4	26765.	3045.8
#2	3212.5	2980.1	26665.	3025.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.999%	94.564%	95.163%	100.07%
Range				

Sample Name: 480-193293-B-6-A Acquired: 12/17/2021 16:29:02 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.01710**	**-.00118**	**.09862**	**.04009**
Stddev	.00076	.00127	.00225	.00011	.00012
%RSD	957.04	7.4000	190.73	.10994	.30131
#1	.00046	-.01800	-.00277	.09869	.04000
#2	-.00062	-.01621	.00041	.09854	.04017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**133.45**	**.00047**	**-.0168**	**.00006**
Stddev	.00001	.54	.00011	.0436	.00005
%RSD	21.527	.40201	22.458	259.2	82.168
#1	.00003	133.08	.00055	-.0477	.00002
#2	.00003	133.83	.00040	.0140	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00050**	**.78844**	**1.2295**	**.02851**
Stddev	.00058	.00006	.00440	.0114	.00084
%RSD	240.49	12.827	.55859	.92878	2.9547
#1	.00065	.00045	.79156	1.2376	.02792
#2	-.00017	.00054	.78533	1.2214	.02911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-6-A Acquired: 12/17/2021 16:29:02 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.726**	**.05226**	**.00777**	**17.364**	**.00066**
Stddev	.041	.00018	.00011	.037	.00000
%RSD	.08246	.34598	1.4201	.21520	.11817
#1	49.755	.05239	.00785	17.338	.00066
#2	49.697	.05213	.00769	17.391	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00062**	**66.643**	**.00048**	**-.00106**
Stddev	.00	.00053	.093	.00180	.00149
%RSD	.0035	86.542	.13987	377.02	141.50
#1	25.01	.00024	66.709	.00175	-.00211
#2	25.01	.00099	66.578	-.00079	.00000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9401**	**.00053**	**1.0052**	**1.006**	**.00113**
Stddev	.0151	.00001	.0006	.005	.00019
%RSD	.25353	1.3473	.06146	.4658	16.793
#1	5.9294	.00054	1.0056	1.002	.00100
#2	5.9507	.00053	1.0047	1.009	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-6-A Acquired: 12/17/2021 16:29:02 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.00025**	**.00071**	**.9985**
Stddev	.00022	.00022	.00033	.0003
%RSD	127.51	89.006	46.540	.0307
#1	.00033	-.00009	.00048	.9987
#2	.00002	-.00040	.00094	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3219.3**	**2985.1**	**26889.**	**3075.9**
Stddev	4.7	4.3	22.	36.0
%RSD	.14478	.14512	.08057	1.1707
#1	3216.0	2982.0	26874.	3101.4
#2	3222.6	2988.1	26904.	3050.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.256%	94.878%	95.785%	101.39%
Range				

Sample Name: 480-193293-B-7-A Acquired: 12/17/2021 16:32:46 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00099**	**-.00472**	**-.00223**	**.59711**	**.04463**
Stddev	.00035	.03459	.00035	.00041	.00002
%RSD	35.527	733.13	15.836	.06876	.05527
#1	-.00074	-.02918	-.00248	.59740	.04465
#2	-.00124	.01974	-.00198	.59682	.04462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**21.298**	**.00013**	**-.0639**	**-.00011**
Stddev	.00007	.016	.00011	.0147	.00009
%RSD	320.60	.07709	83.219	22.93	86.441
#1	.00007	21.286	.00005	-.0536	-.00004
#2	-.00003	21.310	.00021	-.0743	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00042**	**.17994**	**1.9900**	**.00946**
Stddev	.00001	.00107	.00128	.0236	.00349
%RSD	1.9086	255.02	.71261	1.1879	36.831
#1	.00034	.00034	.18084	2.0067	.01193
#2	.00035	-.00117	.17903	1.9733	.00700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-7-A Acquired: 12/17/2021 16:32:46 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1951**	**.01713**	**.01678**	**60.508**	**-.00027**
Stddev	.0246	.00000	.00012	.257	.00007
%RSD	.26714	.01211	.71268	.42440	25.874
#1	9.1777	.01713	.01669	60.690	-.00032
#2	9.2125	.01713	.01686	60.326	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00061**	**.56409**	**-.00158**	**.00126**
Stddev	.00	.00023	.00150	.00079	.00055
%RSD	.0026	36.893	.26656	50.224	43.421
#1	25.03	.00077	.56303	-.00102	.00087
#2	25.02	.00045	.56516	-.00213	.00164
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1645**	**.00040**	**.73749**	**.9980**	**.00050**
Stddev	.0007	.00042	.00066	.0102	.00042
%RSD	.01318	106.25	.08984	1.018	83.961
#1	5.1650	.00010	.73795	.9908	.00079
#2	5.1640	.00069	.73702	1.005	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-7-A Acquired: 12/17/2021 16:32:46 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00024**	**.00029**	**.9986**
Stddev	.00137	.00013	.00057	.0001
%RSD	429.83	52.336	193.92	.0124
#1	-.00065	.00015	-.00011	.9985
#2	.00129	.00033	.00070	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3325.1**	**3047.5**	**27224.**	**3057.1**
Stddev	3.3	3.4	202.	4.5
%RSD	.09962	.11294	.74123	.14566
#1	3322.7	3045.1	27367.	3060.3
#2	3327.4	3049.9	27081.	3054.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.223%	96.862%	96.979%	100.77%
Range				

Sample Name: 480-193293-B-8-A Acquired: 12/17/2021 16:36:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.01786**	**-.00014**	**3.1778**	**.15217**
Stddev	.00039	.01348	.00171	.0019	.00048
%RSD	50.882	75.438	1180.1	.05869	.31566
#1	-.00104	.02739	-.00135	3.1765	.15251
#2	-.00049	.00833	.00106	3.1791	.15183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**54.573**	**.00025**	**-.0416**	**-.00017**
Stddev	.00007	.055	.00003	.0383	.00015
%RSD	164.10	.10063	11.905	92.09	90.024
#1	-.00009	54.612	.00027	-.0145	-.00006
#2	.00001	54.534	.00023	-.0687	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00063**	**.00818**	**4.8874**	**.06318**
Stddev	.00032	.00051	.00106	.0164	.00060
%RSD	304.73	80.303	13.007	.33452	.95111
#1	-.00012	.00099	.00893	4.8759	.06275
#2	.00033	.00027	.00742	4.8990	.06360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-8-A Acquired: 12/17/2021 16:36:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.259**	**.04472**	**-.00043**	**426.05**	**-.00034**
Stddev	.062	.00013	.00008	.65	.00007
%RSD	.21219	.28541	19.381	.15224	21.987
#1	29.303	.04481	-.00037	426.51	-.00039
#2	29.215	.04463	-.00049	425.59	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00059**	**26.437**	**-.00054**	**-.00375**
Stddev	.00	.00186	.004	.00145	.00523
%RSD	.0052	312.64	.01699	266.52	139.64
#1	25.04	.00191	26.434	.00048	-.00745
#2	25.04	-.00072	26.441	-.00157	-.00005
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.5597**	**.00027**	**1.7223**	**.9938**	**.00050**
Stddev	.0075	.00025	.0078	.0047	.00056
%RSD	.11362	93.192	.45216	.4703	112.67
#1	6.5649	.00045	1.7278	.9971	.00010
#2	6.5544	.00009	1.7168	.9905	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-8-A Acquired: 12/17/2021 16:36:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.00013**	**.00048**	**.9981**
Stddev	.00028	.00024	.00031	.0004
%RSD	78.024	182.36	63.389	.0422
#1	.00016	.00004	.00070	.9978
#2	.00055	-.00030	.00027	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2990.3**	**2905.1**	**25475.**	**2988.6**
Stddev	2.6	6.2	127.	2.2
%RSD	.08667	.21432	.49767	.07494
#1	2992.1	2909.5	25386.	2990.2
#2	2988.5	2900.7	25565.	2987.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.836%	92.335%	90.749%	98.516%
Range				

Sample Name: 480-193293-B-9-A Acquired: 12/17/2021 16:40:19 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**-.01787**	**.00246**	**.78016**	**.07209**
Stddev	.00016	.03963	.00071	.00076	.00006
%RSD	23.480	221.81	28.725	.09701	.08204
#1	-.00058	.01016	.00296	.78069	.07205
#2	-.00081	-.04589	.00196	.77962	.07214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**21.049**	**.00032**	**-.0099**	**-.00037**
Stddev	.00008	.035	.00016	.0252	.00022
%RSD	909.14	.16838	48.275	254.5	59.909
#1	.00006	21.074	.00021	-.0277	-.00022
#2	-.00005	21.024	.00043	.0079	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00017**	**.16474**	**1.2388**	**.00977**
Stddev	.00011	.00146	.00369	.0491	.00037
%RSD	75.964	884.49	2.2407	3.9671	3.8003
#1	-.00022	.00120	.16735	1.2736	.00951
#2	-.00007	-.00087	.16213	1.2041	.01003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-9-A Acquired: 12/17/2021 16:40:19 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3222**	**.03090**	**.13875**	**155.97**	**.00004**
Stddev	.0180	.00008	.00011	.53	.00017
%RSD	.21613	.24726	.08218	.34124	424.84
#1	8.3095	.03085	.13883	156.35	-.00008
#2	8.3349	.03096	.13867	155.59	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00027**	**.18883**	**-.00274**	**.00251**
Stddev	.00	.00044	.00214	.00038	.00192
%RSD	.0004	161.22	1.1330	13.832	76.565
#1	25.02	-.00058	.18732	-.00247	.00115
#2	25.02	.00004	.19034	-.00301	.00387
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2210**	**.00102**	**.80339**	**.9998**	**-.00027**
Stddev	.0031	.00032	.00058	.0022	.00019
%RSD	.05949	31.189	.07165	.2214	68.626
#1	5.2232	.00079	.80298	.9982	-.00040
#2	5.2188	.00124	.80379	1.001	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-9-A Acquired: 12/17/2021 16:40:19 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00029**	**-.00005**	**.00028**	**.9982**
Stddev	.00011	.00006	.00027	.0012
%RSD	35.807	132.39	95.097	.1221
#1	.00037	-.00009	.00009	.9973
#2	.00022	-.00000	.00048	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3192.8**	**3004.8**	**26584.**	**3042.6**
Stddev	8.0	8.1	37.	11.6
%RSD	.25198	.27041	.14047	.37996
#1	3187.2	2999.1	26557.	3034.4
#2	3198.5	3010.6	26610.	3050.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.515%	95.505%	94.697%	100.29%
Range				

Sample Name: 480-193293-B-10-A Acquired: 12/17/2021 16:44:02 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.01163**	**.00094**	**.17045**	**.01112**
Stddev	.00020	.00508	.00165	.00025	.00005
%RSD	43.478	43.693	175.81	.14610	.47229
#1	-.00031	.01522	.00211	.17063	.01108
#2	-.00059	.00804	-.00023	.17027	.01116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**253.94**	**.00077**	**-.0271**	**.00027**
Stddev	.00006	.53	.00026	.0620	.00013
%RSD	67.927	.20921	33.586	228.9	49.646
#1	-.00005	253.56	.00058	.0168	.00036
#2	-.00013	254.31	.00095	-.0709	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00043**	**.73304**	**3.2548**	**.07217**
Stddev	.00043	.00119	.00296	.0109	.00079
%RSD	555.18	274.59	.40410	.33351	1.0881
#1	-.00038	.00127	.73094	3.2625	.07273
#2	.00022	-.00041	.73513	3.2472	.07161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-10-A Acquired: 12/17/2021 16:44:02 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**117.08**	**.33451**	**.01088**	**36.983**	**.00181**
Stddev	.05	.00054	.00005	.169	.00007
%RSD	.03944	.16092	.45192	.45824	3.7382
#1	117.05	.33413	.01085	36.863	.00186
#2	117.11	.33489	.01092	37.103	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00182**	F **263.39**	**-.00208**	**-.00107**
Stddev	.00	.00133	.18	.00046	.00191
%RSD	.0007	73.372	.06778	21.983	179.30
#1	25.01	.00276	263.52	-.00175	-.00242
#2	25.01	.00087	263.27	-.00240	.00029
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9131**	**.00027**	**2.4264**	**.9936**	**.00149**
Stddev	.0342	.00006	.0120	.0033	.00060
%RSD	.38320	23.022	.49424	.3284	40.154
#1	8.8889	.00031	2.4179	.9960	.00192
#2	8.9372	.00023	2.4349	.9913	.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-10-A Acquired: 12/17/2021 16:44:02 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00110**	**.00142**	**.9987**
Stddev	.00142	.00052	.00079	.0002
%RSD	14017.	47.907	55.574	.0250
#1	-.00100	-.00147	.00086	.9989
#2	.00102	-.00072	.00198	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3064.4**	**2898.2**	**26068.**	**3011.6**
Stddev	2.0	7.7	2.	9.7
%RSD	.06443	.26422	.00828	.32344
#1	3065.8	2892.8	26066.	3018.4
#2	3063.1	2903.6	26069.	3004.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.915%	92.117%	92.860%	99.272%
Range				

Sample Name: 480-193293-B-11-A Acquired: 12/17/2021 16:47:50 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.01315**	**-.00016**	**.69695**	**.03459**
Stddev	.00039	.00026	.00034	.00061	.00014
%RSD	449.22	1.9764	213.89	.08795	.40467
#1	.00036	-.01296	-.00040	.69738	.03469
#2	-.00019	-.01333	.00008	.69651	.03449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**56.532**	**.00039**	**-.0400**	**-.00008**
Stddev	.00014	.280	.00006	.0268	.00001
%RSD	677.52	.49580	14.568	67.02	9.3009
#1	.00012	56.730	.00035	-.0590	-.00009
#2	-.00008	56.333	.00043	-.0211	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00885**	**.00128**	**.00124**	**1.7503**	**.01601**
Stddev	.00021	.00097	.00102	.0453	.00074
%RSD	2.3778	76.052	82.408	2.5863	4.6205
#1	.00900	.00196	.00052	1.7183	.01549
#2	.00870	.00059	.00196	1.7823	.01654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-11-A Acquired: 12/17/2021 16:47:50 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.265**	**.00403**	**.02629**	**115.94**	**.00711**
Stddev	.076	.00003	.00015	.80	.00028
%RSD	.30111	.86261	.56649	.69405	3.9650
#1	25.319	.00405	.02639	116.51	.00691
#2	25.211	.00400	.02618	115.37	.00731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00019**	**63.388**	**.00010**	**-.00113**
Stddev	.00	.00058	.061	.00076	.00210
%RSD	.0020	315.20	.09681	749.01	185.57
#1	25.02	.00060	63.432	.00064	.00035
#2	25.02	-.00023	63.345	-.00044	-.00262
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8849**	**.00086**	**1.4161**	**.9981**	**.00020**
Stddev	.0246	.00036	.0050	.0121	.00007
%RSD	.41751	42.088	.35023	1.211	32.851
#1	5.9023	.00111	1.4196	1.007	.00016
#2	5.8675	.00060	1.4126	.9895	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-11-A Acquired: 12/17/2021 16:47:50 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00180**	**-.00012**	**.00150**	**.9982**
Stddev	.00060	.00020	.00009	.0011
%RSD	33.403	166.12	5.7670	.1150
#1	.00222	.00002	.00144	.9973
#2	.00137	-.00026	.00156	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3206.0**	**2998.4**	**26863.**	**3036.7**
Stddev	2.1	.1	45.	18.4
%RSD	.06406	.00204	.16756	.60474
#1	3207.5	2998.4	26831.	3023.7
#2	3204.6	2998.3	26895.	3049.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.884%	95.300%	95.693%	100.10%
Range				

Sample Name: 480-193293-B-12-A Acquired: 12/17/2021 16:51:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.01099**	**-.00114**	**3.4445**	**.05743**
Stddev	.00012	.00194	.00018	.0022	.00004
%RSD	16.877	17.675	15.711	.06319	.06131
#1	.00079	.00962	-.00127	3.4429	.05740
#2	.00062	.01237	-.00102	3.4460	.05745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**8.4683**	**.00004**	**.0137**	**-.00033**
Stddev	.00004	.0207	.00021	.0049	.00008
%RSD	172.92	.24492	593.91	35.94	25.164
#1	.00000	8.4830	-.00011	.0102	-.00039
#2	-.00005	8.4536	.00018	.0172	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**-.00007**	**.21946**	**3.4552**	**.04871**
Stddev	.00038	.00073	.00377	.0397	.00318
%RSD	71.627	981.13	1.7177	1.1501	6.5297
#1	-.00026	.00044	.22212	3.4271	.04646
#2	-.00079	-.00059	.21679	3.4833	.05096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-12-A Acquired: 12/17/2021 16:51:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5502**	**.00826**	**.11695**	**307.45**	**-.00021**
Stddev	.0210	.00007	.00006	.09	.00013
%RSD	.59248	.84969	.05304	.02895	61.856
#1	3.5650	.00821	.11691	307.39	-.00030
#2	3.5353	.00831	.11700	307.51	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**-.00067**	**.04722**	**-.00146**	**-.00016**
Stddev	.00	.00101	.00041	.00178	.00181
%RSD	.0046	150.26	.86183	121.50	1141.0
#1	25.04	.00004	.04693	-.00021	.00112
#2	25.04	-.00138	.04751	-.00272	-.00144
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7597**	**.00034**	**.25327**	**.9969**	**-.00031**
Stddev	.0207	.00027	.00042	.0031	.00010
%RSD	.43576	80.351	.16512	.3077	32.062
#1	4.7744	.00015	.25356	.9990	-.00024
#2	4.7450	.00053	.25297	.9947	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-12-A Acquired: 12/17/2021 16:51:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00018**	**.00012**	**.9983**
Stddev	.00041	.00020	.00060	.0001
%RSD	42.837	110.51	510.12	.0062
#1	.00067	.00033	-.00031	.9982
#2	.00125	.00004	.00054	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3093.3**	**2963.9**	**25932.**	**2996.5**
Stddev	2.4	3.9	33.	.8
%RSD	.07868	.13058	.12619	.02792
#1	3095.1	2966.7	25955.	2995.9
#2	3091.6	2961.2	25909.	2997.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.725%	94.205%	92.377%	98.777%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 16:55:28 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99082**	**50.346**	**1.0100**	**1.0391**	**.99987**
Stddev	.00427	.274	.0015	.0017	.00360
%RSD	.43066	.54383	.14530	.16221	.35980
#1	.98781	50.540	1.0111	1.0379	1.0024
#2	.99384	50.153	1.0090	1.0403	.99733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0195**	**49.731**	**.99093**	**1.062**	**.95899**
Stddev	.0056	.327	.00202	.027	.00034
%RSD	.54735	.65677	.20348	2.503	.03546
#1	1.0235	49.962	.98950	1.081	.95875
#2	1.0156	49.500	.99235	1.043	.95923
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0101**	**.98903**	**49.957**	**49.407**	**1.0029**
Stddev	.0019	.00023	.260	.265	.0059
%RSD	.18990	.02343	.52093	.53537	.58798
#1	1.0087	.98919	50.141	49.594	1.0071
#2	1.0114	.98887	49.773	49.220	.99874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 16:55:28 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.109**	**.99934**	**1.0151**	**50.284**	**.98243**
Stddev	.100	.00146	.0005	.247	.00137
%RSD	.20331	.14606	.04834	.49066	.13896
#1	49.039	.99830	1.0147	50.459	.98340
#2	49.180	1.0004	1.0154	50.110	.98147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.42**	**.96346**	**24.649**	**.99260**	**.99917**
Stddev	.01	.00254	.002	.00042	.00139
%RSD	.0300	.26393	.00905	.04182	.13879
#1	37.41	.96526	24.648	.99289	1.0001
#2	37.43	.96166	24.651	.99231	.99819
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9668**	**.96741**	**1.0131**	**1.514**	**.99679**
Stddev	.0409	.00123	.0044	.001	.00095
%RSD	.40999	.12749	.43442	.0495	.09578
#1	9.9957	.96653	1.0162	1.514	.99611
#2	9.9379	.96828	1.0100	1.513	.99746
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 16:55:28 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99375**	**1.0051**	**1.0110**	**1.519**
Stddev	.00398	.0010	.0006	.000
%RSD	.40099	.10172	.06128	.0167
#1	.99657	1.0043	1.0106	1.520
#2	.99093	1.0058	1.0114	1.519
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3102.4**	**3001.0**	**26395.**	**2979.9**
Stddev	2.7	6.6	27.	9.3
%RSD	.08638	.22146	.10370	.31349
#1	3104.3	3005.7	26376.	2973.3
#2	3100.5	2996.3	26415.	2986.5

Sample Name: CCB-6819143 Acquired: 12/17/2021 16:59:00 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**-.01569**	**.00046**	**.00128**	**.00003**
Stddev	.00069	.00557	.00147	.00037	.00004
%RSD	193.97	35.508	318.97	29.265	126.26
#1	.00013	-.01175	.00150	.00154	.00000
#2	-.00084	-.01963	-.00058	.00101	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00177**	**.00006**	**-.0224**	**.00003**
Stddev	.00013	.00330	.00008	.0171	.00012
%RSD	319.82	186.48	126.49	76.11	378.14
#1	-.00005	.00056	.00001	-.0104	.00012
#2	.00013	-.00410	.00012	-.0345	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00043**	**.00009**	**-.01628**	**-.00035**
Stddev	.00035	.00046	.00078	.00581	.00301
%RSD	7745.8	107.44	827.69	35.685	859.52
#1	.00025	.00075	-.00046	-.01217	-.00248
#2	-.00024	.00010	.00065	-.02038	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 16:59:00 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00163**	**.00007**	**.00086**	**.01732**	**-.00014**
Stddev	.00118	.00010	.00045	.01073	.00018
%RSD	72.427	135.90	52.437	61.968	126.04
#1	-.00246	.00014	.00054	.02491	-.00002
#2	-.00079	.00000	.00117	.00973	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00033**	**-.00126**	**-.00240**	**.00092**
Stddev	.00	.00018	.00103	.00137	.00184
%RSD	.0005	55.937	81.444	57.249	200.19
#1	25.01	-.00020	-.00054	-.00143	-.00038
#2	25.01	-.00046	-.00199	-.00336	.00222
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01278**	**.00027**	**.00014**	**1.001**	**-.00019**
Stddev	.00467	.00036	.00000	.004	.00006
%RSD	36.570	133.73	.92126	.4311	31.303
#1	-.01609	.00052	.00014	1.004	-.00023
#2	-.00948	.00001	.00014	.9978	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 16:59:00 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00001**	**-.00015**	**.9981**
Stddev	.00053	.00029	.00010	.0003
%RSD	308.85	2614.6	66.919	.0252
#1	.00020	.00022	-.00008	.9980
#2	-.00055	-.00019	-.00022	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3602.4**	**3099.8**	**28046.**	**3026.3**
Stddev	.1	6.1	12.	15.8
%RSD	.00313	.19660	.04426	.52210
#1	3602.4	3104.1	28055.	3037.5
#2	3602.5	3095.5	28037.	3015.2

Sample Name: CCVL-6819272 Acquired: 12/17/2021 17:02:52 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00633**	**.18611**	**.01461**	**.01960**	**.00209**
Stddev	.00003	.05059	.00074	.00028	.00003
%RSD	.49927	27.183	5.0856	1.4352	1.6496
#1	.00630	.22189	.01513	.01940	.00207
#2	.00635	.15034	.01408	.01980	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.49680**	**.00215**	**.0015**	**.00356**
Stddev	.00004	.00135	.00015	.0371	.00001
%RSD	1.9477	.27154	6.8221	2426.	.30458
#1	.00200	.49584	.00226	-.0247	.00357
#2	.00206	.49775	.00205	.0278	.00356
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00396**	**.01107**	**.04819**	**.35422**	**.02502**
Stddev	.00036	.00007	.00073	.02680	.00354
%RSD	9.1962	.61363	1.5133	7.5662	14.132
#1	.00371	.01112	.04871	.33527	.02252
#2	.00422	.01102	.04768	.37317	.02752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 17:02:52 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19181**	**.00304**	**.00981**	**.99145**	**.00931**
Stddev	.00425	.00001	.00008	.00899	.00014
%RSD	2.2147	.25328	.84225	.90703	1.4595
#1	.18880	.00304	.00986	.98510	.00921
#2	.19481	.00305	.00975	.99781	.00940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00868**	**.18289**	**.01873**	**.01982**
Stddev	.00	.00025	.00054	.00172	.00082
%RSD	.0006	2.8667	.29739	9.1681	4.1169
#1	25.00	.00885	.18251	.01752	.01925
#2	25.00	.00850	.18328	.01995	.02040
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45266**	**.00888**	**.00503**	F **1.002**	**.00448**
Stddev	.00110	.00009	.00007	.007	.00029
%RSD	.24286	.96352	1.3852	.7083	6.3763
#1	.45188	.00882	.00508	1.007	.00468
#2	.45344	.00894	.00498	.9973	.00428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 17:02:52 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01904**	**.00463**	**.00980**	F **.9988**
Stddev	.00140	.00066	.00043	.0011
%RSD	7.3621	14.313	4.4010	.1074
#1	.02003	.00416	.01011	.9980
#2	.01804	.00510	.00950	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3579.6**	**3106.9**	**28131.**	**3038.3**
Stddev	8.6	1.3	16.	9.0
%RSD	.24006	.04194	.05679	.29504
#1	3573.5	3107.8	28143.	3044.6
#2	3585.7	3106.0	28120.	3031.9

Sample Name: 480-193293-B-13-A Acquired: 12/17/2021 17:06:40 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.29112**	**.00086**	**.88521**	**.06327**
Stddev	.00135	.02154	.00032	.00202	.00004
%RSD	626.91	7.3988	37.584	.22828	.05570
#1	.00117	.27589	.00063	.88664	.06325
#2	-.00074	.30635	.00109	.88378	.06330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**20.537**	**.00029**	**-.0207**	**-.00006**
Stddev	.00002	.046	.00006	.0402	.00013
%RSD	31.651	.22306	20.689	194.5	218.83
#1	.00008	20.504	.00024	-.0491	.00003
#2	.00005	20.569	.00033	.0078	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00163**	**.00127**	**.82339**	**1.1625**	**.00867**
Stddev	.00034	.00027	.00514	.0427	.00200
%RSD	20.932	20.969	.62381	3.6701	23.090
#1	.00139	.00108	.81975	1.1323	.00725
#2	.00187	.00146	.82702	1.1926	.01008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-13-A Acquired: 12/17/2021 17:06:40 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.8391**	**.03233**	**.09867**	**103.32**	**.00108**
Stddev	.0165	.00015	.00047	.69	.00017
%RSD	.21043	.47656	.47559	.66894	15.792
#1	7.8507	.03222	.09900	102.83	.00120
#2	7.8274	.03244	.09834	103.80	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00196**	**.15290**	**.00007**	**.00037**
Stddev	.00	.00028	.00241	.00070	.00153
%RSD	.0032	14.442	1.5745	1059.7	418.14
#1	25.03	.00176	.15120	-.00043	-.00072
#2	25.04	.00216	.15460	.00056	.00145
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9394**	**.00062**	**.49055**	**1.001**	**.00922**
Stddev	.0454	.00048	.00046	.002	.00019
%RSD	.76358	77.250	.09303	.1472	2.1049
#1	5.9073	.00028	.49023	1.002	.00908
#2	5.9715	.00096	.49087	1.000	.00935
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193293-B-13-A Acquired: 12/17/2021 17:06:40 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00101**	**.00758**	**.9980**
Stddev	.00013	.00003	.00034	.0003
%RSD	30.093	2.5565	4.4448	.0281
#1	.00035	.00099	.00734	.9978
#2	.00054	.00103	.00782	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3257.7**	**3051.5**	**27060.**	**3104.6**
Stddev	4.7	5.9	17.	15.1
%RSD	.14577	.19174	.06448	.48582
#1	3254.3	3047.3	27072.	3093.9
#2	3261.0	3055.6	27048.	3115.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.333%	96.988%	96.394%	102.34%
Range				

Sample Name: MB 480-609180/1-A Acquired: 12/17/2021 17:10:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.02613**	**-.00124**	**-.00042**	**-.00003**
Stddev	.00007	.03185	.00060	.00005	.00001
%RSD	13.506	121.89	48.463	12.004	36.092
#1	-.00059	.00361	-.00082	-.00038	-.00002
#2	-.00049	.04866	-.00167	-.00046	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.07870**	**.00007**	**-.0484**	**-.00010**
Stddev	.00014	.00437	.00021	.0308	.00005
%RSD	468.37	5.5494	287.43	63.62	46.759
#1	.00007	.07561	-.00008	-.0266	-.00014
#2	-.00013	.08179	.00022	-.0702	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00096**	**-.00097**	**-.05716**	**-.00254**
Stddev	.00018	.00099	.00126	.04982	.00018
%RSD	136.40	103.04	129.46	87.158	7.2437
#1	.00000	-.00026	-.00187	-.02193	-.00241
#2	.00025	-.00167	-.00008	-.09238	-.00267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-609180/1-A Acquired: 12/17/2021 17:10:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00016**	**-.00037**	**.03648**	**-.00013**
Stddev	.00448	.00002	.00014	.01056	.00006
%RSD	1472.1	14.330	39.372	28.960	45.256
#1	.00347	.00015	-.00047	.04395	-.00009
#2	-.00286	.00018	-.00026	.02901	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00044**	**.00165**	**.00090**	**.00063**
Stddev	.00	.00044	.00337	.00033	.00149
%RSD	.0068	98.266	204.41	36.881	235.84
#1	25.01	.00075	.00404	.00067	-.00042
#2	25.01	.00014	-.00073	.00114	.00169
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**.00005**	**.00020**	**1.008**	**-.00021**
Stddev	.00194	.00008	.00013	.007	.00020
%RSD	43.279	173.24	64.725	.6526	95.659
#1	.00584	.00010	.00030	1.012	-.00007
#2	.00311	-.00001	.00011	1.003	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-609180/1-A Acquired: 12/17/2021 17:10:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.00000**	**.00522**	**.9990**
Stddev	.00034	.00036	.00007	.0015
%RSD	43.045	21903.	1.3190	.1457
#1	-.00102	-.00026	.00527	1.000
#2	-.00054	.00026	.00517	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3630.1**	**3148.7**	**28424.**	**3089.4**
Stddev	.6	2.1	126.	7.1
%RSD	.01580	.06537	.44469	.22847
#1	3629.7	3150.1	28513.	3094.4
#2	3630.5	3147.2	28334.	3084.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.77%	100.08%	101.25%	101.84%
Range				

Sample Name: LCS 480-609180/2-A Acquired: 12/17/2021 17:14:12 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04928**	**10.085**	**.20627**	**.20332**	**.20464**
Stddev	.00028	.047	.00125	.00023	.00003
%RSD	.56476	.46464	.60455	.11431	.01699
#1	.04908	10.052	.20715	.20316	.20466
#2	.04947	10.118	.20539	.20348	.20461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21453**	**9.9463**	**.19958**	**-.0098**	**.18708**
Stddev	.00023	.0009	.00006	.0440	.00010
%RSD	.10864	.00862	.03082	448.3	.05215
#1	.21437	9.9457	.19963	-.0410	.18701
#2	.21470	9.9469	.19954	.0213	.18715
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19987**	**.19908**	**10.013**	**9.7422**	**.19825**
Stddev	.00099	.00043	.009	.0013	.00024
%RSD	.49720	.21417	.09140	.01347	.12262
#1	.19917	.19878	10.019	9.7431	.19808
#2	.20057	.19938	10.006	9.7413	.19842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-609180/2-A Acquired: 12/17/2021 17:14:12 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.144**	**.20506**	**.20700**	**9.8553**	**.19097**
Stddev	.016	.00006	.00024	.0003	.00004
%RSD	.15808	.03154	.11737	.00290	.01968
#1	10.155	.20501	.20683	9.8555	.19100
#2	10.133	.20510	.20717	9.8551	.19094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.83**	**.19384**	**9.6025**	**.21195**	**.19565**
Stddev	.00	.00023	.0063	.00120	.00034
%RSD	.0012	.11853	.06602	.56564	.17372
#1	24.83	.19400	9.6069	.21280	.19589
#2	24.83	.19368	9.5980	.21110	.19541
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5385**	**.18262**	**.20268**	**1.003**	**.20159**
Stddev	.0245	.00044	.00080	.003	.00051
%RSD	.25738	.24091	.39485	.3398	.25130
#1	9.5559	.18231	.20324	1.000	.20123
#2	9.5211	.18293	.20211	1.005	.20195
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-609180/2-A Acquired: 12/17/2021 17:14:12 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20099**	**.20022**	**.20257**	**1.004**
Stddev	.00073	.00016	.00023	.000
%RSD	.36439	.07747	.11331	.0171
#1	.20151	.20033	.20241	1.004
#2	.20048	.20011	.20274	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3412.3**	**3091.1**	**27704.**	**3050.2**
Stddev	5.3	1.7	27.	10.2
%RSD	.15611	.05644	.09814	.33576
#1	3416.1	3092.3	27685.	3057.4
#2	3408.6	3089.8	27724.	3043.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.669%	98.247%	98.690%	100.55%
Range				

Sample Name: 480-193467-C-1-A Acquired: 12/17/2021 17:17:47 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**-.00375**	**-.00067**	**-.00080**	**-.00001**
Stddev	.00023	.00615	.00152	.00047	.00000
%RSD	37.381	163.77	226.28	58.573	6.4729
#1	-.00079	-.00810	-.00174	-.00113	-.00001
#2	-.00046	.00059	.00040	-.00047	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.01297**	**.00013**	**-.0087**	**-.00026**
Stddev	.00007	.00154	.00003	.0189	.00019
%RSD	81.343	11.869	27.745	216.7	73.640
#1	.00014	.01188	.00015	.0047	-.00013
#2	.00004	.01405	.00010	-.0221	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00004**	**-.00109**	**-.08343**	**-.00228**
Stddev	.00018	.00008	.00229	.03373	.00008
%RSD	134.34	236.79	208.76	40.429	3.7204
#1	.00026	-.00009	-.00271	-.05958	-.00234
#2	.00001	.00002	.00052	-.10728	-.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-1-A Acquired: 12/17/2021 17:17:47 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00271**	**-.00004**	**-.00040**	**.03260**	**-.00024**
Stddev	.00315	.00009	.00003	.00265	.00009
%RSD	116.25	213.17	8.6714	8.1296	36.553
#1	-.00048	.00002	-.00037	.03073	-.00018
#2	-.00494	-.00011	-.00042	.03448	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00019**	**-.00547**	**-.00027**	**.00177**
Stddev	.00	.00016	.00022	.00160	.00051
%RSD	.0025	84.026	4.0391	582.90	28.829
#1	25.01	-.00031	-.00562	-.00140	.00213
#2	25.01	-.00008	-.00531	.00086	.00141
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00629**	**-.00001**	**.00020**	**1.002**	**-.00046**
Stddev	.00866	.00006	.00015	.010	.00020
%RSD	137.68	1200.9	75.587	1.043	43.227
#1	.00017	-.00005	.00009	1.010	-.00060
#2	.01241	.00004	.00031	.9949	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-1-A Acquired: 12/17/2021 17:17:47 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00099**	**.00011**	**.00010**	**.9981**
Stddev	.00088	.00033	.00006	.0005
%RSD	89.031	289.71	60.050	.0485
#1	-.00161	-.00012	.00015	.9984
#2	-.00037	.00034	.00006	.9977
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3627.4**	**3148.1**	**28371.**	**3076.9**
Stddev	.6	2.2	7.	15.7
%RSD	.01717	.06960	.02538	.51012
#1	3626.9	3146.6	28366.	3088.0
#2	3627.8	3149.7	28376.	3065.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.70%	100.06%	101.06%	101.43%
Range				

Sample Name: 480-193467-C-1-ASD@5 Acquired: 12/17/2021 17:21:33 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00697**	**-.00209**	**-.00221**	**-.00001**
Stddev	.00006	.01486	.00118	.00035	.00002
%RSD	132.71	213.22	56.417	15.922	297.45
#1	-.00000	-.00354	-.00126	-.00196	-.00002
#2	-.00009	.01748	-.00293	-.00246	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00220**	**.00007**	**.0167**	**-.00001**
Stddev	.00003	.00293	.00000	.0462	.00013
%RSD	313.39	132.91	7.0226	276.3	1136.5
#1	.00003	.00427	.00006	.0493	-.00011
#2	-.00001	.00013	.00007	-.0159	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00039**	**-.00429**	**-.07378**	**-.00331**
Stddev	.00024	.00074	.00263	.04675	.00143
%RSD	154.61	187.31	61.455	63.359	43.239
#1	.00001	.00092	-.00242	-.10683	-.00432
#2	-.00033	-.00013	-.00615	-.04072	-.00230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-1-ASD@5 Acquired: 12/17/2021 17:21:33 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00002**	**-.00071**	**.01357**	**-.00014**
Stddev	.00311	.00001	.00004	.00685	.00002
%RSD	1822.2	57.578	5.1642	50.495	13.421
#1	-.00203	.00001	-.00073	.00873	-.00016
#2	.00237	.00003	-.00068	.01842	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00145**	**-.00713**	**-.00020**	**-.00163**
Stddev	.00	.00023	.00013	.00280	.00047
%RSD	.0018	15.549	1.8683	1398.4	28.624
#1	25.01	-.00161	-.00704	-.00218	-.00130
#2	25.01	-.00129	-.00723	.00178	-.00196
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02352**	**-.00011**	**.00015**	**1.002**	**.00002**
Stddev	.00462	.00040	.00012	.012	.00006
%RSD	19.639	368.95	79.845	1.153	359.19
#1	-.02678	.00017	.00023	.9936	.00006
#2	-.02025	-.00039	.00006	1.010	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-1-ASD@5 Acquired: 12/17/2021 17:21:33 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00035**	**.00003**	**.9984**
Stddev	.00067	.00001	.00045	.0002
%RSD	1062.7	2.4844	1499.5	.0234
#1	.00054	.00036	.00035	.9986
#2	-.00041	.00035	-.00029	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3605.0**	**3132.7**	**28296.**	**3045.6**
Stddev	1.3	7.3	18.	7.6
%RSD	.03518	.23313	.06422	.25106
#1	3604.1	3127.5	28309.	3040.2
#2	3605.9	3137.8	28284.	3051.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.07%	99.569%	100.80%	100.39%
Range				

Sample Name: 480-193467-C-1-APDS Acquired: 12/17/2021 17:25:20 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04712**	**9.7546**	**.20863**	**.19688**	**.19839**
Stddev	.00001	.0142	.00006	.00128	.00022
%RSD	.02895	.14540	.02955	.65131	.11068
#1	.04713	9.7446	.20859	.19598	.19854
#2	.04711	9.7646	.20868	.19779	.19823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21156**	**9.8851**	**.19852**	**-.0273**	**.18765**
Stddev	.00010	.0171	.00000	.0322	.00023
%RSD	.04659	.17264	.00034	117.9	.12103
#1	.21149	9.8731	.19852	-.0045	.18781
#2	.21163	9.8972	.19852	-.0500	.18749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19899**	**.19906**	**10.031**	**9.5040**	**.19285**
Stddev	.00121	.00075	.002	.0653	.00155
%RSD	.60689	.37710	.02370	.68664	.80492
#1	.19984	.19959	10.033	9.4578	.19395
#2	.19813	.19853	10.029	9.5501	.19176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-1-APDS Acquired: 12/17/2021 17:25:20 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.132**	**.20457**	**.20605**	**9.4450**	**.19158**
Stddev	.031	.00042	.00018	.0123	.00073
%RSD	.30388	.20596	.08802	.13042	.38114
#1	10.110	.20427	.20617	9.4363	.19106
#2	10.153	.20487	.20592	9.4537	.19210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.83**	**.19412**	**9.3940**	**.20870**	**.19509**
Stddev	.00	.00104	.0046	.00162	.00267
%RSD	.0110	.53565	.04838	.77681	1.3669
#1	24.83	.19339	9.3972	.20985	.19321
#2	24.83	.19486	9.3908	.20756	.19698
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2161**	**.18286**	**.19492**	**1.002**	**.20153**
Stddev	.0454	.00067	.00053	.009	.00095
%RSD	.49264	.36882	.26982	.9450	.47129
#1	9.1839	.18334	.19529	1.009	.20220
#2	9.2482	.18238	.19454	.9957	.20086
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-1-APDS Acquired: 12/17/2021 17:25:20 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20047**	**.19881**	**.20139**	**1.001**
Stddev	.00087	.00120	.00064	.001
%RSD	.43365	.60167	.31726	.1110
#1	.20109	.19966	.20184	1.002
#2	.19986	.19797	.20094	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3435.7**	**3119.9**	**27885.**	**3090.5**
Stddev	6.1	11.5	16.	7.5
%RSD	.17628	.36831	.05701	.24286
#1	3440.0	3128.1	27896.	3085.2
#2	3431.4	3111.8	27873.	3095.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.324%	99.164%	99.332%	101.87%
Range				

Sample Name: 480-193467-C-1-B MS Acquired: 12/17/2021 17:28:55 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04865**	**10.082**	**.21092**	**.20397**	**.20357**
Stddev	.00065	.002	.00268	.00004	.00021
%RSD	1.3344	.02184	1.2683	.01999	.10284
#1	.04819	10.084	.20902	.20395	.20342
#2	.04910	10.081	.21281	.20400	.20371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21496**	**9.9357**	**.19917**	**.0273**	**.18783**
Stddev	.00025	.0184	.00056	.0046	.00006
%RSD	.11526	.18528	.27884	16.87	.02963
#1	.21479	9.9227	.19956	.0241	.18780
#2	.21514	9.9487	.19878	.0306	.18787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19985**	**.19815**	**10.026**	**9.7378**	**.19973**
Stddev	.00073	.00013	.019	.0441	.00266
%RSD	.36545	.06456	.18685	.45260	1.3336
#1	.19933	.19806	10.013	9.7066	.20161
#2	.20036	.19825	10.039	9.7689	.19784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-1-B MS Acquired: 12/17/2021 17:28:55 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.168**	**.20584**	**.20761**	**9.8932**	**.19282**
Stddev	.042	.00042	.00015	.0112	.00082
%RSD	.41781	.20484	.07041	.11336	.42333
#1	10.138	.20555	.20751	9.8852	.19225
#2	10.198	.20614	.20772	9.9011	.19340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.83**	**.19508**	**9.5653**	**.21244**	**.19759**
Stddev	.00	.00091	.0110	.00093	.00179
%RSD	.0025	.46630	.11529	.43582	.90825
#1	24.83	.19444	9.5575	.21178	.19632
#2	24.83	.19572	9.5731	.21309	.19886
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5235**	**.18276**	**.20268**	**1.004**	**.20230**
Stddev	.0452	.00043	.00065	.004	.00042
%RSD	.47506	.23565	.32068	.4265	.20722
#1	9.4916	.18306	.20314	1.007	.20200
#2	9.5555	.18245	.20222	1.001	.20260
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-1-B MS Acquired: 12/17/2021 17:28:55 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20057**	**.20116**	**.20421**	**.9999**
Stddev	.00035	.00051	.00066	.0004
%RSD	.17536	.25148	.32558	.0354
#1	.20032	.20152	.20374	.9997
#2	.20082	.20080	.20468	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3430.3**	**3111.9**	**27725.**	**3052.5**
Stddev	1.9	.8	33.	.3
%RSD	.05545	.02703	.11798	.00891
#1	3429.0	3111.3	27702.	3052.7
#2	3431.7	3112.5	27748.	3052.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.173%	98.909%	98.763%	100.62%
Range				

Sample Name: 480-193467-C-1-C MSD Acquired: 12/17/2021 17:32:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04962**	**10.205**	**.21123**	**.20571**	**.20626**
Stddev	.00037	.020	.00031	.00040	.00036
%RSD	.74920	.19946	.14867	.19431	.17620
#1	.04988	10.219	.21145	.20543	.20652
#2	.04935	10.190	.21101	.20599	.20600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21764**	**10.045**	**.20207**	**-.0629**	**.19029**
Stddev	.00045	.029	.00006	.0441	.00010
%RSD	.20895	.29352	.02778	70.11	.05023
#1	.21796	10.065	.20203	-.0941	.19035
#2	.21732	10.024	.20211	-.0317	.19022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20347**	**.19997**	**10.138**	**9.8609**	**.19970**
Stddev	.00050	.00062	.039	.0228	.00185
%RSD	.24647	.31068	.38840	.23132	.92405
#1	.20382	.20041	10.166	9.8770	.20101
#2	.20311	.19953	10.110	9.8447	.19840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-1-C MSD Acquired: 12/17/2021 17:32:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.283**	**.20836**	**.20960**	**9.9666**	**.19413**
Stddev	.021	.00005	.00044	.0130	.00033
%RSD	.20521	.02593	.21231	.13040	.17220
#1	10.298	.20832	.20991	9.9574	.19437
#2	10.268	.20840	.20928	9.9758	.19390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.83**	**.19660**	**9.6302**	**.21389**	**.19731**
Stddev	.00	.00041	.0057	.00105	.00092
%RSD	.0056	.20844	.05926	.49094	.46566
#1	24.83	.19689	9.6261	.21314	.19796
#2	24.83	.19631	9.6342	.21463	.19666
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5970**	**.18412**	**.20500**	**1.004**	**.20442**
Stddev	.0508	.00005	.00028	.010	.00015
%RSD	.52978	.02842	.13513	1.012	.07453
#1	9.6330	.18415	.20480	.9965	.20452
#2	9.5611	.18408	.20519	1.011	.20431
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-1-C MSD Acquired: 12/17/2021 17:32:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20390**	**.20287**	**.20504**	**.9993**
Stddev	.00178	.00076	.00072	.0014
%RSD	.87327	.37247	.35281	.1394
#1	.20516	.20341	.20555	1.000
#2	.20264	.20234	.20453	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3420.4**	**3104.8**	**27656.**	**3039.4**
Stddev	7.7	9.0	86.	18.7
%RSD	.22529	.28965	.30973	.61537
#1	3425.9	3111.1	27595.	3026.1
#2	3415.0	3098.4	27716.	3052.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.896%	98.682%	98.516%	100.19%
Range				

Sample Name: 480-193467-C-2-A Acquired: 12/17/2021 17:36:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.51176**	**.00039**	**.00956**	**.19802**
Stddev	.00097	.03197	.00048	.00010	.00026
%RSD	191.64	6.2476	121.87	1.0954	.12934
#1	.00119	.53437	.00073	.00948	.19783
#2	-.00018	.48915	.00005	.00963	.19820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**141.48**	**.00063**	**-.0140**	**.00076**
Stddev	.00002	.40	.00007	.0176	.00002
%RSD	42.379	.28047	11.735	125.9	2.0723
#1	.00003	141.76	.00069	-.0015	.00075
#2	.00005	141.20	.00058	-.0264	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00114**	**.00732**	**1.4658**	**2.4728**	**.00540**
Stddev	.00019	.00025	.0029	.0385	.00065
%RSD	16.804	3.4732	.19483	1.5555	12.119
#1	.00101	.00750	1.4678	2.4456	.00586
#2	.00128	.00714	1.4638	2.5000	.00493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-2-A Acquired: 12/17/2021 17:36:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.291**	**1.5372**	**.00340**	**210.74**	**.00415**
Stddev	.009	.0040	.00017	.67	.00014
%RSD	.05889	.26025	5.0003	.31771	3.3086
#1	15.284	1.5343	.00328	211.21	.00425
#2	15.297	1.5400	.00352	210.26	.00405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00117**	**25.520**	**.00035**	**-.00217**
Stddev	.00	.00046	.003	.00151	.00055
%RSD	.0022	39.333	.01341	438.52	25.586
#1	25.04	.00085	25.517	.00142	-.00178
#2	25.04	.00150	25.522	-.00073	-.00256
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0037**	**-.00014**	**.38675**	**1.002**	**.00830**
Stddev	.0154	.00013	.00219	.007	.00093
%RSD	.25587	96.476	.56566	.6691	11.238
#1	6.0146	-.00004	.38829	.9972	.00896
#2	5.9929	-.00023	.38520	1.007	.00764
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-2-A Acquired: 12/17/2021 17:36:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00096**	**.00689**	**.9974**
Stddev	.00056	.00012	.00005	.0010
%RSD	2140.4	12.129	.67835	.1034
#1	-.00043	.00105	.00686	.9981
#2	.00037	.00088	.00692	.9967
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3064.7**	**2934.1**	**25993.**	**3012.6**
Stddev	2.4	.1	39.	17.9
%RSD	.07698	.00305	.14900	.59284
#1	3063.1	2934.2	25966.	3000.0
#2	3066.4	2934.1	26020.	3025.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.923%	93.258%	92.594%	99.306%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 17:39:54 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0039**	**50.198**	**1.0039**	**1.0310**	**.99624**
Stddev	.0053	.060	.0011	.0010	.00268
%RSD	.52429	.12037	.10876	.10016	.26871
#1	1.0002	50.155	1.0031	1.0302	.99813
#2	1.0076	50.241	1.0047	1.0317	.99434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0099**	**49.722**	**.99508**	**1.015**	**.97378**
Stddev	.0011	.046	.00022	.001	.00074
%RSD	.10741	.09339	.02168	.0589	.07586
#1	1.0107	49.689	.99493	1.016	.97430
#2	1.0092	49.755	.99523	1.015	.97325
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0038**	**.99411**	**49.950**	**49.364**	**1.0004**
Stddev	.0046	.00226	.049	.037	.0002
%RSD	.46114	.22732	.09852	.07530	.02316
#1	1.0005	.99251	49.916	49.390	1.0005
#2	1.0070	.99571	49.985	49.337	1.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 17:39:54 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.154**	**.99903**	**1.0141**	**49.891**	**.99229**
Stddev	.177	.00359	.0007	.101	.00012
%RSD	.35939	.35906	.07142	.20288	.01182
#1	49.029	.99650	1.0146	49.962	.99221
#2	49.279	1.0016	1.0136	49.819	.99237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.44**	**.97564**	**24.696**	**.99627**	**.99932**
Stddev	.02	.00001	.050	.00339	.00145
%RSD	.0566	.00130	.20408	.34037	.14506
#1	37.42	.97564	24.660	.99387	.99830
#2	37.45	.97565	24.731	.99867	1.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9334**	**.97618**	**1.0030**	**1.507**	**.99705**
Stddev	.0246	.00012	.0026	.008	.00501
%RSD	.24780	.01204	.26124	.5150	.50274
#1	9.9160	.97610	1.0048	1.501	.99350
#2	9.9508	.97627	1.0011	1.512	1.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 17:39:54 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99610**	**.99972**	**1.0075**	**1.511**
Stddev	.00048	.00367	.0047	.002
%RSD	.04828	.36661	.47106	.1217
#1	.99576	.99713	1.0041	1.510
#2	.99644	1.0023	1.0108	1.512
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3104.2**	**3031.6**	**26570.**	**2991.5**
Stddev	10.2	6.1	164.	5.6
%RSD	.32716	.20103	.61660	.18623
#1	3097.0	3027.3	26686.	2995.5
#2	3111.4	3035.9	26454.	2987.6

Sample Name: CCB-6819143 Acquired: 12/17/2021 17:43:25 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.01463**	**-.00038**	**-.00175**	**.00003**
Stddev	.00019	.03269	.00196	.00004	.00001
%RSD	56.739	223.47	518.58	2.1979	49.817
#1	-.00020	-.00849	-.00176	-.00172	.00003
#2	-.00047	.03774	.00101	-.00178	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00089**	**.00008**	**.0157**	**-.00013**
Stddev	.00005	.00219	.00022	.0687	.00000
%RSD	199.23	246.86	269.39	437.9	3.1869
#1	-.00001	-.00066	-.00008	.0642	-.00013
#2	.00006	.00243	.00024	-.0329	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.00005**	**.00019**	**-.02531**	**-.00188**
Stddev	.00036	.00013	.00121	.02349	.00021
%RSD	129.60	272.82	629.97	92.772	10.989
#1	.00002	.00004	-.00067	-.00871	-.00173
#2	.00054	-.00014	.00105	-.04192	-.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 17:43:25 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.00003**	**.00100**	**-.00481**	**-.00004**
Stddev	.00500	.00002	.00003	.00884	.00020
%RSD	1062.3	71.461	3.2102	183.93	498.02
#1	.00400	.00001	.00098	-.01106	.00010
#2	-.00306	.00004	.00102	.00144	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00049**	**-.00631**	**.00039**	**.00263**
Stddev	.00	.00074	.00155	.00185	.00313
%RSD	.0036	151.45	24.545	473.87	119.10
#1	25.01	.00003	-.00521	-.00092	.00484
#2	25.01	-.00102	-.00740	.00170	.00041
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01015**	**.00006**	**.00015**	**1.004**	**-.00032**
Stddev	.00444	.00018	.00010	.007	.00001
%RSD	43.743	300.60	69.621	.6699	1.8608
#1	-.00701	-.00007	.00008	1.009	-.00032
#2	-.01329	.00019	.00022	.9997	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 17:43:25 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00031**	**.00008**	**.9990**
Stddev	.00034	.00030	.00014	.0005
%RSD	70.138	97.648	175.75	.0509
#1	-.00072	.00009	-.00002	.9993
#2	-.00024	.00052	.00017	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3595.3**	**3122.9**	**28063.**	**3018.8**
Stddev	.4	1.9	60.	3.6
%RSD	.01168	.05965	.21429	.11850
#1	3595.0	3124.2	28021.	3021.3
#2	3595.6	3121.6	28106.	3016.3

Sample Name: CCVL-6819272 Acquired: 12/17/2021 17:47:16 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00655**	**.20812**	**.01161**	**.01731**	**.00205**
Stddev	.00026	.02010	.00024	.00019	.00004
%RSD	3.9901	9.6569	2.0328	1.1149	1.9636
#1	.00637	.22233	.01178	.01744	.00208
#2	.00674	.19391	.01145	.01717	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.51262**	**.00198**	**.0488**	**.00355**
Stddev	.00002	.00393	.00008	.0100	.00006
%RSD	1.2023	.76617	4.1802	20.48	1.7375
#1	.00207	.50984	.00192	.0558	.00359
#2	.00203	.51539	.00204	.0417	.00350
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00385**	**.01039**	**.05057**	**.39346**	**.02687**
Stddev	.00038	.00015	.00203	.07109	.00022
%RSD	9.8365	1.4563	4.0114	18.068	.82605
#1	.00412	.01050	.04913	.44372	.02671
#2	.00358	.01029	.05200	.34319	.02703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 17:47:16 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18864**	**.00307**	**.00994**	**1.0113**	**.00953**
Stddev	.00299	.00004	.00012	.0079	.00055
%RSD	1.5857	1.4058	1.1793	.77913	5.7773
#1	.19076	.00304	.00986	1.0058	.00992
#2	.18653	.00310	.01003	1.0169	.00914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00941**	**.17678**	**.01920**	**.02412**
Stddev	.00	.00073	.00420	.00034	.00025
%RSD	.0000	7.7423	2.3776	1.7880	1.0482
#1	25.00	.00889	.17381	.01896	.02394
#2	25.00	.00992	.17976	.01945	.02430
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46944**	**.00902**	**.00519**	F **.9931**	**.00455**
Stddev	.00748	.00031	.00005	.0003	.00014
%RSD	1.5933	3.4478	.95078	.0266	3.0247
#1	.47473	.00924	.00516	.9933	.00464
#2	.46415	.00880	.00523	.9929	.00445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 17:47:16 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01885**	**.00473**	**.01010**	F **.9990**
Stddev	.00037	.00015	.00014	.0003
%RSD	1.9646	3.2455	1.4238	.0273
#1	.01911	.00484	.01000	.9988
#2	.01859	.00463	.01020	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3583.4**	**3126.8**	**28090.**	**3018.5**
Stddev	2.6	1.1	18.	4.0
%RSD	.07370	.03591	.06310	.13358
#1	3585.2	3126.0	28077.	3021.3
#2	3581.5	3127.6	28102.	3015.6

Sample Name: 480-193467-C-3-A Acquired: 12/17/2021 17:51:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**-.03093**	**.00180**	**.05051**	**.11037**
Stddev	.00092	.00560	.00070	.00000	.00006
%RSD	181.58	18.098	38.968	.00342	.05364
#1	.00115	-.03489	.00230	.05051	.11033
#2	-.00014	-.02697	.00131	.05051	.11042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**211.71**	**.00050**	**-.0127**	**.00005**
Stddev	.00008	.01	.00021	.0067	.00008
%RSD	57.862	.00518	41.991	52.77	148.94
#1	-.00019	211.70	.00035	-.0175	.00010
#2	-.00008	211.72	.00065	-.0080	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00068**	**1.1739**	**3.2650**	**.02010**
Stddev	.00067	.00028	.0056	.0512	.00068
%RSD	122.61	40.952	.47486	1.5689	3.3635
#1	.00101	.00048	1.1699	3.3012	.02058
#2	.00007	.00088	1.1778	3.2288	.01962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-3-A Acquired: 12/17/2021 17:51:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.214**	**.29135**	**-.00046**	**63.646**	**.00114**
Stddev	.011	.00014	.00028	.029	.00016
%RSD	.02865	.04691	59.926	.04584	13.835
#1	38.206	.29144	-.00065	63.625	.00103
#2	38.222	.29125	-.00026	63.667	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00050**	**35.435**	**.00054**	**.00082**
Stddev	.00	.00001	.043	.00065	.00479
%RSD	.0067	2.5311	.12213	119.99	587.07
#1	25.01	-.00049	35.465	.00100	.00420
#2	25.01	-.00051	35.404	.00008	-.00257
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9662**	**.00006**	**1.6759**	**.9991**	**.00160**
Stddev	.0042	.00072	.0002	.0005	.00038
%RSD	.06045	1252.3	.01077	.0528	23.535
#1	6.9633	-.00045	1.6760	.9987	.00133
#2	6.9692	.00057	1.6757	.9995	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-3-A Acquired: 12/17/2021 17:51:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00060**	**-.00014**	**.00201**	**.9978**
Stddev	.00030	.00002	.00052	.0010
%RSD	49.671	16.683	25.951	.1020
#1	.00039	-.00013	.00164	.9970
#2	.00081	-.00016	.00238	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3098.3**	**2935.3**	**26160.**	**2994.4**
Stddev	7.1	3.1	9.	2.1
%RSD	.23040	.10669	.03298	.07058
#1	3103.4	2937.5	26154.	2995.9
#2	3093.3	2933.1	26166.	2992.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.865%	93.295%	93.188%	98.706%
Range				

Sample Name: 480-193467-C-4-A Acquired: 12/17/2021 17:54:47 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.03910**	**.00038**	**.03673**	**.06052**
Stddev	.00012	.00867	.00208	.00033	.00021
%RSD	110.54	22.166	554.12	.90864	.34954
#1	-.00002	.04523	.00185	.03697	.06067
#2	-.00019	.03297	-.00110	.03649	.06037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**138.28**	**.00025**	**-.0675**	**.00123**
Stddev	.00001	.85	.00023	.0218	.00001
%RSD	15.790	.61496	92.432	32.25	.59070
#1	-.00004	138.88	.00009	-.0828	.00122
#2	-.00005	137.67	.00041	-.0521	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00108**	**1.5567**	**1.9940**	**.01164**
Stddev	.00000	.00068	.0101	.0426	.00024
%RSD	84.459	62.972	.65088	2.1386	2.0822
#1	.00000	.00156	1.5638	2.0241	.01181
#2	.00000	.00060	1.5495	1.9638	.01147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-4-A Acquired: 12/17/2021 17:54:47 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.744**	**.87981**	**-.00074**	**34.487**	**-.00009**
Stddev	.061	.00309	.00018	.182	.00058
%RSD	.22737	.35087	24.381	.52779	673.33
#1	26.787	.88199	-.00087	34.616	.00032
#2	26.701	.87763	-.00061	34.358	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00028**	**46.933**	**.00031**	**.00446**
Stddev	.00	.00105	.007	.00372	.00044
%RSD	.0021	367.03	.01394	1206.9	9.8150
#1	25.01	.00045	46.928	.00294	.00477
#2	25.01	-.00102	46.937	-.00232	.00415
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5877**	**.00018**	**.51911**	**1.000**	**.00129**
Stddev	.0497	.00004	.00214	.005	.00030
%RSD	1.0837	21.945	.41259	.4753	23.133
#1	4.6229	.00015	.52063	1.004	.00108
#2	4.5526	.00021	.51760	.9969	.00150
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-4-A Acquired: 12/17/2021 17:54:47 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00087**	**-.00014**	**.00247**	**.9973**
Stddev	.00072	.00016	.00025	.0006
%RSD	83.018	111.15	10.277	.0628
#1	.00036	-.00003	.00265	.9978
#2	.00138	-.00025	.00229	.9969
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3221.4**	**2997.5**	**26584.**	**3008.8**
Stddev	2.1	4.2	21.	24.9
%RSD	.06405	.14128	.07785	.82658
#1	3220.0	2994.5	26598.	2991.2
#2	3222.9	3000.4	26569.	3026.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.316%	95.271%	94.697%	99.180%
Range				

Sample Name: 480-193467-C-5-A Acquired: 12/17/2021 17:58:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.01089**	**-.00076**	**.07729**	**.19585**
Stddev	.00081	.02484	.00020	.00045	.00031
%RSD	242.01	228.01	26.239	.58088	.15611
#1	.00024	-.00667	-.00090	.07697	.19607
#2	-.00091	.02846	-.00062	.07761	.19563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**136.23**	**.00059**	**-.0624**	**.00010**
Stddev	.00009	.57	.00004	.0504	.00019
%RSD	164.71	.41664	6.3178	80.79	192.26
#1	-.00001	136.64	.00057	-.0267	-.00004
#2	.00012	135.83	.00062	-.0980	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00063**	**.02324**	**3.4152**	**.01809**
Stddev	.00001	.00046	.00045	.0047	.00098
%RSD	.76082	73.024	1.9405	.13714	5.4214
#1	.00071	.00095	.02292	3.4185	.01740
#2	.00070	.00030	.02356	3.4119	.01879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-5-A Acquired: 12/17/2021 17:58:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.592**	**.02419**	**-.00019**	**24.042**	**.00056**
Stddev	.034	.00026	.00026	.101	.00007
%RSD	.07869	1.0770	135.64	.41885	12.335
#1	43.616	.02437	-.00037	24.113	.00051
#2	43.568	.02400	-.00001	23.971	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00094**	**8.5822**	**-.00041**	**-.00075**
Stddev	.00	.00095	.0098	.00092	.00120
%RSD	.0031	101.51	.11451	224.98	161.19
#1	25.01	.00161	8.5892	-.00105	.00010
#2	25.01	.00027	8.5753	.00024	-.00160
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.3342**	**-.00005**	**2.5370**	**.9978**	**.00169**
Stddev	.0634	.00035	.0081	.0004	.00033
%RSD	1.0009	678.27	.32074	.0428	19.227
#1	6.3790	.00020	2.5428	.9981	.00192
#2	6.2894	-.00030	2.5312	.9975	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-5-A Acquired: 12/17/2021 17:58:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00124**	**-.00059**	**.00470**	**.9987**
Stddev	.00167	.00023	.00010	.0000
%RSD	134.45	38.174	2.1109	.0047
#1	-.00006	-.00043	.00477	.9986
#2	-.00242	-.00075	.00463	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3205.3**	**3013.2**	**26864.**	**3106.0**
Stddev	6.8	4.1	1.	26.8
%RSD	.21365	.13736	.00212	.86441
#1	3200.5	3016.1	26864.	3087.1
#2	3210.2	3010.3	26864.	3125.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.865%	95.772%	95.696%	102.39%
Range				

Sample Name: 480-193467-C-5-B MS Acquired: 12/17/2021 18:02:14 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04784**	**10.145**	**.21487**	**.28441**	**.39168**
Stddev	.00020	.027	.00152	.00003	.00048
%RSD	.40908	.26923	.70853	.01181	.12218
#1	.04798	10.126	.21379	.28443	.39202
#2	.04770	10.164	.21594	.28438	.39134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21669**	**147.23**	**.19980**	**-.0519**	**.18845**
Stddev	.00001	.02	.00018	.0256	.00013
%RSD	.00490	.01383	.09103	49.43	.07153
#1	.21669	147.24	.19993	-.0337	.18836
#2	.21668	147.21	.19967	-.0700	.18855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19917**	**.19678**	**9.7443**	**13.256**	**.21862**
Stddev	.00046	.00183	.0384	.061	.00016
%RSD	.23009	.93007	.39462	.45751	.07360
#1	.19949	.19548	9.7171	13.213	.21873
#2	.19884	.19807	9.7715	13.299	.21850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-5-B MS Acquired: 12/17/2021 18:02:14 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**53.904**	**.22534**	**.20630**	**34.526**	**.19582**
Stddev	.109	.00022	.00028	.041	.00055
%RSD	.20146	.09805	.13811	.11849	.27866
#1	53.981	.22550	.20650	34.497	.19621
#2	53.828	.22518	.20610	34.555	.19544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.19659**	**18.396**	**.21222**	**.19836**
Stddev	.00	.00035	.046	.00126	.00291
%RSD	.0019	.17949	.25119	.59257	1.4663
#1	24.84	.19684	18.429	.21311	.20042
#2	24.84	.19634	18.364	.21133	.19631
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.993**	**.18895**	**2.7693**	**.9978**	**.20356**
Stddev	.005	.00022	.0070	.0058	.00073
%RSD	.03047	.11546	.25288	.5825	.35864
#1	15.989	.18911	2.7644	.9937	.20408
#2	15.996	.18880	2.7743	1.002	.20304
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-5-B MS Acquired: 12/17/2021 18:02:14 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20326**	**.20057**	**.20491**	**1.004**
Stddev	.00164	.00014	.00063	.001
%RSD	.80921	.06854	.30579	.0653
#1	.20442	.20067	.20536	1.005
#2	.20210	.20048	.20447	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3121.2**	**2986.1**	**26376.**	**3016.1**
Stddev	1.0	1.0	22.	21.2
%RSD	.03355	.03452	.08437	.70167
#1	3121.9	2986.8	26360.	3031.1
#2	3120.4	2985.3	26392.	3001.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.505%	94.909%	93.957%	99.422%
Range				

Sample Name: 480-193467-C-5-C MSD Acquired: 12/17/2021 18:05:49 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05120**	**10.202**	**.21818**	**.28832**	**.39788**
Stddev	.00107	.033	.00118	.00011	.00061
%RSD	2.0940	.32730	.54018	.03798	.15284
#1	.05044	10.178	.21735	.28824	.39745
#2	.05196	10.226	.21902	.28839	.39831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21935**	**148.47**	**.20415**	**-.0228**	**.19219**
Stddev	.00008	.23	.00005	.0183	.00025
%RSD	.03658	.15755	.02229	80.01	.13126
#1	.21930	148.63	.20412	-.0357	.19237
#2	.21941	148.30	.20418	-.0099	.19201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20221**	**.20054**	**9.9616**	**13.420**	**.22051**
Stddev	.00067	.00124	.0283	.044	.00179
%RSD	.32970	.62030	.28364	.32563	.81118
#1	.20269	.20142	9.9816	13.389	.22178
#2	.20174	.19966	9.9416	13.451	.21925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-5-C MSD Acquired: 12/17/2021 18:05:49 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**54.206**	**.22846**	**.21040**	**34.689**	**.19833**
Stddev	.094	.00008	.00062	.029	.00006
%RSD	.17283	.03337	.29689	.08251	.02788
#1	54.140	.22841	.20996	34.709	.19829
#2	54.272	.22852	.21084	34.669	.19837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.20033**	**18.493**	**.21487**	**.20322**
Stddev	.00	.00197	.012	.00128	.00022
%RSD	.0051	.98145	.06341	.59421	.10954
#1	24.84	.20172	18.502	.21577	.20337
#2	24.83	.19894	18.485	.21397	.20306
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.148**	**.19187**	**2.7889**	**1.003**	**.20653**
Stddev	.013	.00127	.0008	.000	.00044
%RSD	.07823	.66135	.02814	.0212	.21292
#1	16.157	.19097	2.7895	1.003	.20622
#2	16.139	.19276	2.7884	1.003	.20684
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-5-C MSD Acquired: 12/17/2021 18:05:49 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20557**	**.20348**	**.20944**	**1.001**
Stddev	.00187	.00111	.00064	.001
%RSD	.91071	.54693	.30475	.0748
#1	.20690	.20270	.20990	1.000
#2	.20425	.20427	.20899	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3112.2**	**2975.8**	**26564.**	**2995.1**
Stddev	4.9	6.4	60.	14.0
%RSD	.15812	.21536	.22713	.46744
#1	3115.7	2980.3	26607.	3005.0
#2	3108.7	2971.2	26521.	2985.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.254%	94.581%	94.628%	98.730%
Range				

Sample Name: 480-193467-C-6-A Acquired: 12/17/2021 18:09:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.11209**	**.00082**	**.07084**	**.02063**
Stddev	.00039	.01171	.00238	.00076	.00000
%RSD	101.61	10.447	291.04	1.0714	.02145
#1	.00066	.10381	-.00086	.07138	.02062
#2	.00011	.12037	.00250	.07031	.02063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**570.14**	**.00087**	**.0061**	**.00039**
Stddev	.00003	2.61	.00030	.0062	.00018
%RSD	51.030	.45694	34.933	101.0	45.762
#1	-.00004	571.98	.00109	.0105	.00027
#2	-.00009	568.30	.00066	.0018	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.00518**	**.19369**	**5.7155**	**.07313**
Stddev	.00007	.00052	.00454	.0177	.00107
%RSD	5.1208	9.9766	2.3458	.30999	1.4589
#1	.00134	.00482	.19690	5.7029	.07238
#2	.00144	.00555	.19047	5.7280	.07388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-6-A Acquired: 12/17/2021 18:09:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**125.29**	**.02569**	**-.00002**	**18.703**	**.00504**
Stddev	.08	.00010	.00010	.005	.00015
%RSD	.06164	.37869	511.82	.02520	3.0252
#1	125.35	.02563	-.00009	18.700	.00515
#2	125.24	.02576	.00005	18.707	.00493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00637**	F **551.05**	**-.00153**	**-.00030**
Stddev	.00	.00042	1.48	.00053	.00250
%RSD	.0021	6.5385	.26855	34.506	840.68
#1	25.01	.00667	552.09	-.00116	-.00207
#2	25.01	.00608	550.00	-.00190	.00147
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7842**	**.00001**	**6.4888**	**.9907**	**.00546**
Stddev	.0124	.00040	.0231	.0051	.00054
%RSD	.44453	2884.7	.35614	.5102	9.9293
#1	2.7755	.00030	6.5052	.9942	.00584
#2	2.7930	-.00027	6.4725	.9871	.00507
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-6-A Acquired: 12/17/2021 18:09:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00112**	**-.00054**	**.04156**	**.9990**
Stddev	.00108	.00073	.00003	.0002
%RSD	96.107	134.35	.07117	.0249
#1	-.00036	-.00003	.04158	.9988
#2	-.00189	-.00106	.04154	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2909.2**	**2818.4**	**25311.**	**2969.6**
Stddev	.1	2.8	110.	3.0
%RSD	.00292	.09953	.43423	.10005
#1	2909.1	2816.4	25388.	2967.5
#2	2909.2	2820.3	25233.	2971.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.562%	89.579%	90.162%	97.888%
Range				

Sample Name: 480-193467-C-7-A Acquired: 12/17/2021 18:13:19 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.06118**	**-.00094**	**.07673**	**.01799**
Stddev	.00105	.00200	.00171	.00068	.00005
%RSD	1187.4	3.2652	181.46	.88811	.27704
#1	.00065	.06260	.00027	.07625	.01796
#2	-.00083	.05977	-.00215	.07721	.01803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**418.29**	**.00044**	**-.0267**	**.00016**
Stddev	.00009	.61	.00030	.0057	.00003
%RSD	320.68	.14695	68.208	21.24	20.885
#1	-.00009	417.86	.00065	-.0227	.00018
#2	.00004	418.73	.00023	-.0307	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00297**	**.87244**	**5.0005**	**.04713**
Stddev	.00013	.00035	.00013	.0659	.00004
%RSD	22.082	11.754	.01433	1.3189	.08285
#1	.00069	.00322	.87253	5.0472	.04716
#2	.00050	.00272	.87235	4.9539	.04711
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-7-A Acquired: 12/17/2021 18:13:19 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**78.116**	**.07056**	**-.00050**	**12.335**	**.00184**
Stddev	.231	.00005	.00031	.016	.00063
%RSD	.29631	.06613	61.519	.12993	33.962
#1	77.952	.07052	-.00071	12.346	.00140
#2	78.279	.07059	-.00028	12.323	.00229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00246**	F **292.30**	**-.00127**	**.00105**
Stddev	.00	.00008	.47	.00168	.00049
%RSD	.0079	3.1029	.15989	132.02	46.648
#1	25.01	.00251	291.97	-.00008	.00139
#2	25.01	.00240	292.63	-.00245	.00070
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9002**	**.00002**	**4.1155**	**.9924**	**.00392**
Stddev	.0518	.00011	.0043	.0078	.00001
%RSD	.65547	582.35	.10332	.7859	.33767
#1	7.9368	.00009	4.1186	.9979	.00393
#2	7.8636	-.00006	4.1125	.9869	.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193467-C-7-A Acquired: 12/17/2021 18:13:19 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00044**	**-.00069**	**.02620**	**.9986**
Stddev	.00087	.00007	.00025	.0004
%RSD	196.13	9.4602	.95813	.0376
#1	-.00106	-.00074	.02638	.9984
#2	.00017	-.00065	.02602	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3010.0**	**2886.9**	**25797.**	**3007.7**
Stddev	4.2	.5	20.	6.9
%RSD	.14008	.01676	.07749	.22791
#1	3007.0	2886.6	25783.	3002.8
#2	3013.0	2887.3	25812.	3012.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.388%	91.758%	91.896%	99.143%
Range				

Sample Name: 480-193466-D-1-A Acquired: 12/17/2021 18:17:08 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**1.3616**	**-.00170**	**.00494**	**.02521**
Stddev	.00043	.0193	.00236	.00005	.00002
%RSD	74.908	1.4168	138.69	1.0443	.08215
#1	-.00088	1.3752	-.00338	.00498	.02523
#2	-.00027	1.3479	-.00003	.00491	.02520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**8.6335**	**.00010**	**-.0230**	**.00039**
Stddev	.00006	.0409	.00021	.0218	.00006
%RSD	29.421	.47414	210.86	94.51	15.322
#1	.00017	8.6624	.00024	-.0076	.00043
#2	.00026	8.6045	-.00005	-.0384	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00994**	**.01167**	**1.0146**	**1.8409**	**.00419**
Stddev	.00022	.00071	.0122	.0749	.00132
%RSD	2.1834	6.0623	1.2000	4.0674	31.611
#1	.01009	.01117	1.0232	1.8938	.00512
#2	.00979	.01217	1.0060	1.7879	.00325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193466-D-1-A Acquired: 12/17/2021 18:17:08 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2846**	**.08880**	**-.00063**	**40.895**	**.00087**
Stddev	.0118	.00013	.00002	.169	.00014
%RSD	.91972	.14563	2.4112	.41278	16.623
#1	1.2762	.08889	-.00062	41.015	.00097
#2	1.2929	.08871	-.00064	40.776	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00009**	**2.4132**	**-.00137**	**-.00159**
Stddev	.00	.00012	.0014	.00190	.00047
%RSD	.0010	137.00	.05913	139.17	29.579
#1	25.03	.00000	2.4142	-.00272	-.00126
#2	25.03	.00017	2.4122	-.00002	-.00193
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8715**	**.00041**	**.05162**	**.9949**	**.04463**
Stddev	.0357	.00009	.00025	.0037	.00084
%RSD	.92090	22.457	.49178	.3754	1.8741
#1	3.8967	.00034	.05180	.9976	.04522
#2	3.8463	.00047	.05144	.9923	.04403
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193466-D-1-A Acquired: 12/17/2021 18:17:08 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00166**	**.00855**	**.9982**
Stddev	.00033	.00006	.00027	.0003
%RSD	191.46	3.6867	3.1067	.0339
#1	-.00006	.00171	.00873	.9984
#2	.00040	.00162	.00836	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3407.3**	**3107.6**	**27693.**	**3107.5**
Stddev	3.8	2.3	8.	2.8
%RSD	.11071	.07387	.02824	.09049
#1	3404.6	3106.0	27699.	3105.6
#2	3409.9	3109.2	27687.	3109.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.527%	98.771%	98.649%	102.44%
Range				

Sample Name: 480-193464-A-1-A Acquired: 12/17/2021 18:20:52 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.13585**	**.00001**	**.01560**	**.05732**
Stddev	.00005	.01311	.00025	.00022	.00019
%RSD	9.4727	9.6531	1745.5	1.3891	.32467
#1	.00050	.14512	-.00016	.01576	.05719
#2	.00057	.12657	.00019	.01545	.05745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**24.706**	**.00086**	**.0115**	**.00396**
Stddev	.00002	.082	.00008	.0433	.00005
%RSD	77.674	.33079	9.6993	377.5	1.3196
#1	.00005	24.648	.00092	-.0191	.00400
#2	.00001	24.763	.00080	.0421	.00393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00169**	**.70693**	**41.021**	**2.3191**	**-.00054**
Stddev	.00007	.00258	.133	.0096	.00464
%RSD	4.3099	.36481	.32363	.41549	860.93
#1	.00163	.70511	40.927	2.3259	-.00382
#2	.00174	.70876	41.115	2.3122	.00274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193464-A-1-A Acquired: 12/17/2021 18:20:52 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4503**	**.09407**	**-.00046**	**92.161**	**3.1350**
Stddev	.0220	.00021	.00015	.213	.0071
%RSD	.49379	.22415	32.120	.23063	.22759
#1	4.4348	.09392	-.00057	92.011	3.1400
#2	4.4659	.09422	-.00036	92.311	3.1299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.46**	**.33732**	**9.7383**	**.00450**	**.00156**
Stddev	.00	.00135	.0002	.00134	.00124
%RSD	.0067	.40157	.00168	29.693	79.566
#1	24.46	.33636	9.7385	.00545	.00243
#2	24.47	.33827	9.7382	.00356	.00068
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5868**	**.00771**	**.12251**	**1.024**	**.00034**
Stddev	.0244	.00035	.00018	.002	.00018
%RSD	.53259	4.5724	.14847	.2225	52.355
#1	4.5695	.00796	.12238	1.022	.00047
#2	4.6041	.00746	.12264	1.025	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193464-A-1-A Acquired: 12/17/2021 18:20:52 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00243**	**.00085**	**4.5250**	**.9986**
Stddev	.00036	.00025	.0109	.0008
%RSD	14.921	29.031	.24058	.0823
#1	-.00217	.00103	4.5173	.9991
#2	-.00268	.00068	4.5327	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3246.1**	**3036.1**	**26868.**	**3023.0**
Stddev	.5	3.0	15.	25.6
%RSD	.01606	.09960	.05548	.84759
#1	3245.7	3038.2	26858.	3041.1
#2	3246.4	3033.9	26879.	3004.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.007%	96.498%	95.710%	99.650%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 18:24:34 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99850**	**50.724**	**1.0115**	**1.0330**	**1.0038**
Stddev	.00215	.122	.0035	.0016	.0010
%RSD	.21560	.24093	.35012	.15655	.09871
#1	1.0000	50.638	1.0140	1.0319	1.0045
#2	.99697	50.811	1.0090	1.0342	1.0031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0253**	**50.062**	**.99455**	**1.062**	**.96822**
Stddev	.0004	.064	.00186	.027	.00075
%RSD	.04223	.12743	.18720	2.577	.07780
#1	1.0256	50.017	.99323	1.043	.96875
#2	1.0250	50.107	.99587	1.081	.96768
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0125**	**.99174**	**50.189**	**49.811**	**1.0107**
Stddev	.0057	.00169	.144	.027	.0017
%RSD	.55856	.17078	.28685	.05411	.17203
#1	1.0165	.99294	50.291	49.830	1.0119
#2	1.0085	.99054	50.087	49.792	1.0094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 18:24:34 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.312**	**1.0043**	**1.0164**	**50.526**	**.99173**
Stddev	.086	.0031	.0015	.058	.00133
%RSD	.17371	.30999	.14463	.11563	.13419
#1	49.372	1.0065	1.0154	50.568	.99268
#2	49.251	1.0021	1.0175	50.485	.99079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.43**	**.97620**	**24.650**	**.99069**	**.99771**
Stddev	.01	.00234	.005	.00501	.00535
%RSD	.0237	.24019	.02182	.50522	.53636
#1	37.42	.97786	24.646	.98715	1.0015
#2	37.44	.97454	24.654	.99423	.99392
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.099**	**.97400**	**1.0178**	**1.515**	**1.0023**
Stddev	.078	.00031	.0028	.004	.0008
%RSD	.77301	.03207	.27214	.2433	.08334
#1	10.044	.97378	1.0197	1.512	1.0029
#2	10.155	.97422	1.0158	1.517	1.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 18:24:34 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0003**	**1.0053**	**1.0172**	**1.518**
Stddev	.0012	.0020	.0063	.001
%RSD	.11679	.20324	.62073	.0540
#1	1.0011	1.0067	1.0217	1.519
#2	.99949	1.0039	1.0128	1.518
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3095.6**	**3008.8**	**26383.**	**2937.1**
Stddev	5.8	.5	305.	10.0
%RSD	.18775	.01572	1.1555	.33893
#1	3091.5	3009.1	26167.	2944.1
#2	3099.7	3008.5	26598.	2930.1

Sample Name: CCB-6819143 Acquired: 12/17/2021 18:28:07 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.03217**	**.00050**	**-.00234**	**.00003**
Stddev	.00027	.01458	.00014	.00007	.00001
%RSD	81.568	45.304	27.195	2.9297	24.072
#1	-.00051	-.04248	.00040	-.00229	.00003
#2	-.00014	-.02187	.00060	-.00239	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00006**	**-.00010**	**-.0516**	**-.00011**
Stddev	.00000	.00145	.00011	.0026	.00011
%RSD	25.886	2278.8	111.99	4.983	103.72
#1	.00002	-.00109	-.00018	-.0534	-.00003
#2	.00002	.00096	-.00002	-.0498	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00031**	**.00109**	**-.07127**	**-.00251**
Stddev	.00008	.00014	.00070	.01307	.00012
%RSD	78.958	45.605	63.712	18.338	4.7186
#1	.00005	.00041	.00060	-.06203	-.00243
#2	.00016	.00021	.00158	-.08051	-.00260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 18:28:07 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00004**	**.00073**	**-.01154**	**-.00021**
Stddev	.00153	.00001	.00009	.00590	.00032
%RSD	481.31	12.739	12.912	51.145	153.14
#1	.00140	.00004	.00066	-.00737	-.00043
#2	-.00076	.00005	.00080	-.01572	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00028**	**.00833**	**-.00066**	**-.00087**
Stddev	.00	.00011	.00038	.00043	.00025
%RSD	.0036	39.537	4.5198	64.850	28.999
#1	25.01	-.00035	.00807	-.00035	-.00105
#2	25.01	-.00020	.00860	-.00096	-.00069
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00262**	**.00027**	**.00005**	**.9976**	**-.00020**
Stddev	.01291	.00046	.00019	.0050	.00015
%RSD	493.13	174.11	346.41	.4981	74.148
#1	.01175	.00060	-.00008	1.001	-.00030
#2	-.00651	-.00006	.00019	.9941	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 18:28:07 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00053**	**-.00009**	**.00016**	**.9989**
Stddev	.00033	.00011	.00052	.0001
%RSD	63.278	120.34	332.50	.0063
#1	.00029	-.00017	-.00021	.9989
#2	.00076	-.00001	.00052	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3592.6**	**3112.8**	**27929.**	**3009.3**
Stddev	1.7	4.8	133.	2.3
%RSD	.04689	.15357	.47584	.07706
#1	3591.4	3116.1	28023.	3007.7
#2	3593.7	3109.4	27835.	3011.0

Sample Name: CCVL-6819272 Acquired: 12/17/2021 18:31:57 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00619**	**.19882**	**.01213**	**.01678**	**.00205**
Stddev	.00005	.03380	.00194	.00028	.00001
%RSD	.76415	17.001	15.968	1.6663	.45504
#1	.00616	.22272	.01350	.01658	.00205
#2	.00622	.17492	.01076	.01698	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.49757**	**.00195**	**.0477**	**.00348**
Stddev	.00006	.00295	.00022	.0214	.00004
%RSD	2.7184	.59298	11.325	44.83	1.1286
#1	.00213	.49966	.00179	.0628	.00351
#2	.00204	.49549	.00210	.0326	.00345
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**.01067**	**.05127**	**.43429**	**.02947**
Stddev	.00030	.00019	.00196	.00718	.00045
%RSD	7.7754	1.7620	3.8315	1.6540	1.5257
#1	.00408	.01080	.04988	.43937	.02978
#2	.00366	.01054	.05266	.42921	.02915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 18:31:57 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19348**	**.00310**	**.00988**	**.96996**	**.00943**
Stddev	.00789	.00005	.00008	.01249	.00008
%RSD	4.0795	1.4600	.79920	1.2880	.88848
#1	.19907	.00307	.00994	.97880	.00937
#2	.18790	.00313	.00983	.96113	.00948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00964**	**.18877**	**.01828**	**.02211**
Stddev	.00	.00018	.00326	.00233	.00033
%RSD	.0082	1.8756	1.7250	12.719	1.4906
#1	25.00	.00977	.19107	.01993	.02188
#2	25.00	.00951	.18647	.01664	.02234
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45689**	**.00888**	**.00507**	F **.9937**	**.00489**
Stddev	.00149	.00005	.00001	.0036	.00007
%RSD	.32632	.56394	.22543	.3609	1.4624
#1	.45794	.00884	.00508	.9962	.00484
#2	.45583	.00891	.00506	.9911	.00494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 18:31:57 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	.01921	.00492	.00992	F .9985
Stddev	.00161	.00023	.00020	.0004
%RSD	8.3656	4.6613	1.9865	.0415
#1	.02035	.00508	.01005	.9983
#2	.01808	.00476	.00978	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3596.6	3153.3	28231.	3081.5
Stddev	11.4	9.3	143.	24.7
%RSD	.31563	.29552	.50538	.80189
#1	3604.6	3159.8	28332.	3099.0
#2	3588.5	3146.7	28130.	3064.0

Sample Name: 480-193464-A-2-A Acquired: 12/17/2021 18:35:44 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**.09785**	**-.00039**	**.43363**	**.12283**
Stddev	.00058	.01051	.00100	.00056	.00005
%RSD	66.776	10.737	255.89	.12985	.03967
#1	.00129	.09042	.00031	.43323	.12280
#2	.00046	.10528	-.00109	.43403	.12287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**31.132**	**.00029**	**.0182**	**.00048**
Stddev	.00016	.118	.00008	.0695	.00008
%RSD	350.04	.37858	28.457	381.3	15.853
#1	.00016	31.049	.00035	-.0309	.00053
#2	-.00007	31.215	.00023	.0673	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02556**	**.10978**	**6.2704**	**5.3008**	**.00882**
Stddev	.00006	.00089	.0242	.0833	.00020
%RSD	.23813	.80682	.38655	1.5706	2.2872
#1	.02552	.10915	6.2533	5.2420	.00868
#2	.02560	.11041	6.2875	5.3597	.00896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193464-A-2-A Acquired: 12/17/2021 18:35:44 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0901**	**.08210**	**.12850**	**255.34**	**.05097**
Stddev	.0030	.00012	.00058	.73	.00022
%RSD	.04952	.14924	.45369	.28448	.42481
#1	6.0879	.08219	.12891	254.83	.05112
#2	6.0922	.08201	.12809	255.85	.05081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.61**	**.00248**	**66.785**	**.00293**	**.00023**
Stddev	.00	.00064	.078	.00066	.00059
%RSD	.0076	25.918	.11703	22.553	260.13
#1	25.61	.00294	66.840	.00340	-.00019
#2	25.61	.00203	66.729	.00246	.00065
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6650**	**.00274**	**.16775**	**1.005**	**.00832**
Stddev	.0035	.00006	.00005	.005	.00054
%RSD	.13105	2.0395	.02721	.4829	6.5068
#1	2.6626	.00278	.16778	1.002	.00794
#2	2.6675	.00270	.16772	1.008	.00870
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193464-A-2-A Acquired: 12/17/2021 18:35:44 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00045**	**.68157**	**.9985**
Stddev	.00037	.00008	.00335	.0010
%RSD	107.25	17.350	.49202	.1036
#1	.00061	.00039	.68394	.9992
#2	.00008	.00050	.67919	.9977
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3130.7**	**2977.4**	**26046.**	**3020.6**
Stddev	5.1	6.1	113.	15.5
%RSD	.16325	.20519	.43229	.51293
#1	3134.3	2981.7	25967.	3031.6
#2	3127.1	2973.0	26126.	3009.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.772%	94.632%	92.783%	99.570%
Range				

Sample Name: 480-193484-B-1-A Acquired: 12/17/2021 18:39:29 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.85727**	**.00070**	**.02063**	**.02856**
Stddev	.00083	.01354	.00278	.00025	.00005
%RSD	844.04	1.5794	395.72	1.2097	.16442
#1	.00049	.84770	.00267	.02080	.02852
#2	-.00068	.86685	-.00127	.02045	.02859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**33.614**	**.00012**	**.0141**	**.00023**
Stddev	.00013	.124	.00025	.0693	.00021
%RSD	47834.	.36757	207.04	492.3	89.066
#1	.00009	33.527	-.00006	.0631	.00009
#2	-.00009	33.702	.00030	-.0349	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.00110**	**.63485**	**1.7611**	**.00179**
Stddev	.00016	.00026	.00007	.0320	.00070
%RSD	11.406	23.303	.01025	1.8145	39.208
#1	.00150	.00128	.63480	1.7837	.00129
#2	.00128	.00092	.63489	1.7385	.00228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193484-B-1-A Acquired: 12/17/2021 18:39:29 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5679**	**.01686**	**.00082**	**11.989**	**.00139**
Stddev	.0257	.00001	.00016	.054	.00052
%RSD	.30058	.06445	20.015	.44898	37.428
#1	8.5861	.01687	.00071	11.951	.00175
#2	8.5496	.01685	.00094	12.027	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00073**	**6.6906**	**-.00236**	**-.00110**
Stddev	.00	.00005	.0079	.00091	.00159
%RSD	.0025	7.3137	.11762	38.437	144.72
#1	25.02	.00076	6.6851	-.00172	-.00222
#2	25.02	.00069	6.6962	-.00300	.00003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3091**	**.00051**	**.15788**	**1.000**	**.02255**
Stddev	.0143	.00020	.00043	.004	.00088
%RSD	.61727	38.093	.27486	.4461	3.9029
#1	2.2990	.00065	.15757	1.003	.02193
#2	2.3191	.00037	.15819	.9969	.02317
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193484-B-1-A Acquired: 12/17/2021 18:39:29 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00214**	**.00325**	**.9986**
Stddev	.00135	.00024	.00018	.0007
%RSD	883.89	11.252	5.3843	.0681
#1	-.00111	.00231	.00337	.9981
#2	.00080	.00197	.00313	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3428.6**	**3088.8**	**27719.**	**3038.4**
Stddev	3.6	.9	40.	16.6
%RSD	.10439	.03012	.14530	.54774
#1	3426.1	3089.5	27690.	3050.2
#2	3431.1	3088.2	27747.	3026.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.125%	98.175%	98.741%	100.16%
Range				

Sample Name: 480-193488-B-1-A Acquired: 12/17/2021 18:43:14 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**1.1311**	**-.00025**	**.03158**	**.03045**
Stddev	.00011	.0053	.00048	.00028	.00005
%RSD	14.502	.47131	193.46	.89057	.17881
#1	.00080	1.1349	-.00059	.03139	.03049
#2	.00065	1.1274	.00009	.03178	.03041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**35.109**	**.00011**	**-.0342**	**.00033**
Stddev	.00016	.120	.00022	.0267	.00002
%RSD	280.06	.34117	197.63	78.06	6.3925
#1	-.00006	35.025	.00027	-.0530	.00032
#2	.00017	35.194	-.00004	-.0153	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00134**	**.00414**	**.84817**	**2.1702**	**.00363**
Stddev	.00031	.00063	.00798	.0192	.00010
%RSD	23.251	15.186	.94105	.88294	2.7709
#1	.00112	.00370	.84252	2.1566	.00356
#2	.00156	.00459	.85381	2.1837	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193488-B-1-A Acquired: 12/17/2021 18:43:14 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6906**	**.02198**	**.00087**	**29.106**	**.00183**
Stddev	.0455	.00002	.00010	.105	.00006
%RSD	.52337	.08928	11.820	.36159	3.1875
#1	8.7228	.02199	.00080	29.032	.00188
#2	8.6585	.02196	.00095	29.181	.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00046**	**7.9452**	**.00006**	**-.00307**
Stddev	.00	.00129	.0269	.00299	.00218
%RSD	.0009	278.37	.33831	4769.7	71.197
#1	25.02	-.00045	7.9262	.00218	-.00152
#2	25.02	.00138	7.9642	-.00205	-.00461
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8654**	**.00022**	**.17042**	**1.004**	**.02662**
Stddev	.0282	.00012	.00047	.001	.00332
%RSD	.98461	55.261	.27599	.1276	12.465
#1	2.8454	.00031	.17008	1.005	.02896
#2	2.8853	.00014	.17075	1.003	.02427
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193488-B-1-A Acquired: 12/17/2021 18:43:14 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00267**	**.01023**	**.9992**
Stddev	.00079	.00011	.00035	.0004
%RSD	274.64	4.3111	3.3750	.0361
#1	.00027	.00259	.01048	.9994
#2	-.00085	.00275	.00999	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3377.6**	**3076.4**	**27452.**	**3040.0**
Stddev	3.7	.9	134.	8.9
%RSD	.11021	.02926	.48747	.29159
#1	3374.9	3077.0	27358.	3033.7
#2	3380.2	3075.7	27547.	3046.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.694%	97.779%	97.791%	100.21%
Range				

Sample Name: 480-193486-D-1-A Acquired: 12/17/2021 18:46:58 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.01679**	**.00205**	**.22037**	**.05804**
Stddev	.00156	.03130	.00004	.00002	.00012
%RSD	4642.5	186.44	2.0583	.00874	.19863
#1	-.00114	.03892	.00202	.22036	.05812
#2	.00107	-.00535	.00208	.22038	.05796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**103.46**	**.00054**	**-.0215**	**-.00050**
Stddev	.00005	.30	.00019	.0333	.00000
%RSD	165.39	.28671	34.585	154.5	.82867
#1	.00001	103.25	.00041	-.0451	-.00051
#2	-.00007	103.67	.00068	.0020	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**.01243**	**.06992**	**10.813**	**.02747**
Stddev	.00022	.00043	.00046	.054	.00077
%RSD	19.686	3.4761	.65248	.49787	2.8040
#1	.00097	.01274	.07024	10.775	.02692
#2	.00128	.01213	.06960	10.851	.02801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193486-D-1-A Acquired: 12/17/2021 18:46:58 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.372**	**.00500**	**.02946**	F **1343.3**	**.00090**
Stddev	.003	.00004	.00015	6.3	.00007
%RSD	.01047	.73800	.50074	.46749	8.1443
#1	25.370	.00498	.02957	1338.9	.00095
#2	25.374	.00503	.02936	1347.8	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.82**	**.00024**	**77.615**	**-.00189**	**.00303**
Stddev	.00	.00162	.068	.00515	.00333
%RSD	.0004	678.91	.08697	272.37	109.96
#1	25.82	-.00090	77.568	-.00553	.00067
#2	25.82	.00138	77.663	.00175	.00538
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3071**	**.00038**	**.78126**	**1.002**	**.00208**
Stddev	.0150	.00011	.00264	.004	.00006
%RSD	.17994	28.131	.33792	.4200	2.8837
#1	8.2966	.00030	.77939	1.005	.00212
#2	8.3177	.00045	.78312	.9990	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193486-D-1-A Acquired: 12/17/2021 18:46:58 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00250**	**.10904**	**.9975**
Stddev	.00094	.00018	.00019	.0024
%RSD	328.25	7.2154	.17296	.2437
#1	-.00096	.00237	.10891	.9992
#2	.00038	.00263	.10918	.9958
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2727.3**	**2762.3**	**23832.**	**2924.4**
Stddev	5.6	.3	48.	1.9
%RSD	.20373	.01032	.20321	.06569
#1	2723.3	2762.1	23797.	2923.1
#2	2731.2	2762.5	23866.	2925.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.462%	87.796%	84.894%	96.399%
Range				

Sample Name: 480-193490-D-1-A Acquired: 12/17/2021 18:50:46 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.63645**	**-.00013**	**.03880**	**.03788**
Stddev	.00060	.00175	.00150	.00055	.00007
%RSD	104.10	.27445	1190.1	1.4119	.17715
#1	.00015	.63768	-.00119	.03919	.03793
#2	.00100	.63521	.00093	.03841	.03784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**43.189**	**.00032**	**-.0048**	**.00058**
Stddev	.00001	.513	.00003	.0586	.00008
%RSD	30.370	1.1888	10.671	1223.	14.581
#1	.00003	42.826	.00030	-.0463	.00052
#2	.00002	43.552	.00035	.0367	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00297**	**.05842**	**1.9087**	**24.294**	**.00600**
Stddev	.00026	.00010	.0285	.300	.00317
%RSD	8.6822	.17470	1.4914	1.2362	52.887
#1	.00315	.05849	1.8885	24.082	.00824
#2	.00279	.05835	1.9288	24.506	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193490-D-1-A Acquired: 12/17/2021 18:50:46 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.793**	**.05866**	**.00230**	**70.629**	**.00409**
Stddev	.034	.00001	.00005	1.319	.00040
%RSD	.31157	.01662	2.1810	1.8673	9.8356
#1	10.817	.05865	.00234	69.697	.00438
#2	10.769	.05866	.00227	71.562	.00381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.99**	**.00106**	**15.291**	**.00243**	**.00383**
Stddev	.01	.00163	.015	.00019	.00363
%RSD	.0206	154.81	.09577	7.8176	94.917
#1	29.98	-.00010	15.281	.00256	.00640
#2	29.99	.00221	15.302	.00229	.00126
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8178**	**.00247**	**.19622**	**.9976**	**.01253**
Stddev	.0317	.00047	.00201	.0011	.00139
%RSD	1.7462	19.028	1.0242	.1121	11.094
#1	1.7953	.00280	.19480	.9984	.01352
#2	1.8402	.00214	.19764	.9968	.01155
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193490-D-1-A Acquired: 12/17/2021 18:50:46 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00183**	**.21447**	**.9984**
Stddev	.00006	.00025	.00018	.0007
%RSD	15.254	13.629	.08481	.0660
#1	.00041	.00166	.21434	.9988
#2	.00033	.00201	.21460	.9979
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3284.5**	**3066.8**	**27675.**	**3159.5**
Stddev	20.1	25.4	130.	22.1
%RSD	.61339	.82844	.46907	.69917
#1	3298.8	3084.8	27583.	3175.1
#2	3270.3	3048.8	27766.	3143.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.086%	97.475%	98.583%	104.15%
Range				

Sample Name: 480-193449-G-1-A Acquired: 12/17/2021 18:54:29 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00076**	**.00477**	**4.8379**	**.05815**
Stddev	.00127	.00800	.00139	.0111	.00007
%RSD	3164.0	1055.7	29.169	.22833	.12245
#1	.00094	.00490	.00379	4.8301	.05810
#2	-.00086	-.00641	.00575	4.8457	.05820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**71.979**	**.00034**	**-.0345**	**.00742**
Stddev	.00005	.519	.00012	.0162	.00005
%RSD	124.48	.72160	35.171	46.90	.63493
#1	-.00001	71.612	.00043	-.0231	.00745
#2	-.00008	72.346	.00026	-.0460	.00739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01192**	**.00559**	**3.7903**	**123.12**	**.01076**
Stddev	.00011	.00073	.0095	.88	.00067
%RSD	.90146	13.045	.25087	.71223	6.2616
#1	.01200	.00508	3.7836	122.50	.01124
#2	.01185	.00611	3.7971	123.74	.01028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193449-G-1-A Acquired: 12/17/2021 18:54:29 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.717**	**.24774**	**.00604**	**405.40**	**.06320**
Stddev	.138	.00039	.00028	2.70	.00012
%RSD	.43445	.15863	4.5629	.66645	.19705
#1	31.620	.24746	.00584	403.49	.06329
#2	31.815	.24802	.00623	407.31	.06312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.27**	**.00184**	**18.936**	**.00133**	**.00307**
Stddev	.00	.00065	.035	.00068	.00319
%RSD	.0059	35.648	.18365	50.838	103.97
#1	25.27	.00230	18.911	.00181	.00532
#2	25.27	.00137	18.961	.00085	.00081
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1536**	**.00175**	**.37534**	**.9974**	**.00745**
Stddev	.0338	.00014	.00305	.0103	.00011
%RSD	.41459	8.2579	.81359	1.031	1.4268
#1	8.1297	.00165	.37318	1.005	.00753
#2	8.1775	.00185	.37750	.9901	.00738
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193449-G-1-A Acquired: 12/17/2021 18:54:29 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00073**	**.00301**	**.01467**	**.9999**
Stddev	.00046	.00034	.00016	.0002
%RSD	63.022	11.379	1.1135	.0152
#1	.00105	.00325	.01456	1.0000
#2	.00040	.00277	.01479	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2967.2**	**2907.6**	**25343.**	**2998.2**
Stddev	1.2	4.7	75.	13.9
%RSD	.04104	.16112	.29580	.46253
#1	2968.1	2910.9	25396.	3008.0
#2	2966.3	2904.3	25290.	2988.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.189%	92.416%	90.279%	98.832%
Range				

Sample Name: 480-193470-B-1-A Acquired: 12/17/2021 18:58:16 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**3.2507**	**.19306**	**1.8159**	**1.1541**
Stddev	.00016	.0036	.00074	.0017	.0000
%RSD	107.50	.11175	.38473	.09503	.00350
#1	-.00026	3.2533	.19359	1.8172	1.1541
#2	-.00004	3.2482	.19254	1.8147	1.1540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**125.13**	**.00086**	**-.0552**	**.01574**
Stddev	.00010	.08	.00014	.0072	.00031
%RSD	27.568	.06704	15.827	13.04	1.9600
#1	.00030	125.19	.00096	-.0603	.01595
#2	.00044	125.07	.00077	-.0501	.01552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13525**	**.08831**	**85.967**	**42.990**	**.15403**
Stddev	.00233	.00087	.038	.012	.00002
%RSD	1.7252	.98188	.04416	.02703	.01215
#1	.13690	.08893	85.941	42.982	.15402
#2	.13360	.08770	85.994	42.998	.15404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193470-B-1-A Acquired: 12/17/2021 18:58:16 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.446**	**3.1653**	**.03269**	**712.14**	**.17145**
Stddev	.156	.0092	.00014	.62	.00051
%RSD	.41531	.28950	.41790	.08639	.29488
#1	37.555	3.1718	.03278	712.57	.17181
#2	37.336	3.1588	.03259	711.70	.17110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.00**	**.06314**	**15.930**	**.02324**	**.01092**
Stddev	.00	.00009	.011	.00013	.00055
%RSD	.0148	.13920	.07055	.56052	5.0767
#1	26.00	.06320	15.938	.02315	.01053
#2	26.00	.06308	15.922	.02333	.01131
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.524**	**.00892**	**1.3995**	**1.042**	**.07422**
Stddev	.001	.00067	.0015	.001	.00601
%RSD	.00544	7.5152	.10811	.0777	8.0976
#1	22.525	.00844	1.4006	1.043	.07847
#2	22.523	.00939	1.3984	1.041	.06997
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193470-B-1-A Acquired: 12/17/2021 18:58:16 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00189**	**.01908**	**1.6044**	**1.006**
Stddev	.00050	.00001	.0038	.002
%RSD	26.655	.04377	.23717	.1610
#1	-.00154	.01909	1.6071	1.007
#2	-.00225	.01908	1.6017	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2799.0**	**2891.9**	**25182.**	**3051.4**
Stddev	.3	2.9	73.	14.4
%RSD	.00905	.10177	.29006	.47147
#1	2799.2	2889.8	25130.	3061.6
#2	2798.8	2894.0	25233.	3041.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.473%	91.916%	89.704%	100.59%
Range				

Sample Name: MB 480-609172/1-A Acquired: 12/17/2021 19:02:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.02526**	**.00036**	**.00184**	**.00006**
Stddev	.00002	.04222	.00149	.00035	.00002
%RSD	32.593	167.09	419.06	18.915	28.104
#1	-.00006	.00459	.00141	.00208	.00005
#2	-.00004	-.05512	-.00070	.00159	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.07836**	**.00004**	**-.0563**	**-.00009**
Stddev	.00005	.00101	.00009	.0132	.00010
%RSD	44.977	1.2833	216.45	23.52	113.88
#1	.00007	.07907	.00010	-.0657	-.00002
#2	.00014	.07765	-.00002	-.0469	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00037**	**.00083**	**.00686**	**-.00381**
Stddev	.00028	.00012	.00092	.01127	.00141
%RSD	256.89	31.895	111.00	164.21	36.943
#1	.00030	.00046	.00148	.01483	-.00480
#2	-.00009	.00029	.00018	-.00111	-.00281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-609172/1-A Acquired: 12/17/2021 19:02:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00329**	**.00025**	**-.00065**	**.08988**	**-.00038**
Stddev	.00324	.00002	.00030	.00038	.00036
%RSD	98.514	8.8725	45.872	.42198	95.441
#1	-.00100	.00024	-.00087	.09014	-.00063
#2	-.00558	.00027	-.00044	.08961	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00079**	**.00450**	**-.00099**	**-.00015**
Stddev	.00	.00037	.00166	.00214	.00044
%RSD	.0018	45.991	36.771	217.39	288.84
#1	25.01	-.00105	.00333	.00053	.00016
#2	25.01	-.00054	.00567	-.00250	-.00046
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01986**	**.00083**	**.00038**	**.9929**	**.00000**
Stddev	.01798	.00005	.00025	.0052	.00017
%RSD	90.514	5.4707	65.333	.5274	8725.0
#1	.03258	.00080	.00020	.9966	-.00012
#2	.00715	.00087	.00055	.9892	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-609172/1-A Acquired: 12/17/2021 19:02:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00079**	**-.00029**	**.00102**	**.9982**
Stddev	.00128	.00008	.00002	.0008
%RSD	161.43	27.078	1.7682	.0833
#1	-.00169	-.00034	.00101	.9976
#2	.00011	-.00023	.00103	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3630.1**	**3153.8**	**28171.**	**3058.0**
Stddev	5.9	1.0	73.	6.6
%RSD	.16386	.03051	.25747	.21557
#1	3625.9	3154.5	28120.	3053.3
#2	3634.3	3153.1	28222.	3062.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.77%	100.24%	100.35%	100.80%
Range				

Sample Name: LCS 480-609172/2-A Acquired: 12/17/2021 19:05:50 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04925**	**9.8458**	**.20469**	**.20190**	**.20493**
Stddev	.00053	.0356	.00014	.00026	.00036
%RSD	1.0821	.36183	.06707	.12697	.17352
#1	.04963	9.8710	.20479	.20171	.20519
#2	.04888	9.8206	.20459	.20208	.20468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20717**	**9.7825**	**.19756**	**-.0008**	**.18835**
Stddev	.00016	.0552	.00018	.0151	.00000
%RSD	.07709	.56403	.09269	1922.	.00158
#1	.20729	9.8215	.19743	-.0114	.18835
#2	.20706	9.7435	.19769	.0099	.18834
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19595**	**.19763**	**9.9628**	**9.7038**	**.19563**
Stddev	.00093	.00015	.0256	.0236	.00084
%RSD	.47488	.07766	.25690	.24297	.43019
#1	.19661	.19752	9.9809	9.6872	.19622
#2	.19529	.19774	9.9447	9.7205	.19503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-609172/2-A Acquired: 12/17/2021 19:05:50 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.141**	**.20423**	**.20366**	**9.6313**	**.19328**
Stddev	.005	.00079	.00011	.0040	.00067
%RSD	.04546	.38506	.05605	.04140	.34724
#1	10.144	.20479	.20374	9.6341	.19280
#2	10.137	.20367	.20358	9.6285	.19375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.83**	**.19360**	**9.4975**	**.21059**	**.19246**
Stddev	.00	.00079	.0010	.00044	.00027
%RSD	.0052	.40824	.01101	.20670	.14224
#1	24.83	.19304	9.4982	.21090	.19266
#2	24.83	.19416	9.4968	.21028	.19227
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3887**	**.18221**	**.19988**	**1.005**	**.19966**
Stddev	.0143	.00101	.00009	.003	.00083
%RSD	.15215	.55398	.04317	.2488	.41616
#1	9.3988	.18150	.19981	1.006	.20025
#2	9.3786	.18293	.19994	1.003	.19907
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-609172/2-A Acquired: 12/17/2021 19:05:50 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19973**	**.19655**	**.20538**	**1.003**
Stddev	.00085	.00061	.00180	.001
%RSD	.42673	.30846	.87828	.0881
#1	.19913	.19698	.20666	1.003
#2	.20033	.19612	.20410	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3435.5**	**3147.6**	**27911.**	**3122.8**
Stddev	3.0	1.8	106.	7.0
%RSD	.08759	.05664	.38002	.22354
#1	3437.6	3146.3	27836.	3127.7
#2	3433.3	3148.8	27986.	3117.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.317%	100.04%	99.427%	102.94%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 19:09:26 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99335**	**50.490**	**1.0302**	**1.0389**	**1.0010**
Stddev	.00532	.122	.0009	.0015	.0062
%RSD	.53547	.24188	.08979	.14835	.62304
#1	.99711	50.404	1.0309	1.0378	.99655
#2	.98959	50.577	1.0296	1.0399	1.0054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0277**	**50.007**	**.98841**	**1.052**	**.96402**
Stddev	.0032	.130	.00074	.031	.00077
%RSD	.31237	.25953	.07485	2.926	.07956
#1	1.0254	49.915	.98893	1.031	.96456
#2	1.0299	50.099	.98788	1.074	.96348
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0185**	**.98642**	**50.106**	**49.551**	**1.0096**
Stddev	.0010	.00051	.150	.124	.0030
%RSD	.09727	.05132	.29976	.25097	.29277
#1	1.0192	.98678	50.000	49.463	1.0075
#2	1.0178	.98606	50.213	49.639	1.0117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 19:09:26 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.052**	**1.0103**	**1.0216**	**50.522**	**1.0012**
Stddev	.108	.0020	.0006	.210	.0004
%RSD	.21585	.20212	.06030	.41501	.04485
#1	50.129	1.0118	1.0220	50.374	1.0009
#2	49.976	1.0089	1.0212	50.670	1.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.53**	**.97312**	**24.818**	**.99339**	**1.0120**
Stddev	.01	.00287	.047	.00282	.0021
%RSD	.0300	.29449	.18922	.28417	.20833
#1	37.54	.97515	24.852	.99539	1.0105
#2	37.52	.97110	24.785	.99140	1.0135
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.025**	**.97718**	**1.0175**	**1.509**	**1.0001**
Stddev	.099	.00094	.0059	.003	.0021
%RSD	.98389	.09580	.57846	.2276	.21034
#1	9.9551	.97785	1.0134	1.511	1.0016
#2	10.095	.97652	1.0217	1.506	.99862
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 19:09:26 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0051**	**1.0092**	**1.0281**	**1.519**
Stddev	.0002	.0010	.0021	.003
%RSD	.01990	.09815	.20586	.2095
#1	1.0052	1.0099	1.0296	1.517
#2	1.0049	1.0085	1.0266	1.521
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3108.3**	**3018.4**	**26381.**	**2991.4**
Stddev	3.7	2.8	22.	10.3
%RSD	.11875	.09388	.08522	.34291
#1	3105.7	3016.4	26365.	2998.6
#2	3110.9	3020.4	26396.	2984.1

Sample Name: CCB-6819143 Acquired: 12/17/2021 19:13:00 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.01465**	**.00003**	**-.00039**	**.00006**
Stddev	.00036	.03065	.00192	.00045	.00004
%RSD	53.964	209.17	6352.9	114.13	64.449
#1	.00091	-.03633	-.00133	-.00008	.00003
#2	.00041	.00702	.00139	-.00071	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00075**	**-.00004**	**-.0102**	**.00001**
Stddev	.00010	.00294	.00009	.0169	.00002
%RSD	549.28	394.58	238.00	166.7	111.71
#1	-.00009	-.00283	-.00010	.0018	.00002
#2	.00005	.00133	.00003	-.0221	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00095**	**-.00135**	**-.07108**	**-.00256**
Stddev	.00014	.00012	.00106	.02939	.00052
%RSD	74.755	12.866	78.195	41.352	20.277
#1	.00028	-.00087	-.00210	-.09187	-.00219
#2	.00009	-.00104	-.00060	-.05030	-.00293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 19:13:00 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00132**	**-.00004**	**.00085**	**.02406**	**.00000**
Stddev	.00092	.00007	.00037	.03607	.00001
%RSD	69.647	190.42	43.407	149.96	278.19
#1	-.00067	.00001	.00059	.04956	.00001
#2	-.00197	-.00009	.00111	-.00145	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00027**	**-.00348**	**-.00266**	**.00067**
Stddev	.00	.00175	.00170	.00036	.00039
%RSD	.0011	649.22	48.845	13.554	58.579
#1	25.01	-.00151	-.00469	-.00241	.00094
#2	25.01	.00097	-.00228	-.00292	.00039
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01335**	**.00036**	**.00007**	**.9969**	**-.00051**
Stddev	.00532	.00061	.00006	.0056	.00008
%RSD	39.885	170.88	87.781	.5655	16.499
#1	.00958	-.00007	.00011	.9929	-.00045
#2	.01711	.00079	.00003	1.001	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 19:13:00 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.00011**	**-.00014**	**.9974**
Stddev	.00064	.00015	.00025	.0012
%RSD	140.88	136.96	179.49	.1175
#1	-.00091	.00000	.00004	.9965
#2	-.00000	.00021	-.00031	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3590.4**	**3104.9**	**27853.**	**2990.5**
Stddev	.6	.3	69.	6.5
%RSD	.01602	.00838	.24699	.21828
#1	3590.8	3105.1	27902.	2985.9
#2	3590.0	3104.7	27805.	2995.1

Sample Name: CCVL-6819272 Acquired: 12/17/2021 19:16:49 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00547**	**.17766**	**.01258**	**.01866**	**.00208**
Stddev	.00018	.00359	.00054	.00028	.00000
%RSD	3.3615	2.0191	4.3270	1.4808	.02842
#1	.00534	.17513	.01297	.01886	.00208
#2	.00560	.18020	.01220	.01847	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**.50005**	**.00197**	**.0166**	**.00361**
Stddev	.00002	.00067	.00004	.0542	.00007
%RSD	.87420	.13432	2.1913	326.5	1.9892
#1	.00215	.50052	.00194	.0549	.00356
#2	.00212	.49957	.00200	-.0217	.00366
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00377**	**.00985**	**.05116**	**.37743**	**.02914**
Stddev	.00009	.00074	.00368	.06326	.00293
%RSD	2.3845	7.4867	7.1842	16.760	10.068
#1	.00383	.00933	.05376	.33270	.02707
#2	.00370	.01038	.04856	.42215	.03122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 19:16:49 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19423**	**.00304**	**.00982**	**1.0084**	**.00911**
Stddev	.00067	.00004	.00014	.0079	.00011
%RSD	.34520	1.4372	1.3970	.78131	1.2351
#1	.19376	.00307	.00992	1.0139	.00903
#2	.19471	.00301	.00972	1.0028	.00919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00912**	**.18070**	**.01984**	**.02241**
Stddev	.00	.00074	.00153	.00154	.00064
%RSD	.0054	8.0850	.84609	7.7658	2.8475
#1	25.00	.00860	.17962	.02093	.02286
#2	25.00	.00964	.18178	.01875	.02196
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46786**	**.00924**	**.00518**	F **1.004**	**.00469**
Stddev	.00523	.00024	.00009	.005	.00025
%RSD	1.1177	2.6329	1.6547	.4928	5.3726
#1	.47155	.00941	.00511	1.007	.00487
#2	.46416	.00907	.00524	1.000	.00451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 19:16:49 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01846**	**.00495**	**.01011**	F **.9993**
Stddev	.00028	.00008	.00008	.0004
%RSD	1.5316	1.5914	.76990	.0428
#1	.01826	.00489	.01005	.9996
#2	.01866	.00501	.01016	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3587.7**	**3125.8**	**28031.**	**3018.8**
Stddev	2.9	7.4	262.	5.0
%RSD	.08207	.23801	.93629	.16439
#1	3585.7	3120.6	27846.	3015.3
#2	3589.8	3131.1	28217.	3022.3

Sample Name: 480-193455-C-1-A Acquired: 12/17/2021 19:20:37 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.06507**	**.00897**	**.08312**	**.10141**
Stddev	.00056	.00406	.00093	.00034	.00017
%RSD	405.33	6.2383	10.352	.41294	.16322
#1	-.00026	.06220	.00831	.08337	.10153
#2	.00054	.06794	.00963	.08288	.10130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**22.502**	**.00025**	**-.0443**	**-.00002**
Stddev	.00011	.077	.00020	.0097	.00005
%RSD	1263.6	.34065	80.018	21.96	293.09
#1	-.00009	22.448	.00011	-.0374	.00002
#2	.00007	22.556	.00039	-.0512	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.00047**	**15.528**	**4.9764**	**-.00057**
Stddev	.00004	.00063	.072	.0165	.00064
%RSD	7.0714	134.57	.46104	.33086	113.61
#1	.00055	.00002	15.477	4.9647	-.00102
#2	.00050	.00091	15.578	4.9880	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-1-A Acquired: 12/17/2021 19:20:37 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7630**	**2.2210**	**.00357**	**27.439**	**.00038**
Stddev	.0420	.0078	.00007	.062	.00005
%RSD	.54079	.34995	2.0877	.22682	12.568
#1	7.7927	2.2265	.00352	27.395	.00035
#2	7.7333	2.2155	.00363	27.483	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.22**	**.00337**	**10.956**	**-.00022**	**.00414**
Stddev	.00	.00114	.016	.00156	.00011
%RSD	.0042	33.959	.14788	723.54	2.7029
#1	25.22	.00256	10.968	.00089	.00422
#2	25.22	.00417	10.945	-.00132	.00406
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9547**	**.00102**	**.13659**	**1.002**	**.00319**
Stddev	.0162	.00032	.00007	.002	.00034
%RSD	.20399	31.869	.04772	.2223	10.551
#1	7.9662	.00125	.13655	.9999	.00296
#2	7.9433	.00079	.13664	1.003	.00343
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-1-A Acquired: 12/17/2021 19:20:37 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.00176**	**.00265**	**.9978**
Stddev	.00142	.00071	.00006	.0004
%RSD	135.28	40.146	2.3070	.0441
#1	-.00206	.00126	.00269	.9982
#2	-.00005	.00226	.00260	.9975
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3387.1**	**3082.9**	**27542.**	**3070.2**
Stddev	2.6	2.8	207.	.6
%RSD	.07593	.09112	.75013	.02087
#1	3388.9	3084.9	27396.	3070.7
#2	3385.3	3080.9	27688.	3069.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.961%	97.988%	98.112%	101.21%
Range				

Sample Name: 480-193455-C-3-A Acquired: 12/17/2021 19:24:20 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.14697**	**.00036**	**.02739**	**.01650**
Stddev	.00011	.02756	.00004	.00025	.00006
%RSD	39.775	18.754	11.142	.91902	.33407
#1	.00021	.12748	.00033	.02721	.01646
#2	.00037	.16646	.00039	.02756	.01654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**13.640**	**.00057**	**.0051**	**.00291**
Stddev	.00009	.044	.00006	.0234	.00003
%RSD	290.23	.32561	9.9164	455.2	1.0997
#1	.00009	13.609	.00061	-.0114	.00294
#2	-.00003	13.671	.00053	.0217	.00289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00222**	**2.9330**	**2.1639**	**.00236**
Stddev	.00006	.00059	.0083	.0151	.00044
%RSD	20.178	26.604	.28260	.69688	18.688
#1	.00032	.00264	2.9271	2.1533	.00267
#2	.00024	.00180	2.9388	2.1746	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-3-A Acquired: 12/17/2021 19:24:20 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95903**	**.26163**	**-.00027**	**1.1830**	**.00134**
Stddev	.00172	.00049	.00007	.0100	.00001
%RSD	.17933	.18557	25.818	.84690	.68262
#1	.95781	.26129	-.00022	1.1901	.00134
#2	.96025	.26198	-.00031	1.1759	.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00997**	**.63357**	**-.00044**	**-.00132**
Stddev	.00	.00001	.00301	.00117	.00152
%RSD	.0059	.09821	.47526	264.56	115.24
#1	25.04	.00998	.63144	.00038	-.00024
#2	25.04	.00996	.63570	-.00127	-.00240
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3811**	**.00122**	**.05079**	**1.005**	**.00370**
Stddev	.0021	.00032	.00049	.001	.00003
%RSD	.06214	26.091	.96999	.1276	.88458
#1	3.3826	.00100	.05044	1.006	.00367
#2	3.3796	.00145	.05114	1.004	.00372
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-3-A Acquired: 12/17/2021 19:24:20 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00198**	**.02287**	**.9982**
Stddev	.00038	.00009	.00033	.0000
%RSD	52.990	4.3711	1.4421	.0035
#1	-.00097	.00204	.02311	.9982
#2	-.00044	.00192	.02264	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3570.3**	**3174.4**	**28353.**	**3132.3**
Stddev	.7	2.3	87.	.5
%RSD	.01863	.07288	.30681	.01451
#1	3569.8	3176.1	28415.	3132.6
#2	3570.8	3172.8	28292.	3131.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.10%	100.90%	101.00%	103.25%
Range				

Sample Name: 480-193455-C-5-A Acquired: 12/17/2021 19:28:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.05562**	**-.00017**	**.05101**	**.03653**
Stddev	.00026	.00859	.00262	.00052	.00005
%RSD	53.693	15.441	1549.4	1.0177	.14661
#1	-.00068	.06169	-.00202	.05138	.03649
#2	-.00031	.04954	.00168	.05064	.03657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**59.301**	**.00008**	**-.0682**	**.00142**
Stddev	.00006	.022	.00011	.0375	.00011
%RSD	271.41	.03655	138.23	54.93	7.9566
#1	-.00002	59.286	.00000	-.0417	.00134
#2	.00007	59.317	.00016	-.0947	.00150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00211**	**28.145**	**5.3932**	**.00037**
Stddev	.00008	.00075	.037	.0206	.00147
%RSD	62.413	35.656	.13201	.38144	401.63
#1	.00007	.00158	28.119	5.3787	-.00067
#2	.00019	.00265	28.172	5.4078	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-5-A Acquired: 12/17/2021 19:28:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5695**	**.80120**	**-.00070**	**16.874**	**.00152**
Stddev	.0007	.00045	.00009	.007	.00032
%RSD	.02851	.05578	12.380	.04035	21.261
#1	2.5700	.80088	-.00076	16.870	.00175
#2	2.5690	.80152	-.00063	16.879	.00130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00316**	**1.6576**	**.00101**	**.00165**
Stddev	.00	.00004	.0004	.00105	.00150
%RSD	.0037	1.1271	.02509	103.28	90.731
#1	25.00	.00318	1.6573	.00175	.00271
#2	25.00	.00313	1.6579	.00027	.00059
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9848**	**.00099**	**.22413**	**1.014**	**.00030**
Stddev	.0054	.00024	.00020	.008	.00044
%RSD	.08970	24.165	.09007	.7520	147.57
#1	5.9810	.00082	.22428	1.020	-.00001
#2	5.9886	.00116	.22399	1.009	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-5-A Acquired: 12/17/2021 19:28:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.00063**	**.01533**	**.9979**
Stddev	.00010	.00040	.00010	.0003
%RSD	20.632	63.363	.65138	.0289
#1	-.00053	.00035	.01526	.9981
#2	-.00039	.00091	.01540	.9977
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3341.0**	**3083.5**	**27402.**	**3105.5**
Stddev	1.7	3.3	3.	16.7
%RSD	.05067	.10650	.01094	.53911
#1	3342.2	3085.8	27400.	3117.3
#2	3339.8	3081.2	27404.	3093.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.669%	98.006%	97.611%	102.37%
Range				

Sample Name: 480-193455-C-5-ASD@5 Acquired: 12/17/2021 19:31:49 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**-.00093**	**-.00139**	**.00792**	**.00745**
Stddev	.00038	.01464	.00156	.00029	.00001
%RSD	137.50	1571.6	112.24	3.6926	.06733
#1	-.00054	.00942	-.00250	.00813	.00745
#2	-.00001	-.01128	-.00029	.00772	.00746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**11.957**	**-.00007**	**-.0052**	**.00004**
Stddev	.00005	.060	.00019	.0649	.00007
%RSD	81.713	.50252	288.41	1256.	166.91
#1	.00003	11.999	.00007	-.0510	-.00001
#2	.00010	11.914	-.00020	.0407	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00047**	**5.7099**	**.96210**	**.00061**
Stddev	.00035	.00106	.0204	.02691	.00051
%RSD	329.73	223.89	.35675	2.7966	83.397
#1	.00014	-.00122	5.7244	.94308	.00098
#2	-.00035	.00028	5.6955	.98113	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-5-ASD@5 Acquired: 12/17/2021 19:31:49 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51596**	**.16194**	**-.00094**	**3.4231**	**.00009**
Stddev	.00330	.00049	.00004	.0045	.00002
%RSD	.63917	.30467	4.7523	.12987	25.910
#1	.51362	.16229	-.00097	3.4200	.00010
#2	.51829	.16159	-.00091	3.4263	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00090**	**.31874**	**.00058**	**.00094**
Stddev	.00	.00044	.00069	.00062	.00095
%RSD	.0009	48.619	.21667	106.60	101.49
#1	25.01	.00121	.31923	.00014	.00161
#2	25.01	.00059	.31825	.00103	.00026
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1986**	**.00071**	**.04536**	**.9989**	**-.00022**
Stddev	.0203	.00040	.00003	.0031	.00000
%RSD	1.6972	55.653	.07595	.3085	.14640
#1	1.2130	.00100	.04533	.9967	-.00022
#2	1.1842	.00043	.04538	1.001	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-5-ASD@5 Acquired: 12/17/2021 19:31:49 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00017**	**.00306**	**.9975**
Stddev	.00120	.00037	.00006	.0002
%RSD	501.18	211.90	1.9779	.0193
#1	-.00109	.00043	.00310	.9974
#2	.00061	-.00009	.00301	.9977
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3542.7**	**3119.3**	**27833.**	**3052.4**
Stddev	.7	5.4	99.	3.7
%RSD	.01887	.17273	.35546	.12056
#1	3543.2	3123.1	27764.	3049.8
#2	3542.2	3115.5	27903.	3055.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.324%	99.145%	99.149%	100.62%
Range				

Sample Name: 480-193455-C-5-APDS Acquired: 12/17/2021 19:35:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04956**	**9.8974**	**.21262**	**.25108**	**.23391**
Stddev	.00052	.0163	.00314	.00081	.00018
%RSD	1.0540	.16485	1.4772	.32325	.07902
#1	.04993	9.8858	.21040	.25051	.23404
#2	.04919	9.9089	.21484	.25166	.23378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21744**	**67.278**	**.20187**	**.0282**	**.19416**
Stddev	.00019	.018	.00057	.0299	.00032
%RSD	.08628	.02624	.28086	105.9	.16425
#1	.21757	67.265	.20147	.0494	.19394
#2	.21730	67.290	.20227	.0071	.19439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20202**	**.20334**	**36.953**	**14.860**	**.19713**
Stddev	.00091	.00001	.006	.046	.00197
%RSD	.44804	.00275	.01678	.31252	.99688
#1	.20266	.20335	36.948	14.893	.19852
#2	.20138	.20334	36.957	14.827	.19574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-5-APDS Acquired: 12/17/2021 19:35:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.562**	**.97369**	**.20857**	**26.007**	**.19896**
Stddev	.023	.00183	.00022	.002	.00010
%RSD	.18440	.18749	.10581	.00883	.05238
#1	12.579	.97498	.20841	26.009	.19903
#2	12.546	.97240	.20873	26.006	.19889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.85**	**.20286**	**11.185**	**.21557**	**.20253**
Stddev	.00	.00048	.006	.00048	.00398
%RSD	.0010	.23514	.04996	.22392	1.9660
#1	24.85	.20320	11.181	.21523	.19971
#2	24.85	.20253	11.189	.21591	.20534
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.200**	**.18833**	**.41420**	**1.015**	**.20508**
Stddev	.021	.00021	.00009	.003	.00016
%RSD	.13922	.11348	.02121	.2457	.08041
#1	15.185	.18848	.41426	1.014	.20496
#2	15.215	.18818	.41414	1.017	.20519
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-5-APDS Acquired: 12/17/2021 19:35:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20452**	**.20333**	**.21787**	**1.005**
Stddev	.00040	.00029	.00278	.000
%RSD	.19422	.14476	1.2775	.0177
#1	.20481	.20312	.21590	1.005
#2	.20424	.20354	.21984	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3254.7**	**3056.0**	**27182.**	**3047.0**
Stddev	3.0	3.1	75.	4.6
%RSD	.09323	.10044	.27655	.15074
#1	3252.5	3058.2	27129.	3050.3
#2	3256.8	3053.8	27235.	3043.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.248%	97.131%	96.828%	100.44%
Range				

Sample Name: 480-193455-C-5-B MS Acquired: 12/17/2021 19:39:08 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04921**	**9.9758**	**.20985**	**.25542**	**.23933**
Stddev	.00001	.0135	.00049	.00106	.00022
%RSD	.02667	.13516	.23567	.41606	.09096
#1	.04920	9.9853	.21020	.25467	.23948
#2	.04922	9.9662	.20950	.25617	.23918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21156**	**68.361**	**.19929**	**-.0128**	**.19206**
Stddev	.00030	.016	.00051	.0279	.00019
%RSD	.14394	.02359	.25651	218.1	.10028
#1	.21177	68.372	.19893	-.0325	.19192
#2	.21134	68.349	.19965	.0069	.19219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19758**	**.20048**	**37.651**	**15.008**	**.19629**
Stddev	.00078	.00001	.030	.096	.00048
%RSD	.39451	.00712	.07966	.63745	.24428
#1	.19813	.20049	37.630	14.940	.19595
#2	.19703	.20047	37.672	15.076	.19663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-5-B MS Acquired: 12/17/2021 19:39:08 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.440**	**.98946**	**.20585**	**26.307**	**.19513**
Stddev	.012	.00025	.00020	.017	.00035
%RSD	.09277	.02575	.09646	.06375	.17806
#1	12.432	.98965	.20599	26.319	.19489
#2	12.448	.98928	.20571	26.295	.19538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.85**	**.19980**	**11.285**	**.21480**	**.20026**
Stddev	.00	.00001	.021	.00137	.00240
%RSD	.0009	.00620	.18231	.63967	1.1961
#1	24.85	.19981	11.271	.21577	.20195
#2	24.85	.19979	11.300	.21383	.19857
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.323**	**.17313**	**.41838**	**1.027**	**.20229**
Stddev	.006	.00030	.00069	.002	.00113
%RSD	.03790	.17542	.16435	.1984	.56097
#1	15.327	.17292	.41789	1.029	.20309
#2	15.318	.17335	.41887	1.026	.20149
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-5-B MS Acquired: 12/17/2021 19:39:08 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19988**	**.19964**	**.23099**	**.9998**
Stddev	.00066	.00059	.00059	.0004
%RSD	.32935	.29748	.25706	.0413
#1	.19941	.20006	.23141	.9995
#2	.20034	.19922	.23057	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3244.6**	**3050.0**	**27078.**	**3058.4**
Stddev	6.3	5.4	121.	1.7
%RSD	.19354	.17565	.44829	.05576
#1	3240.1	3046.2	26992.	3059.6
#2	3249.0	3053.8	27164.	3057.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.965%	96.941%	96.458%	100.82%
Range				

Sample Name: 480-193455-C-5-C MSD Acquired: 12/17/2021 19:42:43 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04892**	**9.9763**	**.21203**	**.25448**	**.23854**
Stddev	.00054	.0637	.00410	.00053	.00034
%RSD	1.1078	.63869	1.9327	.20880	.14261
#1	.04853	9.9312	.20914	.25411	.23830
#2	.04930	10.021	.21493	.25486	.23878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21385**	**68.800**	**.19916**	**-.0273**	**.19267**
Stddev	.00086	.301	.00000	.0589	.00012
%RSD	.40374	.43738	.00028	216.1	.06087
#1	.21324	68.588	.19916	-.0689	.19259
#2	.21446	69.013	.19916	.0144	.19275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19773**	**.20186**	**37.750**	**15.156**	**.20021**
Stddev	.00026	.00052	.055	.022	.00222
%RSD	.13135	.25712	.14464	.14372	1.1071
#1	.19754	.20149	37.711	15.141	.20178
#2	.19791	.20223	37.788	15.172	.19864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-5-C MSD Acquired: 12/17/2021 19:42:43 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.506**	**.99123**	**.20641**	**26.466**	**.19671**
Stddev	.063	.00162	.00028	.058	.00006
%RSD	.50584	.16336	.13561	.21822	.02863
#1	12.462	.99009	.20661	26.425	.19667
#2	12.551	.99238	.20621	26.507	.19675
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.85**	**.20147**	**11.390**	**.21472**	**.19847**
Stddev	.00	.00054	.021	.00019	.00121
%RSD	.0031	.26680	.18080	.08674	.61172
#1	24.85	.20185	11.404	.21459	.19932
#2	24.85	.20109	11.375	.21485	.19761
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.391**	**.18842**	**.42171**	**1.013**	**.20245**
Stddev	.011	.00033	.00126	.004	.00014
%RSD	.06932	.17693	.29968	.4147	.07138
#1	15.383	.18818	.42261	1.010	.20235
#2	15.398	.18865	.42082	1.016	.20255
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-5-C MSD Acquired: 12/17/2021 19:42:43 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20197**	**.20088**	**.20812**	**.9991**
Stddev	.00045	.00012	.00067	.0000
%RSD	.22272	.05982	.32151	.0000
#1	.20165	.20079	.20765	.9991
#2	.20229	.20096	.20860	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3248.9**	**3062.6**	**27257.**	**3085.7**
Stddev	5.7	3.1	93.	20.4
%RSD	.17539	.10225	.34223	.65951
#1	3252.9	3064.8	27323.	3100.1
#2	3244.8	3060.3	27191.	3071.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.086%	97.340%	97.096%	101.72%
Range				

Sample Name: 480-193455-C-7-A Acquired: 12/17/2021 19:46:17 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.22830**	**-.00151**	**.15045**	**.05894**
Stddev	.00050	.00911	.00243	.00044	.00003
%RSD	92.941	3.9919	160.44	.29361	.04559
#1	-.00018	.23474	-.00323	.15076	.05892
#2	-.00088	.22185	.00020	.15014	.05895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**11.184**	**.00088**	**-.0049**	**.00203**
Stddev	.00004	.028	.00021	.0134	.00001
%RSD	26.506	.24627	23.522	272.0	.53271
#1	.00011	11.204	.00102	-.0144	.00202
#2	.00016	11.165	.00073	.0046	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00227**	**.01090**	**3.5191**	**2.0612**	**-.00157**
Stddev	.00030	.00014	.0033	.0177	.00091
%RSD	13.318	1.2623	.09406	.86116	58.244
#1	.00249	.01080	3.5168	2.0486	-.00221
#2	.00206	.01100	3.5214	2.0737	-.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-7-A Acquired: 12/17/2021 19:46:17 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5751**	**.11853**	**.00106**	**15.466**	**.00325**
Stddev	.0013	.00002	.00023	.088	.00049
%RSD	.07970	.01640	21.374	.56710	15.077
#1	1.5742	.11854	.00090	15.528	.00290
#2	1.5759	.11851	.00122	15.404	.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00235**	**3.5604**	**-.00110**	**.00157**
Stddev	.00	.00108	.0052	.00034	.00317
%RSD	.0014	45.852	.14652	30.573	201.29
#1	25.02	.00158	3.5641	-.00086	-.00067
#2	25.02	.00311	3.5567	-.00134	.00381
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8728**	**.00097**	**.08733**	**1.001**	**.00627**
Stddev	.0046	.00014	.00004	.000	.00025
%RSD	.06760	13.950	.04743	.0240	4.0358
#1	6.8696	.00087	.08736	1.000	.00609
#2	6.8761	.00106	.08730	1.001	.00645
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-7-A Acquired: 12/17/2021 19:46:17 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00852**	**.52853**	**.9978**
Stddev	.00077	.00007	.00086	.0005
%RSD	407.74	.78777	.16349	.0477
#1	-.00036	.00856	.52914	.9981
#2	.00073	.00847	.52792	.9974
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3492.5**	**3119.2**	**27956.**	**3096.8**
Stddev	3.3	3.5	118.	10.2
%RSD	.09426	.11167	.42262	.32883
#1	3490.2	3116.8	27872.	3089.6
#2	3494.9	3121.7	28039.	3104.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.917%	99.142%	99.586%	102.08%
Range				

Sample Name: 480-193455-C-9-A Acquired: 12/17/2021 19:49:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.09917**	**.00853**	**.08254**	**.10232**
Stddev	.00061	.00664	.00036	.00033	.00013
%RSD	211.23	6.6950	4.2740	.39835	.12662
#1	.00014	.10387	.00879	.08277	.10241
#2	-.00072	.09448	.00827	.08231	.10223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**22.614**	**.00006**	**-.0362**	**-.00018**
Stddev	.00009	.101	.00000	.0115	.00001
%RSD	61.311	.44439	4.2437	31.79	2.7709
#1	.00008	22.543	.00006	-.0444	-.00018
#2	.00020	22.685	.00006	-.0281	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00111**	**15.827**	**4.9563**	**-.00117**
Stddev	.00014	.00085	.063	.0255	.00034
%RSD	13.854	76.414	.39623	.51345	29.285
#1	.00091	.00171	15.782	4.9383	-.00141
#2	.00111	.00051	15.871	4.9743	-.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-9-A Acquired: 12/17/2021 19:49:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7866**	**2.2471**	**.00363**	**27.585**	**.00038**
Stddev	.0038	.0005	.00016	.168	.00036
%RSD	.04929	.02301	4.4912	.60787	94.289
#1	7.7893	2.2467	.00351	27.466	.00063
#2	7.7839	2.2475	.00374	27.703	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.22**	**.00232**	**10.960**	**.00266**	**.00152**
Stddev	.00	.00025	.026	.00188	.00256
%RSD	.0039	10.606	.23983	70.598	168.75
#1	25.22	.00249	10.942	.00399	-.00029
#2	25.22	.00214	10.979	.00133	.00332
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9543**	**.00122**	**.13760**	**1.004**	**.00464**
Stddev	.0583	.00014	.00062	.002	.00035
%RSD	.73336	11.642	.45396	.2179	7.4687
#1	7.9131	.00132	.13716	1.003	.00439
#2	7.9956	.00112	.13804	1.006	.00488
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193455-C-9-A Acquired: 12/17/2021 19:49:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.00110**	**.00231**	**.9971**
Stddev	.00070	.00036	.00006	.0000
%RSD	133.63	32.305	2.3823	.0038
#1	-.00102	.00136	.00228	.9971
#2	-.00003	.00085	.00235	.9971
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3382.7**	**3074.6**	**27518.**	**3057.2**
Stddev	2.2	.8	87.	15.8
%RSD	.06357	.02590	.31474	.51577
#1	3381.2	3075.1	27580.	3068.3
#2	3384.3	3074.0	27457.	3046.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.839%	97.722%	98.027%	100.78%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 19:53:43 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0087**	**50.266**	**.99600**	**1.0308**	**1.0013**
Stddev	.0001	.162	.00232	.0008	.0012
%RSD	.01150	.32227	.23301	.07749	.11835
#1	1.0086	50.381	.99764	1.0314	1.0021
#2	1.0088	50.151	.99436	1.0303	1.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0080**	**49.794**	**1.0010**	**1.049**	**.97445**
Stddev	.0027	.068	.0001	.022	.00075
%RSD	.26621	.13699	.00567	2.103	.07737
#1	1.0099	49.842	1.0010	1.033	.97392
#2	1.0061	49.746	1.0011	1.064	.97498
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0040**	**.99986**	**50.131**	**49.650**	**1.0022**
Stddev	.0010	.00092	.053	.046	.0036
%RSD	.09951	.09205	.10558	.09261	.35833
#1	1.0047	.99921	50.093	49.683	1.0047
#2	1.0033	1.0005	50.168	49.618	.99964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 19:53:43 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.127**	**1.0013**	**1.0153**	**50.010**	**.98386**
Stddev	.101	.0013	.0003	.034	.00081
%RSD	.20501	.13382	.03244	.06749	.08236
#1	49.056	1.0004	1.0150	50.034	.98329
#2	49.198	1.0023	1.0155	49.986	.98443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.40**	**.97711**	**24.562**	**.99534**	**.99051**
Stddev	.01	.00110	.021	.00039	.00083
%RSD	.0176	.11305	.08379	.03923	.08370
#1	37.39	.97633	24.547	.99561	.99110
#2	37.40	.97789	24.576	.99506	.98992
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9565**	**.97158**	**1.0050**	**1.521**	**1.0009**
Stddev	.0439	.00132	.0006	.005	.0022
%RSD	.44104	.13567	.05694	.3173	.22409
#1	9.9254	.97065	1.0054	1.524	1.0025
#2	9.9875	.97251	1.0046	1.517	.99935
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 19:53:43 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99053**	**1.0018**	**1.0100**	**1.511**
Stddev	.00123	.0005	.0014	.003
%RSD	.12403	.04905	.13380	.2202
#1	.99140	1.0015	1.0091	1.508
#2	.98966	1.0022	1.0110	1.513
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3099.3**	**3016.4**	**26558.**	**2972.5**
Stddev	2.8	4.2	18.	8.2
%RSD	.08931	.13942	.06715	.27540
#1	3097.3	3013.5	26570.	2966.8
#2	3101.2	3019.4	26545.	2978.3

Sample Name: CCB-6819143 Acquired: 12/17/2021 19:57:16 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.01476**	**.00023**	**-.00228**	**.00006**
Stddev	.00035	.00193	.00141	.00015	.00004
%RSD	190.04	13.052	615.72	6.7708	67.134
#1	.00043	-.01340	.00123	-.00217	.00009
#2	-.00006	-.01612	-.00077	-.00239	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00416**	**.00001**	**.0021**	**-.00004**
Stddev	.00003	.00148	.00005	.0140	.00007
%RSD	28.229	35.454	403.41	671.3	154.04
#1	.00008	-.00312	-.00002	.0120	-.00009
#2	.00012	-.00520	.00005	-.0078	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00027**	**.00094**	**-.01989**	**-.00096**
Stddev	.00004	.00016	.00025	.03805	.00138
%RSD	35.360	59.601	26.885	191.34	143.87
#1	-.00008	.00016	.00112	-.04679	-.00194
#2	-.00013	.00038	.00076	.00702	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 19:57:16 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.00007**	**.00086**	**-.00440**	**-.00014**
Stddev	.00082	.00005	.00005	.00027	.00017
%RSD	131.75	76.442	6.3560	6.1646	121.23
#1	-.00004	.00003	.00082	-.00420	-.00026
#2	-.00120	.00010	.00090	-.00459	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00067**	**-.00795**	**.00187**	**.00178**
Stddev	.00	.00052	.00085	.00155	.00353
%RSD	.0033	78.328	10.648	82.976	198.46
#1	25.01	-.00030	-.00855	.00296	.00428
#2	25.01	-.00103	-.00735	.00077	-.00072
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00238**	**.00045**	**.00002**	**.9940**	**-.00052**
Stddev	.01132	.00023	.00004	.0012	.00009
%RSD	475.59	50.909	152.20	.1181	18.086
#1	-.01038	.00029	.00005	.9932	-.00045
#2	.00562	.00061	-.00000	.9948	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 19:57:16 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00031**	**-.00014**	**.9988**
Stddev	.00073	.00013	.00010	.0000
%RSD	474.22	39.877	73.401	.0036
#1	.00067	.00023	-.00022	.9987
#2	-.00036	.00040	-.00007	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3614.9**	**3153.9**	**28296.**	**3053.1**
Stddev	3.3	.8	78.	5.5
%RSD	.09036	.02392	.27700	.17923
#1	3617.2	3153.3	28351.	3049.2
#2	3612.6	3154.4	28240.	3057.0

Sample Name: CCVL-6819272 Acquired: 12/17/2021 20:01:05 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00447**	**.18648**	**.01430**	**.01704**	**.00203**
Stddev	.00026	.01975	.00051	.00005	.00002
%RSD	5.7096	10.590	3.5661	.30846	.95228
#1	.00465	.17252	.01394	.01708	.00205
#2	.00429	.20044	.01466	.01701	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**.50113**	**.00206**	**-.0193**	**.00353**
Stddev	.00007	.00476	.00010	.0166	.00002
%RSD	3.2631	.94972	4.9098	86.16	.49077
#1	.00210	.49776	.00213	-.0075	.00352
#2	.00220	.50449	.00199	-.0311	.00354
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00385**	**.01002**	**.04910**	**.44506**	**.02798**
Stddev	.00027	.00132	.00338	.03315	.00271
%RSD	6.9323	13.168	6.8866	7.4478	9.6937
#1	.00404	.00909	.05149	.42162	.02606
#2	.00366	.01096	.04671	.46850	.02990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 20:01:05 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19491**	**.00315**	**.00969**	**.99076**	**.00962**
Stddev	.00317	.00013	.00001	.00155	.00045
%RSD	1.6279	4.2370	.05918	.15606	4.6859
#1	.19267	.00305	.00969	.98967	.00994
#2	.19715	.00324	.00969	.99185	.00930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00897**	**.17633**	**.01831**	**.02749**
Stddev	.00	.00073	.00033	.00049	.00108
%RSD	.0034	8.1355	.18675	2.6920	3.9222
#1	25.00	.00948	.17656	.01796	.02825
#2	25.00	.00845	.17610	.01865	.02673
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46554**	**.00923**	**.00524**	F **.9974**	**.00468**
Stddev	.00254	.00029	.00001	.0040	.00015
%RSD	.54601	3.1410	.18167	.4026	3.1846
#1	.46375	.00944	.00523	1.000	.00478
#2	.46734	.00903	.00525	.9946	.00457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 20:01:05 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	.01891	.00529	.01062	F .9982
Stddev	.00041	.00018	.00041	.0000
%RSD	2.1788	3.3841	3.8832	.0030
#1	.01920	.00541	.01091	.9981
#2	.01861	.00516	.01033	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3591.5	3128.5	28182.	3011.8
Stddev	2.0	2.9	49.	6.3
%RSD	.05583	.09323	.17492	.21066
#1	3590.1	3130.5	28217.	3016.3
#2	3592.9	3126.4	28147.	3007.3

Sample Name: 480-193460-M-1-A Acquired: 12/17/2021 20:04:52 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00128**	**.02211**	**-.00149**	**.01598**	**.05124**
Stddev	.00022	.01520	.00155	.00027	.00003
%RSD	17.108	68.731	104.22	1.6664	.05204
#1	-.00144	.01136	-.00039	.01579	.05126
#2	-.00113	.03286	-.00259	.01617	.05122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**8.6844**	**.00030**	**-.0742**	**.00822**
Stddev	.00007	.0240	.00008	.0322	.00028
%RSD	22.120	.27688	27.040	43.33	3.4616
#1	.00028	8.7014	.00036	-.0515	.00842
#2	.00038	8.6673	.00024	-.0970	.00801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00103**	**3.6520**	**1.7536**	**.00885**
Stddev	.00002	.00018	.0051	.0055	.00042
%RSD	12.716	17.812	.14045	.31473	4.7692
#1	-.00013	-.00090	3.6484	1.7497	.00915
#2	-.00016	-.00116	3.6556	1.7575	.00855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193460-M-1-A Acquired: 12/17/2021 20:04:52 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3724**	**.65416**	**-.00089**	**4.3270**	**.01838**
Stddev	.0360	.00208	.00004	.0058	.00035
%RSD	.48815	.31844	4.4335	.13351	1.8932
#1	7.3979	.65563	-.00091	4.3229	.01814
#2	7.3470	.65269	-.00086	4.3311	.01863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00095**	**15.426**	**.00148**	**-.00011**
Stddev	.00	.00047	.005	.00013	.00187
%RSD	.0015	50.029	.02921	8.6383	1744.1
#1	25.02	.00128	15.429	.00157	-.00143
#2	25.02	.00061	15.423	.00139	.00121
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7333**	**.00153**	**.06195**	**1.002**	**.00017**
Stddev	.0117	.00043	.00002	.008	.00012
%RSD	.15159	27.953	.02698	.8231	72.179
#1	7.7251	.00123	.06197	.9965	.00026
#2	7.7416	.00183	.06194	1.008	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193460-M-1-A Acquired: 12/17/2021 20:04:52 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.00035**	**.02192**	**.9979**
Stddev	.00053	.00010	.00042	.0017
%RSD	70.869	28.724	1.9264	.1656
#1	-.00037	.00028	.02222	.9967
#2	-.00112	.00042	.02162	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3542.6**	**3134.5**	**28164.**	**3053.9**
Stddev	.1	7.0	102.	1.4
%RSD	.00226	.22182	.36136	.04451
#1	3542.6	3139.4	28092.	3053.0
#2	3542.5	3129.5	28236.	3054.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.321%	99.625%	100.33%	100.67%
Range				

Sample Name: 480-193460-M-2-A Acquired: 12/17/2021 20:08:36 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	**.09759**	**.00059**	**.01569**	**.01421**
Stddev	.00114	.00409	.00036	.00017	.00001
%RSD	116.23	4.1957	60.673	1.0565	.05047
#1	-.00179	.09469	.00084	.01557	.01421
#2	-.00017	.10048	.00033	.01581	.01422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**2.1685**	**.00010**	**.0070**	**.00056**
Stddev	.00010	.0061	.00017	.0240	.00011
%RSD	164.68	.28312	164.96	341.0	19.566
#1	.00001	2.1641	-.00002	.0240	.00064
#2	-.00013	2.1728	.00022	-.0099	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00117**	**.04530**	**1.2056**	**.00352**
Stddev	.00041	.00029	.00175	.0658	.00068
%RSD	418.00	24.411	3.8660	5.4584	19.400
#1	-.00039	.00138	.04654	1.2521	.00303
#2	.00019	.00097	.04406	1.1591	.00400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193460-M-2-A Acquired: 12/17/2021 20:08:36 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54927**	**.04167**	**.00002**	**45.334**	**.00125**
Stddev	.00578	.00015	.00020	.083	.00024
%RSD	1.0518	.36483	821.61	.18399	19.484
#1	.55336	.04178	.00017	45.393	.00108
#2	.54519	.04156	-.00012	45.275	.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00097**	**15.271**	**-.00043**	**-.00023**
Stddev	.00	.00036	.000	.00203	.00007
%RSD	.0028	37.426	.00027	475.34	31.861
#1	25.01	.00072	15.271	.00101	-.00029
#2	25.01	.00123	15.271	-.00187	-.00018
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5194**	**.00142**	**.02930**	**1.003**	**.00171**
Stddev	.0449	.00008	.00018	.007	.00037
%RSD	.81372	5.6443	.60303	.6706	21.318
#1	5.5512	.00137	.02943	.9978	.00197
#2	5.4877	.00148	.02918	1.007	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193460-M-2-A Acquired: 12/17/2021 20:08:36 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.00016**	**.00336**	**.9987**
Stddev	.00046	.00047	.00021	.0006
%RSD	71.068	298.88	6.2248	.0551
#1	-.00098	-.00017	.00321	.9991
#2	-.00033	.00048	.00350	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3423.6**	**3093.2**	**27563.**	**3070.1**
Stddev	5.0	.7	98.	2.5
%RSD	.14464	.02305	.35697	.08001
#1	3420.1	3092.7	27493.	3068.4
#2	3427.1	3093.7	27633.	3071.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.984%	98.315%	98.186%	101.20%
Range				

Sample Name: 480-193481-E-1-A Acquired: 12/17/2021 20:12:20 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**1.7892**	**-.00150**	**.10456**	**.04519**
Stddev	.00011	.0419	.00055	.00034	.00051
%RSD	32.301	2.3394	36.755	.32199	1.1215
#1	-.00043	1.8188	-.00189	.10432	.04483
#2	-.00027	1.7596	-.00111	.10480	.04555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**169.91**	**.00073**	**-.0211**	**.00072**
Stddev	.00009	.07	.00003	.0054	.00011
%RSD	238.88	.04329	4.7564	25.43	15.872
#1	.00010	169.96	.00076	-.0173	.00064
#2	-.00003	169.86	.00071	-.0249	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00359**	**.00968**	**1.5973**	**4.2757**	**.03028**
Stddev	.00004	.00021	.0069	.0081	.00070
%RSD	1.2241	2.2000	.43412	.18958	2.3259
#1	.00356	.00983	1.6022	4.2814	.03078
#2	.00362	.00953	1.5924	4.2699	.02978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193481-E-1-A Acquired: 12/17/2021 20:12:20 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**111.27**	**.04417**	**.00068**	**36.852**	**.00237**
Stddev	.36	.00012	.00010	.036	.00014
%RSD	.32151	.26317	14.991	.09660	5.8264
#1	111.02	.04425	.00061	36.877	.00247
#2	111.52	.04409	.00075	36.827	.00228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00419**	F **231.29**	**.00288**	**.00075**
Stddev	.00	.00194	.54	.00019	.00042
%RSD	.0040	46.389	.23193	6.6705	55.846
#1	25.04	.00557	230.91	.00274	.00045
#2	25.04	.00282	231.67	.00302	.00105
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.2318**	**.00220**	**1.2654**	**.9989**	**.06432**
Stddev	.0423	.00017	.0004	.0058	.00179
%RSD	.67807	7.7407	.03238	.5849	2.7846
#1	6.2617	.00208	1.2657	1.003	.06559
#2	6.2019	.00232	1.2651	.9947	.06305
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193481-E-1-A Acquired: 12/17/2021 20:12:20 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00093**	**.00216**	**.02317**	**.9984**
Stddev	.00063	.00019	.00082	.0013
%RSD	67.445	8.9282	3.5580	.1351
#1	.00049	.00202	.02259	.9993
#2	.00138	.00229	.02375	.9974
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3135.5**	**2976.9**	**26711.**	**3082.2**
Stddev	4.1	1.9	103.	18.4
%RSD	.13145	.06512	.38718	.59553
#1	3132.5	2975.5	26784.	3069.2
#2	3138.4	2978.3	26637.	3095.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.906%	94.617%	95.149%	101.60%
Range				

Sample Name: 480-193482-E-1-A Acquired: 12/17/2021 20:16:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.11226**	**.00200**	**.01952**	**.82730**
Stddev	.00008	.02172	.00126	.00016	.00061
%RSD	13.926	19.344	63.107	.79702	.07400
#1	.00061	.09691	.00111	.01941	.82773
#2	.00050	.12762	.00290	.01963	.82687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**787.67**	**-.00061**	**.0053**	**-.00002**
Stddev	.00004	2.66	.00001	.0035	.00005
%RSD	35.162	.33761	1.4057	65.34	245.30
#1	-.00009	785.79	-.00060	.0077	.00001
#2	-.00015	789.55	-.00062	.0029	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00348**	**.01046**	**19.246**	**.10354**
Stddev	.00016	.00033	.00166	.135	.00075
%RSD	94.354	9.4867	15.919	.70073	.72674
#1	.00028	.00325	.00928	19.151	.10407
#2	.00006	.00372	.01164	19.341	.10301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-1-A Acquired: 12/17/2021 20:16:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00399**	**.00026**	**.00751**	**99.144**	**.00648**
Stddev	.00058	.00004	.00018	.036	.00013
%RSD	14.483	14.913	2.4199	.03634	1.9914
#1	.00439	.00029	.00738	99.169	.00657
#2	.00358	.00024	.00764	99.118	.00639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00072**	**19.452**	**-.00283**	**-.00053**
Stddev	.00	.00033	.020	.00010	.00169
%RSD	.0053	45.747	.10126	3.3656	317.75
#1	25.02	.00049	19.466	-.00276	.00066
#2	25.02	.00095	19.438	-.00290	-.00172
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20607**	**.00099**	**2.2896**	**.9929**	**.00459**
Stddev	.01975	.00008	.0010	.0093	.00014
%RSD	9.5852	8.0456	.04607	.9374	2.9577
#1	.19210	.00093	2.2888	.9995	.00449
#2	.22003	.00104	2.2903	.9863	.00468
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-1-A Acquired: 12/17/2021 20:16:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00144**	**.00078**	**.00356**	**.9979**
Stddev	.00063	.00003	.00030	.0010
%RSD	43.938	4.2638	8.4364	.1022
#1	.00099	.00075	.00335	.9972
#2	.00189	.00080	.00377	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2855.0**	**2809.5**	**24986.**	**2954.9**
Stddev	4.2	3.5	52.	20.1
%RSD	.14821	.12548	.21001	.67866
#1	2858.0	2812.0	25023.	2969.1
#2	2852.0	2807.0	24949.	2940.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.044%	89.298%	89.005%	97.404%
Range				

Sample Name: 480-193482-E-2-A Acquired: 12/17/2021 20:19:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.20544**	**-.00050**	**.00752**	**.89058**
Stddev	.00085	.00260	.00322	.00018	.00004
%RSD	727.36	1.2649	644.38	2.3291	.00446
#1	.00071	.20361	.00178	.00739	.89055
#2	-.00048	.20728	-.00278	.00764	.89061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**842.84**	**-.00081**	**-.0386**	**-.00010**
Stddev	.00015	13.85	.00028	.0078	.00004
%RSD	101.56	1.6428	34.658	20.08	38.772
#1	-.00025	833.05	-.00061	-.0441	-.00013
#2	-.00004	852.63	-.00101	-.0331	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**.00305**	**.01602**	**36.278**	**.13844**
Stddev	.00049	.00145	.00111	.030	.00136
%RSD	52.989	47.416	6.9374	.08139	.98047
#1	.00058	.00407	.01523	36.257	.13940
#2	.00128	.00203	.01680	36.299	.13748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-2-A Acquired: 12/17/2021 20:19:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01017**	**.00045**	**.00336**	**93.480**	**.00281**
Stddev	.00012	.00001	.00011	.803	.00024
%RSD	1.1956	1.3327	3.3358	.85905	8.6676
#1	.01008	.00045	.00328	92.912	.00264
#2	.01025	.00046	.00343	94.048	.00298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00046**	**30.366**	**.00265**	**.00337**
Stddev	.00	.00001	.072	.00007	.00023
%RSD	.0017	1.3349	.23624	2.5194	6.8297
#1	25.02	-.00046	30.417	.00261	.00353
#2	25.02	-.00046	30.315	.00270	.00321
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28509**	**.00153**	**3.2858**	**.9961**	**.00451**
Stddev	.00243	.00059	.0002	.0008	.00062
%RSD	.85062	38.527	.00617	.0845	13.793
#1	.28681	.00195	3.2856	.9955	.00407
#2	.28338	.00111	3.2859	.9967	.00495
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-2-A Acquired: 12/17/2021 20:19:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00084**	**.00212**	**.9989**
Stddev	.00106	.00039	.00009	.0004
%RSD	159.44	46.638	4.4310	.0399
#1	-.00008	.00056	.00205	.9986
#2	.00141	.00112	.00219	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2829.5**	**2792.5**	**24865.**	**2909.7**
Stddev	4.7	1.8	16.	7.8
%RSD	.16487	.06354	.06390	.26874
#1	2832.8	2793.7	24876.	2904.1
#2	2826.2	2791.2	24854.	2915.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.329%	88.757%	88.575%	95.913%
Range				

Sample Name: 480-193482-E-3-A Acquired: 12/17/2021 20:23:55 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.02217**	**.00137**	**.08418**	**.18162**
Stddev	.00006	.00299	.00033	.00026	.00028
%RSD	17.745	13.489	24.170	.31451	.15643
#1	-.00032	.02428	.00113	.08436	.18142
#2	-.00041	.02005	.00160	.08399	.18182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	F **1058.3**	**-.00007**	**-.0508**	**-.00005**
Stddev	.00005	4.9	.00014	.0385	.00009
%RSD	21.436	.46668	191.89	75.68	165.09
#1	-.00018	1054.8	-.00017	-.0236	.00001
#2	-.00025	1061.8	.00003	-.0780	-.00011
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00455**	**.74811**	**5.3688**	**.05154**
Stddev	.00021	.00012	.00029	.0201	.00307
%RSD	218.98	2.6577	.03834	.37512	5.9515
#1	-.00005	.00463	.74831	5.3830	.04938
#2	.00024	.00446	.74791	5.3545	.05371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-3-A Acquired: 12/17/2021 20:23:55 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**99.336**	**.50676**	**-.00059**	**246.28**	**-.00061**
Stddev	.350	.00063	.00008	1.19	.00034
%RSD	.35209	.12368	12.794	.48240	56.346
#1	99.584	.50720	-.00054	245.44	-.00085
#2	99.089	.50631	-.00064	247.12	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00112**	F **227.40**	**-.00191**	**-.00018**
Stddev	.00	.00017	.22	.00023	.00335
%RSD	.0037	15.442	.09858	11.899	1903.7
#1	25.03	.00125	227.56	-.00207	-.00254
#2	25.03	.00100	227.24	-.00175	.00219
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2394**	**.00203**	**4.3004**	**.9975**	**.00742**
Stddev	.0546	.00040	.0196	.0081	.00023
%RSD	1.0418	19.550	.45642	.8161	3.0991
#1	5.2008	.00231	4.2866	1.003	.00758
#2	5.2780	.00175	4.3143	.9918	.00725
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-3-A Acquired: 12/17/2021 20:23:55 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.00039**	**.01202**	**.9974**
Stddev	.00073	.00024	.00025	.0005
%RSD	163.38	61.358	2.0821	.0503
#1	.00007	-.00056	.01220	.9977
#2	-.00096	-.00022	.01185	.9970
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2674.2**	**2670.7**	**23824.**	**2877.9**
Stddev	1.6	1.8	31.	22.4
%RSD	.06022	.06754	.12870	.77883
#1	2673.0	2669.4	23802.	2893.7
#2	2675.3	2671.9	23846.	2862.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.973%	84.884%	84.866%	94.865%
Range				

Sample Name: 480-193482-E-4-A Acquired: 12/17/2021 20:27:49 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.03954**	**-.00153**	**.08453**	**.19049**
Stddev	.00073	.03059	.00000	.00035	.00011
%RSD	199.95	77.346	.11156	.41732	.05767
#1	-.00015	.01792	-.00153	.08478	.19057
#2	.00088	.06117	-.00153	.08428	.19041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	F **931.61**	**-.00018**	**-.0606**	**-.00004**
Stddev	.00003	.82	.00010	.0198	.00015
%RSD	23.505	.08751	54.053	32.61	375.04
#1	-.00012	931.04	-.00025	-.0746	-.00014
#2	-.00016	932.19	-.00011	-.0466	.00007
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**.00429**	**.35176**	**6.8702**	**.04880**
Stddev	.00006	.00032	.00291	.0545	.00254
%RSD	5.9704	7.3743	.82757	.79383	5.1956
#1	.00101	.00407	.34970	6.8316	.04700
#2	.00093	.00452	.35382	6.9087	.05059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-4-A Acquired: 12/17/2021 20:27:49 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**74.839**	**.43823**	**.00074**	**257.62**	**.00031**
Stddev	.061	.00060	.00015	.31	.00023
%RSD	.08178	.13609	19.738	.11944	73.839
#1	74.796	.43781	.00064	257.40	.00047
#2	74.883	.43865	.00084	257.83	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00137**	F **169.44**	**.00091**	**-.00315**
Stddev	.00	.00168	.20	.00285	.00049
%RSD	.0027	122.86	.11548	312.03	15.547
#1	25.03	.00255	169.30	-.00110	-.00280
#2	25.03	.00018	169.57	.00293	-.00350
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0058**	**.00138**	**4.2426**	**.9952**	**.00599**
Stddev	.0181	.00075	.0014	.0017	.00061
%RSD	.45159	54.553	.03332	.1692	10.234
#1	3.9930	.00191	4.2416	.9940	.00556
#2	4.0186	.00085	4.2436	.9964	.00643
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-4-A Acquired: 12/17/2021 20:27:49 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00117**	**-.00073**	**.01109**	**.9978**
Stddev	.00351	.00029	.00032	.0010
%RSD	299.11	39.493	2.8831	.0972
#1	.00366	-.00052	.01131	.9985
#2	-.00131	-.00093	.01086	.9971
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2720.4**	**2734.5**	**24287.**	**2954.4**
Stddev	2.7	3.3	99.	.1
%RSD	.09786	.12174	.40644	.00408
#1	2722.2	2736.8	24356.	2954.4
#2	2718.5	2732.1	24217.	2954.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.268%	86.913%	86.514%	97.386%
Range				

Sample Name: 480-193482-E-5-A Acquired: 12/17/2021 20:31:42 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.39366**	**.00280**	**.00619**	**.78838**
Stddev	.00016	.00373	.00123	.00010	.00194
%RSD	1494.0	.94858	43.772	1.5412	.24579
#1	.00012	.39102	.00193	.00626	.78975
#2	-.00010	.39630	.00367	.00612	.78701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**778.39**	**-.00075**	**-.0158**	**-.00017**
Stddev	.00011	5.03	.00003	.0049	.00021
%RSD	78.143	.64560	3.8134	31.04	123.76
#1	-.00006	774.84	-.00073	-.0193	-.00031
#2	-.00021	781.95	-.00077	-.0123	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00355**	**.00335**	**.09449**	**21.373**	**.10900**
Stddev	.00040	.00010	.00707	.002	.00034
%RSD	11.313	2.8710	7.4791	.01004	.31567
#1	.00327	.00342	.08949	21.371	.10876
#2	.00384	.00329	.09949	21.374	.10925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-5-A Acquired: 12/17/2021 20:31:42 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07107**	**.00263**	**.00381**	**70.185**	**.00297**
Stddev	.00305	.00009	.00003	.302	.00034
%RSD	4.2869	3.5354	.88124	.43023	11.530
#1	.06891	.00256	.00383	70.398	.00321
#2	.07322	.00270	.00378	69.971	.00272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00183**	**31.916**	**-.00053**	**-.00178**
Stddev	.00	.00125	.049	.00209	.00188
%RSD	.0004	68.520	.15443	394.70	105.55
#1	25.02	.00094	31.950	.00095	-.00311
#2	25.02	.00271	31.881	-.00200	-.00045
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52664**	**.00121**	**3.1307**	**.9963**	**.00895**
Stddev	.03717	.00026	.0053	.0054	.00062
%RSD	7.0589	21.449	.17004	.5387	6.9184
#1	.50035	.00103	3.1345	.9925	.00939
#2	.55292	.00140	3.1270	1.000	.00851
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-5-A Acquired: 12/17/2021 20:31:42 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00133**	**.01882**	**.9963**
Stddev	.00114	.00004	.00036	.0010
%RSD	437.35	2.9745	1.8992	.1032
#1	-.00106	.00130	.01907	.9971
#2	.00054	.00136	.01856	.9956
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2859.0**	**2809.3**	**25007.**	**2956.6**
Stddev	2.5	7.0	33.	23.1
%RSD	.08644	.24775	.13031	.78148
#1	2860.7	2814.2	25030.	2973.0
#2	2857.2	2804.4	24984.	2940.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.154%	89.292%	89.080%	97.462%
Range				

Sample Name: 480-193482-E-6-A Acquired: 12/17/2021 20:35:38 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.01370**	**.00004**	**.03353**	**.04768**
Stddev	.00030	.00180	.00030	.00037	.00010
%RSD	132.73	13.120	712.80	1.0893	.20316
#1	.00001	.01497	-.00017	.03379	.04761
#2	.00044	.01243	.00026	.03327	.04775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**688.20**	**.00051**	**-.0764**	**-.00005**
Stddev	.00001	3.99	.00010	.0301	.00010
%RSD	6.6759	.57988	18.702	39.39	182.74
#1	-.00016	691.02	.00044	-.0977	-.00012
#2	-.00015	685.38	.00058	-.0551	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.00241**	**1.4709**	**3.5142**	**.04903**
Stddev	.00005	.00044	.0022	.0311	.00065
%RSD	10.609	18.251	.14697	.88405	1.3291
#1	.00047	.00272	1.4724	3.5362	.04856
#2	.00055	.00210	1.4694	3.4923	.04949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-6-A Acquired: 12/17/2021 20:35:38 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**178.39**	**.11543**	**-.00076**	**103.91**	**-.00053**
Stddev	.18	.00000	.00035	.56	.00047
%RSD	.09842	.00109	45.147	.53685	87.631
#1	178.27	.11544	-.00052	104.30	-.00086
#2	178.51	.11543	-.00101	103.51	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00177**	F **568.68**	**.00069**	**-.00538**
Stddev	.00	.00023	.08	.00043	.00116
%RSD	.0057	12.805	.01345	62.300	21.567
#1	25.02	.00161	568.74	.00038	-.00620
#2	25.02	.00193	568.63	.00099	-.00456
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.2618**	**.00068**	**4.8928**	**1.002**	**.00454**
Stddev	.0697	.00067	.0162	.000	.00058
%RSD	.95978	97.520	.33133	.0160	12.712
#1	7.3111	.00021	4.9042	1.002	.00495
#2	7.2125	.00116	4.8813	1.001	.00414
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-6-A Acquired: 12/17/2021 20:35:38 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00129**	**.00129**	**.9972**
Stddev	.00089	.00002	.00047	.0006
%RSD	666.17	1.2734	36.295	.0640
#1	.00077	-.00130	.00096	.9977
#2	-.00050	-.00128	.00163	.9968
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2810.3**	**2754.7**	**24699.**	**2884.8**
Stddev	2.0	2.2	24.	28.5
%RSD	.07266	.08117	.09689	.98688
#1	2811.8	2756.3	24716.	2864.7
#2	2808.9	2753.1	24682.	2904.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.790%	87.555%	87.984%	95.093%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 20:39:28 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0051**	**50.339**	**1.0020**	**1.0322**	**1.0060**
Stddev	.0013	.102	.0023	.0017	.0006
%RSD	.13236	.20348	.22653	.16169	.05760
#1	1.0042	50.267	1.0036	1.0334	1.0056
#2	1.0060	50.411	1.0004	1.0310	1.0064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0138**	**49.862**	**.99781**	**1.020**	**.97869**
Stddev	.0010	.052	.00066	.026	.00268
%RSD	.09552	.10409	.06664	2.511	.27416
#1	1.0131	49.826	.99734	1.002	.97680
#2	1.0145	49.899	.99828	1.038	.98059
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0077**	**.99558**	**50.494**	**49.780**	**1.0051**
Stddev	.0042	.00749	.017	.002	.0023
%RSD	.42101	.75188	.03294	.00346	.22677
#1	1.0047	.99029	50.506	49.779	1.0067
#2	1.0107	1.0009	50.482	49.781	1.0035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 20:39:28 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.639**	**1.0068**	**1.0148**	**50.225**	**.99488**
Stddev	.138	.0041	.0032	.027	.00103
%RSD	.27757	.41134	.31606	.05318	.10379
#1	49.542	1.0039	1.0171	50.206	.99415
#2	49.737	1.0098	1.0126	50.244	.99561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.40**	**.98099**	**24.586**	**.99584**	**.99049**
Stddev	.01	.00237	.021	.00052	.00418
%RSD	.0355	.24151	.08546	.05183	.42152
#1	37.41	.97931	24.601	.99621	.98753
#2	37.39	.98266	24.571	.99548	.99344
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9659**	**.97816**	**1.0155**	**1.510**	**.99996**
Stddev	.0211	.00070	.0002	.003	.00733
%RSD	.21219	.07119	.01721	.1994	.73296
#1	9.9509	.97767	1.0156	1.508	.99478
#2	9.9808	.97866	1.0154	1.512	1.0051
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 20:39:28 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	.99769	1.0032	1.0109	1.517
Stddev	.00600	.0049	.0051	.002
%RSD	.60183	.48320	.50049	.1531
#1	.99345	.99979	1.0074	1.515
#2	1.0019	1.0066	1.0145	1.519
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3089.1	3021.9	26418.	2970.6
Stddev	8.7	1.3	72.	3.7
%RSD	.28073	.04407	.27265	.12559
#1	3095.2	3022.8	26469.	2968.0
#2	3083.0	3020.9	26367.	2973.3

Sample Name: CCB-6819143 Acquired: 12/17/2021 20:43:01 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.01097**	**-.00104**	**-.00284**	**.00005**
Stddev	.00144	.00866	.00032	.00046	.00002
%RSD	1537.2	78.968	30.988	16.351	40.981
#1	-.00112	-.00484	-.00127	-.00251	.00007
#2	.00093	-.01709	-.00082	-.00316	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00634**	**.00010**	**.0119**	**-.00003**
Stddev	.00010	.00354	.00002	.0768	.00012
%RSD	366.31	55.830	16.057	648.0	472.96
#1	.00004	.00884	.00012	-.0425	-.00011
#2	-.00009	.00384	.00009	.0662	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00038**	**.00091**	**.01697**	**-.00343**
Stddev	.00021	.00056	.00485	.08113	.00035
%RSD	42.746	147.93	532.39	478.07	10.187
#1	.00063	.00078	-.00252	-.04040	-.00368
#2	.00034	-.00002	.00434	.07434	-.00318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 20:43:01 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00003**	**.00089**	**.01666**	**.00009**
Stddev	.00153	.00004	.00020	.00441	.00014
%RSD	192.61	124.57	22.702	26.467	163.52
#1	-.00029	.00006	.00074	.01978	.00019
#2	.00188	.00000	.00103	.01354	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00066**	**.02503**	**.00045**	**.00158**
Stddev	.00	.00158	.00330	.00195	.00453
%RSD	.0027	237.52	13.186	432.88	287.17
#1	25.01	-.00178	.02736	.00183	-.00163
#2	25.01	.00045	.02270	-.00093	.00478
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00481**	**.00017**	**.00016**	**1.009**	**-.00012**
Stddev	.01191	.00058	.00005	.003	.00013
%RSD	247.49	336.08	30.902	.3300	107.66
#1	.01323	-.00024	.00012	1.007	-.00022
#2	-.00361	.00058	.00019	1.011	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 20:43:01 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00004**	**-.00020**	**.9992**
Stddev	.00001	.00013	.00009	.0003
%RSD	2.7226	367.60	47.061	.0311
#1	.00040	-.00006	-.00026	.9990
#2	.00039	.00013	-.00013	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3611.5**	**3155.3**	**28148.**	**3049.9**
Stddev	10.1	10.9	71.	26.6
%RSD	.28008	.34406	.25202	.87242
#1	3604.3	3147.6	28097.	3068.7
#2	3618.6	3163.0	28198.	3031.1

Sample Name: CCVL-6819272 Acquired: 12/17/2021 20:46:49 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00555**	**.15958**	**.01187**	**.01657**	**.00208**
Stddev	.00039	.04416	.00019	.00016	.00003
%RSD	7.0581	27.674	1.6036	.98602	1.5608
#1	.00527	.12835	.01174	.01646	.00206
#2	.00583	.19081	.01201	.01669	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.51090**	**.00208**	**-.0194**	**.00365**
Stddev	.00008	.00091	.00008	.0332	.00007
%RSD	3.8586	.17827	3.8813	170.8	1.8172
#1	.00210	.51026	.00202	-.0429	.00361
#2	.00199	.51155	.00214	.0040	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00391**	**.01056**	**.04911**	**.44149**	**.02977**
Stddev	.00002	.00031	.00127	.03254	.00288
%RSD	.48208	2.9463	2.5771	7.3697	9.6836
#1	.00393	.01034	.05001	.46450	.03181
#2	.00390	.01079	.04822	.41848	.02773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 20:46:49 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19688**	**.00312**	**.01005**	**.96606**	**.00947**
Stddev	.00213	.00000	.00057	.00904	.00020
%RSD	1.0812	.09175	5.6557	.93539	2.0787
#1	.19538	.00312	.00964	.95967	.00961
#2	.19839	.00312	.01045	.97245	.00934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00875**	**.19712**	**.01916**	**.02194**
Stddev	.00	.00069	.00349	.00217	.00111
%RSD	.0032	7.8542	1.7694	11.312	5.0439
#1	25.00	.00826	.19959	.01762	.02272
#2	25.00	.00923	.19466	.02069	.02115
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46772**	**.00930**	**.00509**	F **.9974**	**.00418**
Stddev	.00246	.00029	.00002	.0002	.00013
%RSD	.52493	3.1099	.37514	.0153	3.2004
#1	.46599	.00910	.00508	.9973	.00408
#2	.46946	.00950	.00511	.9975	.00427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 20:46:49 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01887**	**.00497**	**.01014**	F **.9996**
Stddev	.00049	.00032	.00002	.0004
%RSD	2.6045	6.4899	.18985	.0386
#1	.01852	.00520	.01015	.9999
#2	.01922	.00475	.01013	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3583.5**	**3147.5**	**28176.**	**3054.9**
Stddev	3.1	3.0	161.	9.4
%RSD	.08628	.09649	.57250	.30827
#1	3581.3	3149.7	28290.	3061.6
#2	3585.7	3145.4	28062.	3048.3

Sample Name: 480-193482-E-7-A Acquired: 12/17/2021 20:50:36 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.01340**	**.00306**	**.00193**	**.84138**
Stddev	.00052	.02886	.00064	.00016	.00197
%RSD	107.02	215.36	20.973	8.2809	.23467
#1	.00085	.03381	.00261	.00182	.84278
#2	.00012	-.00701	.00352	.00205	.83999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**858.37**	**-.00080**	**-.0089**	**-.00009**
Stddev	.00004	2.07	.00001	.0272	.00004
%RSD	31.883	.24124	1.0463	305.0	42.183
#1	-.00010	856.91	-.00080	.0103	-.00012
#2	-.00016	859.84	-.00079	-.0282	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00413**	**.00395**	**.00645**	**25.083**	**.11214**
Stddev	.00022	.00014	.00091	.010	.00183
%RSD	5.4331	3.6094	14.039	.04145	1.6356
#1	.00397	.00385	.00581	25.090	.11344
#2	.00429	.00405	.00709	25.075	.11084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-7-A Acquired: 12/17/2021 20:50:36 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00558**	**.00135**	**.00637**	**51.122**	**.00405**
Stddev	.00198	.00000	.00012	.119	.00067
%RSD	35.428	.02364	1.8477	.23198	16.545
#1	.00697	.00135	.00646	51.206	.00358
#2	.00418	.00135	.00629	51.038	.00452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00151**	**61.127**	**.00085**	**-.00164**
Stddev	.00	.00195	.179	.00005	.00125
%RSD	.0051	129.71	.29305	6.3444	75.876
#1	25.01	.00012	61.254	.00081	-.00253
#2	25.01	.00289	61.000	.00088	-.00076
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14435**	**.00053**	**3.1832**	**1.002**	**.00475**
Stddev	.00883	.00002	.0065	.007	.00009
%RSD	6.1186	3.0503	.20376	.6970	1.9427
#1	.15060	.00054	3.1878	.9966	.00481
#2	.13810	.00052	3.1787	1.006	.00468
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-7-A Acquired: 12/17/2021 20:50:36 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00076**	**.00065**	**.00817**	**.9975**
Stddev	.00090	.00000	.00043	.0007
%RSD	117.74	.13501	5.2341	.0658
#1	.00013	.00065	.00847	.9971
#2	.00139	.00065	.00787	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2845.6**	**2800.9**	**25005.**	**2916.4**
Stddev	3.1	3.2	30.	17.0
%RSD	.11019	.11431	.11896	.58447
#1	2843.4	2798.6	24984.	2928.5
#2	2847.8	2803.2	25026.	2904.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.779%	89.024%	89.072%	96.135%
Range				

Sample Name: 480-193482-E-8-A Acquired: 12/17/2021 20:54:32 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.04442**	**.00098**	**.00449**	**.06081**
Stddev	.00029	.01430	.00093	.00015	.00009
%RSD	64.048	32.185	94.650	3.4487	.14617
#1	-.00066	.05453	.00163	.00438	.06087
#2	-.00025	.03431	.00032	.00460	.06074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**438.25**	**-.00025**	**-.0527**	**-.00025**
Stddev	.00007	7.98	.00000	.0125	.00005
%RSD	157.05	1.8203	1.7691	23.69	19.117
#1	-.00009	443.89	-.00024	-.0616	-.00022
#2	.00000	432.61	-.00025	-.0439	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00488**	**.00574**	**.03996**	**36.051**	**.09244**
Stddev	.00028	.00069	.00122	.165	.00042
%RSD	5.6829	12.097	3.0530	.45657	.45929
#1	.00508	.00525	.04082	36.167	.09274
#2	.00468	.00624	.03910	35.934	.09214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-8-A Acquired: 12/17/2021 20:54:32 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9320**	**.00098**	**.03486**	**113.93**	**.00642**
Stddev	.0245	.00004	.00005	.14	.00015
%RSD	.41285	4.3300	.15541	.12614	2.3350
#1	5.9493	.00095	.03490	114.03	.00653
#2	5.9147	.00101	.03482	113.83	.00632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00147**	F **426.70**	**.00130**	**-.00084**
Stddev	.00	.00014	.55	.00012	.00282
%RSD	.0062	9.7912	.12925	9.0673	334.05
#1	25.01	.00157	427.09	.00121	.00115
#2	25.01	.00137	426.31	.00138	-.00284
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2650**	**.00025**	**4.6801**	**1.003**	**.00246**
Stddev	.0195	.00011	.0225	.000	.00036
%RSD	.36987	45.957	.48116	.0208	14.465
#1	5.2788	.00033	4.6960	1.003	.00220
#2	5.2513	.00017	4.6642	1.002	.00271
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-8-A Acquired: 12/17/2021 20:54:32 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00103**	**.00305**	**.01039**	**.9991**
Stddev	.00095	.00047	.00067	.0007
%RSD	92.607	15.406	6.4557	.0725
#1	-.00170	.00338	.01087	.9986
#2	-.00036	.00271	.00992	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2962.2**	**2874.3**	**25586.**	**2963.1**
Stddev	.2	3.8	139.	15.2
%RSD	.00530	.13237	.54224	.51409
#1	2962.1	2871.6	25684.	2952.4
#2	2962.3	2877.0	25488.	2973.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.049%	91.356%	91.143%	97.675%
Range				

Sample Name: 480-193482-E-9-A Acquired: 12/17/2021 20:58:22 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.01892**	**.00025**	**.01630**	**.42913**
Stddev	.00012	.02267	.00121	.00051	.00067
%RSD	114.96	119.86	477.36	3.1508	.15666
#1	-.00002	.00288	.00111	.01594	.42866
#2	-.00020	.03495	-.00060	.01666	.42961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**473.62**	**-.00019**	**-.0017**	**-.00015**
Stddev	.00006	2.88	.00007	.0006	.00005
%RSD	52.399	.60854	37.593	36.09	32.776
#1	-.00016	471.58	-.00014	-.0022	-.00019
#2	-.00007	475.66	-.00024	-.0013	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00280**	**.00729**	**19.298**	**.05247**
Stddev	.00017	.00007	.00024	.021	.00160
%RSD	466.60	2.5902	3.2946	.10839	3.0585
#1	-.00008	.00285	.00746	19.283	.05361
#2	.00015	.00275	.00712	19.313	.05134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-9-A Acquired: 12/17/2021 20:58:22 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.074**	**.01673**	**.00436**	**99.964**	**.00390**
Stddev	.007	.00003	.00019	.465	.00029
%RSD	.05426	.18579	4.3903	.46488	7.3392
#1	12.079	.01671	.00423	99.636	.00410
#2	12.069	.01675	.00450	100.29	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00100**	F **105.52**	**-.00055**	**.00213**
Stddev	.00	.00024	.00	.00244	.00158
%RSD	.0003	24.416	.00442	445.14	74.126
#1	25.02	.00083	105.52	.00118	.00325
#2	25.02	.00118	105.53	-.00227	.00101
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3872**	**-.00020**	**2.8061**	**1.002**	**.00273**
Stddev	.0045	.00040	.0079	.007	.00057
%RSD	.32753	199.60	.27993	.6691	20.714
#1	1.3840	-.00048	2.8006	1.007	.00313
#2	1.3904	.00008	2.8117	.9972	.00233
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193482-E-9-A Acquired: 12/17/2021 20:58:22 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00013**	**.00402**	**.9987**
Stddev	.00077	.00003	.00026	.0008
%RSD	102.92	25.370	6.4198	.0784
#1	.00020	.00015	.00384	.9982
#2	.00129	.00011	.00420	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2963.5**	**2872.6**	**25429.**	**2930.9**
Stddev	3.4	6.0	209.	17.2
%RSD	.11476	.20992	.82084	.58749
#1	2961.1	2868.4	25281.	2943.1
#2	2965.9	2876.9	25577.	2918.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.086%	91.304%	90.584%	96.613%
Range				

Sample Name: MB 480-608622/1-A Acquired: 12/17/2021 21:02:12 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00007**	**-.00112**	**-.00356**	**-.00001**
Stddev	.00008	.02017	.00035	.00022	.00003
%RSD	38.402	29367.	31.621	6.2107	501.33
#1	.00016	.01419	-.00137	-.00340	.00001
#2	.00028	-.01433	-.00087	-.00372	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.05844**	**-.00003**	**-.0179**	**.00002**
Stddev	.00000	.00125	.00006	.0064	.00031
%RSD	.18079	2.1381	226.38	35.67	1811.4
#1	.00006	.05933	.00002	-.0224	.00024
#2	.00006	.05756	-.00007	-.0134	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00015**	**-.00229**	**-.02835**	**-.00083**
Stddev	.00037	.00008	.00026	.01562	.00083
%RSD	268.03	51.177	11.491	55.082	100.79
#1	-.00012	.00009	-.00247	-.01731	-.00141
#2	.00040	.00020	-.00210	-.03939	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608622/1-A Acquired: 12/17/2021 21:02:12 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**.00017**	**-.00067**	**.00009**	**-.00001**
Stddev	.00145	.00010	.00007	.00820	.00009
%RSD	134.61	59.559	10.618	9084.7	702.20
#1	.00005	.00010	-.00072	.00589	-.00007
#2	.00211	.00025	-.00062	-.00571	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00045**	**.02868**	**-.00199**	**.00001**
Stddev	.00	.00130	.00301	.00026	.00004
%RSD	.0024	287.22	10.489	13.261	774.90
#1	25.01	-.00138	.02656	-.00180	.00004
#2	25.01	.00047	.03081	-.00218	-.00003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00619**	**.00039**	**.00019**	**.9961**	**-.00053**
Stddev	.02563	.00030	.00006	.0062	.00012
%RSD	414.27	78.692	33.611	.6202	22.793
#1	.01194	.00017	.00014	1.000	-.00062
#2	-.02431	.00060	.00023	.9917	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608622/1-A Acquired: 12/17/2021 21:02:12 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.00008**	**.00128**	**.9989**
Stddev	.00137	.00009	.00003	.0004
%RSD	196.91	113.90	2.2962	.0351
#1	-.00167	.00014	.00130	.9986
#2	.00027	.00001	.00125	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3639.6**	**3206.9**	**28572.**	**3142.6**
Stddev	9.8	7.9	73.	8.6
%RSD	.26954	.24780	.25386	.27257
#1	3646.6	3212.5	28624.	3136.5
#2	3632.7	3201.2	28521.	3148.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.04%	101.93%	101.78%	103.59%
Range				

Sample Name: LCS 480-608622/2-A Acquired: 12/17/2021 21:05:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04886**	**10.126**	**.21121**	**.20143**	**.20347**
Stddev	.00072	.015	.00327	.00040	.00007
%RSD	1.4731	.14973	1.5493	.19853	.03437
#1	.04937	10.136	.20890	.20114	.20352
#2	.04835	10.115	.21353	.20171	.20342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21492**	**9.9754**	**.19811**	**-.0372**	**.18679**
Stddev	.00026	.0108	.00015	.0197	.00041
%RSD	.12315	.10871	.07626	52.98	.21935
#1	.21473	9.9830	.19822	-.0512	.18650
#2	.21511	9.9677	.19801	-.0233	.18708
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20094**	**.19931**	**9.9786**	**9.7715**	**.19673**
Stddev	.00035	.00031	.0109	.0458	.00204
%RSD	.17439	.15600	.10950	.46841	1.0384
#1	.20118	.19953	9.9709	9.8038	.19529
#2	.20069	.19909	9.9864	9.7391	.19818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608622/2-A Acquired: 12/17/2021 21:05:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.233**	**.20645**	**.20648**	**9.8367**	**.19247**
Stddev	.000	.00037	.00017	.0159	.00000
%RSD	.00027	.17926	.08389	.16184	.00236
#1	10.233	.20618	.20636	9.8255	.19247
#2	10.233	.20671	.20660	9.8480	.19247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.83**	**.19206**	**9.6142**	**.21044**	**.19750**
Stddev	.00	.00015	.0236	.00260	.00194
%RSD	.0081	.07995	.24562	1.2368	.98147
#1	24.83	.19195	9.6309	.20860	.19887
#2	24.83	.19217	9.5975	.21228	.19613
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5256**	**.18456**	**.20255**	**1.005**	**.20213**
Stddev	.0188	.00047	.00001	.000	.00024
%RSD	.19724	.25214	.00686	.0221	.11770
#1	9.5389	.18423	.20256	1.005	.20230
#2	9.5123	.18489	.20254	1.005	.20196
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608622/2-A Acquired: 12/17/2021 21:05:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20117**	**.20052**	**.20519**	**1.004**
Stddev	.00171	.00025	.00008	.000
%RSD	.84764	.12566	.03806	.0266
#1	.19996	.20034	.20514	1.004
#2	.20237	.20070	.20525	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3443.9**	**3123.0**	**27657.**	**3070.9**
Stddev	3.1	.3	69.	27.3
%RSD	.09084	.00926	.24922	.88829
#1	3446.1	3123.2	27609.	3051.6
#2	3441.6	3122.8	27706.	3090.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.552%	99.262%	98.522%	101.23%
Range				

Sample Name: 480-193330-D-1-A Acquired: 12/17/2021 21:09:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**-.00260**	**-.00076**	**.87776**	**.04995**
Stddev	.00003	.00299	.00071	.00055	.00008
%RSD	6.4274	114.78	93.048	.06301	.15093
#1	.00052	-.00049	-.00026	.87736	.04989
#2	.00047	-.00472	-.00126	.87815	.05000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**16.462**	**.00009**	**-.0265**	**-.00003**
Stddev	.00019	.035	.00005	.0189	.00022
%RSD	293.97	.21288	60.875	71.37	737.44
#1	.00020	16.487	.00012	-.0131	.00013
#2	-.00007	16.437	.00005	-.0398	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00013**	**.27657**	**1.4562**	**.00571**
Stddev	.00018	.00040	.00331	.0031	.00016
%RSD	253.99	321.39	1.1967	.21256	2.7264
#1	.00006	-.00041	.27423	1.4584	.00582
#2	-.00020	.00016	.27891	1.4540	.00560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-1-A Acquired: 12/17/2021 21:09:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1414**	**.01566**	**.11843**	**76.499**	**-.00030**
Stddev	.0077	.00007	.00094	.321	.00043
%RSD	.12563	.42298	.79381	.41942	142.53
#1	6.1469	.01571	.11909	76.726	.00000
#2	6.1360	.01562	.11776	76.272	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00095**	**.09455**	**-.00119**	**-.00167**
Stddev	.00	.00084	.00384	.00027	.00064
%RSD	.0006	88.084	4.0651	22.603	38.230
#1	25.02	-.00036	.09727	-.00100	-.00212
#2	25.02	-.00155	.09183	-.00138	-.00122
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4904**	**.00087**	**.75741**	**.9969**	**-.00004**
Stddev	.0042	.00008	.00256	.0118	.00017
%RSD	.07586	8.7888	.33790	1.186	419.05
#1	5.4874	.00093	.75922	1.005	.00008
#2	5.4933	.00082	.75560	.9885	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-1-A Acquired: 12/17/2021 21:09:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00022**	**.00065**	**.9975**
Stddev	.00099	.00034	.00012	.0005
%RSD	2418.7	157.96	18.006	.0492
#1	-.00066	.00046	.00057	.9972
#2	.00074	-.00003	.00074	.9979
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3316.6**	**3058.1**	**27030.**	**3016.6**
Stddev	3.5	4.8	16.	11.0
%RSD	.10563	.15800	.05829	.36618
#1	3314.1	3054.7	27019.	3008.8
#2	3319.0	3061.5	27042.	3024.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.984%	97.199%	96.289%	99.440%
Range				

Sample Name: 480-193330-D-1-ASD@5 Acquired: 12/17/2021 21:13:18 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.02518**	**-.00325**	**.16918**	**.01038**
Stddev	.00141	.02132	.00091	.00041	.00000
%RSD	828.37	84.668	28.128	.24010	.03487
#1	-.00083	-.04025	-.00261	.16947	.01038
#2	.00117	-.01010	-.00390	.16889	.01039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**3.3083**	**.00007**	**-.0092**	**-.00000**
Stddev	.00003	.0159	.00012	.0502	.00001
%RSD	51.780	.47962	179.88	546.2	246.18
#1	.00008	3.2970	-.00002	-.0447	-.00001
#2	.00004	3.3195	.00015	.0263	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00006**	**.05372**	**.25299**	**-.00051**
Stddev	.00007	.00013	.00027	.00863	.00198
%RSD	1298.9	223.80	.49481	3.4128	385.97
#1	.00004	-.00015	.05391	.25910	.00089
#2	-.00006	.00003	.05354	.24689	-.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-1-ASD@5 Acquired: 12/17/2021 21:13:18 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2289**	**.00318**	**.02290**	**14.638**	**-.00021**
Stddev	.0059	.00007	.00025	.044	.00017
%RSD	.47801	2.0671	1.0879	.29921	77.571
#1	1.2331	.00323	.02272	14.607	-.00010
#2	1.2247	.00313	.02307	14.669	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00070**	**.02685**	**-.00030**	**-.00002**
Stddev	.00	.00095	.00122	.00186	.00049
%RSD	.0096	135.33	4.5286	616.93	2941.0
#1	25.01	-.00003	.02599	.00101	-.00036
#2	25.01	-.00138	.02770	-.00161	.00033
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0837**	**.00041**	**.15173**	**.9969**	**-.00050**
Stddev	.0049	.00072	.00032	.0023	.00077
%RSD	.45006	178.16	.21398	.2342	154.92
#1	1.0872	.00092	.15150	.9986	-.00104
#2	1.0803	-.00011	.15196	.9953	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-1-ASD@5 Acquired: 12/17/2021 21:13:18 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00034**	**.00004**	**.9981**
Stddev	.00057	.00016	.00010	.0013
%RSD	182.68	48.070	255.36	.1340
#1	.00071	.00045	-.00003	.9991
#2	-.00009	.00022	.00011	.9972
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3497.6**	**3112.7**	**27791.**	**3026.0**
Stddev	.6	.4	21.	20.5
%RSD	.01658	.01229	.07426	.67827
#1	3497.2	3112.5	27776.	3040.6
#2	3498.0	3113.0	27805.	3011.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.060%	98.935%	98.997%	99.749%
Range				

Sample Name: 480-193330-D-1-APDS Acquired: 12/17/2021 21:17:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04932**	**9.6326**	**.21155**	**1.0484**	**.25019**
Stddev	.00057	.1035	.00043	.0012	.00021
%RSD	1.1467	1.0746	.20191	.11012	.08473
#1	.04892	9.5595	.21186	1.0475	.25004
#2	.04972	9.7058	.21125	1.0492	.25034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21131**	**25.613**	**.20374**	**-.0539**	**.19752**
Stddev	.00005	.021	.00006	.0463	.00024
%RSD	.02155	.08223	.03061	85.90	.12109
#1	.21128	25.628	.20370	-.0867	.19769
#2	.21134	25.598	.20379	-.0212	.19736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20002**	**.20370**	**10.402**	**11.051**	**.19635**
Stddev	.00053	.00056	.037	.040	.00183
%RSD	.26710	.27359	.35142	.36594	.93373
#1	.20040	.20410	10.428	11.023	.19765
#2	.19964	.20331	10.376	11.080	.19506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-1-APDS Acquired: 12/17/2021 21:17:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.075**	**.22032**	**.32275**	**80.837**	**.19959**
Stddev	.037	.00009	.00007	.210	.00031
%RSD	.22897	.03904	.02048	.26032	.15635
#1	16.049	.22025	.32270	80.688	.19936
#2	16.101	.22038	.32279	80.986	.19981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.85**	**.20115**	**9.7790**	**.21530**	**.19764**
Stddev	.00	.00080	.0393	.00376	.00088
%RSD	.0049	.39564	.40205	1.7454	.44660
#1	24.85	.20058	9.7512	.21795	.19827
#2	24.84	.20171	9.8068	.21264	.19702
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.607**	**.19045**	**.92195**	**1.002**	**.20657**
Stddev	.024	.00035	.00238	.001	.00017
%RSD	.16634	.18279	.25861	.0454	.08152
#1	14.624	.19069	.92364	1.002	.20668
#2	14.589	.19020	.92027	1.002	.20645
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-1-APDS Acquired: 12/17/2021 21:17:03 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20466**	**.20267**	**.20633**	**1.001**
Stddev	.00050	.00021	.00031	.001
%RSD	.24255	.10177	.15036	.0561
#1	.20501	.20252	.20611	1.001
#2	.20431	.20281	.20655	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3248.6**	**3087.5**	**27331.**	**3117.1**
Stddev	2.0	.5	29.	2.5
%RSD	.06302	.01480	.10758	.07948
#1	3247.1	3087.2	27310.	3118.9
#2	3250.0	3087.8	27352.	3115.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.078%	98.133%	97.359%	102.75%
Range				

Sample Name: 480-193330-D-1-B MS Acquired: 12/17/2021 21:20:37 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05009**	**9.9956**	**.21396**	**1.0879**	**.25534**
Stddev	.00038	.1036	.00132	.0008	.00030
%RSD	.74990	1.0360	.61860	.07547	.11843
#1	.05036	10.069	.21302	1.0873	.25513
#2	.04983	9.9224	.21490	1.0885	.25556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21399**	**26.344**	**.20135**	**-.0539**	**.19518**
Stddev	.00164	.125	.00028	.0010	.00022
%RSD	.76761	.47626	.13823	1.816	.11379
#1	.21515	26.432	.20154	-.0532	.19534
#2	.21283	26.255	.20115	-.0546	.19503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20105**	**.20066**	**10.358**	**11.513**	**.20697**
Stddev	.00003	.00129	.041	.094	.00039
%RSD	.01376	.64522	.39832	.81898	.19016
#1	.20107	.19974	10.387	11.580	.20725
#2	.20103	.20158	10.328	11.446	.20670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-1-B MS Acquired: 12/17/2021 21:20:37 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.481**	**.22211**	**.32781**	**85.505**	**.19963**
Stddev	.030	.00013	.00042	.892	.00001
%RSD	.17925	.05679	.12705	1.0426	.00258
#1	16.501	.22202	.32810	86.135	.19964
#2	16.460	.22220	.32751	84.874	.19963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.20012**	**9.9577**	**.21125**	**.20249**
Stddev	.00	.00081	.0270	.00052	.00003
%RSD	.0014	.40447	.27067	.24557	.01628
#1	24.84	.19955	9.9768	.21162	.20251
#2	24.84	.20069	9.9387	.21089	.20246
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.086**	**.19340**	**.96717**	**1.004**	**.20553**
Stddev	.064	.00003	.00279	.006	.00005
%RSD	.42741	.01699	.28881	.5634	.02212
#1	15.131	.19337	.96914	.9996	.20557
#2	15.040	.19342	.96519	1.008	.20550
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-1-B MS Acquired: 12/17/2021 21:20:37 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20274**	**.20303**	**.20778**	**.9992**
Stddev	.00076	.00004	.00070	.0010
%RSD	.37406	.02114	.33774	.0994
#1	.20328	.20300	.20828	.9985
#2	.20221	.20306	.20729	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3233.4**	**3069.9**	**27044.**	**3084.3**
Stddev	5.9	3.5	34.	6.1
%RSD	.18148	.11355	.12445	.19877
#1	3237.6	3072.4	27020.	3080.0
#2	3229.3	3067.4	27068.	3088.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.653%	97.574%	96.338%	101.67%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 21:24:15 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0005**	**50.625**	**1.0198**	**1.0372**	**1.0017**
Stddev	.0039	.332	.0028	.0000	.0035
%RSD	.38554	.65657	.27209	.00131	.34788
#1	1.0032	50.390	1.0218	1.0372	.99926
#2	.99776	50.860	1.0179	1.0372	1.0042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0247**	**50.127**	**.99486**	**1.110**	**.97282**
Stddev	.0037	.225	.00191	.033	.00051
%RSD	.36113	.44836	.19184	2.940	.05225
#1	1.0221	49.968	.99621	1.087	.97246
#2	1.0273	50.286	.99351	1.133	.97318
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0187**	**.99508**	**50.250**	**49.626**	**1.0072**
Stddev	.0023	.00441	.218	.253	.0008
%RSD	.22182	.44360	.43366	.50933	.07858
#1	1.0203	.99820	50.096	49.447	1.0067
#2	1.0171	.99196	50.404	49.804	1.0078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 21:24:15 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.906**	**1.0105**	**1.0199**	**50.491**	**.99786**
Stddev	.058	.0006	.0025	.212	.00098
%RSD	.11550	.06383	.24271	.41976	.09796
#1	49.865	1.0101	1.0216	50.341	.99717
#2	49.946	1.0110	1.0181	50.641	.99855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.48**	**.97887**	**24.703**	**.99238**	**1.0009**
Stddev	.04	.00008	.045	.00183	.0021
%RSD	.0997	.00858	.18399	.18404	.20910
#1	37.50	.97881	24.735	.99367	1.0024
#2	37.45	.97893	24.671	.99109	.99946
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.046**	**.97983**	**1.0150**	**1.505**	**1.0052**
Stddev	.079	.00102	.0039	.007	.0014
%RSD	.78840	.10379	.38794	.4765	.13798
#1	9.9904	.97911	1.0122	1.500	1.0061
#2	10.102	.98055	1.0178	1.510	1.0042
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 21:24:15 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0045**	**1.0102**	**1.0248**	**1.514**
Stddev	.0021	.0013	.0024	.004
%RSD	.20993	.12619	.23794	.2987
#1	1.0030	1.0111	1.0230	1.511
#2	1.0060	1.0093	1.0265	1.517
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3092.7**	**3014.7**	**26316.**	**2954.1**
Stddev	.1	6.0	6.	21.4
%RSD	.00412	.19822	.02238	.72581
#1	3092.6	3010.5	26320.	2969.3
#2	3092.8	3019.0	26312.	2938.9

Sample Name: CCB-6819143 Acquired: 12/17/2021 21:27:48 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00822**	**-.00223**	**-.00126**	**.00005**
Stddev	.00044	.04379	.00120	.00013	.00001
%RSD	291.11	532.44	53.914	10.025	27.478
#1	.00047	.02274	-.00308	-.00117	.00004
#2	-.00016	-.03919	-.00138	-.00134	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00282**	**.00007**	**-.0124**	**-.00002**
Stddev	.00006	.00669	.00005	.0454	.00002
%RSD	54.411	237.75	67.360	366.6	101.75
#1	.00007	-.00192	.00010	-.0444	-.00003
#2	.00015	.00755	.00004	.0197	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00001**	**.00225**	**-.02879**	**-.00199**
Stddev	.00025	.00019	.00207	.00578	.00146
%RSD	224.97	2355.1	92.217	20.069	73.594
#1	-.00007	.00013	.00078	-.02470	-.00095
#2	.00029	-.00014	.00371	-.03287	-.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 21:27:48 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.00009**	**.00110**	**-.00994**	**-.00035**
Stddev	.00087	.00007	.00031	.01288	.00028
%RSD	42.564	75.462	28.558	129.59	79.952
#1	.00143	.00014	.00088	-.01905	-.00015
#2	.00266	.00004	.00132	-.00083	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00091**	**.00496**	**.00069**	**.00049**
Stddev	.00	.00021	.00255	.00039	.00257
%RSD	.0005	22.839	51.483	56.035	522.37
#1	25.01	-.00106	.00316	.00042	-.00132
#2	25.01	-.00077	.00677	.00097	.00231
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01288**	**.00032**	**-.00000**	**.9986**	**.00009**
Stddev	.02616	.00035	.00006	.0118	.00014
%RSD	203.14	108.92	39366.	1.177	158.79
#1	-.00562	.00056	-.00004	.9903	.00019
#2	.03138	.00007	.00004	1.007	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 21:27:48 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00017**	**-.00001**	**.9993**
Stddev	.00067	.00025	.00011	.0013
%RSD	204.65	146.87	1142.3	.1278
#1	.00080	.00034	.00007	1.000
#2	-.00015	-.00001	-.00009	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3589.1**	**3123.0**	**27970.**	**3004.5**
Stddev	1.0	1.7	25.	5.1
%RSD	.02774	.05330	.08913	.17015
#1	3589.8	3124.2	27987.	3000.9
#2	3588.4	3121.8	27952.	3008.1

Sample Name: CCVL-6819272 Acquired: 12/17/2021 21:31:38 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00653**	**.19388**	**.01418**	**.01728**	**.00208**
Stddev	.00096	.03236	.00008	.00062	.00005
%RSD	14.632	16.689	.53057	3.5792	2.5484
#1	.00721	.17100	.01423	.01685	.00205
#2	.00586	.21676	.01412	.01772	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00199**	**.50041**	**.00197**	**-.0402**	**.00352**
Stddev	.00004	.00223	.00000	.0437	.00017
%RSD	1.9555	.44658	.10945	108.8	4.7640
#1	.00196	.49883	.00197	-.0093	.00340
#2	.00202	.50199	.00197	-.0711	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00410**	**.01052**	**.04837**	**.40765**	**.02795**
Stddev	.00048	.00019	.00222	.00617	.00076
%RSD	11.649	1.8361	4.5880	1.5134	2.7123
#1	.00377	.01039	.04680	.41202	.02742
#2	.00444	.01066	.04994	.40329	.02849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 21:31:38 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19461**	**.00311**	**.00990**	**.97234**	**.00913**
Stddev	.00286	.00006	.00002	.00330	.00012
%RSD	1.4681	1.8920	.24593	.33961	1.2646
#1	.19663	.00315	.00989	.97467	.00921
#2	.19259	.00307	.00992	.97000	.00905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00917**	**.18969**	**.01890**	**.02265**
Stddev	.00	.00041	.00271	.00032	.00549
%RSD	.0016	4.4875	1.4263	1.6688	24.250
#1	25.00	.00888	.18777	.01912	.02654
#2	25.00	.00946	.19160	.01868	.01877
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46839**	**.00911**	**.00495**	F **.9953**	**.00421**
Stddev	.00861	.00001	.00014	.0050	.00022
%RSD	1.8382	.06865	2.7304	.5027	5.2244
#1	.47448	.00911	.00505	.9988	.00406
#2	.46231	.00912	.00486	.9917	.00437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 21:31:38 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01994**	**.00486**	**.00970**	F **.9986**
Stddev	.00078	.00025	.00011	.0002
%RSD	3.9186	5.1380	1.1734	.0172
#1	.01939	.00468	.00962	.9987
#2	.02049	.00504	.00978	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3600.2**	**3156.0**	**28343.**	**3045.1**
Stddev	.8	1.6	114.	1.6
%RSD	.02252	.05111	.40305	.05156
#1	3599.6	3154.9	28424.	3043.9
#2	3600.7	3157.2	28263.	3046.2

Sample Name: 480-193330-D-1-C MSD Acquired: 12/17/2021 21:35:26 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05007**	**10.042**	**.21318**	**1.0842**	**.25665**
Stddev	.00025	.029	.00284	.0008	.00024
%RSD	.49022	.28599	1.3324	.07358	.09215
#1	.05024	10.062	.21117	1.0837	.25682
#2	.04989	10.022	.21518	1.0848	.25648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21346**	**26.309**	**.20275**	**-.0424**	**.19761**
Stddev	.00049	.129	.00037	.0305	.00006
%RSD	.23027	.49001	.18402	71.91	.02815
#1	.21381	26.400	.20249	-.0208	.19765
#2	.21311	26.218	.20302	-.0639	.19757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20090**	**.20143**	**10.409**	**11.443**	**.20591**
Stddev	.00050	.00007	.046	.002	.00193
%RSD	.25090	.03400	.44571	.02164	.93653
#1	.20054	.20148	10.442	11.444	.20727
#2	.20125	.20138	10.376	11.441	.20454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-1-C MSD Acquired: 12/17/2021 21:35:26 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.524**	**.22250**	**.32695**	**84.540**	**.20112**
Stddev	.002	.00031	.00039	.295	.00049
%RSD	.01455	.13831	.11923	.34863	.24304
#1	16.525	.22272	.32668	84.749	.20077
#2	16.522	.22228	.32723	84.332	.20146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.20324**	**10.039**	**.21690**	**.19984**
Stddev	.00	.00021	.029	.00287	.00333
%RSD	.0066	.10323	.28672	1.3240	1.6666
#1	24.84	.20338	10.019	.21893	.20220
#2	24.84	.20309	10.059	.21486	.19749
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.985**	**.19403**	**.95564**	**.9987**	**.20628**
Stddev	.059	.00048	.00396	.0078	.00030
%RSD	.39343	.24805	.41463	.7783	.14568
#1	15.027	.19369	.95844	.9932	.20607
#2	14.943	.19437	.95284	1.004	.20649
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-1-C MSD Acquired: 12/17/2021 21:35:26 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20409**	**.20238**	**.21054**	**1.004**
Stddev	.00032	.00026	.00099	.001
%RSD	.15787	.12855	.46942	.0513
#1	.20386	.20256	.21124	1.004
#2	.20432	.20220	.20984	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3236.4**	**3084.2**	**27143.**	**3103.4**
Stddev	3.0	3.9	26.	13.5
%RSD	.09417	.12524	.09415	.43630
#1	3238.6	3087.0	27125.	3093.8
#2	3234.3	3081.5	27161.	3113.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.737%	98.029%	96.688%	102.30%
Range				

Sample Name: 480-193330-D-2-A Acquired: 12/17/2021 21:39:01 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.07080**	**-.00090**	**.74123**	**.03618**
Stddev	.00014	.03149	.00082	.00166	.00006
%RSD	1200.1	44.483	91.197	.22401	.16142
#1	.00009	.09307	-.00032	.74006	.03622
#2	-.00011	.04853	-.00147	.74241	.03613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**11.446**	**.00010**	**-.0174**	**.00009**
Stddev	.00007	.008	.00011	.0517	.00008
%RSD	239.45	.06568	111.03	297.5	86.566
#1	-.00002	11.451	.00018	-.0540	.00004
#2	.00008	11.441	.00002	.0192	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00070**	**.16200**	**1.0008**	**.00584**
Stddev	.00024	.00083	.00090	.0632	.00138
%RSD	483.58	118.52	.55690	6.3138	23.666
#1	.00012	-.00011	.16264	1.0455	.00681
#2	-.00022	-.00128	.16137	.95611	.00486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-2-A Acquired: 12/17/2021 21:39:01 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8028**	**.01354**	**.06218**	**81.185**	**-.00035**
Stddev	.0052	.00004	.00001	.138	.00018
%RSD	.10809	.29142	.01415	.17046	52.145
#1	4.7991	.01356	.06217	81.283	-.00022
#2	4.8065	.01351	.06218	81.087	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00045**	**.71937**	**-.00140**	**.00073**
Stddev	.00	.00061	.00336	.00033	.00156
%RSD	.0018	135.62	.46664	23.724	213.67
#1	25.02	.00002	.72174	-.00164	-.00037
#2	25.03	.00088	.71699	-.00117	.00183
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4838**	**.00146**	**.47770**	**.9945**	**.00200**
Stddev	.0053	.00036	.00057	.0022	.00080
%RSD	.09731	24.748	.11974	.2201	39.783
#1	5.4801	.00172	.47810	.9929	.00256
#2	5.4876	.00121	.47729	.9960	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-2-A Acquired: 12/17/2021 21:39:01 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.00015**	**.00289**	**.9979**
Stddev	.00047	.00010	.00020	.0015
%RSD	65.439	66.137	6.8740	.1456
#1	-.00105	.00022	.00303	.9969
#2	-.00039	.00008	.00275	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3318.8**	**3065.7**	**27015.**	**3038.7**
Stddev	.7	3.5	69.	14.0
%RSD	.02034	.11510	.25626	.46229
#1	3318.4	3068.2	27064.	3028.8
#2	3319.3	3063.2	26966.	3048.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.047%	97.440%	96.233%	100.17%
Range				

Sample Name: 480-193330-D-3-A Acquired: 12/17/2021 21:42:46 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.00729**	**.00049**	**.17676**	**.23838**
Stddev	.00026	.00963	.00032	.00060	.00046
%RSD	43.540	132.03	65.811	.34106	.19197
#1	-.00078	.01410	.00072	.17633	.23805
#2	-.00041	.00048	.00026	.17718	.23870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**40.557**	**.00040**	**-.0011**	**-.00015**
Stddev	.00000	.179	.00002	.0465	.00001
%RSD	2.9201	.44219	3.8030	4101.	3.7593
#1	-.00003	40.684	.00041	-.0340	-.00015
#2	-.00003	40.430	.00039	.0318	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00037**	**.33048**	**1.3157**	**.01163**
Stddev	.00023	.00083	.00302	.0043	.00189
%RSD	904.45	226.92	.91254	.32645	16.280
#1	.00018	-.00095	.33261	1.3188	.01297
#2	-.00013	.00022	.32835	1.3127	.01029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-3-A Acquired: 12/17/2021 21:42:46 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.997**	**.01340**	**.00435**	**15.249**	**-.00016**
Stddev	.007	.00001	.00004	.047	.00032
%RSD	.02910	.10688	.96307	.30501	202.51
#1	23.992	.01341	.00432	15.282	-.00038
#2	24.002	.01339	.00438	15.216	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00151**	**4.8288**	**.00007**	**-.00277**
Stddev	.00	.00141	.0058	.00217	.00145
%RSD	.0066	93.137	.11932	2976.4	52.164
#1	25.02	.00250	4.8247	.00161	-.00175
#2	25.02	.00052	4.8328	-.00146	-.00379
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3484**	**.00093**	**6.0228**	**.9971**	**.00083**
Stddev	.0387	.00025	.0773	.0044	.00011
%RSD	.46376	26.739	1.2836	.4372	13.194
#1	8.3758	.00076	5.9681	1.000	.00075
#2	8.3210	.00111	6.0774	.9940	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-3-A Acquired: 12/17/2021 21:42:46 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00078**	**.00103**	**.9965**
Stddev	.00066	.00029	.00007	.0001
%RSD	807.52	37.395	6.9255	.0110
#1	-.00038	-.00098	.00108	.9964
#2	.00054	-.00057	.00098	.9966
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3340.0**	**3070.6**	**27380.**	**3006.7**
Stddev	4.3	1.2	18.	6.6
%RSD	.12888	.04012	.06499	.21824
#1	3337.0	3069.8	27393.	3011.4
#2	3343.1	3071.5	27367.	3002.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.642%	97.597%	97.534%	99.113%
Range				

Sample Name: 480-193330-D-4-A Acquired: 12/17/2021 21:46:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00980**	**.00824**	**.87336**	**.04584**
Stddev	.00106	.01241	.00022	.00069	.00002
%RSD	281.64	126.59	2.6349	.07929	.05373
#1	.00113	.00103	.00808	.87385	.04582
#2	-.00037	.01858	.00839	.87287	.04586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**15.092**	**.00024**	**-.0123**	**-.00000**
Stddev	.00002	.051	.00011	.0154	.00006
%RSD	21.610	.33863	44.998	124.4	1826.1
#1	.00009	15.056	.00017	-.0232	.00004
#2	.00007	15.128	.00032	-.0015	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00143**	**.11264**	**2.1600**	**.00177**
Stddev	.00042	.00109	.00382	.0059	.00058
%RSD	194.21	76.456	3.3877	.27092	32.954
#1	-.00008	.00221	.10994	2.1641	.00219
#2	.00051	.00066	.11534	2.1559	.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-4-A Acquired: 12/17/2021 21:46:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1424**	**.01819**	**.16067**	**72.580**	**.00020**
Stddev	.0100	.00007	.00024	.528	.00025
%RSD	.19390	.37890	.14742	.72742	125.18
#1	5.1353	.01824	.16084	72.206	.00002
#2	5.1494	.01814	.16050	72.953	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00067**	**5.1178**	**-.00039**	**.00003**
Stddev	.00	.00002	.0011	.00060	.00115
%RSD	.0013	3.7352	.02079	152.01	3867.6
#1	25.02	.00065	5.1185	.00003	.00084
#2	25.02	.00068	5.1170	-.00081	-.00078
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2947**	**.00100**	**.55857**	**1.003**	**-.00040**
Stddev	.0143	.00014	.00231	.003	.00001
%RSD	.26971	14.298	.41387	.2755	3.1510
#1	5.2846	.00110	.55694	1.005	-.00039
#2	5.3048	.00090	.56021	1.001	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-4-A Acquired: 12/17/2021 21:46:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00030**	**.00191**	**.9973**
Stddev	.00145	.00031	.00001	.0020
%RSD	829.89	103.03	.62921	.2027
#1	.00085	.00008	.00190	.9959
#2	-.00120	.00051	.00191	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3327.1**	**3059.2**	**27311.**	**3052.2**
Stddev	12.3	12.2	14.	11.6
%RSD	.36836	.40025	.05128	.37885
#1	3318.4	3050.6	27301.	3060.4
#2	3335.8	3067.9	27321.	3044.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.279%	97.235%	97.288%	100.61%
Range				

Sample Name: 480-193330-D-5-A Acquired: 12/17/2021 21:50:17 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00756**	**.00733**	**.68236**	**.06456**
Stddev	.00016	.03148	.00073	.00046	.00001
%RSD	38.127	416.32	10.018	.06703	.00896
#1	.00054	.02982	.00785	.68268	.06456
#2	.00031	-.01470	.00681	.68204	.06456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**18.259**	**.00014**	**.0005**	**.00008**
Stddev	.00003	.083	.00006	.0441	.00002
%RSD	108.40	.45702	46.504	9577.	22.182
#1	.00001	18.200	.00009	-.0307	.00009
#2	.00005	18.318	.00018	.0316	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00080**	**.02802**	**1.3450**	**.00104**
Stddev	.00014	.00032	.00013	.0525	.00040
%RSD	931.90	39.868	.46089	3.9047	38.572
#1	.00011	.00102	.02811	1.3821	.00076
#2	-.00008	.00057	.02793	1.3078	.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-5-A Acquired: 12/17/2021 21:50:17 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6517**	**.03220**	**.25722**	**63.457**	**.00062**
Stddev	.0119	.00004	.00045	.049	.00028
%RSD	.20996	.11284	.17368	.07731	45.387
#1	5.6434	.03222	.25753	63.422	.00042
#2	5.6601	.03217	.25690	63.492	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00053**	**2.6785**	**-.00287**	**-.00126**
Stddev	.00	.00021	.0007	.00137	.00063
%RSD	.0037	40.180	.02614	47.713	50.105
#1	25.01	-.00068	2.6790	-.00190	-.00081
#2	25.01	-.00038	2.6780	-.00384	-.00171
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4169**	**.00091**	**.43809**	**.9963**	**-.00033**
Stddev	.0294	.00015	.00085	.0034	.00006
%RSD	.66547	16.153	.19302	.3374	16.573
#1	4.3961	.00101	.43750	.9939	-.00029
#2	4.4377	.00080	.43869	.9987	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-5-A Acquired: 12/17/2021 21:50:17 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00034**	**.00298**	**.9981**
Stddev	.00107	.00032	.00059	.0011
%RSD	503.92	92.471	19.778	.1113
#1	-.00097	.00012	.00340	.9973
#2	.00054	.00057	.00257	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3349.9**	**3099.2**	**27570.**	**3087.4**
Stddev	3.3	1.1	77.	1.8
%RSD	.09848	.03555	.28043	.05867
#1	3352.2	3100.0	27516.	3086.2
#2	3347.6	3098.4	27625.	3088.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.918%	98.505%	98.212%	101.77%
Range				

Sample Name: 480-193330-D-6-A Acquired: 12/17/2021 21:53:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**.03861**	**.00491**	**.67352**	**.10309**
Stddev	.00002	.00508	.00056	.00192	.00013
%RSD	1.9794	13.164	11.397	.28489	.12603
#1	-.00094	.04220	.00531	.67488	.10318
#2	-.00091	.03502	.00452	.67216	.10300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**20.402**	**-.00002**	**-.0207**	**-.00007**
Stddev	.00020	.021	.00006	.0029	.00009
%RSD	5076.1	.10515	308.34	14.07	122.29
#1	.00014	20.386	-.00006	-.0228	-.00013
#2	-.00014	20.417	.00002	-.0187	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00075**	**.05126**	**2.1701**	**.00486**
Stddev	.00028	.00052	.00240	.0070	.00245
%RSD	72.443	69.284	4.6738	.32161	50.398
#1	.00019	.00112	.05295	2.1750	.00659
#2	.00059	.00038	.04956	2.1652	.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-6-A Acquired: 12/17/2021 21:53:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0647**	**.03808**	**.26542**	**85.264**	**.00081**
Stddev	.0076	.00003	.00029	.290	.00009
%RSD	.12461	.07651	.11041	.33974	11.266
#1	6.0700	.03805	.26521	85.059	.00088
#2	6.0593	.03810	.26563	85.469	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00036**	**9.1509**	**-.00172**	**.00029**
Stddev	.00	.00069	.0213	.00041	.00381
%RSD	.0026	190.18	.23281	24.015	1311.5
#1	25.01	-.00013	9.1659	-.00143	-.00240
#2	25.01	.00085	9.1358	-.00201	.00298
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4673**	**.00103**	**.51262**	**1.001**	**-.00006**
Stddev	.0266	.00005	.00042	.001	.00016
%RSD	.76836	4.7571	.08213	.0450	271.90
#1	3.4484	.00100	.51232	1.001	.00006
#2	3.4861	.00107	.51292	1.001	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193330-D-6-A Acquired: 12/17/2021 21:53:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00045**	**.00155**	**.9981**
Stddev	.00011	.00012	.00002	.0002
%RSD	28.278	26.729	1.1673	.0237
#1	-.00032	.00037	.00154	.9979
#2	-.00048	.00054	.00156	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3295.0**	**3057.2**	**27118.**	**3068.2**
Stddev	6.2	8.9	8.	9.5
%RSD	.18912	.29207	.02848	.31005
#1	3299.4	3063.5	27124.	3074.9
#2	3290.6	3050.9	27113.	3061.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.378%	97.171%	96.601%	101.14%
Range				

Sample Name: 480-193403-C-2-A Acquired: 12/17/2021 21:57:42 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**-.00198**	**.00799**	**.12188**	**.03132**
Stddev	.00062	.00792	.00029	.00041	.00006
%RSD	115.32	400.16	3.6312	.33731	.17887
#1	-.00010	.00362	.00819	.12159	.03136
#2	-.00098	-.00758	.00778	.12217	.03128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**25.430**	**.00025**	**-.0650**	**.00533**
Stddev	.00005	.080	.00007	.0101	.00024
%RSD	132.62	.31413	28.609	15.51	4.4104
#1	-.00007	25.487	.00030	-.0579	.00517
#2	-.00000	25.374	.00020	-.0722	.00550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00073**	**19.439**	**1.5226**	**.00074**
Stddev	.00004	.00007	.036	.0399	.00074
%RSD	32.939	9.1070	.18291	2.6231	99.351
#1	.00016	-.00068	19.464	1.4944	.00022
#2	.00010	-.00078	19.414	1.5509	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193403-C-2-A Acquired: 12/17/2021 21:57:42 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.0906**	**2.5305**	**.00044**	**47.690**	**.00386**
Stddev	.0297	.0009	.00021	.155	.00044
%RSD	.41893	.03517	47.448	.32508	11.386
#1	7.0695	2.5312	.00029	47.799	.00417
#2	7.1116	2.5299	.00059	47.580	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00364**	**6.0539**	**.00145**	**.00065**
Stddev	.00	.00152	.0135	.00276	.00077
%RSD	.0033	41.638	.22283	190.51	119.41
#1	25.05	.00257	6.0634	-.00050	.00010
#2	25.05	.00472	6.0443	.00340	.00119
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1597**	**.00108**	**.13662**	**1.006**	**.00007**
Stddev	.0254	.00005	.00070	.004	.00054
%RSD	.31063	4.1649	.50970	.3611	818.93
#1	8.1776	.00112	.13711	1.003	-.00032
#2	8.1418	.00105	.13613	1.008	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193403-C-2-A Acquired: 12/17/2021 21:57:42 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00006**	**.00875**	**.9972**
Stddev	.00049	.00033	.00011	.0003
%RSD	103.53	557.59	1.2319	.0262
#1	-.00013	-.00017	.00867	.9970
#2	-.00081	.00029	.00883	.9974
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3335.0**	**3061.1**	**27351.**	**3030.4**
Stddev	3.9	2.7	60.	6.1
%RSD	.11728	.08910	.21934	.20216
#1	3332.2	3059.2	27309.	3026.1
#2	3337.8	3063.1	27394.	3034.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.501%	97.295%	97.431%	99.893%
Range				

Sample Name: 480-193403-C-3-A Acquired: 12/17/2021 22:01:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.04628**	**.01043**	**.00649**	**.01967**
Stddev	.00015	.00182	.00079	.00032	.00004
%RSD	43.734	3.9231	7.5436	4.8796	.20307
#1	.00023	.04757	.01099	.00626	.01964
#2	.00043	.04500	.00988	.00671	.01970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**20.528**	**.00009**	**-.0594**	**.00120**
Stddev	.00011	.018	.00003	.0022	.00003
%RSD	190.42	.08871	35.212	3.621	2.7226
#1	-.00013	20.541	.00012	-.0609	.00118
#2	.00002	20.515	.00007	-.0579	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00057**	**6.2434**	**.81579**	**.00114**
Stddev	.00019	.00020	.0077	.03670	.00150
%RSD	320.21	34.751	.12383	4.4984	132.07
#1	-.00007	.00072	6.2379	.84174	.00220
#2	.00019	.00043	6.2488	.78985	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193403-C-3-A Acquired: 12/17/2021 22:01:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0331**	**1.1044**	**-.00053**	**10.031**	**.00038**
Stddev	.0191	.0012	.00008	.015	.00025
%RSD	.47286	.11170	15.318	.15115	65.691
#1	4.0196	1.1035	-.00059	10.021	.00055
#2	4.0466	1.1053	-.00047	10.042	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00189**	**4.9953**	**-.00098**	**.00085**
Stddev	.00	.00031	.0057	.00030	.00152
%RSD	.0052	16.606	.11368	30.160	178.78
#1	25.05	.00167	4.9993	-.00077	-.00023
#2	25.05	.00212	4.9913	-.00119	.00193
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.500**	**.00126**	**.10257**	**1.006**	**.00172**
Stddev	.040	.00025	.00027	.006	.00012
%RSD	.38199	20.084	.25959	.6473	7.0979
#1	10.472	.00108	.10276	1.011	.00163
#2	10.529	.00144	.10238	1.002	.00180
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193403-C-3-A Acquired: 12/17/2021 22:01:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.00036**	**.00639**	**.9983**
Stddev	.00121	.00017	.00016	.0020
%RSD	162.95	46.621	2.4494	.2015
#1	-.00159	.00047	.00650	.9997
#2	.00011	.00024	.00628	.9969
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3487.5**	**3114.6**	**27753.**	**3061.0**
Stddev	1.9	.3	52.	6.5
%RSD	.05505	.01050	.18854	.21203
#1	3488.9	3114.9	27716.	3056.4
#2	3486.2	3114.4	27790.	3065.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.777%	98.996%	98.864%	100.90%
Range				

Sample Name: 480-193403-C-4-A Acquired: 12/17/2021 22:05:06 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00115**	**-.00026**	**.06757**	**.75043**	**.08659**
Stddev	.00006	.01109	.00082	.00024	.00001
%RSD	4.7829	4188.2	1.2091	.03151	.01281
#1	-.00119	-.00811	.06815	.75027	.08660
#2	-.00112	.00758	.06700	.75060	.08659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**17.296**	**.00009**	**-.0244**	**.01216**
Stddev	.00006	.004	.00003	.0280	.00002
%RSD	884.81	.02122	34.461	115.0	.12631
#1	.00005	17.299	.00007	-.0442	.01214
#2	-.00004	17.293	.00012	-.0046	.01217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**-.00105**	**75.300**	**11.831**	**-.00005**
Stddev	.00027	.00095	.002	.066	.00097
%RSD	26.072	90.178	.00301	.55843	2074.4
#1	.00125	-.00172	75.299	11.784	.00064
#2	.00086	-.00038	75.302	11.877	-.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193403-C-4-A Acquired: 12/17/2021 22:05:06 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3273**	**2.3309**	**.00187**	**300.31**	**.00545**
Stddev	.0043	.0024	.00020	.05	.00046
%RSD	.08119	.10134	10.732	.01536	8.5114
#1	5.3303	2.3293	.00201	300.34	.00513
#2	5.3242	2.3326	.00173	300.27	.00578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00826**	**7.1676**	**.00737**	**.00650**
Stddev	.00	.00069	.0004	.00142	.00190
%RSD	.0029	8.3647	.00599	19.298	29.180
#1	25.12	.00875	7.1679	.00636	.00516
#2	25.12	.00777	7.1673	.00837	.00784
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.0344**	**.00167**	**.11072**	**1.030**	**-.00039**
Stddev	.0010	.00015	.00036	.006	.00066
%RSD	.01270	8.8794	.32397	.6127	168.79
#1	8.0351	.00178	.11047	1.025	-.00086
#2	8.0336	.00157	.11097	1.034	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193403-C-4-A Acquired: 12/17/2021 22:05:06 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00140**	**.00135**	**.00160**	**.9981**
Stddev	.00132	.00045	.00047	.0006
%RSD	94.517	33.493	29.134	.0613
#1	-.00046	.00167	.00193	.9985
#2	-.00233	.00103	.00127	.9976
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3044.9**	**3004.1**	**26276.**	**3064.2**
Stddev	6.2	1.8	10.	.9
%RSD	.20203	.06024	.03687	.03062
#1	3049.3	3002.9	26283.	3063.6
#2	3040.6	3005.4	26269.	3064.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.369%	95.484%	93.602%	101.01%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 22:08:55 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0106**	**50.310**	**1.0167**	**1.0393**	**1.0041**
Stddev	.0014	.035	.0020	.0004	.0013
%RSD	.13913	.07047	.19972	.03828	.12827
#1	1.0116	50.335	1.0153	1.0390	1.0032
#2	1.0096	50.285	1.0182	1.0395	1.0050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0111**	**49.993**	**1.0015**	**1.060**	**.98583**
Stddev	.0004	.031	.0001	.014	.00102
%RSD	.04260	.06171	.01213	1.307	.10354
#1	1.0108	49.971	1.0016	1.050	.98655
#2	1.0114	50.014	1.0014	1.070	.98510
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0120**	**1.0012**	**50.274**	**49.802**	**1.0007**
Stddev	.0001	.0013	.155	.112	.0001
%RSD	.00796	.12946	.30920	.22465	.01151
#1	1.0120	1.0002	50.165	49.723	1.0008
#2	1.0121	1.0021	50.384	49.881	1.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 22:08:55 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.994**	**1.0111**	**1.0198**	**49.967**	**1.0038**
Stddev	.186	.0026	.0004	.007	.0013
%RSD	.37273	.25458	.04293	.01430	.12542
#1	50.126	1.0129	1.0202	49.972	1.0029
#2	49.862	1.0093	1.0195	49.962	1.0047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.59**	**.99070**	**24.973**	**1.0008**	**1.0096**
Stddev	.01	.00111	.004	.0042	.0022
%RSD	.0257	.11158	.01545	.41860	.21304
#1	37.59	.98992	24.976	1.0037	1.0112
#2	37.60	.99148	24.971	.99782	1.0081
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9819**	**.99090**	**1.0108**	**1.517**	**1.0072**
Stddev	.0324	.00014	.0022	.007	.0014
%RSD	.32475	.01392	.21529	.4669	.14124
#1	9.9590	.99099	1.0092	1.522	1.0082
#2	10.005	.99080	1.0123	1.512	1.0062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 22:08:55 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0086**	**1.0093**	**1.0253**	**1.514**
Stddev	.0026	.0004	.0000	.001
%RSD	.25566	.03571	.00239	.0560
#1	1.0068	1.0091	1.0253	1.513
#2	1.0104	1.0096	1.0253	1.514
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3101.3**	**3037.9**	**26681.**	**3037.2**
Stddev	1.5	4.0	74.	10.2
%RSD	.04865	.13304	.27553	.33646
#1	3102.4	3040.7	26629.	3044.5
#2	3100.3	3035.0	26733.	3030.0

Sample Name: CCB-6819143 Acquired: 12/17/2021 22:12:28 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**-.00357**	**-.00106**	**-.00155**	**.00007**
Stddev	.00035	.00760	.00258	.00003	.00002
%RSD	59.962	212.94	243.39	2.0135	26.177
#1	-.00033	-.00895	-.00288	-.00152	.00009
#2	-.00082	.00181	.00076	-.00157	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00192**	**.00007**	**-.0266**	**-.00012**
Stddev	.00001	.00103	.00017	.0066	.00002
%RSD	40.349	53.647	249.43	24.70	18.279
#1	.00003	-.00265	-.00005	-.0220	-.00013
#2	.00002	-.00119	.00019	-.0313	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00051**	**.00200**	**-.06650**	**-.00094**
Stddev	.00009	.00033	.00140	.03460	.00188
%RSD	16.342	65.082	70.050	52.029	198.90
#1	.00049	.00028	.00101	-.09096	.00038
#2	.00062	.00075	.00298	-.04203	-.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 22:12:28 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.00008**	**.00096**	**.00289**	**.00001**
Stddev	.00224	.00005	.00018	.01007	.00020
%RSD	322.71	68.505	18.442	349.12	2950.5
#1	-.00228	.00011	.00084	.01001	.00015
#2	.00089	.00004	.00109	-.00424	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00128**	**-.00447**	**-.00037**	**.00117**
Stddev	.00	.00045	.00066	.00052	.00325
%RSD	.0019	35.337	14.651	141.23	278.44
#1	25.01	-.00160	-.00494	-.00074	.00347
#2	25.01	-.00096	-.00401	-.00000	-.00113
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00633**	**-.00007**	**.00017**	**.9913**	**-.00040**
Stddev	.03230	.00026	.00005	.0013	.00012
%RSD	509.93	375.42	29.299	.1287	29.677
#1	-.02918	.00011	.00014	.9904	-.00031
#2	.01651	-.00025	.00021	.9922	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 22:12:28 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00037**	**-.00000**	**.9981**
Stddev	.00037	.00051	.00021	.0014
%RSD	172.23	137.59	75953.	.1445
#1	-.00048	.00001	.00015	.9971
#2	.00005	.00073	-.00015	.9992
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3578.7**	**3107.6**	**27735.**	**2987.8**
Stddev	18.0	17.6	19.	17.7
%RSD	.50423	.56590	.06948	.59086
#1	3565.9	3095.1	27748.	3000.2
#2	3591.4	3120.0	27721.	2975.3

Sample Name: CCVL-6819272 Acquired: 12/17/2021 22:16:17 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00608**	**.20595**	**.01151**	**.01752**	**.00205**
Stddev	.00052	.01715	.00238	.00021	.00005
%RSD	8.5486	8.3259	20.698	1.1793	2.2347
#1	.00644	.19382	.01320	.01767	.00208
#2	.00571	.21807	.00983	.01738	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.49838**	**.00206**	**-.0130**	**.00358**
Stddev	.00008	.00144	.00007	.0387	.00006
%RSD	3.6873	.28850	3.6106	297.3	1.6305
#1	.00200	.49940	.00211	.0143	.00362
#2	.00211	.49737	.00201	-.0404	.00353
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00392**	**.01128**	**.04650**	**.39737**	**.02655**
Stddev	.00008	.00004	.00029	.02860	.00046
%RSD	1.9692	.32656	.62413	7.1962	1.7323
#1	.00386	.01131	.04671	.41759	.02622
#2	.00397	.01125	.04630	.37715	.02687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 22:16:17 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19232**	**.00308**	**.00994**	**.97705**	**.00927**
Stddev	.00102	.00002	.00003	.00609	.00010
%RSD	.52791	.52901	.34602	.62339	1.1319
#1	.19304	.00309	.00992	.97274	.00920
#2	.19161	.00307	.00997	.98136	.00934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00877**	**.17960**	**.01942**	**.02167**
Stddev	.00	.00025	.00072	.00148	.00263
%RSD	.0020	2.8675	.40008	7.6009	12.144
#1	25.00	.00859	.17909	.02046	.01981
#2	25.00	.00895	.18011	.01838	.02353
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45818**	**.00942**	**.00518**	F **.9970**	**.00450**
Stddev	.00322	.00033	.00001	.0019	.00019
%RSD	.70306	3.5121	.26476	.1863	4.2643
#1	.45591	.00965	.00519	.9957	.00436
#2	.46046	.00919	.00517	.9983	.00463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 22:16:17 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01949**	**.00476**	**.01008**	F **.9989**
Stddev	.00207	.00030	.00012	.0003
%RSD	10.631	6.4036	1.1760	.0282
#1	.02096	.00498	.01016	.9991
#2	.01803	.00455	.00999	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3595.7**	**3122.8**	**28093.**	**3005.1**
Stddev	6.7	5.3	18.	25.8
%RSD	.18597	.17072	.06471	.85729
#1	3591.0	3119.0	28080.	2986.9
#2	3600.4	3126.6	28106.	3023.4

Sample Name: 480-193403-C-5-A Acquired: 12/17/2021 22:20:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.01648**	**.01121**	**.00707**	**.01282**
Stddev	.00043	.02273	.00054	.00019	.00003
%RSD	65.652	137.88	4.8146	2.6923	.25667
#1	-.00035	.03255	.01159	.00720	.01280
#2	-.00097	.00041	.01083	.00693	.01285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**16.236**	**.00014**	**-.0232**	**.00067**
Stddev	.00006	.045	.00005	.0028	.00000
%RSD	134.51	.27620	38.003	12.11	.67363
#1	.00008	16.267	.00018	-.0252	.00067
#2	.00000	16.204	.00010	-.0212	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**-.00031**	**4.2611**	**.76687**	**.00241**
Stddev	.00013	.00081	.0121	.01666	.00011
%RSD	36.619	261.25	.28272	2.1726	4.4177
#1	.00045	.00026	4.2696	.75509	.00234
#2	.00026	-.00088	4.2525	.77866	.00249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193403-C-5-A Acquired: 12/17/2021 22:20:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1804**	**.82242**	**-.00027**	**12.865**	**.00048**
Stddev	.0164	.00017	.00020	.011	.00007
%RSD	.51594	.02053	73.825	.08299	15.065
#1	3.1688	.82230	-.00041	12.872	.00043
#2	3.1920	.82254	-.00013	12.857	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00204**	**4.4004**	**-.00068**	**.00123**
Stddev	.00	.00050	.0063	.00058	.00010
%RSD	.0069	24.521	.14272	85.129	8.4914
#1	25.06	.00239	4.3960	-.00109	.00116
#2	25.06	.00169	4.4049	-.00027	.00131
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8163**	**.00084**	**.08208**	**1.003**	**.00053**
Stddev	.0301	.00062	.00008	.006	.00012
%RSD	.30683	74.199	.09174	.5570	22.920
#1	9.8376	.00128	.08213	.9986	.00061
#2	9.7950	.00040	.08203	1.007	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193403-C-5-A Acquired: 12/17/2021 22:20:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00021**	**.00257**	**.9978**
Stddev	.00093	.00030	.00050	.0000
%RSD	502.01	142.96	19.384	.0014
#1	-.00084	.00042	.00292	.9978
#2	.00047	-.00000	.00221	.9979
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3491.4**	**3126.7**	**28046.**	**3070.3**
Stddev	1.9	7.8	98.	2.9
%RSD	.05406	.25093	.34917	.09504
#1	3490.1	3121.2	27976.	3068.3
#2	3492.7	3132.3	28115.	3072.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.885%	99.379%	99.905%	101.21%
Range				

Sample Name: 480-193403-C-6-A Acquired: 12/17/2021 22:23:48 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**-.01390**	**-.00048**	**.52795**	**.03195**
Stddev	.00031	.00636	.00106	.00147	.00003
%RSD	37.144	45.715	221.55	.27908	.08945
#1	-.00105	-.01840	-.00123	.52691	.03197
#2	-.00061	-.00941	.00027	.52899	.03193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**53.829**	**.00024**	**-.0011**	**.00152**
Stddev	.00003	.128	.00008	.0029	.00002
%RSD	100.08	.23827	33.855	254.8	1.1045
#1	-.00005	53.738	.00018	-.0032	.00153
#2	-.00001	53.920	.00030	.0009	.00150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00195**	**.19537**	**15.438**	**.00257**
Stddev	.00023	.00099	.00201	.021	.00048
%RSD	65.725	50.960	1.0303	.13488	18.804
#1	.00051	.00265	.19680	15.423	.00223
#2	.00019	.00125	.19395	15.453	.00291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193403-C-6-A Acquired: 12/17/2021 22:23:48 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.378**	**.15122**	**-.00047**	**49.762**	**.00345**
Stddev	.020	.00018	.00004	.044	.00045
%RSD	.16196	.12178	9.1089	.08894	12.979
#1	12.364	.15109	-.00044	49.731	.00376
#2	12.392	.15135	-.00050	49.793	.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**-.00020**	**26.316**	**-.00126**	**-.00110**
Stddev	.00	.00077	.026	.00087	.00040
%RSD	.0013	393.32	.09861	68.758	36.762
#1	25.03	-.00074	26.298	-.00065	-.00082
#2	25.04	.00035	26.335	-.00188	-.00139
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6250**	**.00082**	**.23164**	**.9972**	**.00063**
Stddev	.0021	.00032	.00064	.0016	.00039
%RSD	.03705	39.002	.27432	.1556	61.521
#1	5.6265	.00060	.23119	.9983	.00036
#2	5.6236	.00105	.23209	.9961	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193403-C-6-A Acquired: 12/17/2021 22:23:48 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.00042**	**.00211**	**.9985**
Stddev	.00065	.00013	.00026	.0003
%RSD	99.304	30.339	12.394	.0332
#1	.00112	-.00033	.00230	.9982
#2	.00020	-.00051	.00193	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3302.7**	**3081.9**	**27315.**	**3101.1**
Stddev	1.5	1.5	92.	4.9
%RSD	.04430	.04723	.33517	.15926
#1	3301.7	3082.9	27380.	3104.6
#2	3303.7	3080.8	27250.	3097.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.595%	97.954%	97.303%	102.22%
Range				

Sample Name: 480-193403-C-7-A Acquired: 12/17/2021 22:27:31 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00117**	**.01124**	**.53621**	**.05897**
Stddev	.00031	.04628	.00180	.00065	.00002
%RSD	1688.0	3967.6	15.987	.12035	.03133
#1	.00020	.03389	.01251	.53576	.05896
#2	-.00024	-.03156	.00997	.53667	.05898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**55.476**	**-.00010**	**-.0036**	**.00794**
Stddev	.00012	.173	.00012	.0237	.00006
%RSD	293.50	.31143	116.37	659.8	.71888
#1	-.00013	55.353	-.00018	.0132	.00799
#2	.00005	55.598	-.00002	-.0204	.00790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00017**	**42.660**	**13.822**	**.00253**
Stddev	.00029	.00034	.158	.083	.00117
%RSD	449.91	205.98	.36992	.60082	46.296
#1	.00027	-.00008	42.549	13.763	.00170
#2	-.00014	.00041	42.772	13.880	.00336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193403-C-7-A Acquired: 12/17/2021 22:27:31 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.616**	**1.5538**	**.00080**	**36.322**	**.00382**
Stddev	.010	.0005	.00003	.077	.00004
%RSD	.09446	.03169	3.4298	.21141	.98332
#1	10.623	1.5541	.00078	36.268	.00380
#2	10.609	1.5534	.00082	36.376	.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00506**	**18.689**	**.00213**	**.00215**
Stddev	.00	.00023	.011	.00117	.00278
%RSD	.0006	4.5391	.05669	54.850	129.54
#1	25.06	.00489	18.697	.00295	.00018
#2	25.06	.00522	18.682	.00130	.00412
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6487**	**.00130**	**.20354**	**1.014**	**.00045**
Stddev	.0213	.00029	.00038	.004	.00015
%RSD	.32064	22.467	.18764	.4326	34.072
#1	6.6337	.00151	.20327	1.017	.00034
#2	6.6638	.00109	.20381	1.010	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193403-C-7-A Acquired: 12/17/2021 22:27:31 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00038**	**.00076**	**.9977**
Stddev	.00014	.00023	.00008	.0004
%RSD	44.448	61.177	10.757	.0449
#1	-.00042	.00021	.00082	.9974
#2	-.00022	.00054	.00070	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3278.2**	**3052.6**	**27120.**	**3051.7**
Stddev	2.9	10.8	87.	17.7
%RSD	.08860	.35486	.31975	.58143
#1	3280.3	3060.2	27059.	3064.2
#2	3276.2	3044.9	27181.	3039.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.908%	97.022%	96.608%	100.59%
Range				

Sample Name: MB 480-608421/1-A Acquired: 12/17/2021 22:31:12 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.01270**	**-.00168**	**-.00129**	**.00006**
Stddev	.00146	.02965	.00317	.00015	.00004
%RSD	1465.5	233.40	189.31	11.705	61.273
#1	-.00093	.00826	.00057	-.00139	.00008
#2	.00113	-.03367	-.00392	-.00118	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.03913**	**-.00002**	**.0203**	**-.00003**
Stddev	.00007	.00283	.00000	.0915	.00004
%RSD	96.851	7.2364	12.157	450.9	132.91
#1	.00002	.03713	-.00003	-.0444	-.00000
#2	.00012	.04114	-.00002	.0850	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00005**	**.00117**	**-.12611**	**-.00309**
Stddev	.00016	.00022	.00469	.00492	.00069
%RSD	39.341	452.44	402.45	3.8996	22.464
#1	.00051	.00020	.00448	-.12959	-.00260
#2	.00029	-.00010	-.00215	-.12263	-.00358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608421/1-A Acquired: 12/17/2021 22:31:12 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00336**	**.00021**	**-.00091**	**.01424**	**-.00007**
Stddev	.00353	.00005	.00011	.01318	.00004
%RSD	104.92	24.862	12.642	92.520	47.239
#1	.00087	.00017	-.00099	.02356	-.00005
#2	.00586	.00025	-.00083	.00492	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00036**	**.00429**	**-.00033**	**.00097**
Stddev	.00	.00017	.00023	.00042	.00029
%RSD	.0009	47.163	5.2478	125.83	29.394
#1	25.01	-.00048	.00413	-.00004	.00077
#2	25.01	-.00024	.00445	-.00063	.00117
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**.00021**	**.00015**	**1.005**	**.00009**
Stddev	.01658	.00007	.00004	.001	.00007
%RSD	2234.1	31.689	26.319	.1384	73.873
#1	.01247	.00016	.00012	1.006	.00014
#2	-.01098	.00026	.00018	1.004	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-608421/1-A Acquired: 12/17/2021 22:31:12 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00085**	**.00033**	**.00103**	**.9969**
Stddev	.00013	.00052	.00001	.0017
%RSD	14.771	158.61	1.1369	.1709
#1	.00094	.00069	.00102	.9981
#2	.00076	-.00004	.00104	.9957
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3645.7**	**3153.9**	**28373.**	**3040.1**
Stddev	6.0	7.0	6.	16.6
%RSD	.16360	.22181	.02218	.54691
#1	3641.4	3149.0	28377.	3028.4
#2	3649.9	3158.9	28368.	3051.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.21%	100.24%	101.07%	100.21%
Range				

Sample Name: LCS 480-608421/2-A Acquired: 12/17/2021 22:34:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04910**	**9.9226**	**.19941**	**.19839**	**.20278**
Stddev	.00081	.0553	.00069	.00017	.00047
%RSD	1.6574	.55681	.34637	.08633	.23153
#1	.04852	9.8835	.19990	.19827	.20245
#2	.04967	9.9616	.19892	.19851	.20311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20861**	**9.7742**	**.19807**	**-.0125**	**.18627**
Stddev	.00018	.0269	.00019	.0474	.00021
%RSD	.08604	.27524	.09831	380.0	.11140
#1	.20873	9.7932	.19820	-.0460	.18642
#2	.20848	9.7552	.19793	.0210	.18613
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19522**	**.19753**	**9.9290**	**9.6520**	**.19429**
Stddev	.00010	.00072	.0134	.0395	.00118
%RSD	.04903	.36374	.13456	.40918	.60541
#1	.19515	.19804	9.9385	9.6800	.19512
#2	.19529	.19703	9.9196	9.6241	.19345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608421/2-A Acquired: 12/17/2021 22:34:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9511**	**.20108**	**.20267**	**9.6402**	**.18697**
Stddev	.0178	.00034	.00060	.0178	.00056
%RSD	.17861	.17070	.29461	.18430	.30208
#1	9.9386	.20084	.20309	9.6528	.18737
#2	9.9637	.20132	.20225	9.6276	.18657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.84**	**.19119**	**9.4015**	**.21026**	**.19314**
Stddev	.00	.00077	.0098	.00073	.00065
%RSD	.0019	.40091	.10465	.34838	.33609
#1	24.84	.19173	9.4085	.20974	.19359
#2	24.84	.19065	9.3946	.21078	.19268
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3301**	**.18016**	**.19840**	**1.003**	**.19847**
Stddev	.0222	.00015	.00028	.002	.00011
%RSD	.23785	.08489	.14057	.1973	.05721
#1	9.3144	.18005	.19820	1.004	.19855
#2	9.3458	.18027	.19859	1.001	.19839
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-608421/2-A Acquired: 12/17/2021 22:34:59 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19637**	**.19560**	**.19835**	**1.005**
Stddev	.00019	.00087	.00072	.001
%RSD	.09690	.44375	.36488	.0485
#1	.19624	.19498	.19886	1.005
#2	.19651	.19621	.19784	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3427.3**	**3111.1**	**27842.**	**3038.4**
Stddev	8.6	6.6	56.	3.1
%RSD	.25115	.21317	.20177	.10197
#1	3421.2	3106.4	27882.	3036.2
#2	3433.4	3115.7	27803.	3040.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.088%	98.882%	99.181%	100.16%
Range				

Sample Name: 480-193290-D-2-D Acquired: 12/17/2021 22:38:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00139**	**.00190**	**.34338**	**.08324**
Stddev	.00014	.01383	.00029	.00045	.00031
%RSD	130.86	997.76	15.424	.13215	.37458
#1	-.00001	-.01117	.00169	.34306	.08346
#2	-.00021	.00839	.00211	.34370	.08302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**53.960**	**.00022**	**-.0226**	**.00679**
Stddev	.00001	.096	.00018	.0162	.00014
%RSD	20.707	.17871	84.414	71.64	1.9923
#1	.00005	54.028	.00035	-.0111	.00689
#2	.00004	53.891	.00009	-.0340	.00669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00146**	**10.005**	**6.8690**	**.00474**
Stddev	.00018	.00077	.002	.0001	.00013
%RSD	37.193	52.940	.02365	.00147	2.8412
#1	.00062	.00201	10.004	6.8689	.00465
#2	.00036	.00091	10.007	6.8691	.00484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-2-D Acquired: 12/17/2021 22:38:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.513**	**.95019**	**-.00061**	**50.327**	**.00616**
Stddev	.049	.00229	.00012	.089	.00008
%RSD	.29578	.24146	19.715	.17691	1.2727
#1	16.548	.95182	-.00053	50.390	.00611
#2	16.479	.94857	-.00070	50.264	.00622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00293**	**8.7595**	**-.00015**	**-.00074**
Stddev	.00	.00015	.0251	.00114	.00174
%RSD	.0004	5.0820	.28643	771.42	233.53
#1	25.07	.00282	8.7418	-.00095	-.00197
#2	25.07	.00304	8.7772	.00066	.00048
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.168**	**-.00004**	**.42018**	**.9999**	**.00010**
Stddev	.035	.00030	.00119	.0021	.00018
%RSD	.28422	821.94	.28300	.2138	171.64
#1	12.192	-.00025	.42102	1.001	.00023
#2	12.144	.00018	.41934	.9984	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-2-D Acquired: 12/17/2021 22:38:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00098**	**.00070**	**.00620**	**.9972**
Stddev	.00005	.00006	.00010	.0005
%RSD	5.5236	9.2885	1.5832	.0546
#1	-.00102	.00065	.00613	.9968
#2	-.00094	.00074	.00627	.9976
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3288.5**	**3077.3**	**27361.**	**3048.9**
Stddev	1.2	3.6	30.	2.6
%RSD	.03560	.11641	.10821	.08622
#1	3289.3	3074.8	27340.	3050.7
#2	3287.7	3079.8	27382.	3047.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.197%	97.809%	97.467%	100.50%
Range				

Sample Name: 480-193290-D-2-DSD@5 Acquired: 12/17/2021 22:42:15 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00480**	**-.00170**	**.06481**	**.01660**
Stddev	.00023	.02687	.00064	.00025	.00009
%RSD	112.60	559.51	37.800	.38262	.56924
#1	.00037	.01420	-.00215	.06463	.01653
#2	.00004	-.02380	-.00124	.06498	.01666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**10.760**	**.00020**	**.0125**	**.00134**
Stddev	.00014	.070	.00003	.0589	.00022
%RSD	1065.3	.65001	12.992	471.2	16.108
#1	-.00009	10.809	.00019	.0541	.00118
#2	.00011	10.710	.00022	-.0291	.00149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00040**	**1.9870**	**1.3280**	**.00151**
Stddev	.00002	.00012	.0004	.0151	.00152
%RSD	115.12	29.345	.01976	1.1365	100.80
#1	-.00003	.00049	1.9867	1.3173	.00259
#2	-.00000	.00032	1.9873	1.3387	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-2-DSD@5 Acquired: 12/17/2021 22:42:15 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3493**	**.19260**	**-.00071**	**9.9505**	**.00083**
Stddev	.0036	.00027	.00013	.0050	.00002
%RSD	.10670	.14052	18.695	.04979	2.4643
#1	3.3518	.19241	-.00061	9.9540	.00084
#2	3.3468	.19279	-.00080	9.9470	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00006**	**1.6835**	**-.00219**	**.00128**
Stddev	.00	.00032	.0042	.00160	.00052
%RSD	.0003	566.36	.24809	72.772	40.977
#1	25.02	.00029	1.6864	-.00332	.00091
#2	25.02	-.00017	1.6805	-.00106	.00165
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3871**	**.00017**	**.08480**	**1.003**	**-.00040**
Stddev	.0043	.00047	.00013	.001	.00042
%RSD	.18178	282.27	.14781	.0766	103.46
#1	2.3840	.00050	.08472	1.002	-.00070
#2	2.3902	-.00017	.08489	1.003	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-2-DSD@5 Acquired: 12/17/2021 22:42:15 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00008**	**.00112**	**.9984**
Stddev	.00144	.00039	.00008	.0020
%RSD	3959.2	484.57	7.5960	.1981
#1	.00098	-.00020	.00118	.9998
#2	-.00105	.00036	.00106	.9970
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3508.9**	**3134.5**	**27790.**	**3068.7**
Stddev	10.4	2.8	27.	16.2
%RSD	.29693	.08989	.09566	.52714
#1	3501.6	3136.5	27771.	3057.3
#2	3516.3	3132.5	27809.	3080.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.377%	99.626%	98.995%	101.16%
Range				

Sample Name: 480-193290-D-2-DPDS Acquired: 12/17/2021 22:46:00 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04927**	**9.9133**	**.21978**	**.53666**	**.27686**
Stddev	.00048	.0107	.00050	.00050	.00016
%RSD	.96931	.10828	.22819	.09239	.05681
#1	.04893	9.9209	.22014	.53631	.27675
#2	.04961	9.9057	.21943	.53701	.27697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21952**	**62.725**	**.20334**	**-.0431**	**.20102**
Stddev	.00006	.029	.00010	.0260	.00071
%RSD	.02692	.04697	.04741	60.29	.35198
#1	.21948	62.746	.20341	-.0615	.20152
#2	.21956	62.704	.20327	-.0248	.20052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20303**	**.20111**	**19.474**	**16.310**	**.20263**
Stddev	.00007	.00071	.018	.015	.00149
%RSD	.03384	.35527	.09385	.09068	.73438
#1	.20307	.20162	19.461	16.320	.20157
#2	.20298	.20061	19.487	16.299	.20368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-2-DPDS Acquired: 12/17/2021 22:46:00 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.317**	**1.1266**	**.20983**	**60.243**	**.20521**
Stddev	.036	.0014	.00050	.205	.00046
%RSD	.13536	.12376	.23736	.34100	.22647
#1	26.292	1.1256	.21018	60.389	.20554
#2	26.342	1.1276	.20948	60.098	.20489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.91**	**.20195**	**18.167**	**.21865**	**.20091**
Stddev	.00	.00212	.018	.00095	.00227
%RSD	.0009	1.0510	.09787	.43337	1.1281
#1	24.91	.20345	18.180	.21798	.20252
#2	24.91	.20045	18.155	.21932	.19931
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.759**	**.19053**	**.60762**	**1.006**	**.20714**
Stddev	.022	.00042	.00196	.007	.00081
%RSD	.09952	.21934	.32330	.6709	.39092
#1	21.774	.19023	.60901	1.001	.20656
#2	21.743	.19082	.60623	1.011	.20771
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-2-DPDS Acquired: 12/17/2021 22:46:00 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20487**	**.20578**	**.21346**	**1.001**
Stddev	.00214	.00042	.00081	.001
%RSD	1.0448	.20394	.37730	.1005
#1	.20335	.20608	.21289	1.002
#2	.20638	.20549	.21403	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3218.5**	**3042.2**	**26969.**	**3025.3**
Stddev	1.2	1.6	3.	.8
%RSD	.03579	.05219	.00928	.02742
#1	3219.3	3043.3	26967.	3025.9
#2	3217.7	3041.0	26971.	3024.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.235%	96.692%	96.069%	99.724%
Range				

Sample Name: 480-193290-D-2-E MS Acquired: 12/17/2021 22:49:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04872**	**9.8807**	**.21139**	**.58385**	**.28358**
Stddev	.00022	.0751	.00045	.00148	.00006
%RSD	.45010	.75964	.21243	.25311	.01940
#1	.04856	9.9338	.21108	.58280	.28362
#2	.04887	9.8277	.21171	.58489	.28354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21213**	**63.469**	**.19984**	**-.0711**	**.19813**
Stddev	.00071	.485	.00033	.0181	.00039
%RSD	.33696	.76377	.16293	25.46	.19838
#1	.21263	63.812	.19961	-.0839	.19785
#2	.21162	63.127	.20007	-.0583	.19841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19770**	**.19723**	**20.984**	**16.839**	**.19857**
Stddev	.00003	.00038	.117	.043	.00145
%RSD	.01743	.19026	.55917	.25808	.73275
#1	.19768	.19696	21.067	16.870	.19754
#2	.19773	.19749	20.901	16.808	.19959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-2-E MS Acquired: 12/17/2021 22:49:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.118**	**1.1207**	**.20471**	**60.371**	**.19974**
Stddev	.095	.0019	.00111	.138	.00012
%RSD	.36478	.16787	.54053	.22820	.06044
#1	26.050	1.1194	.20549	60.469	.19982
#2	26.185	1.1221	.20392	60.274	.19965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.92**	**.19966**	**17.637**	**.21171**	**.19668**
Stddev	.00	.00181	.000	.00066	.00077
%RSD	.0019	.90727	.00273	.31290	.39193
#1	24.92	.20094	17.636	.21218	.19613
#2	24.92	.19838	17.637	.21124	.19722
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.381**	**.18584**	**.61504**	**1.006**	**.20270**
Stddev	.170	.00059	.00059	.005	.00028
%RSD	.79290	.31929	.09569	.4758	.14021
#1	21.501	.18626	.61545	1.003	.20290
#2	21.262	.18542	.61462	1.010	.20250
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-2-E MS Acquired: 12/17/2021 22:49:34 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19890**	**.19841**	**.20320**	**.9996**
Stddev	.00140	.00015	.00016	.0001
%RSD	.70426	.07401	.07705	.0080
#1	.19791	.19831	.20331	.9996
#2	.19989	.19851	.20309	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3200.0**	**3038.0**	**26858.**	**3012.2**
Stddev	5.3	4.7	72.	41.2
%RSD	.16536	.15486	.26705	1.3690
#1	3196.3	3034.7	26909.	2983.1
#2	3203.8	3041.4	26807.	3041.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.716%	96.561%	95.674%	99.293%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 22:53:10 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0167**	**50.149**	**1.0006**	**1.0374**	**1.0002**
Stddev	.0003	.131	.0018	.0004	.0013
%RSD	.02592	.26030	.18333	.04198	.12758
#1	1.0165	50.242	1.0019	1.0371	1.0011
#2	1.0169	50.057	.99933	1.0377	.99927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0006**	**49.710**	**1.0080**	**1.019**	**.98244**
Stddev	.0023	.064	.0003	.023	.00200
%RSD	.22739	.12920	.02450	2.277	.20358
#1	1.0022	49.756	1.0078	1.002	.98103
#2	.99903	49.665	1.0082	1.035	.98386
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0035**	**1.0079**	**50.203**	**49.458**	**.99533**
Stddev	.0022	.0019	.050	.056	.00003
%RSD	.21727	.18515	.09872	.11332	.00281
#1	1.0019	1.0066	50.238	49.419	.99535
#2	1.0050	1.0093	50.167	49.498	.99531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 22:53:10 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.310**	**1.0041**	**1.0204**	**49.619**	**.99129**
Stddev	.101	.0005	.0012	.058	.00095
%RSD	.20462	.05010	.12023	.11603	.09604
#1	49.238	1.0038	1.0213	49.659	.99062
#2	49.381	1.0045	1.0195	49.578	.99196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.47**	**.98652**	**24.701**	**1.0036**	**.99645**
Stddev	.01	.00245	.015	.0022	.00119
%RSD	.0169	.24807	.05980	.22012	.11894
#1	37.48	.98479	24.690	1.0020	.99561
#2	37.47	.98825	24.711	1.0051	.99729
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.015**	**.97958**	**1.0011**	**1.507**	**1.0076**
Stddev	.019	.00102	.0021	.001	.0025
%RSD	.18640	.10398	.20494	.0444	.24749
#1	10.002	.98030	1.0026	1.507	1.0059
#2	10.028	.97886	.99970	1.508	1.0094
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 22:53:10 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99634**	**1.0047**	**1.0113**	**1.506**
Stddev	.00094	.0027	.0012	.002
%RSD	.09445	.26382	.11632	.1478
#1	.99567	1.0028	1.0105	1.504
#2	.99701	1.0066	1.0121	1.507
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3090.6**	**3012.7**	**26561.**	**2972.8**
Stddev	3.9	2.1	44.	2.4
%RSD	.12735	.06841	.16381	.08186
#1	3093.4	3014.2	26591.	2974.6
#2	3087.8	3011.3	26530.	2971.1

Sample Name: CCB-6819143 Acquired: 12/17/2021 22:56:43 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.02224**	**-.00162**	**-.00187**	**.00008**
Stddev	.00015	.00408	.00057	.00023	.00002
%RSD	57.476	18.355	35.498	12.204	28.752
#1	-.00036	-.01935	-.00121	-.00171	.00010
#2	-.00015	-.02513	-.00202	-.00203	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00237**	**-.00008**	**.0191**	**-.00002**
Stddev	.00002	.00023	.00000	.0020	.00012
%RSD	173.18	9.8299	4.5159	10.69	507.10
#1	-.00003	-.00253	-.00007	.0205	-.00011
#2	.00000	-.00220	-.00008	.0177	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00022**	**-.00307**	**-.01802**	**-.00023**
Stddev	.00026	.00071	.00295	.01716	.00176
%RSD	254.27	322.36	96.024	95.199	751.63
#1	.00029	.00028	-.00099	-.00589	-.00148
#2	-.00008	-.00072	-.00515	-.03015	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 22:56:43 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00226**	**-.00005**	**.00093**	**-.00950**	**-.00018**
Stddev	.00261	.00014	.00009	.00133	.00007
%RSD	115.84	262.42	9.7419	13.989	38.517
#1	.00410	-.00015	.00087	-.01043	-.00013
#2	.00041	.00005	.00100	-.00856	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00104**	**-.00461**	**.00003**	**.00545**
Stddev	.00	.00060	.00061	.00097	.00344
%RSD	.0041	57.249	13.155	2892.7	63.078
#1	25.01	-.00146	-.00503	.00072	.00302
#2	25.01	-.00062	-.00418	-.00065	.00788
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01242**	**.00039**	**.00010**	**1.005**	**.00004**
Stddev	.00005	.00062	.00003	.004	.00003
%RSD	.37835	159.84	30.370	.4126	67.859
#1	-.01245	.00083	.00008	1.008	.00006
#2	-.01238	-.00005	.00012	1.002	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 22:56:43 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00094**	**.00026**	**.00016**	**.9990**
Stddev	.00040	.00049	.00004	.0006
%RSD	42.951	189.49	26.860	.0571
#1	.00123	-.00009	.00013	.9986
#2	.00065	.00061	.00019	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3623.2**	**3164.5**	**28440.**	**3070.4**
Stddev	4.1	3.1	107.	9.8
%RSD	.11280	.09710	.37734	.32053
#1	3626.1	3166.7	28364.	3077.4
#2	3620.3	3162.4	28516.	3063.4

Sample Name: CCVL-6819272 Acquired: 12/17/2021 23:00:32 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00500**	**.22129**	**.01464**	**.01757**	**.00207**
Stddev	.00015	.02439	.00041	.00065	.00002
%RSD	2.9093	11.020	2.8246	3.7158	.99347
#1	.00510	.20405	.01494	.01804	.00206
#2	.00489	.23854	.01435	.01711	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.49767**	**.00208**	**-.0191**	**.00378**
Stddev	.00006	.00254	.00015	.0178	.00019
%RSD	2.9295	.51106	7.1908	93.21	4.9364
#1	.00213	.49947	.00218	-.0317	.00392
#2	.00204	.49588	.00197	-.0065	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00413**	**.00980**	**.05369**	**.43123**	**.02887**
Stddev	.00041	.00004	.00212	.02069	.00199
%RSD	9.9106	.44903	3.9491	4.7982	6.8919
#1	.00384	.00983	.05519	.41660	.02746
#2	.00442	.00977	.05219	.44586	.03027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 23:00:32 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19435**	**.00313**	**.00992**	**.96772**	**.00957**
Stddev	.00198	.00001	.00006	.00511	.00033
%RSD	1.0194	.35553	.58411	.52773	3.4427
#1	.19295	.00314	.00996	.97133	.00980
#2	.19575	.00312	.00988	.96411	.00934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00970**	**.17999**	**.01976**	**.02284**
Stddev	.00	.00011	.00113	.00375	.00072
%RSD	.0026	1.1236	.62637	18.949	3.1529
#1	25.00	.00963	.17919	.02241	.02335
#2	25.00	.00978	.18078	.01712	.02233
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46377**	**.00954**	**.00505**	F **1.001**	**.00435**
Stddev	.00631	.00019	.00002	.002	.00020
%RSD	1.3609	2.0343	.45656	.1697	4.6634
#1	.46824	.00940	.00503	1.002	.00421
#2	.45931	.00968	.00507	.9999	.00450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 23:00:32 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01922**	**.00482**	**.00978**	F **.9984**
Stddev	.00019	.00058	.00035	.0013
%RSD	1.0067	11.983	3.5365	.1253
#1	.01936	.00441	.00954	.9975
#2	.01908	.00522	.01002	.9993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3589.5**	**3128.4**	**28066.**	**3044.7**
Stddev	1.2	9.5	65.	23.3
%RSD	.03431	.30357	.23323	.76635
#1	3590.4	3135.1	28112.	3061.2
#2	3588.6	3121.7	28020.	3028.2

Sample Name: 480-193290-D-2-F MSD Acquired: 12/17/2021 23:04:19 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05005**	**10.044**	**.21326**	**.56465**	**.28678**
Stddev	.00026	.017	.00273	.00151	.00068
%RSD	.51971	.16777	1.2823	.26763	.23762
#1	.04986	10.056	.21132	.56358	.28630
#2	.05023	10.032	.21519	.56572	.28727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21517**	**64.178**	**.20169**	**-.0113**	**.19918**
Stddev	.00012	.006	.00042	.0403	.00016
%RSD	.05522	.01000	.20630	356.0	.08204
#1	.21509	64.183	.20139	-.0398	.19907
#2	.21526	64.174	.20198	.0172	.19930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20006**	**.19821**	**21.495**	**17.057**	**.20579**
Stddev	.00009	.00129	.005	.016	.00013
%RSD	.04684	.64847	.02462	.09586	.06125
#1	.20013	.19730	21.498	17.045	.20570
#2	.19999	.19912	21.491	17.068	.20588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-2-F MSD Acquired: 12/17/2021 23:04:19 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.633**	**1.1500**	**.20689**	**62.230**	**.20164**
Stddev	.063	.0014	.00014	.127	.00020
%RSD	.23517	.11989	.06537	.20365	.10132
#1	26.589	1.1490	.20699	62.320	.20178
#2	26.677	1.1509	.20680	62.141	.20149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.92**	**.19800**	**18.310**	**.21462**	**.19788**
Stddev	.00	.00095	.013	.00049	.00097
%RSD	.0017	.47806	.06963	.23011	.48930
#1	24.92	.19867	18.301	.21497	.19719
#2	24.93	.19733	18.319	.21427	.19856
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.785**	**.18898**	**.62214**	**1.008**	**.20472**
Stddev	.014	.00046	.00007	.009	.00060
%RSD	.06647	.24551	.01137	.8418	.29397
#1	21.795	.18931	.62209	1.014	.20514
#2	21.774	.18865	.62219	1.002	.20429
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-2-F MSD Acquired: 12/17/2021 23:04:19 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20029**	**.20179**	**.20541**	**1.003**
Stddev	.00061	.00077	.00002	.001
%RSD	.30278	.38298	.00764	.1090
#1	.20072	.20234	.20540	1.004
#2	.19986	.20125	.20542	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3211.4**	**3039.5**	**26819.**	**3016.9**
Stddev	4.1	.1	132.	9.2
%RSD	.12794	.00304	.49032	.30651
#1	3208.5	3039.4	26726.	3010.3
#2	3214.3	3039.6	26912.	3023.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.036%	96.607%	95.534%	99.447%
Range				

Sample Name: 480-193290-C-3-B Acquired: 12/17/2021 23:07:54 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00215**	**-.00040**	**.02463**	**.04264**
Stddev	.00050	.03102	.00041	.00032	.00017
%RSD	226.94	1440.6	101.47	1.2901	.39039
#1	-.00057	.02409	-.00069	.02485	.04252
#2	.00013	-.01978	-.00011	.02440	.04276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**20.247**	**.00027**	**.0005**	**-.00028**
Stddev	.00018	.087	.00005	.0057	.00005
%RSD	1390.1	.43188	20.512	1137.	17.024
#1	.00014	20.185	.00023	-.0035	-.00025
#2	-.00011	20.308	.00031	.0045	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**.00164**	**.00498**	**2.5062**	**-.00059**
Stddev	.00010	.00011	.00220	.0154	.00077
%RSD	14.409	6.7318	44.193	.61364	130.36
#1	.00060	.00171	.00343	2.4953	-.00113
#2	.00074	.00156	.00654	2.5171	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-C-3-B Acquired: 12/17/2021 23:07:54 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8334**	**.00540**	**-.00034**	**123.92**	**.00125**
Stddev	.0140	.00001	.00018	.34	.00004
%RSD	.24012	.21950	52.649	.27620	3.1271
#1	5.8235	.00541	-.00047	124.16	.00122
#2	5.8433	.00539	-.00021	123.67	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00012**	**14.078**	**-.00053**	**-.00064**
Stddev	.00	.00002	.016	.00137	.00019
%RSD	.0028	16.258	.11491	260.35	30.067
#1	25.02	-.00011	14.090	.00044	-.00050
#2	25.02	-.00013	14.067	-.00150	-.00078
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5577**	**-.00018**	**.27500**	**1.002**	**-.00011**
Stddev	.0204	.00015	.00043	.004	.00047
%RSD	.36675	82.330	.15677	.4496	435.01
#1	5.5433	-.00029	.27469	.9990	-.00044
#2	5.5721	-.00008	.27530	1.005	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-C-3-B Acquired: 12/17/2021 23:07:54 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00001**	**.00501**	**.9985**
Stddev	.00022	.00015	.00002	.0006
%RSD	74.852	1166.1	.40322	.0607
#1	-.00014	.00012	.00499	.9990
#2	-.00045	-.00009	.00502	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3251.0**	**3036.1**	**26810.**	**3035.4**
Stddev	6.1	4.6	60.	39.4
%RSD	.18835	.15015	.22315	1.2993
#1	3246.7	3032.9	26852.	3063.3
#2	3255.4	3039.4	26767.	3007.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.146%	96.501%	95.502%	100.06%
Range				

Sample Name: 480-193290-D-4-B Acquired: 12/17/2021 23:11:39 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.03033**	**-.00282**	**.00698**	**.00498**
Stddev	.00016	.02554	.00080	.00004	.00003
%RSD	110.66	84.198	28.542	.52402	.61087
#1	.00003	.01227	-.00225	.00696	.00496
#2	.00026	.04839	-.00338	.00701	.00500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**3.5929**	**.00012**	**-.0387**	**-.00006**
Stddev	.00011	.0052	.00003	.0596	.00002
%RSD	99.986	.14441	22.067	154.0	27.275
#1	.00003	3.5892	.00014	-.0809	-.00007
#2	.00019	3.5966	.00010	.0034	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00022**	**.00404**	**1.3019**	**-.00241**
Stddev	.00053	.00029	.00000	.0518	.00162
%RSD	237.12	132.42	.06161	3.9779	67.265
#1	-.00015	-.00001	.00404	1.2653	-.00356
#2	.00060	-.00042	.00404	1.3386	-.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-4-B Acquired: 12/17/2021 23:11:39 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76617**	**.00426**	**-.00085**	**5.3291**	**-.00011**
Stddev	.00258	.00001	.00014	.0086	.00002
%RSD	.33692	.27451	16.935	.16175	18.453
#1	.76435	.00425	-.00095	5.3352	-.00013
#2	.76800	.00427	-.00075	5.3230	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00095**	**2.7991**	**.00241**	**-.00001**
Stddev	.00	.00035	.0121	.00127	.00045
%RSD	.0010	37.056	.43107	52.627	5073.8
#1	25.01	-.00120	2.7906	.00331	.00031
#2	25.01	-.00070	2.8076	.00152	-.00033
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0670**	**.00035**	**.03259**	**1.002**	**-.00013**
Stddev	.0073	.00007	.00038	.001	.00011
%RSD	.18024	19.679	1.1790	.1037	81.191
#1	4.0722	.00040	.03286	1.003	-.00006
#2	4.0618	.00030	.03232	1.001	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-4-B Acquired: 12/17/2021 23:11:39 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00029**	**.00068**	**.9974**
Stddev	.00110	.00034	.00002	.0002
%RSD	454.13	114.58	2.5338	.0176
#1	.00102	.00053	.00066	.9973
#2	-.00054	.00006	.00069	.9975
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3601.8**	**3173.6**	**28387.**	**3125.2**
Stddev	14.1	10.0	54.	6.8
%RSD	.39047	.31366	.18873	.21886
#1	3591.9	3166.5	28350.	3130.1
#2	3611.8	3180.6	28425.	3120.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.98%	100.87%	101.12%	103.02%
Range				

Sample Name: 480-193290-D-5-B Acquired: 12/17/2021 23:15:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00489**	**-.00226**	**.01931**	**.04165**
Stddev	.00124	.01550	.00059	.00052	.00005
%RSD	248.95	316.70	26.028	2.6700	.12251
#1	.00038	-.01585	-.00185	.01894	.04162
#2	-.00137	.00607	-.00268	.01967	.04169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**7.2969**	**.00005**	**-.0018**	**-.00002**
Stddev	.00013	.0259	.00006	.0253	.00002
%RSD	273.63	.35516	133.11	1386.	72.020
#1	.00014	7.2786	.00000	-.0197	-.00001
#2	-.00004	7.3152	.00009	.0161	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00028**	**.00428**	**3.8711**	**.00195**
Stddev	.00036	.00011	.00352	.0263	.00075
%RSD	948.39	39.675	82.168	.67945	38.323
#1	-.00029	-.00020	.00677	3.8897	.00142
#2	.00022	-.00036	.00179	3.8525	.00248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-5-B Acquired: 12/17/2021 23:15:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1278**	**.00303**	**-.00083**	**212.45**	**.00005**
Stddev	.0003	.00006	.00016	1.35	.00019
%RSD	.02235	2.1139	19.278	.63352	390.70
#1	1.1276	.00298	-.00095	211.50	.00018
#2	1.1280	.00307	-.00072	213.41	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00014**	**4.8744**	**-.00004**	**.00143**
Stddev	.00	.00060	.0161	.00106	.00062
%RSD	.0010	431.38	.33039	2892.7	43.226
#1	25.02	.00028	4.8858	.00071	.00099
#2	25.02	-.00056	4.8630	-.00079	.00186
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2537**	**.00011**	**.04983**	**1.007**	**-.00075**
Stddev	.0351	.00004	.00023	.018	.00017
%RSD	.82513	37.465	.45323	1.832	22.637
#1	4.2289	.00008	.04967	1.020	-.00063
#2	4.2785	.00013	.04999	.9944	-.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-5-B Acquired: 12/17/2021 23:15:24 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00043**	**.00213**	**.9981**
Stddev	.00040	.00026	.00047	.0002
%RSD	164.05	60.631	21.953	.0202
#1	-.00053	-.00025	.00180	.9980
#2	.00004	-.00061	.00246	.9982
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3178.2**	**3019.7**	**26622.**	**3083.7**
Stddev	6.7	6.4	44.	17.4
%RSD	.21199	.21345	.16598	.56477
#1	3182.9	3024.3	26653.	3096.0
#2	3173.4	3015.2	26591.	3071.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.103%	95.978%	94.834%	101.65%
Range				

Sample Name: 480-193290-C-6-B Acquired: 12/17/2021 23:19:15 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.01390**	**-.00087**	**.01879**	**.04087**
Stddev	.00021	.00083	.00243	.00014	.00013
%RSD	64.429	5.9692	280.86	.72312	.31859
#1	-.00047	.01448	.00085	.01869	.04096
#2	-.00018	.01331	-.00259	.01888	.04078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**7.3250**	**.00004**	**-.0175**	**-.00008**
Stddev	.00011	.0175	.00004	.0271	.00006
%RSD	196.85	.23942	102.84	154.8	72.085
#1	.00013	7.3126	.00007	.0017	-.00013
#2	-.00002	7.3374	.00001	-.0367	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00053**	**.00478**	**3.8593**	**-.00197**
Stddev	.00009	.00021	.00242	.0493	.00020
%RSD	45.087	39.032	50.673	1.2766	10.296
#1	-.00028	.00039	.00649	3.8245	-.00211
#2	-.00014	.00068	.00307	3.8941	-.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-C-6-B Acquired: 12/17/2021 23:19:15 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1104**	**.00288**	**-.00068**	**217.40**	**-.00028**
Stddev	.0050	.00001	.00003	.94	.00028
%RSD	.44876	.19352	4.2299	.43275	101.63
#1	1.1139	.00288	-.00066	216.73	-.00008
#2	1.1069	.00287	-.00070	218.06	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00049**	**4.8052**	**.00024**	**-.00043**
Stddev	.00	.00040	.0030	.00055	.00087
%RSD	.0065	81.949	.06303	233.88	199.19
#1	25.02	.00020	4.8031	-.00015	.00018
#2	25.02	.00077	4.8074	.00063	-.00105
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3034**	**.00004**	**.05004**	**1.009**	**-.00016**
Stddev	.0020	.00087	.00004	.004	.00060
%RSD	.04652	2168.7	.07198	.4006	385.26
#1	4.3020	.00065	.05001	1.007	.00027
#2	4.3048	-.00057	.05007	1.012	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-C-6-B Acquired: 12/17/2021 23:19:15 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00132**	**.00048**	**.00188**	**.9974**
Stddev	.00051	.00006	.00020	.0006
%RSD	38.856	12.610	10.708	.0568
#1	-.00096	.00053	.00202	.9978
#2	-.00169	.00044	.00174	.9970
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3191.2**	**3001.4**	**26352.**	**2994.7**
Stddev	2.0	3.8	25.	2.1
%RSD	.06338	.12807	.09642	.07165
#1	3189.8	2998.7	26370.	2996.3
#2	3192.6	3004.1	26334.	2993.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.469%	95.397%	93.871%	98.718%
Range				

Sample Name: 480-193290-D-7-B Acquired: 12/17/2021 23:23:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**-.02196**	**.00284**	**.40334**	**.14359**
Stddev	.00073	.01923	.00083	.00043	.00003
%RSD	254.43	87.554	29.058	.10580	.02359
#1	-.00023	-.00837	.00226	.40303	.14357
#2	.00081	-.03556	.00342	.40364	.14362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**69.841**	**.00018**	**.0084**	**.00200**
Stddev	.00003	.188	.00003	.0267	.00011
%RSD	39.908	.26920	17.545	317.4	5.3173
#1	.00009	69.709	.00020	.0273	.00193
#2	.00005	69.974	.00016	-.0105	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00106**	**.00070**	**20.348**	**8.2857**	**.00173**
Stddev	.00002	.00089	.095	.0632	.00086
%RSD	1.9979	128.13	.46892	.76269	49.992
#1	.00108	.00133	20.281	8.2410	.00112
#2	.00105	.00007	20.416	8.3304	.00234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-7-B Acquired: 12/17/2021 23:23:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.139**	**.38180**	**-.00071**	**76.312**	**.00496**
Stddev	.022	.00021	.00030	.083	.00058
%RSD	.21611	.05617	42.292	.10878	11.617
#1	10.124	.38165	-.00092	76.253	.00455
#2	10.154	.38195	-.00050	76.371	.00537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00180**	**1.6322**	**.00095**	**.00063**
Stddev	.00	.00089	.0017	.00045	.00548
%RSD	.0017	49.376	.10133	47.842	872.62
#1	25.07	.00242	1.6311	.00063	-.00325
#2	25.07	.00117	1.6334	.00127	.00450
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3357**	**.00022**	**.27418**	**1.009**	**.00077**
Stddev	.0100	.00015	.00005	.005	.00014
%RSD	.13573	68.119	.01806	.4919	18.599
#1	7.3287	.00012	.27415	1.012	.00087
#2	7.3428	.00033	.27422	1.005	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-7-B Acquired: 12/17/2021 23:23:05 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.00108**	**.00041**	**.9993**
Stddev	.00050	.00006	.00024	.0007
%RSD	143.50	5.8835	59.487	.0670
#1	.00001	.00112	.00024	.9988
#2	-.00070	.00103	.00058	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3218.8**	**3020.7**	**26882.**	**3005.2**
Stddev	8.4	3.4	48.	23.7
%RSD	.26085	.11210	.17705	.78782
#1	3212.9	3018.3	26916.	3021.9
#2	3224.7	3023.1	26849.	2988.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.243%	96.010%	95.761%	99.062%
Range				

Sample Name: 480-193290-D-8-B Acquired: 12/17/2021 23:26:48 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.02093**	**.00116**	**.56046**	**.12855**
Stddev	.00039	.00388	.00034	.00218	.00002
%RSD	66.383	18.553	29.102	.38872	.01700
#1	-.00031	.02368	.00092	.55892	.12853
#2	-.00086	.01818	.00140	.56200	.12857
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**97.861**	**.00075**	**-.0458**	**.00225**
Stddev	.00000	.110	.00014	.0376	.00005
%RSD	4.7871	.11287	18.457	82.18	2.1483
#1	-.00008	97.783	.00065	-.0724	.00222
#2	-.00008	97.940	.00085	-.0192	.00228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00136**	**.01255**	**.94760**	**10.732**	**.00044**
Stddev	.00017	.00007	.00237	.046	.00190
%RSD	12.522	.59557	.25007	.43093	436.00
#1	.00148	.01250	.94592	10.700	-.00091
#2	.00124	.01260	.94928	10.765	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-8-B Acquired: 12/17/2021 23:26:48 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.425**	**.94445**	**.00021**	**131.88**	**.03648**
Stddev	.062	.00154	.00029	.48	.00009
%RSD	.25571	.16332	137.55	.36357	.25296
#1	24.380	.94336	.00041	132.22	.03655
#2	24.469	.94554	.00001	131.54	.03642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00274**	**16.529**	**.00233**	**.00065**
Stddev	.00	.00095	.076	.00352	.00171
%RSD	.0058	34.513	.46276	151.29	263.15
#1	25.01	.00341	16.475	-.00016	.00186
#2	25.00	.00207	16.583	.00482	-.00056
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1290**	**.00005**	**.45667**	**1.005**	**.00180**
Stddev	.0758	.00037	.00075	.003	.00045
%RSD	.83043	709.07	.16409	.2643	25.180
#1	9.1826	.00032	.45614	1.003	.00211
#2	9.0754	-.00021	.45720	1.006	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-D-8-B Acquired: 12/17/2021 23:26:48 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00275**	**.08115**	**.9980**
Stddev	.00130	.00049	.00020	.0003
%RSD	231.43	17.867	.24639	.0282
#1	.00036	.00240	.08129	.9982
#2	-.00148	.00309	.08101	.9978
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3135.9**	**2978.1**	**26406.**	**3024.2**
Stddev	4.6	.6	36.	25.6
%RSD	.14593	.01942	.13709	.84712
#1	3132.7	2978.5	26431.	3006.1
#2	3139.2	2977.7	26380.	3042.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.920%	94.657%	94.063%	99.690%
Range				

Sample Name: 480-193290-C-9-B Acquired: 12/17/2021 23:30:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**-.00946**	**-.00110**	**1.1805**	**.07343**
Stddev	.00049	.02988	.00145	.0014	.00014
%RSD	94.541	315.79	131.84	.12144	.18762
#1	.00017	-.03059	-.00007	1.1795	.07353
#2	.00086	.01167	-.00213	1.1815	.07333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**92.838**	**.00030**	**-.0238**	**.00120**
Stddev	.00002	.117	.00011	.0414	.00006
%RSD	17.878	.12648	37.823	174.3	5.1313
#1	-.00012	92.755	.00022	-.0530	.00125
#2	-.00009	92.921	.00038	.0055	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.00559**	**.63298**	**20.290**	**.00248**
Stddev	.00002	.00003	.00208	.022	.00050
%RSD	3.0586	.48983	.32911	.10619	19.956
#1	.00051	.00557	.63151	20.275	.00283
#2	.00049	.00561	.63445	20.305	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-C-9-B Acquired: 12/17/2021 23:30:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.207**	**1.2185**	**.00349**	**167.87**	**.00946**
Stddev	.012	.0008	.00015	.13	.00005
%RSD	.06813	.06121	4.3720	.07832	.57889
#1	18.216	1.2190	.00359	167.96	.00950
#2	18.198	1.2180	.00338	167.77	.00942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00020**	**38.509**	**.00194**	**.00285**
Stddev	.00	.00036	.031	.00188	.00139
%RSD	.0047	178.63	.08151	96.875	48.826
#1	25.02	-.00005	38.487	.00326	.00187
#2	25.01	.00045	38.532	.00061	.00383
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4873**	**-.00037**	**.46752**	**1.001**	**.00044**
Stddev	.0163	.00046	.00040	.002	.00074
%RSD	.65573	122.75	.08457	.1858	170.59
#1	2.4757	-.00069	.46724	.9997	-.00009
#2	2.4988	-.00005	.46780	1.002	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193290-C-9-B Acquired: 12/17/2021 23:30:30 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00023**	**.00202**	**.9972**
Stddev	.00007	.00026	.00014	.0006
%RSD	17.600	113.73	7.0310	.0582
#1	.00035	.00005	.00192	.9968
#2	.00045	.00042	.00212	.9976
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3129.3**	**3030.0**	**26726.**	**3063.9**
Stddev	3.6	3.0	40.	14.1
%RSD	.11531	.09765	.14931	.46150
#1	3126.8	3027.9	26698.	3073.9
#2	3131.9	3032.1	26754.	3053.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.734%	96.305%	95.204%	101.00%
Range				

Sample Name: 480-193300-B-13-B Acquired: 12/17/2021 23:34:13 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.72834**	**-.00189**	**.03745**	**.16502**
Stddev	.00058	.02818	.00157	.00039	.00009
%RSD	111.60	3.8696	82.925	1.0542	.05387
#1	.00011	.74827	-.00299	.03773	.16496
#2	.00092	.70841	-.00078	.03717	.16508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**6.3958**	**.00028**	**.0134**	**.02050**
Stddev	.00001	.0008	.00006	.0302	.00025
%RSD	1.0071	.01241	21.825	226.0	1.2194
#1	.00068	6.3952	.00032	.0347	.02032
#2	.00069	6.3963	.00023	-.0080	.02068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00960**	**.00472**	**.18698**	**2.6613**	**.01009**
Stddev	.00029	.00025	.00540	.0151	.00039
%RSD	3.0498	5.2232	2.8885	.56664	3.8492
#1	.00981	.00454	.19080	2.6507	.00981
#2	.00939	.00489	.18316	2.6720	.01036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-B-13-B Acquired: 12/17/2021 23:34:13 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.7580**	**.18465**	**-.00061**	**191.99**	**.04110**
Stddev	.0013	.00012	.00003	.54	.00015
%RSD	.03421	.06649	5.5894	.28163	.36965
#1	3.7571	.18474	-.00058	192.37	.04121
#2	3.7589	.18456	-.00063	191.61	.04099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00156**	**6.8121**	**-.00048**	**-.00204**
Stddev	.00	.00009	.0033	.00115	.00007
%RSD	.0007	5.9389	.04843	238.60	3.6368
#1	25.01	.00162	6.8145	.00033	-.00199
#2	25.01	.00149	6.8098	-.00129	-.00209
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6186**	**-.00000**	**.13030**	**1.002**	**-.00058**
Stddev	.0031	.00001	.00036	.000	.00027
%RSD	.04611	580.18	.27961	.0277	47.143
#1	6.6165	-.00001	.13056	1.002	-.00039
#2	6.6208	.00000	.13005	1.002	-.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-B-13-B Acquired: 12/17/2021 23:34:13 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00070**	**-.00001**	**.12419**	**.9980**
Stddev	.00161	.00001	.00018	.0004
%RSD	229.71	94.319	.14305	.0402
#1	.00044	-.00002	.12432	.9983
#2	-.00184	-.00000	.12407	.9977
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3203.9**	**3052.7**	**26833.**	**3049.9**
Stddev	3.7	2.6	105.	11.3
%RSD	.11600	.08364	.39111	.37160
#1	3201.2	3054.5	26907.	3041.9
#2	3206.5	3050.9	26758.	3057.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.824%	97.028%	95.584%	100.54%
Range				

Sample Name: CCV-6817081 Acquired: 12/17/2021 23:37:57 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0548**	**53.810**	**1.0683**	**1.0960**	**1.0641**
Stddev	.0026	.128	.0029	.0023	.0016
%RSD	.24776	.23825	.27326	.21310	.14806
#1	1.0567	53.901	1.0662	1.0943	1.0653
#2	1.0530	53.720	1.0704	1.0977	1.0630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0834**	**53.136**	**1.0581**	**1.099**	**1.0299**
Stddev	.0048	.195	.0015	.011	.0018
%RSD	.44030	.36728	.14469	.9593	.17816
#1	1.0868	53.274	1.0570	1.091	1.0286
#2	1.0800	52.998	1.0592	1.106	1.0312
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0732**	**1.0539**	**53.216**	**52.625**	**1.0730**
Stddev	.0021	.0027	.146	.097	.0009
%RSD	.19207	.25357	.27417	.18346	.08079
#1	1.0718	1.0558	53.319	52.694	1.0736
#2	1.0747	1.0520	53.112	52.557	1.0724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 23:37:57 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.364**	**1.0639**	**1.0802**	**53.426**	**1.0516**
Stddev	.129	.0024	.0001	.122	.0003
%RSD	.24729	.22385	.00824	.22890	.02534
#1	52.456	1.0656	1.0802	53.513	1.0514
#2	52.273	1.0622	1.0801	53.340	1.0518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.22**	**1.0367**	**26.203**	**1.0584**	**1.0590**
Stddev	.00	.0016	.006	.0005	.0004
%RSD	.0054	.15715	.02405	.04531	.03416
#1	38.22	1.0355	26.198	1.0587	1.0587
#2	38.22	1.0378	26.207	1.0580	1.0592
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.691**	**1.0351**	**1.0751**	**1.534**	**1.0634**
Stddev	.017	.0024	.0016	.004	.0009
%RSD	.15934	.23222	.15205	.2585	.08602
#1	10.703	1.0334	1.0763	1.531	1.0628
#2	10.679	1.0368	1.0740	1.537	1.0641
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 23:37:57 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0568**	**1.0691**	**1.0779**	**1.551**
Stddev	.0032	.0009	.0005	.003
%RSD	.30705	.08461	.04877	.1606
#1	1.0545	1.0698	1.0783	1.553
#2	1.0591	1.0685	1.0776	1.549
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3088.7**	**3008.2**	**26477.**	**2960.4**
Stddev	2.0	2.7	29.	17.6
%RSD	.06548	.08837	.10991	.59389
#1	3090.1	3010.1	26497.	2948.0
#2	3087.3	3006.3	26456.	2972.8

Sample Name: CCB-6819143 Acquired: 12/17/2021 23:41:29 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.03049**	**.00111**	**-.00179**	**.00006**
Stddev	.00058	.00162	.00043	.00036	.00001
%RSD	811.22	5.3136	38.873	19.989	13.175
#1	-.00048	-.03163	.00141	-.00204	.00007
#2	.00034	-.02934	.00080	-.00153	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00035**	**-.00007**	**-.0236**	**-.00001**
Stddev	.00003	.00158	.00002	.0504	.00001
%RSD	41.567	456.06	26.181	213.5	83.386
#1	.00011	-.00147	-.00008	.0120	-.00002
#2	.00006	.00077	-.00006	-.0593	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00030**	**.00165**	**-.00941**	**-.00167**
Stddev	.00001	.00014	.00214	.00261	.00031
%RSD	140.43	49.097	129.63	27.784	18.686
#1	.00002	-.00019	.00317	-.01126	-.00189
#2	.00000	-.00040	.00014	-.00756	-.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 23:41:29 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**.00009**	**.00093**	**.00698**	**-.00026**
Stddev	.00164	.00001	.00020	.01252	.00012
%RSD	166.71	6.3456	21.663	179.42	44.515
#1	-.00018	.00009	.00079	-.00188	-.00018
#2	.00215	.00010	.00108	.01584	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00060**	**-.00112**	**.00028**	**-.00185**
Stddev	.00	.00039	.00342	.00048	.00037
%RSD	.0085	66.192	305.87	170.79	20.245
#1	25.01	-.00032	.00130	-.00006	-.00212
#2	25.01	-.00088	-.00353	.00062	-.00159
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00495**	**.00000**	**.00020**	**1.004**	**-.00036**
Stddev	.01662	.00017	.00002	.009	.00034
%RSD	335.78	4483.2	9.6899	.8678	94.929
#1	.00680	.00012	.00018	.9981	-.00060
#2	-.01670	-.00012	.00021	1.010	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/17/2021 23:41:29 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00011**	**.00004**	**.9990**
Stddev	.00161	.00024	.00015	.0001
%RSD	614.01	223.28	358.79	.0126
#1	-.00140	.00028	-.00006	.9989
#2	.00088	-.00006	.00015	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3594.1**	**3118.7**	**28148.**	**3031.7**
Stddev	.5	2.1	69.	4.1
%RSD	.01355	.06833	.24521	.13660
#1	3594.4	3117.2	28197.	3028.8
#2	3593.7	3120.2	28100.	3034.7

Sample Name: CCVL-6819272 Acquired: 12/17/2021 23:45:18 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00630**	**.18008**	**.01365**	**.01730**	**.00211**
Stddev	.00034	.02365	.00205	.00025	.00001
%RSD	5.3694	13.136	15.009	1.4416	.68562
#1	.00653	.19681	.01509	.01747	.00210
#2	.00606	.16335	.01220	.01712	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.49545**	**.00203**	**.0109**	**.00372**
Stddev	.00004	.00443	.00018	.0139	.00008
%RSD	1.9208	.89316	8.9373	127.6	2.1705
#1	.00199	.49232	.00190	.0011	.00378
#2	.00205	.49858	.00216	.0207	.00367
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00388**	**.01069**	**.04842**	**.38164**	**.02736**
Stddev	.00021	.00085	.00027	.00024	.00191
%RSD	5.4862	7.9867	.56332	.06164	6.9690
#1	.00373	.01129	.04861	.38147	.02871
#2	.00403	.01009	.04822	.38181	.02601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 23:45:18 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18782**	**.00308**	**.00984**	**.97374**	**.00937**
Stddev	.00245	.00003	.00013	.01866	.00003
%RSD	1.3021	1.1104	1.2707	1.9161	.32843
#1	.18610	.00305	.00975	.96054	.00939
#2	.18955	.00310	.00993	.98693	.00934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00957**	**.17795**	**.01797**	**.02561**
Stddev	.00	.00079	.00167	.00127	.00073
%RSD	.0010	8.2975	.93814	7.0902	2.8523
#1	25.00	.00901	.17677	.01887	.02510
#2	25.00	.01013	.17913	.01707	.02613
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46900**	**.00926**	**.00500**	F **1.001**	**.00448**
Stddev	.01010	.00043	.00009	.010	.00003
%RSD	2.1528	4.5971	1.8453	.9665	.60287
#1	.46186	.00896	.00507	1.008	.00446
#2	.47614	.00956	.00494	.9944	.00450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 23:45:18 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01934**	**.00486**	**.01001**	F **.9984**
Stddev	.00088	.00012	.00003	.0007
%RSD	4.5549	2.3836	.31687	.0652
#1	.01997	.00478	.00999	.9979
#2	.01872	.00495	.01004	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3608.1**	**3162.3**	**28371.**	**3052.2**
Stddev	2.6	2.5	15.	31.9
%RSD	.07331	.07802	.05381	1.0455
#1	3610.0	3160.6	28360.	3074.7
#2	3606.3	3164.1	28382.	3029.6

Sample Name: 480-193300-B-19-B Acquired: 12/17/2021 23:49:04 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.68311**	**-.00026**	**.06470**	**.02369**
Stddev	.00021	.02303	.00146	.00016	.00006
%RSD	32.819	3.3717	558.95	.25155	.24821
#1	-.00050	.66682	-.00129	.06482	.02373
#2	-.00080	.69940	.00077	.06459	.02364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**18.757**	**.00072**	**-.0094**	**.02503**
Stddev	.00002	.092	.00006	.0139	.00018
%RSD	17.303	.49183	8.4265	146.8	.71400
#1	.00011	18.822	.00067	-.0192	.02491
#2	.00008	18.691	.00076	.0004	.02516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14039**	**.00489**	**4.3510**	**3.7953**	**.00238**
Stddev	.00082	.00002	.0111	.0365	.00063
%RSD	.58092	.44823	.25588	.96136	26.564
#1	.14097	.00491	4.3431	3.8211	.00193
#2	.13981	.00488	4.3589	3.7695	.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-B-19-B Acquired: 12/17/2021 23:49:04 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8892**	**.56499**	**.09863**	**91.686**	**.89444**
Stddev	.0357	.00006	.00044	.069	.00110
%RSD	.51769	.01079	.44786	.07577	.12317
#1	6.9144	.56494	.09894	91.736	.89366
#2	6.8639	.56503	.09832	91.637	.89522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00065**	**19.071**	**.00383**	**.00000**
Stddev	.00	.00101	.055	.00061	.00057
%RSD	.0012	154.97	.28775	16.023	48029.
#1	25.01	-.00006	19.110	.00340	-.00040
#2	25.01	.00137	19.032	.00426	.00040
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6809**	**-.00003**	**.10523**	**1.005**	**.01280**
Stddev	.0179	.00019	.00033	.001	.00122
%RSD	.31428	648.89	.31123	.0794	9.4965
#1	5.6683	-.00016	.10500	1.006	.01366
#2	5.6935	.00010	.10546	1.005	.01194
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193300-B-19-B Acquired: 12/17/2021 23:49:04 Type: Unk
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.00125**	**.14130**	**.9980**
Stddev	.00062	.00065	.00088	.0000
%RSD	126.05	51.600	.62037	.0006
#1	-.00005	.00079	.14192	.9980
#2	-.00093	.00171	.14068	.9980
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3297.5**	**3088.5**	**27393.**	**3122.4**
Stddev	7.5	6.9	13.	10.8
%RSD	.22691	.22284	.04580	.34525
#1	3302.8	3093.4	27384.	3114.8
#2	3292.2	3083.7	27402.	3130.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.449%	98.166%	97.581%	102.93%
Range				

Sample Name: CCVL-6819272 Acquired: 12/17/2021 23:52:46 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00587**	**.20539**	**.01223**	**.01709**	**.00203**
Stddev	.00015	.01734	.00130	.00045	.00000
%RSD	2.5190	8.4407	10.644	2.6486	.07720
#1	.00577	.21765	.01315	.01741	.00203
#2	.00598	.19313	.01131	.01677	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00216**	**.50721**	**.00204**	**-.0013**	**.00356**
Stddev	.00011	.00285	.00012	.0093	.00017
%RSD	4.9822	.56120	5.9080	693.6	4.7851
#1	.00224	.50922	.00195	.0052	.00344
#2	.00209	.50519	.00212	-.0079	.00368
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00396**	**.00982**	**.05075**	**.44448**	**.02815**
Stddev	.00077	.00050	.00200	.01172	.00071
%RSD	19.566	5.1371	3.9435	2.6361	2.5275
#1	.00341	.00947	.04934	.43619	.02765
#2	.00450	.01018	.05217	.45276	.02865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6819272 Acquired: 12/17/2021 23:52:46 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19485**	**.00314**	**.00973**	**.99267**	**.00933**
Stddev	.00048	.00005	.00007	.00037	.00002
%RSD	.24628	1.5226	.75418	.03712	.16701
#1	.19519	.00311	.00968	.99241	.00932
#2	.19451	.00318	.00978	.99293	.00934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00970**	**.17723**	**.01998**	**.02435**
Stddev	.00	.00073	.00383	.00348	.00005
%RSD	.0007	7.5603	2.1620	17.422	.22388
#1	25.00	.01022	.17994	.01751	.02439
#2	25.00	.00918	.17452	.02244	.02432
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48001**	**.00920**	**.00510**	F **.9977**	**.00460**
Stddev	.00375	.00049	.00012	.0004	.00002
%RSD	.78113	5.3195	2.3358	.0423	.51167
#1	.47736	.00885	.00518	.9979	.00458
#2	.48266	.00954	.00501	.9974	.00461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6819272 Acquired: 12/17/2021 23:52:46 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02004**	**.00505**	**.00967**	F **.9984**
Stddev	.00031	.00017	.00005	.0010
%RSD	1.5456	3.4427	.55507	.1005
#1	.01982	.00493	.00971	.9977
#2	.02026	.00517	.00963	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3593.0**	**3126.0**	**27943.**	**3020.8**
Stddev	.2	6.5	49.	2.6
%RSD	.00420	.20948	.17475	.08725
#1	3593.1	3130.7	27978.	3022.7
#2	3592.9	3121.4	27908.	3018.9

Sample Name: CCV-6817081 Acquired: 12/17/2021 23:56:33 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0564**	**53.914**	**1.0722**	**1.0939**	**1.0654**
Stddev	.0001	.233	.0001	.0026	.0009
%RSD	.00854	.43148	.00764	.23987	.08697
#1	1.0565	54.079	1.0723	1.0957	1.0661
#2	1.0563	53.750	1.0722	1.0920	1.0648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0881**	**53.239**	**1.0572**	**1.089**	**1.0308**
Stddev	.0042	.157	.0003	.048	.0009
%RSD	.38254	.29540	.03175	4.393	.08445
#1	1.0910	53.351	1.0570	1.056	1.0315
#2	1.0852	53.128	1.0575	1.123	1.0302
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0732**	**1.0542**	**53.199**	**52.661**	**1.0734**
Stddev	.0008	.0004	.034	.027	.0033
%RSD	.07243	.03551	.06320	.05066	.30871
#1	1.0738	1.0545	53.175	52.642	1.0757
#2	1.0727	1.0540	53.223	52.680	1.0710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 23:56:33 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.054**	**1.0603**	**1.0799**	**53.573**	**1.0513**
Stddev	.035	.0002	.0015	.115	.0017
%RSD	.06677	.02253	.13668	.21481	.16533
#1	52.079	1.0602	1.0789	53.654	1.0525
#2	52.029	1.0605	1.0810	53.491	1.0500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.18**	**1.0341**	**26.097**	**1.0541**	**1.0551**
Stddev	.01	.0010	.016	.0009	.0019
%RSD	.0241	.09557	.06282	.08851	.17781
#1	38.18	1.0348	26.085	1.0534	1.0565
#2	38.19	1.0334	26.108	1.0547	1.0538
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.654**	**1.0353**	**1.0769**	**1.538**	**1.0646**
Stddev	.080	.0031	.0009	.003	.0022
%RSD	.75413	.29413	.08485	.1941	.20551
#1	10.711	1.0375	1.0762	1.536	1.0661
#2	10.597	1.0332	1.0775	1.540	1.0630
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6817081 Acquired: 12/17/2021 23:56:33 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0566**	**1.0691**	**1.0771**	**1.555**
Stddev	.0047	.0004	.0000	.001
%RSD	.44758	.03437	.00138	.0766
#1	1.0600	1.0688	1.0771	1.556
#2	1.0533	1.0693	1.0771	1.554
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3085.0**	**3007.8**	**26394.**	**2953.4**
Stddev	3.6	3.2	11.	26.4
%RSD	.11796	.10631	.04128	.89531
#1	3082.4	3010.1	26387.	2934.7
#2	3087.6	3005.6	26402.	2972.1

Sample Name: CCB-6819143 Acquired: 12/18/2021 0:00:06 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**-.01616**	**-.00224**	**-.00235**	**.00006**
Stddev	.00006	.00218	.00307	.00029	.00001
%RSD	9.6416	13.476	137.01	12.304	10.366
#1	-.00062	-.01462	-.00007	-.00214	.00007
#2	-.00054	-.01770	-.00442	-.00255	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00596**	**.00016**	**-.0172**	**-.00006**
Stddev	.00005	.00090	.00016	.0149	.00001
%RSD	98.678	15.144	102.01	86.62	22.425
#1	.00009	-.00660	.00004	-.0278	-.00007
#2	.00002	-.00532	.00027	-.0067	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00056**	**.00162**	**-.03150**	**-.00044**
Stddev	.00010	.00062	.00141	.01422	.00012
%RSD	297.59	110.58	86.643	45.138	26.708
#1	.00004	.00012	.00063	-.02144	-.00036
#2	-.00011	.00100	.00262	-.04155	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/18/2021 0:00:06 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**.00013**	**.00088**	**.00406**	**-.00010**
Stddev	.00048	.00005	.00018	.00327	.00002
%RSD	58.785	38.403	20.118	80.593	17.991
#1	-.00116	.00017	.00075	.00175	-.00009
#2	-.00048	.00010	.00100	.00637	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00022**	**-.00436**	**-.00051**	**.00035**
Stddev	.00	.00118	.00084	.00303	.00376
%RSD	.0030	541.53	19.210	591.93	1079.1
#1	25.01	-.00105	-.00495	.00163	-.00231
#2	25.01	.00061	-.00377	-.00265	.00300
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01838**	**.00016**	**.00017**	**1.001**	**-.00016**
Stddev	.00852	.00039	.00011	.009	.00006
%RSD	46.369	239.88	63.791	.8450	38.594
#1	-.01235	.00044	.00024	1.007	-.00020
#2	-.02440	-.00011	.00009	.9948	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6819143 Acquired: 12/18/2021 0:00:06 Type: QC
Method: ICAP2 New stds DEC2019(v786) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00029**	**.00028**	**.9979**
Stddev	.00073	.00032	.00025	.0007
%RSD	299.79	110.48	90.335	.0748
#1	-.00076	.00006	.00046	.9984
#2	.00027	.00052	.00010	.9973
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3583.8**	**3114.8**	**28122.**	**3010.6**
Stddev	2.3	.6	5.	17.1
%RSD	.06546	.01901	.01875	.56716
#1	3582.1	3114.3	28126.	2998.5
#2	3585.4	3115.2	28118.	3022.7

Run File: I2122721B

Instrument: ICAP2

Analyst: ADM

Data Review: ADM 12/28/21

Spikes Ids:6639940(W1), 6639959(W2),6639939(Sn), 6742802(Ag),6742856(Si), 6370646(TCLP), 6742882(S)
Pipette IDs: 10/6/21-(1-11)
Internal Standard:6827105

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I2122721B	ICIS-6825508	12/27/2021 11:34:42AM	Standard
2	I2122721B	IC-6825510	12/27/2021 11:38:27AM	Standard
3	I2122721B	IC-6824595	12/27/2021 11:42:14AM	Standard
4	I2122721B	IC-6797476	12/27/2021 11:45:47AM	Standard
5	I2122721B	ICV-6817392	12/27/2021 11:49:20AM	QC
6	I2122721B	ICB-6825508	12/27/2021 11:52:55AM	QC
7	I2122721B	ICVL-6825510	12/27/2021 11:56:42AM	QC
8	I2122721B	ICSA-6812501	12/27/2021 12:00:28PM	QC
9	I2122721B	ICSAB-6827104	12/27/2021 12:04:19PM	QC
10	I2122721B	ICEX1	12/27/2021 12:08:01PM	Unknown
11	I2122721B	ICEX2	12/27/2021 12:11:50PM	Unknown
12	I2122721B	ICEX3	12/27/2021 12:15:40PM	Unknown
13	I2122721B	ICEX4	12/27/2021 12:19:30PM	Unknown
14	I2122721B	ICEX5	12/27/2021 12:23:14PM	Unknown
15	I2122721B	CCV-6824595	12/27/2021 12:27:01PM	QC
16	I2122721B	CCB-6825508	12/27/2021 12:30:35PM	QC
17	I2122721B	CCVL-6825510	12/27/2021 12:44:47PM	QC
18	I2122721B	240-161540-A-1-B@2	12/27/2021 12:48:34PM	Unknown
19	I2122721B	240-161519-A-7-C@2	12/27/2021 12:52:19PM	Unknown
20	I2122721B	180-131057-E-1-A@5	12/27/2021 12:56:03PM	Unknown
21	I2122721B	180-131057-E-4-A@5	12/27/2021 12:59:47PM	Unknown
22	I2122721B	131057-E-4-ASD@25	12/27/2021 1:03:31PM	Unknown
23	I2122721B	131057-E-4-APDS@5	12/27/2021 1:07:16PM	Unknown
24	I2122721B	131057-E-4-B MS@5	12/27/2021 1:10:51PM	Unknown
25	I2122721B	131057-E-4-C MSD@5	12/27/2021 1:14:32PM	Unknown
26	I2122721B	180-131057-E-5-A@5	12/27/2021 1:18:13PM	Unknown
27	I2122721B	CCV-6824595	12/27/2021 1:22:00PM	QC
28	I2122721B	CCB-6825508	12/27/2021 1:25:33PM	QC
29	I2122721B	CCVL-6825510	12/27/2021 1:29:22PM	QC
30	I2122721B	480-193443-D-1-C@2	12/27/2021 1:33:08PM	Unknown
31	I2122721B	480-193443-D-1-C@5	12/27/2021 1:36:53PM	Unknown
32	I2122721B	480-193443-D-2-C@2	12/27/2021 1:40:40PM	Unknown
33	I2122721B	480-193443-D-2-C@5	12/27/2021 1:44:25PM	Unknown
34	I2122721B	480-193443-D-3-C@2	12/27/2021 1:48:12PM	Unknown
35	I2122721B	rinse	12/27/2021 1:52:00PM	Unknown
36	I2122721B	480-193573-I-6-B@2	12/27/2021 1:55:46PM	Unknown
37	I2122721B	MB 480-609926/1-A	12/27/2021 1:59:28PM	Unknown
38	I2122721B	LCS 480-609926/2-A	12/27/2021 2:03:14PM	Unknown
39	I2122721B	CCV-6824595	12/27/2021 2:06:51PM	QC
40	I2122721B	CCB-6825508	12/27/2021 2:10:24PM	QC
41	I2122721B	CCVL-6825510	12/27/2021 2:14:13PM	QC
42	I2122721B	480-193705-C-1-B	12/27/2021 2:17:59PM	Unknown

43	I2122721B	480-193705-C-2-B	12/27/2021	2:21:44PM	Unknown
44	I2122721B	480-193705-C-3-B	12/27/2021	2:25:29PM	Unknown
45	I2122721B	480-193705-C-4-B	12/27/2021	2:29:12PM	Unknown
46	I2122721B	480-193715-B-1-A	12/27/2021	2:32:56PM	Unknown
47	I2122721B	480-193715-B-1-ASD@5	12/27/2021	2:36:38PM	Unknown
48	I2122721B	480-193715-B-1-APDS	12/27/2021	2:40:23PM	Unknown
49	I2122721B	480-193715-B-1-B MS	12/27/2021	2:43:59PM	Unknown
50	I2122721B	480-193715-B-1-C MSD	12/27/2021	2:47:34PM	Unknown
51	I2122721B	CCV-6824595	12/27/2021	2:51:11PM	QC
52	I2122721B	CCB-6825508	12/27/2021	2:54:44PM	QC
53	I2122721B	CCVL-6825510	12/27/2021	2:58:32PM	QC
54	I2122721B	480-193715-B-2-A	12/27/2021	3:02:18PM	Unknown
55	I2122721B	480-193715-B-3-A	12/27/2021	3:06:01PM	Unknown
56	I2122721B	480-193715-B-4-A	12/27/2021	3:09:55PM	Unknown
57	I2122721B	480-193715-B-5-A	12/27/2021	3:13:38PM	Unknown
58	I2122721B	480-193715-B-6-A	12/27/2021	3:17:20PM	Unknown
59	I2122721B	480-193715-B-7-A	12/27/2021	3:21:02PM	Unknown
60	I2122721B	480-193715-B-8-A	12/27/2021	3:24:46PM	Unknown
61	I2122721B	480-193715-B-9-A	12/27/2021	3:28:30PM	Unknown
62	I2122721B	480-193715-B-10-A	12/27/2021	3:32:12PM	Unknown
63	I2122721B	CCV-6824595	12/27/2021	3:35:58PM	QC
64	I2122721B	CCB-6825508	12/27/2021	3:39:31PM	QC
65	I2122721B	CCVL-6825510	12/27/2021	3:43:19PM	QC
66	I2122721B	480-193715-B-11-A	12/27/2021	3:47:05PM	Unknown
67	I2122721B	480-193715-B-12-A	12/27/2021	3:50:49PM	Unknown
68	I2122721B	480-193715-B-13-A	12/27/2021	3:54:32PM	Unknown
69	I2122721B	480-193643-B-20-B	12/27/2021	3:58:18PM	Unknown
70	I2122721B	MB 480-609873/1-B	12/27/2021	4:02:03PM	Unknown
71	I2122721B	LCS 480-609873/2-B	12/27/2021	4:05:49PM	Unknown
72	I2122721B	480-193436-R-6-B	12/27/2021	4:09:24PM	Unknown
73	I2122721B	480-193439-D-7-B	12/27/2021	4:13:09PM	Unknown
74	I2122721B	480-193694-B-3-B	12/27/2021	4:16:54PM	Unknown
75	I2122721B	CCV-6824595	12/27/2021	4:20:41PM	QC
76	I2122721B	CCB-6825508	12/27/2021	4:24:13PM	QC
77	I2122721B	CCVL-6825510	12/27/2021	4:28:02PM	QC
78	I2122721B	480-193694-B-4-B	12/27/2021	4:31:49PM	Unknown
79	I2122721B	480-193694-B-4-BSD@5	12/27/2021	4:35:33PM	Unknown
80	I2122721B	480-193694-B-4-BPDS	12/27/2021	4:39:18PM	Unknown
81	I2122721B	480-193694-B-4-C MS	12/27/2021	4:42:53PM	Unknown
82	I2122721B	480-193694-B-4-D MSD	12/27/2021	4:46:29PM	Unknown
83	I2122721B	MB 480-610027/1-A	12/27/2021	4:50:04PM	Unknown
84	I2122721B	LCS 480-610027/2-A	12/27/2021	4:53:51PM	Unknown
85	I2122721B	480-193756-B-1-A	12/27/2021	4:57:26PM	Unknown
86	I2122721B	480-193756-B-2-A	12/27/2021	5:01:07PM	Unknown
87	I2122721B	CCV-6824595	12/27/2021	5:04:53PM	QC
88	I2122721B	CCB-6825508	12/27/2021	5:08:26PM	QC
89	I2122721B	CCVL-6825510	12/27/2021	5:12:18PM	QC
90	I2122721B	480-193756-B-2-ASD@5	12/27/2021	5:16:04PM	Unknown
91	I2122721B	480-193756-B-2-APDS	12/27/2021	5:19:48PM	Unknown
92	I2122721B	480-193756-B-2-B MS	12/27/2021	5:23:23PM	Unknown
93	I2122721B	480-193756-B-2-C MSD	12/27/2021	5:26:57PM	Unknown
94	I2122721B	MB 480-610025/1-A	12/27/2021	5:30:31PM	Unknown

95	I2122721B	LCS 480-610025/2-A	12/27/2021	5:34:18PM	Unknown
96	I2122721B	480-193765-C-2-A	12/27/2021	5:37:53PM	Unknown
97	I2122721B	480-193765-C-1-A	12/27/2021	5:41:40PM	Unknown
98	I2122721B	480-193765-C-1-ASD@5	12/27/2021	5:45:26PM	Unknown
99	I2122721B	CCV-6824595	12/27/2021	5:49:17PM	QC
100	I2122721B	CCB-6825508	12/27/2021	5:52:50PM	QC
101	I2122721B	CCVL-6825510	12/27/2021	5:56:40PM	QC
102	I2122721B	480-193765-C-1-APDS	12/27/2021	6:00:27PM	Unknown
103	I2122721B	480-193765-C-1-B MS	12/27/2021	6:04:02PM	Unknown
104	I2122721B	480-193765-C-1-C MSD	12/27/2021	6:07:37PM	Unknown
105	I2122721B	480-193765-C-3-A	12/27/2021	6:11:12PM	Unknown
106	I2122721B	480-193765-C-4-A	12/27/2021	6:14:59PM	Unknown
107	I2122721B	480-193766-A-1-A	12/27/2021	6:18:46PM	Unknown
108	I2122721B	480-193766-A-1-B MS	12/27/2021	6:22:29PM	Unknown
109	I2122721B	480-193766-A-1-C MSD	12/27/2021	6:26:05PM	Unknown
110	I2122721B	480-193769-B-1-A	12/27/2021	6:29:41PM	Unknown
111	I2122721B	CCV-6824595	12/27/2021	6:33:31PM	QC
112	I2122721B	CCB-6825508	12/27/2021	6:37:03PM	QC
113	I2122721B	CCVL-6825510	12/27/2021	6:40:53PM	QC
114	I2122721B	480-193769-B-2-A	12/27/2021	6:44:39PM	Unknown
115	I2122721B	480-193771-H-1-A	12/27/2021	6:48:23PM	Unknown
116	I2122721B	480-193771-H-2-A	12/27/2021	6:52:01PM	Unknown
117	I2122721B	480-193742-B-1-A	12/27/2021	6:55:41PM	Unknown
118	I2122721B	480-193742-B-2-A	12/27/2021	6:59:23PM	Unknown
119	I2122721B	MB 480-610026/1-A	12/27/2021	7:03:07PM	Unknown
120	I2122721B	LCS 480-610026/2-A	12/27/2021	7:06:53PM	Unknown
121	I2122721B	480-193756-A-1-A	12/27/2021	7:10:29PM	Unknown
122	I2122721B	480-193756-C-2-A	12/27/2021	7:14:10PM	Unknown
123	I2122721B	CCV-6824595	12/27/2021	7:17:54PM	QC
124	I2122721B	CCB-6825508	12/27/2021	7:21:27PM	QC
125	I2122721B	CCVL-6825510	12/27/2021	7:25:16PM	QC
126	I2122721B	480-193756-C-2-ASD@5	12/27/2021	7:29:02PM	Unknown
127	I2122721B	480-193756-C-2-APDS	12/27/2021	7:32:46PM	Unknown
128	I2122721B	480-193756-C-2-B MS	12/27/2021	7:36:20PM	Unknown
129	I2122721B	480-193756-C-2-C MSD	12/27/2021	7:39:54PM	Unknown
130	I2122721B	480-193750-A-2-A	12/27/2021	7:43:29PM	Unknown
131	I2122721B	480-193753-I-1-A	12/27/2021	7:47:18PM	Unknown
132	I2122721B	480-193757-C-3-A	12/27/2021	7:51:01PM	Unknown
133	I2122721B	240-161619-B-1-A	12/27/2021	7:54:56PM	Unknown
134	I2122721B	240-161606-B-1-A	12/27/2021	7:58:40PM	Unknown
135	I2122721B	CCV-6824595	12/27/2021	8:02:26PM	QC
136	I2122721B	CCB-6825508	12/27/2021	8:05:59PM	QC
137	I2122721B	CCVL-6825510	12/27/2021	8:09:48PM	QC
138	I2122721B	240-161606-B-2-A	12/27/2021	8:13:34PM	Unknown
139	I2122721B	240-161606-B-3-A	12/27/2021	8:17:16PM	Unknown
140	I2122721B	240-161606-B-4-A	12/27/2021	8:20:59PM	Unknown
141	I2122721B	240-161606-B-5-A	12/27/2021	8:24:45PM	Unknown
142	I2122721B	240-161606-B-6-A	12/27/2021	8:28:28PM	Unknown
143	I2122721B	240-161606-B-7-A	12/27/2021	8:32:14PM	Unknown
144	I2122721B	240-161606-B-8-A	12/27/2021	8:35:59PM	Unknown
145	I2122721B	240-161606-B-9-A	12/27/2021	8:39:42PM	Unknown
146	I2122721B	240-161627-A-2-A	12/27/2021	8:43:23PM	Unknown

147	I2122721B	CCV-6824595	12/27/2021	8:47:06PM	QC
148	I2122721B	CCB-6825508	12/27/2021	8:50:38PM	QC
149	I2122721B	CCVL-6825510	12/27/2021	8:54:26PM	QC
150	I2122721B	240-161627-A-2-B MS	12/27/2021	8:58:13PM	Unknown
151	I2122721B	240-161627-A-2-C MSD	12/27/2021	9:01:48PM	Unknown
152	I2122721B	240-161627-A-4-A	12/27/2021	9:05:23PM	Unknown
153	I2122721B	240-161627-A-6-A	12/27/2021	9:09:07PM	Unknown
154	I2122721B	MB 480-609871/1-B	12/27/2021	9:12:50PM	Unknown
155	I2122721B	LCS 480-609871/2-B	12/27/2021	9:16:36PM	Unknown
156	I2122721B	480-193573-J-1-B	12/27/2021	9:20:11PM	Unknown
157	I2122721B	480-193573-J-2-B	12/27/2021	9:24:01PM	Unknown
158	I2122721B	480-193573-J-3-B	12/27/2021	9:27:44PM	Unknown
159	I2122721B	CCV-6824595	12/27/2021	9:31:28PM	QC
160	I2122721B	CCB-6825508	12/27/2021	9:35:01PM	QC
161	I2122721B	CCVL-6825510	12/27/2021	9:38:51PM	QC
162	I2122721B	480-193573-J-4-B	12/27/2021	9:42:38PM	Unknown
163	I2122721B	480-193573-J-5-B	12/27/2021	9:46:26PM	Unknown
164	I2122721B	480-193573-J-6-B	12/27/2021	9:50:09PM	Unknown
165	I2122721B	480-193573-J-6-BSD@5	12/27/2021	9:53:51PM	Unknown
166	I2122721B	480-193573-J-6-BPDS	12/27/2021	9:57:35PM	Unknown
167	I2122721B	480-193573-J-6-C MS	12/27/2021	10:01:09PM	Unknown
168	I2122721B	480-193573-J-6-D MSD	12/27/2021	10:04:44PM	Unknown
169	I2122721B	480-193573-J-9-B	12/27/2021	10:08:18PM	Unknown
170	I2122721B	480-193573-J-10-B	12/27/2021	10:12:01PM	Unknown
171	I2122721B	CCV-6824595	12/27/2021	10:15:46PM	QC
172	I2122721B	CCB-6825508	12/27/2021	10:19:19PM	QC
173	I2122721B	CCVL-6825510	12/27/2021	10:23:08PM	QC
174	I2122721B	480-193573-J-7-B	12/27/2021	10:26:55PM	Unknown
175	I2122721B	480-193573-J-8-B	12/27/2021	10:30:38PM	Unknown
176	I2122721B	480-193573-J-11-B	12/27/2021	10:34:19PM	Unknown
177	I2122721B	480-193573-J-12-B	12/27/2021	10:38:03PM	Unknown
178	I2122721B	480-193573-J-13-B	12/27/2021	10:41:50PM	Unknown
179	I2122721B	480-193573-J-14-B	12/27/2021	10:45:33PM	Unknown
180	I2122721B	480-193573-J-15-B	12/27/2021	10:49:26PM	Unknown
181	I2122721B	480-193573-A-16-B	12/27/2021	10:53:14PM	Unknown
182	I2122721B	480-193573-A-17-B	12/27/2021	10:57:09PM	Unknown
183	I2122721B	CCV-6824595	12/27/2021	11:00:59PM	QC
184	I2122721B	CCB-6825508	12/27/2021	11:04:31PM	QC
185	I2122721B	CCVL-6825510	12/27/2021	11:08:20PM	QC
186	I2122721B	480-193573-A-18-B	12/27/2021	11:12:06PM	Unknown
187	I2122721B	480-193573-P-20-B	12/27/2021	11:16:00PM	Unknown
188	I2122721B	480-193573-A-22-B	12/27/2021	11:19:48PM	Unknown
189	I2122721B	MB 480-610028/1-A	12/27/2021	11:23:32PM	Unknown
190	I2122721B	LCS 480-610028/2-A	12/27/2021	11:27:19PM	Unknown
191	I2122721B	190-27600-G-1-A	12/27/2021	11:30:54PM	Unknown
192	I2122721B	190-27600-G-1-ASD@5	12/27/2021	11:34:36PM	Unknown
193	I2122721B	190-27600-G-1-APDS	12/27/2021	11:38:21PM	Unknown
194	I2122721B	190-27600-G-1-B MS	12/27/2021	11:41:56PM	Unknown
195	I2122721B	CCV-6824595	12/27/2021	11:45:33PM	QC
196	I2122721B	CCB-6825508	12/27/2021	11:49:06PM	QC
197	I2122721B	CCVL-6825510	12/27/2021	11:52:54PM	QC
198	I2122721B	190-27600-G-1-C MSD	12/27/2021	11:56:40PM	Unknown

199	I2122721B	190-27600-G-2-A	12/28/2021	12:00:15AM	Unknown
200	I2122721B	190-27600-G-3-A	12/28/2021	12:03:59AM	Unknown
201	I2122721B	190-27600-G-4-A	12/28/2021	12:07:43AM	Unknown
202	I2122721B	190-27600-G-5-A	12/28/2021	12:11:25AM	Unknown
203	I2122721B	190-27600-G-6-A	12/28/2021	12:15:07AM	Unknown
204	I2122721B	190-27600-G-7-A	12/28/2021	12:18:51AM	Unknown
205	I2122721B	190-27600-G-8-A	12/28/2021	12:22:34AM	Unknown
206	I2122721B	190-27600-G-9-A	12/28/2021	12:26:17AM	Unknown
207	I2122721B	CCV-6824595	12/28/2021	12:29:59AM	QC
208	I2122721B	CCB-6825508	12/28/2021	12:33:32AM	QC
209	I2122721B	CCVL-6825510	12/28/2021	12:37:19AM	QC
210	I2122721B	190-27600-G-10-A	12/28/2021	12:41:06AM	Unknown
211	I2122721B	190-27600-G-11-A	12/28/2021	12:44:48AM	Unknown
212	I2122721B	190-27600-G-12-A	12/28/2021	12:48:30AM	Unknown
213	I2122721B	190-27600-G-13-A	12/28/2021	12:52:19AM	Unknown
214	I2122721B	190-27600-G-14-A	12/28/2021	12:56:02AM	Unknown
215	I2122721B	190-27600-G-15-A	12/28/2021	12:59:45AM	Unknown
216	I2122721B	190-27600-G-16-A	12/28/2021	1:03:30AM	Unknown
217	I2122721B	MB 480-610022/1-A	12/28/2021	1:07:11AM	Unknown
218	I2122721B	LCS 480-610022/2-A	12/28/2021	1:10:58AM	Unknown
219	I2122721B	CCV-6824595	12/28/2021	1:14:35AM	QC
220	I2122721B	CCB-6825508	12/28/2021	1:18:08AM	QC
221	I2122721B	CCVL-6825510	12/28/2021	1:21:56AM	QC
222	I2122721B	LCSD 480-610022/3-A	12/28/2021	1:25:43AM	Unknown
223	I2122721B	480-193739-A-1-A	12/28/2021	1:29:18AM	Unknown
224	I2122721B	480-193739-A-1-ASD@5	12/28/2021	1:33:01AM	Unknown
225	I2122721B	480-193739-A-1-APDS	12/28/2021	1:36:45AM	Unknown
226	I2122721B	480-193739-A-2-A	12/28/2021	1:40:20AM	Unknown
227	I2122721B	480-193739-A-3-A	12/28/2021	1:44:04AM	Unknown
228	I2122721B	480-193739-A-4-A	12/28/2021	1:47:48AM	Unknown
229	I2122721B	480-193739-A-5-A	12/28/2021	1:51:32AM	Unknown
230	I2122721B	480-193739-A-6-A	12/28/2021	1:55:21AM	Unknown
231	I2122721B	CCV-6824595	12/28/2021	1:59:15AM	QC
232	I2122721B	CCB-6825508	12/28/2021	2:02:48AM	QC
233	I2122721B	CCVL-6825510	12/28/2021	2:06:38AM	QC
234	I2122721B	480-193739-A-7-A	12/28/2021	2:10:25AM	Unknown
235	I2122721B	480-193759-A-1-A	12/28/2021	2:14:09AM	Unknown
236	I2122721B	480-193759-A-2-A	12/28/2021	2:17:53AM	Unknown
237	I2122721B	480-193759-A-3-A	12/28/2021	2:21:37AM	Unknown
238	I2122721B	480-193759-A-4-A	12/28/2021	2:25:20AM	Unknown
239	I2122721B	480-193759-A-5-A	12/28/2021	2:29:02AM	Unknown
240	I2122721B	MB 480-610024/1-A	12/28/2021	2:32:46AM	Unknown
241	I2122721B	LCS 480-610024/2-A	12/28/2021	2:36:33AM	Unknown
242	I2122721B	480-193697-F-1-A	12/28/2021	2:40:08AM	Unknown
243	I2122721B	CCV-6824595	12/28/2021	2:43:56AM	QC
244	I2122721B	CCB-6825508	12/28/2021	2:47:29AM	QC
245	I2122721B	CCVL-6825510	12/28/2021	2:51:19AM	QC
246	I2122721B	480-193697-F-1-ASD@5	12/28/2021	2:55:06AM	Unknown
247	I2122721B	480-193697-F-1-APDS	12/28/2021	2:58:52AM	Unknown
248	I2122721B	480-193697-F-1-B MS	12/28/2021	3:02:26AM	Unknown
249	I2122721B	480-193697-F-1-C MSD	12/28/2021	3:06:02AM	Unknown
250	I2122721B	480-193697-F-4-A	12/28/2021	3:09:37AM	Unknown

251	I2122721B	480-193643-B-21-B	12/28/2021	3:13:22AM	Unknown
252	I2122721B	CCVL-6825510	12/28/2021	3:17:10AM	QC
253	I2122721B	CCV-6824595	12/28/2021	3:20:59AM	QC
254	I2122721B	CCB-6825508	12/28/2021	3:24:32AM	QC

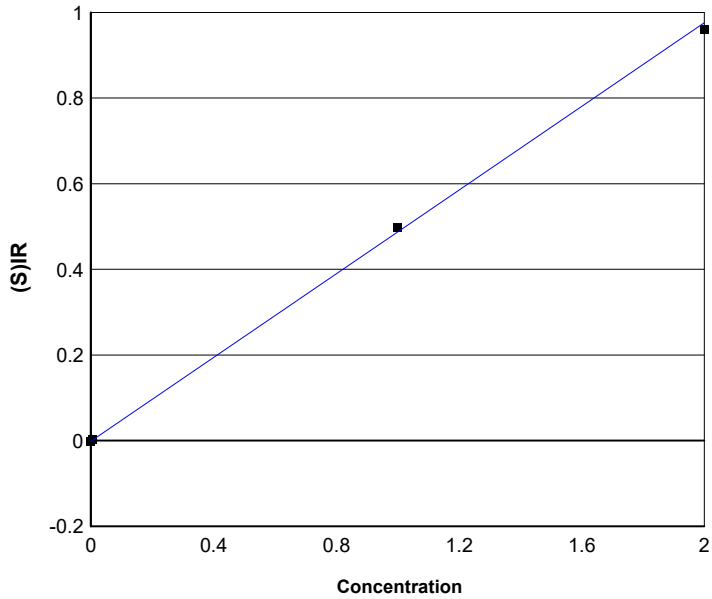
I2122721B

Author: ADM

Published: 12/28/2021 9:19:35AM

Instrument Name: 20094602a Serial Number: 20094602

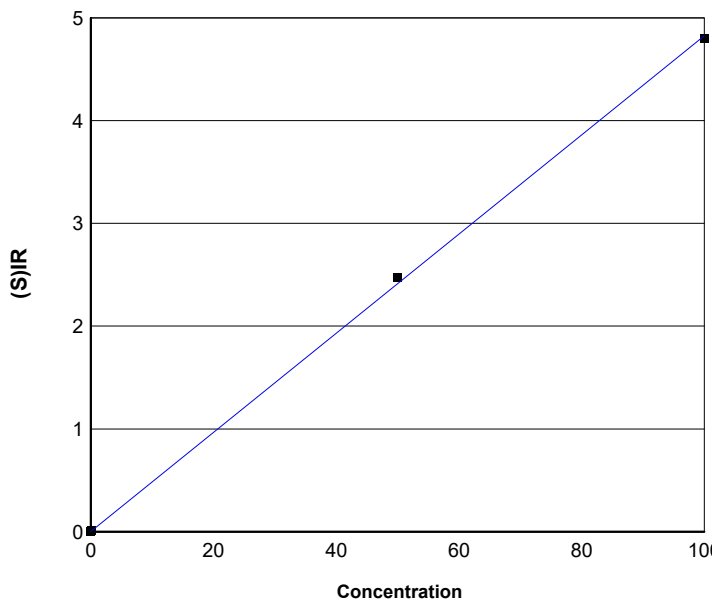
Method Name: ICAP2 New stds DEC2019 (794)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99983
A0 (Offset):	-0.00086301
A1 (Gain):	0.48857
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

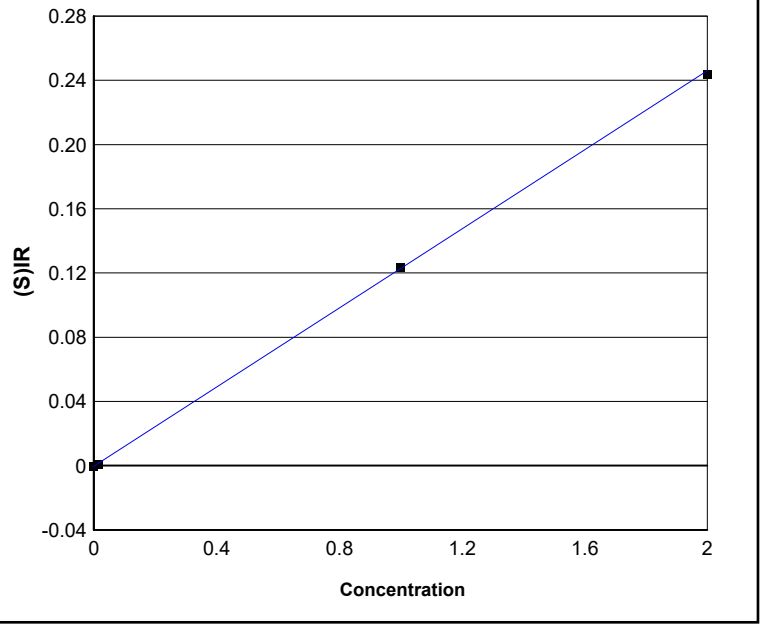
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000003725	-0.0000003725	0.00000	-0.00086319	0.00021143	1
IC-6825510	0.0060000	0.0062960	0.00029603	4.9339	0.0022130	0.00010400	1
IC-6824595	1.0000	1.0258	0.025788	2.5788	0.49835	0.00023666	1
IC-6797476	2.0000	1.9739	-0.026085	-1.3043	0.95961	0.000026178	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	0.0011553
A1 (Gain):	0.048242
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

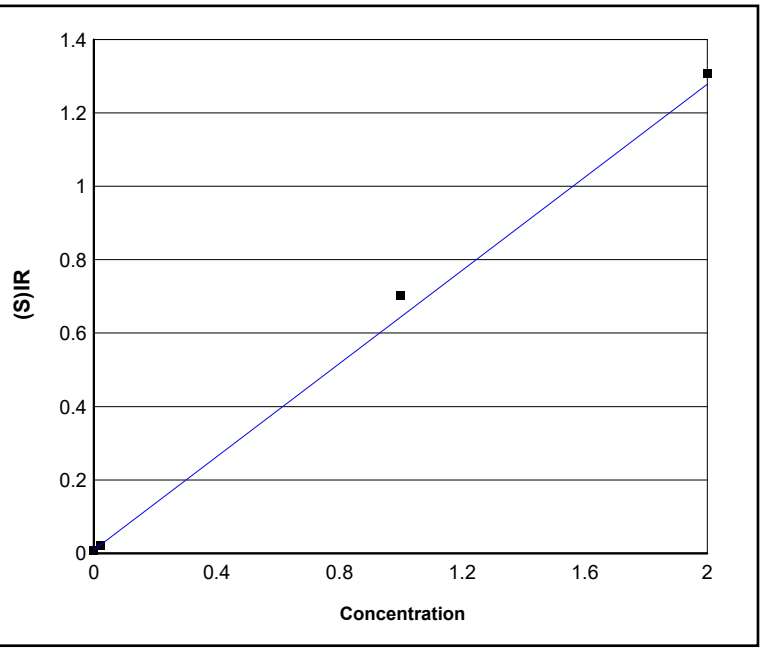
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000044475	-0.0000044475	0.00000	0.0011551	0.00039281	1
IC-6825510	0.20000	0.20243	0.0024287	1.2143	0.010974	0.00031402	1
IC-6824595	50.000	51.012	1.0118	2.0236	2.4726	0.0034186	1
IC-6797476	100.00	98.986	-1.0142	-1.0142	4.7975	0.0060841	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99985
A0 (Offset):	-0.00042528
A1 (Gain):	0.12320
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

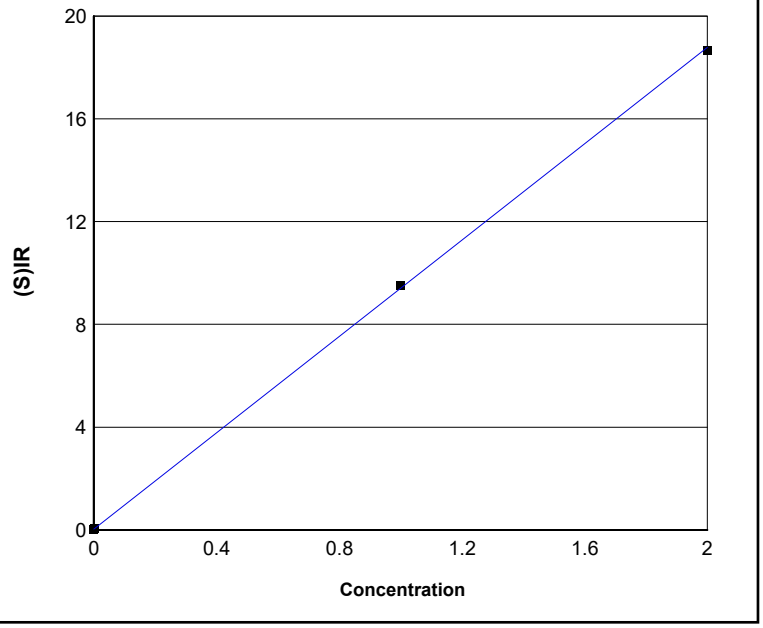
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000031566	0.0000031566	0.00000	-0.00042489	0.00030147	1
IC-6825510	0.015000	0.011732	-0.0032682	-21.788	0.0010176	0.000040241	1
IC-6824595	1.0000	1.0116	0.011593	1.1593	0.12350	0.000046987	1
IC-6797476	2.0000	1.9917	-0.0083107	-0.41553	0.24354	0.00012583	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99951
A0 (Offset):	0.0090396
A1 (Gain):	0.63455
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

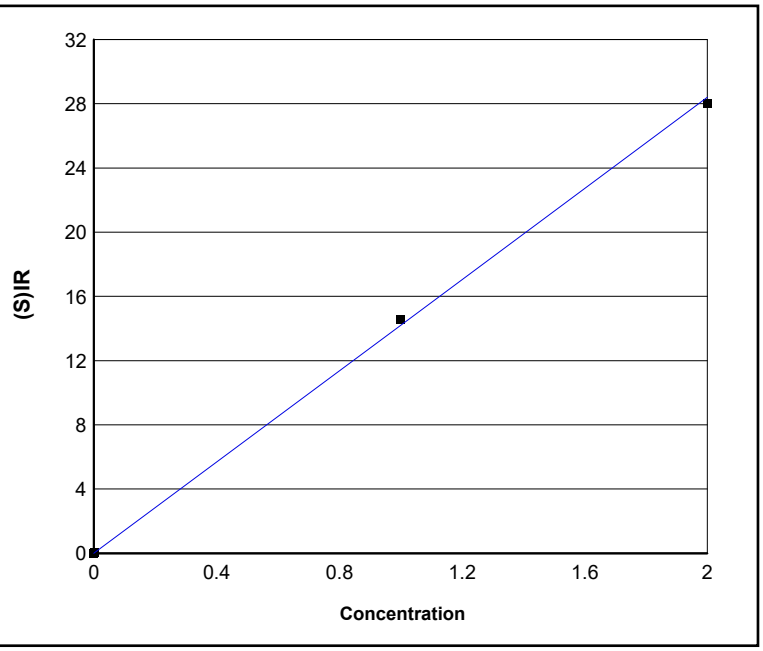
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000011143	0.0000011143	0.00000	0.0090403	0.00010391	1
IC-6825510	0.020000	0.018409	-0.0015906	-7.9532	0.021013	0.00028670	1
IC-6824595	1.0000	1.0461	0.046083	4.6083	0.70199	0.0023809	1
IC-6797476	2.0000	1.9555	-0.044528	-2.2264	1.3082	0.0020766	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.029844
A1 (Gain):	9.3766
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

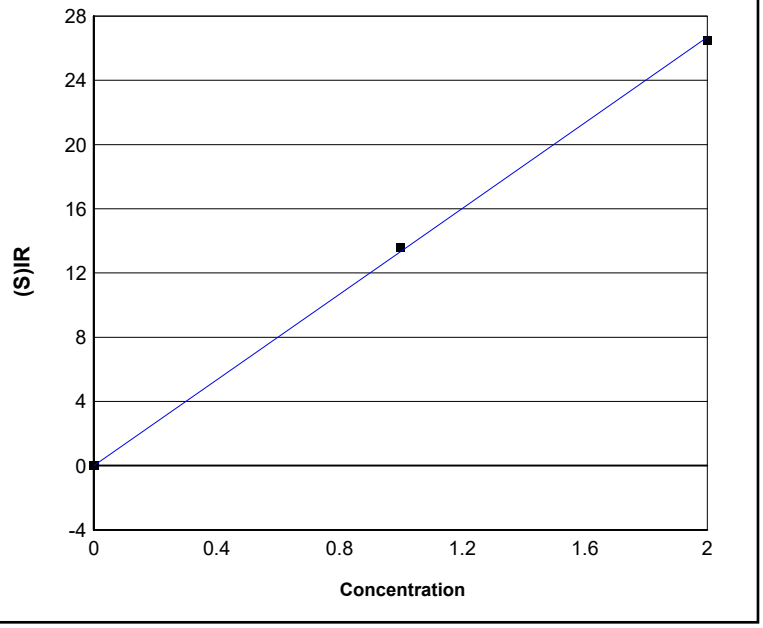
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000002957	0.0000002957	0.00000	0.029847	0.0021257	1
IC-6825510	0.0020000	0.0016909	-0.00030907	-15.453	0.045699	0.0058992	1
IC-6824595	1.0000	1.0131	0.013109	1.3109	9.5294	0.0029747	1
IC-6797476	2.0000	1.9872	-0.012800	-0.63999	18.663	0.022260	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99982
A0 (Offset):	0.0037885
A1 (Gain):	14.197
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

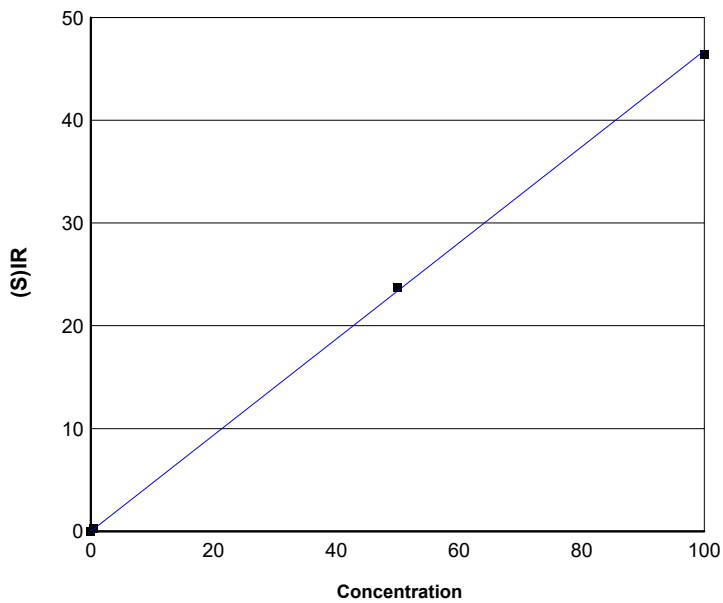
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000000374	-0.0000000374	0.00000	0.0037879	0.00024368	1
IC-6825510	0.0020000	0.0020102	0.000010246	0.51229	0.032328	0.000064416	1
IC-6824595	1.0000	1.0272	0.027162	2.7162	14.586	0.032746	1
IC-6797476	2.0000	1.9728	-0.027172	-1.3586	28.012	0.20118	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.0045177
A1 (Gain):	13.343
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

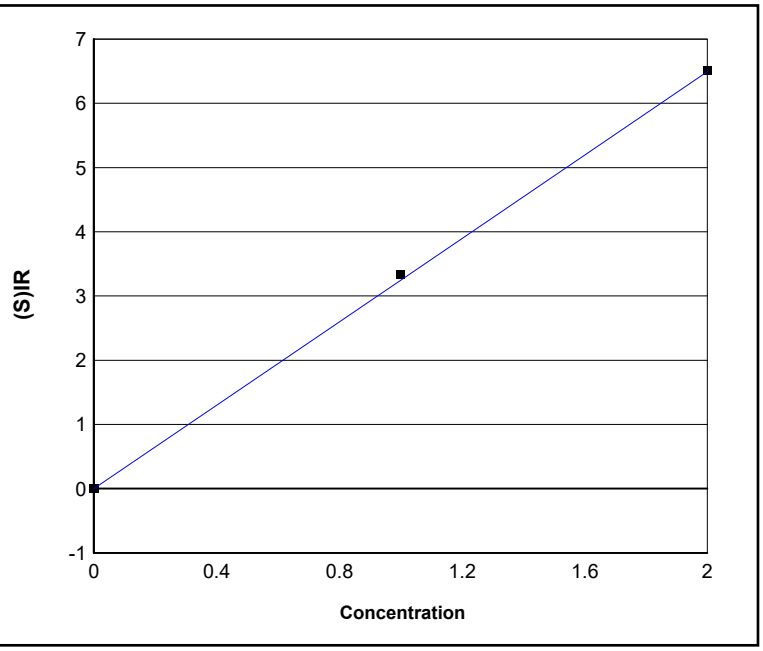
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000001402	-0.0000001402	0.00000	-0.0045196	0.00080576	1
IC-6825510	0.0020000	0.0021231	0.00012315	6.1575	0.023812	0.00071414	1
IC-6824595	1.0000	1.0171	0.017141	1.7141	13.567	0.0030748	1
IC-6797476	2.0000	1.9827	-0.017264	-0.86321	26.451	0.035294	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.011221
A1 (Gain):	0.46751
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

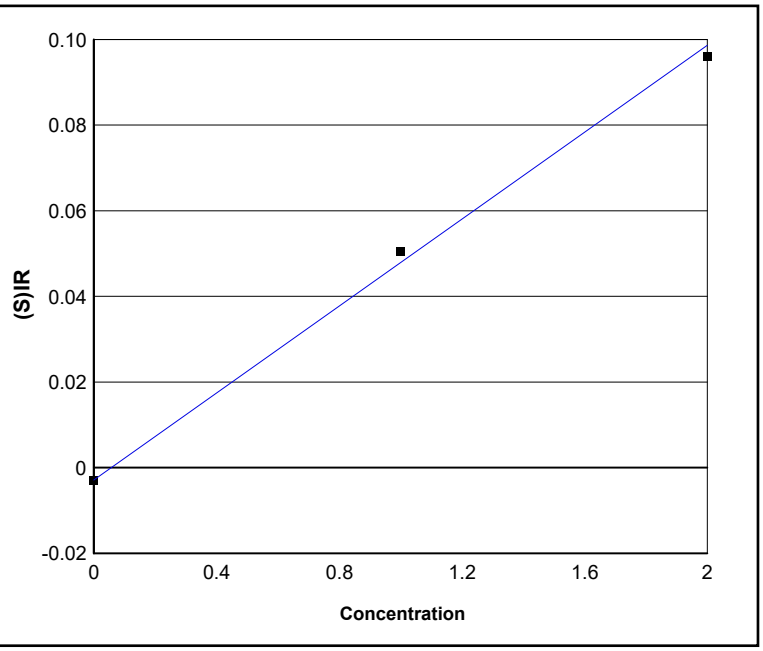
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000038871	0.0000038871	0.00000	0.011223	0.00065899	1
IC-6825510	0.50000	0.49199	-0.0080123	-1.6025	0.24123	0.00081138	1
IC-6824595	50.000	50.817	0.81703	1.6341	23.769	0.027738	1
IC-6797476	100.00	99.191	-0.80901	-0.80901	46.384	0.0047290	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.00061775
A1 (Gain):	3.2469
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

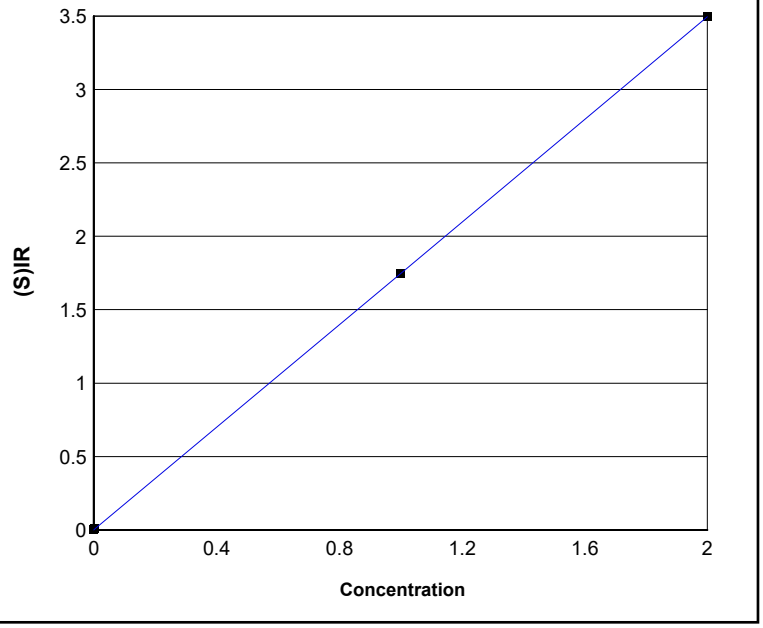
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000000465	-0.0000000465	0.00000	-0.00061790	0.000095342	1
IC-6825510	0.0020000	0.0020286	0.000028623	1.4312	0.0065324	0.00040514	1
IC-6824595	1.0000	1.0179	0.017880	1.7880	3.3409	0.013536	1
IC-6797476	2.0000	1.9821	-0.017911	-0.89554	6.5081	0.0068199	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.9993
A0 (Offset):	-0.002897
A1 (Gain):	0.05079
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

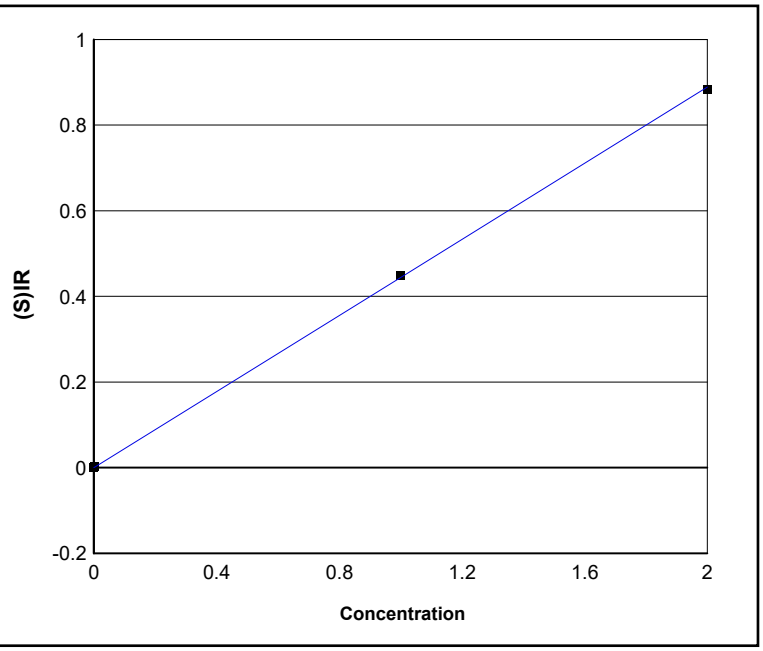
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.0000	-0.00002613	-0.00002613	0.0000	-0.002898	0.0007079	1
IC-6797476	2.000	1.948	-0.05226	-2.613	0.09603	0.0002018	1
IC-6824595	1.000	1.052	0.05226	5.226	0.05055	0.0009569	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00043489
A1 (Gain):	1.7471
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

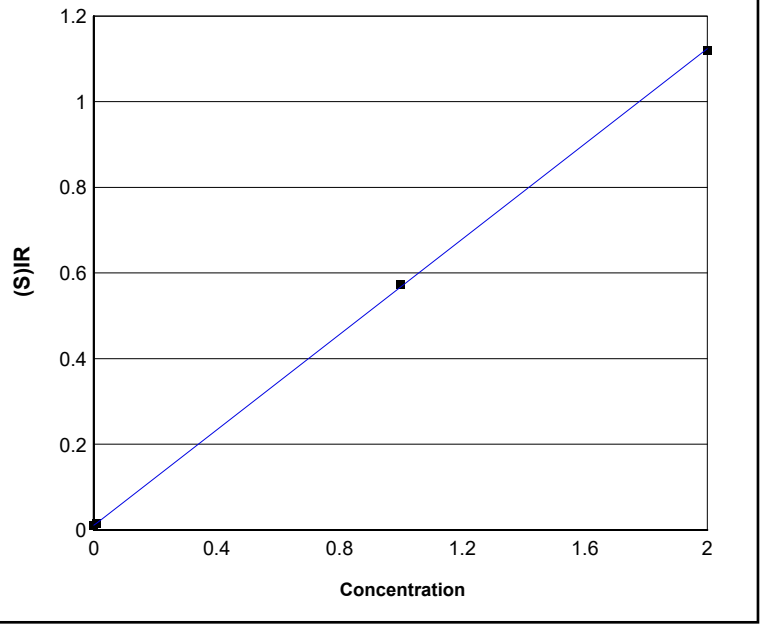
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000003125	0.0000003125	0.00000	0.00043543	0.00015527	1
IC-6825510	0.0040000	0.0036876	-0.00031242	-7.8105	0.0068794	0.000049050	1
IC-6824595	1.0000	0.99964	-0.00036466	-0.036466	1.7487	0.00045311	1
IC-6797476	2.0000	2.0007	0.00067685	0.033842	3.4995	0.0060947	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.000064453
A1 (Gain):	0.44453
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

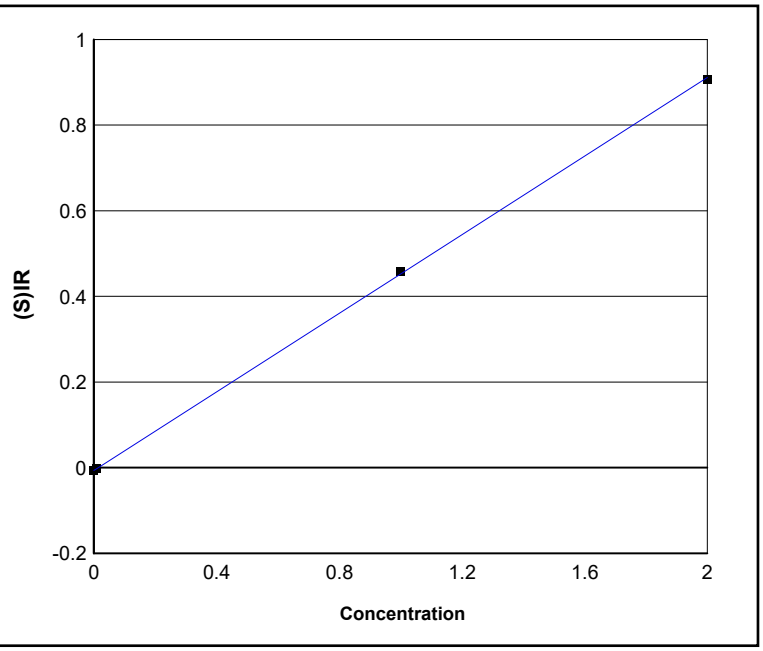
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000002100	-0.0000002100	0.00000	-0.000064546	0.000061179	1
IC-6825510	0.0040000	0.0041855	0.00018552	4.6379	0.0017961	0.000096697	1
IC-6824595	1.0000	1.0124	0.012422	1.2422	0.44989	0.00097732	1
IC-6797476	2.0000	1.9874	-0.012607	-0.63037	0.88320	0.0028257	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.011061
A1 (Gain):	0.55663
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

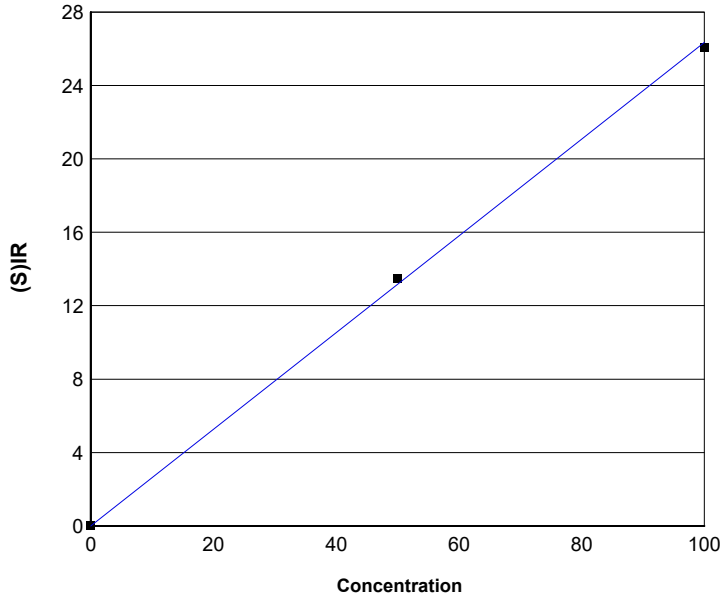
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000007028	0.0000007028	0.00000	0.011062	0.00026641	1
IC-6825510	0.010000	0.0092500	-0.00074999	-7.4999	0.016210	0.00018739	1
IC-6824595	1.0000	1.0087	0.0086794	0.86794	0.57253	0.0031335	1
IC-6797476	2.0000	1.9921	-0.0079294	-0.39647	1.1199	0.00052609	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.0065680
A1 (Gain):	0.45906
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

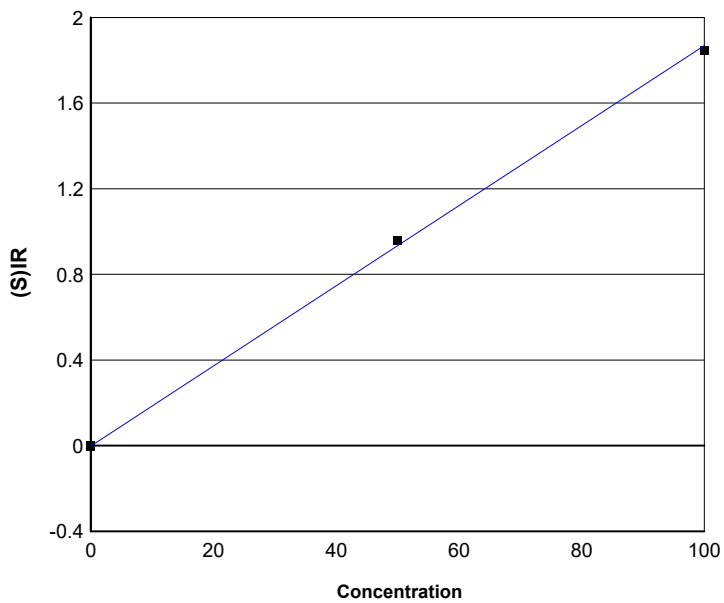
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000004250	-0.0000004250	0.00000	-0.0065681	0.00035625	1
IC-6825510	0.010000	0.010361	0.00036061	3.6061	-0.0018069	0.00024035	1
IC-6824595	1.0000	1.0132	0.013235	1.3235	0.45900	0.00089774	1
IC-6797476	2.0000	1.9864	-0.013596	-0.67978	0.90617	0.000090288	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99988
A0 (Offset):	0.00081417
A1 (Gain):	0.26341
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

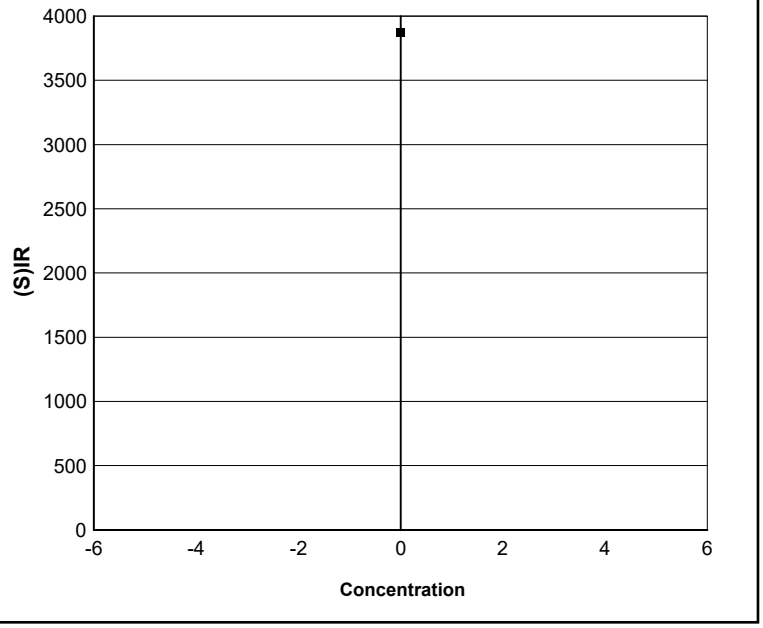
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000012388	-0.0000012388	0.00000	0.00081385	0.00034620	1
IC-6825510	0.050000	0.050700	0.00069989	1.3998	0.014169	0.00065773	1
IC-6824595	50.025	51.105	1.0796	2.1582	13.462	0.0036803	1
IC-6797476	100.00	98.920	-1.0803	-1.0803	26.057	0.017432	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99983
A0 (Offset):	-0.0018012
A1 (Gain):	0.018712
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

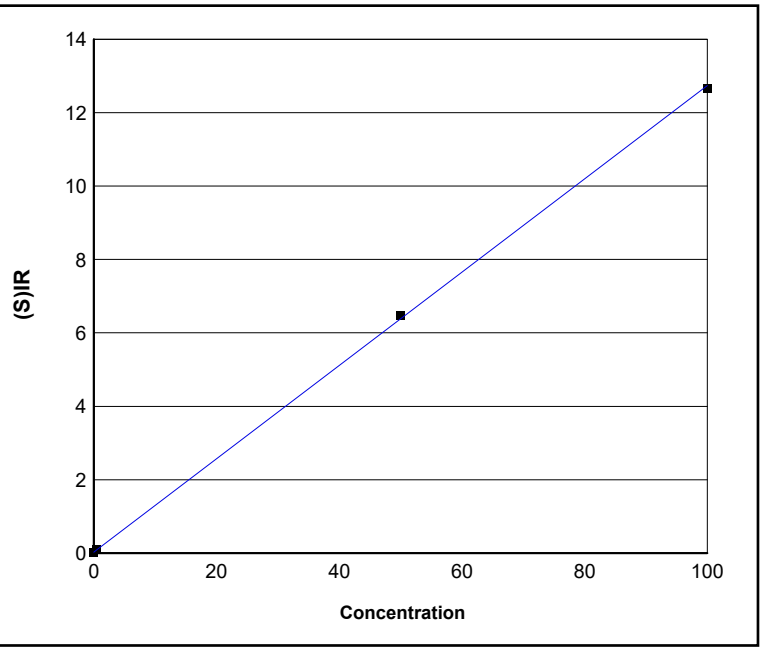
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	-0.000025361	-0.000025361	0.00000	-0.0018016	0.000026169	1
IC-6825510	0.050000	0.074800	0.024800	49.600	-0.00040146	0.00011368	1
IC-6824595	50.025	51.172	1.1473	2.2936	0.95576	0.0017589	1
IC-6797476	100.00	98.828	-1.1721	-1.1721	1.8475	0.0094483	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:38:20AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

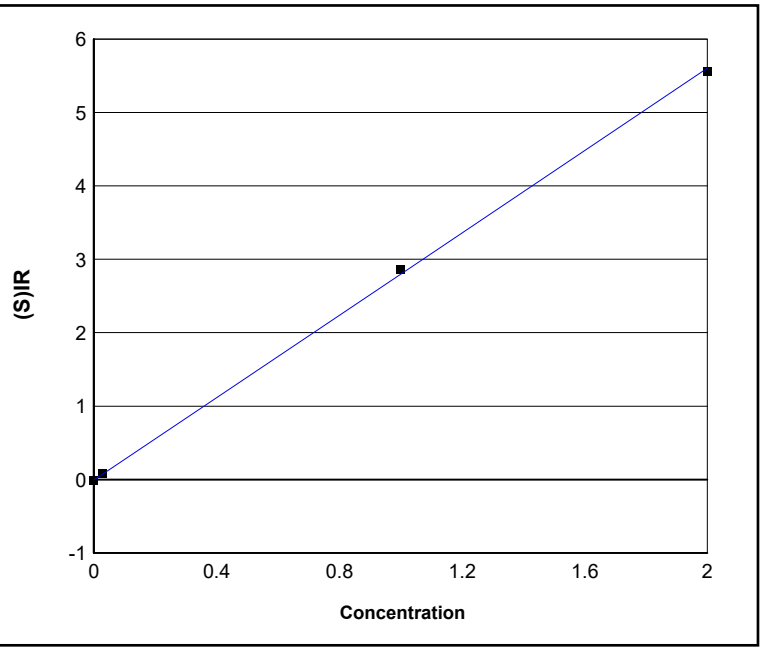
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.0000			0.0000	3,870	8.888	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.028145
A1 (Gain):	0.12712
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

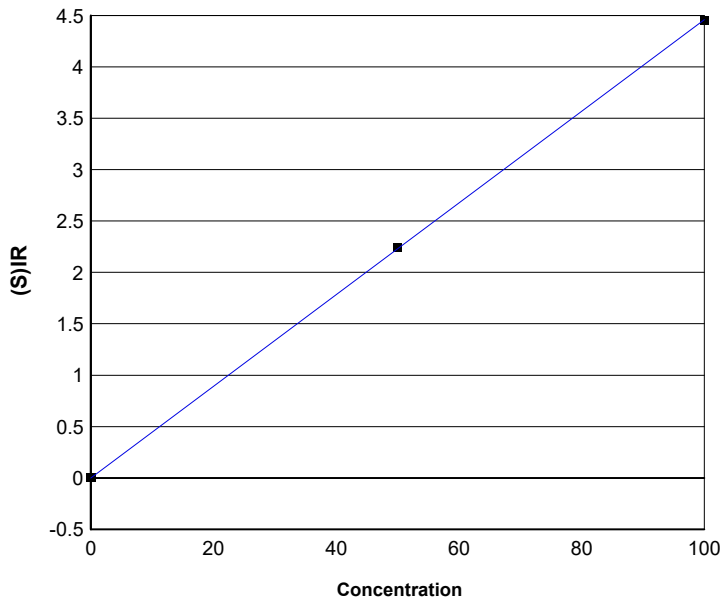
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.000012119	0.000012119	0.00000	0.028146	0.00089990	1
IC-6825510	0.50000	0.48451	-0.015486	-3.0972	0.089735	0.0085864	1
IC-6824595	50.000	50.658	0.65789	1.3158	6.4676	0.0081041	1
IC-6797476	100.00	99.358	-0.64241	-0.64241	12.658	0.024997	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99988
A0 (Offset):	-0.0077927
A1 (Gain):	2.8057
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

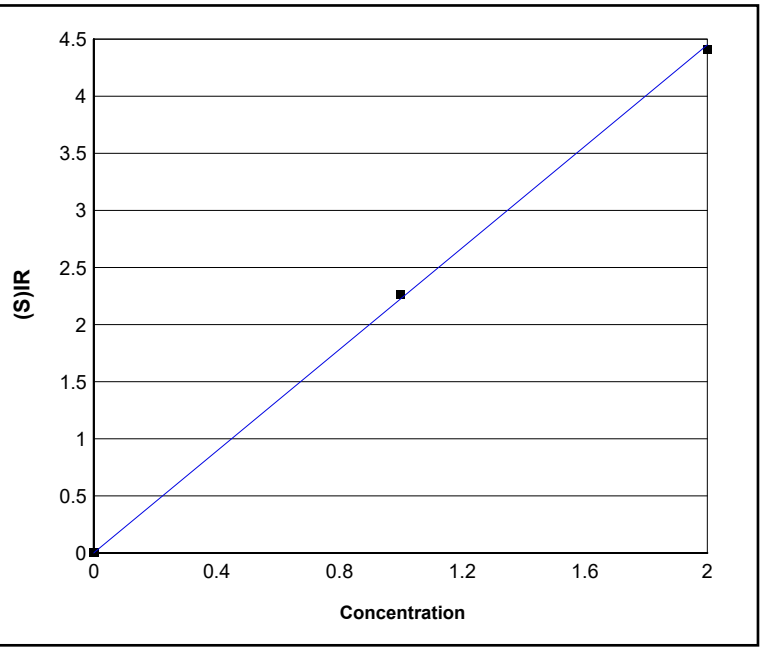
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000010298	-0.0000010298	0.00000	-0.0077956	0.0063681	1
IC-6825510	0.030000	0.030721	0.00072124	2.4041	0.078489	0.0080404	1
IC-6824595	1.0000	1.0213	0.021289	2.1289	2.8663	0.0038898	1
IC-6797476	2.0000	1.9780	-0.022009	-1.1004	5.5592	0.0096069	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000048982
A1 (Gain):	0.044593
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

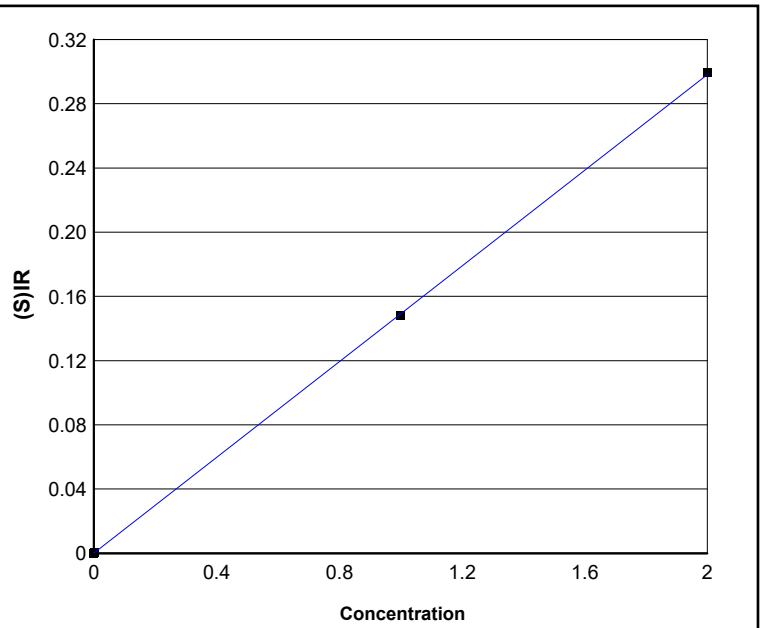
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.000013906	0.000013906	0.00000	-0.000048362	0.00016786	1
IC-6825510	0.20000	0.18561	-0.014386	-7.1928	0.0082276	0.00015108	1
IC-6824595	50.000	50.226	0.22557	0.45115	2.2395	0.0020112	1
IC-6797476	100.00	99.789	-0.21119	-0.21119	4.4495	0.011333	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00092385
A1 (Gain):	2.2248
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

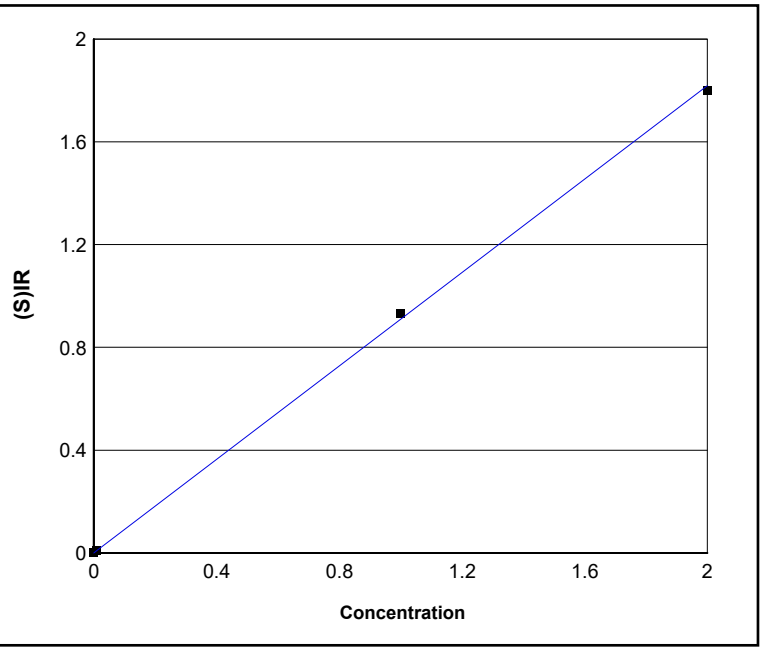
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000000426	0.0000000426	0.00000	0.00092394	0.000050977	1
IC-6825510	0.0030000	0.0029296	-0.000070448	-2.3483	0.0074439	0.000020288	1
IC-6824595	1.0000	1.0185	0.018513	1.8513	2.2676	0.0016511	1
IC-6797476	2.0000	1.9816	-0.018443	-0.92213	4.4109	0.013537	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00010562
A1 (Gain):	0.14901
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

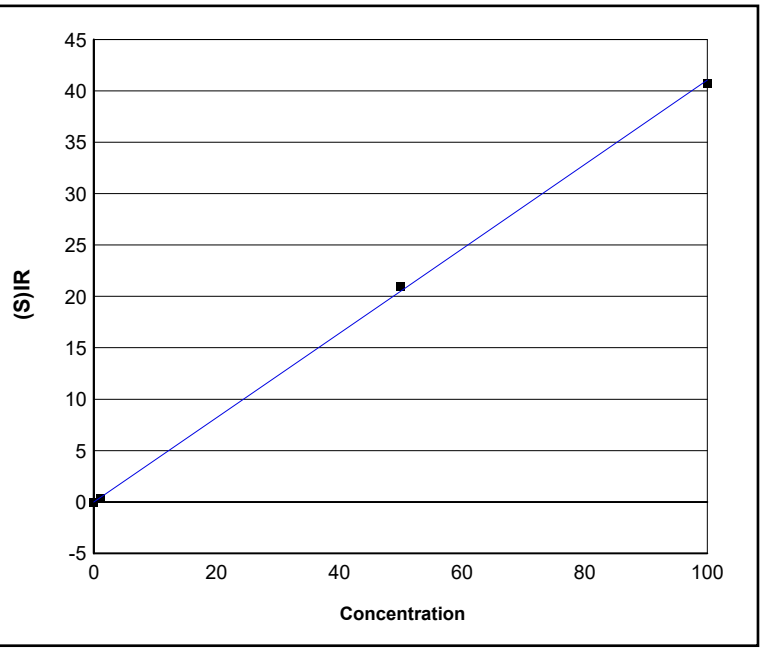
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000004977	0.0000004977	0.00000	0.00010569	0.000011198	1
IC-6825510	0.0030000	0.0025143	-0.00048571	-16.190	0.00048042	0.0000023850	1
IC-6824595	1.0000	0.99150	-0.0085046	-0.85046	0.14789	0.00051172	1
IC-6797476	2.0000	2.0090	0.0089904	0.44952	0.29955	0.0013976	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	0.00027544
A1 (Gain):	0.90941
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

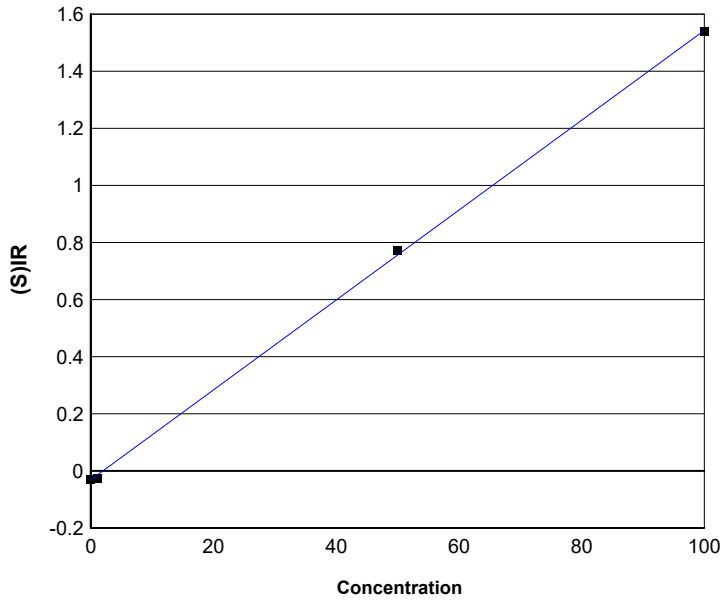
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000000810	0.0000000810	0.00000	0.00027552	0.00017232	1
IC-6825510	0.010000	0.0098024	-0.00019758	-1.9758	0.0091899	0.000045633	1
IC-6824595	1.0000	1.0231	0.023110	2.3110	0.93071	0.0061798	1
IC-6797476	2.0000	1.9771	-0.022913	-1.1456	1.7983	0.0032070	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	-0.013114
A1 (Gain):	0.41075
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

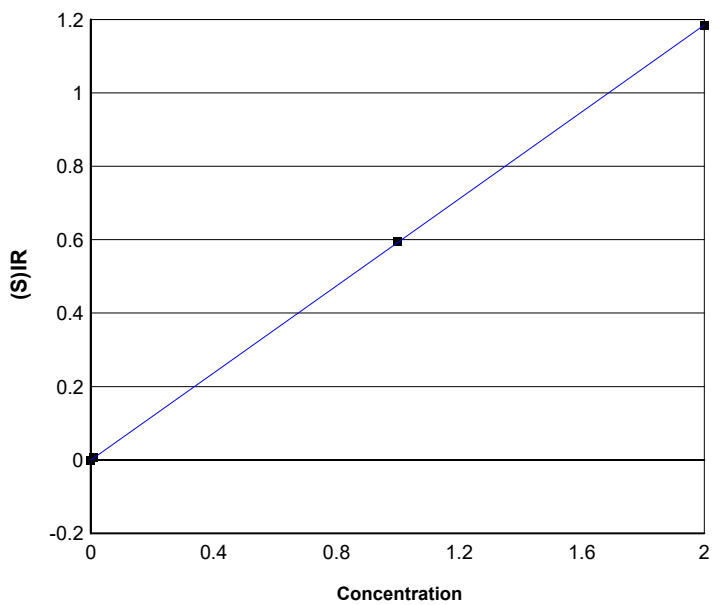
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.000055248	0.000055248	0.00000	-0.013091	0.000091451	1
IC-6825510	1.0000	0.93432	-0.065680	-6.5680	0.37065	0.0023702	1
IC-6824595	50.000	50.977	0.97745	1.9549	20.926	0.016159	1
IC-6797476	100.00	99.088	-0.91177	-0.91177	40.687	0.12178	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99801
A0 (Offset):	-0.031326
A1 (Gain):	0.015746
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

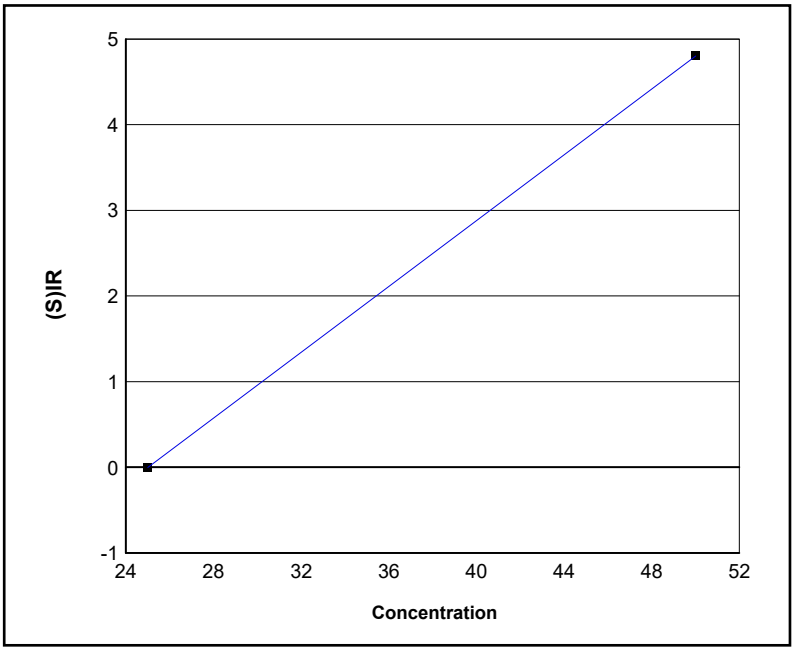
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.00074584	0.00074584	0.00000	-0.031314	0.0023946	1
IC-6825510	1.0000	0.23664	-0.76336	-76.336	-0.027600	0.0031780	1
IC-6824595	50.000	50.989	0.98910	1.9782	0.77155	0.0039742	1
IC-6797476	100.00	99.774	-0.22574	-0.22574	1.5397	0.0048172	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00023942
A1 (Gain):	0.59250
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

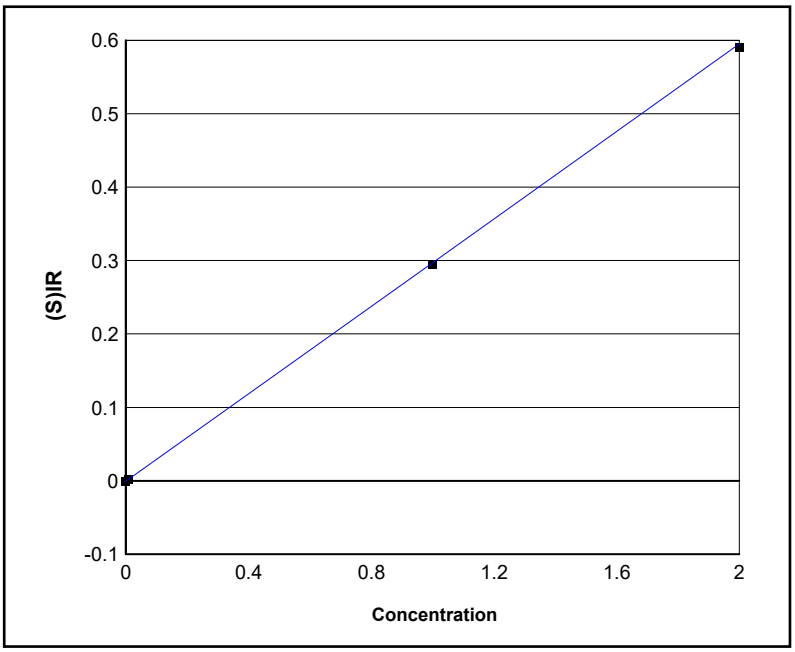
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000010759	0.0000010759	0.00000	-0.00023878	0.00029523	1
IC-6825510	0.010000	0.0088985	-0.0011015	-11.015	0.0050335	0.000062723	1
IC-6824595	1.0000	1.0040	0.0040249	0.40249	0.59524	0.00072844	1
IC-6797476	2.0000	1.9971	-0.0029244	-0.14622	1.1842	0.0016789	1



Element Name:	P
Element Wavelength:	P 213.618 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-4.810
A1 (Gain):	0.1923
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

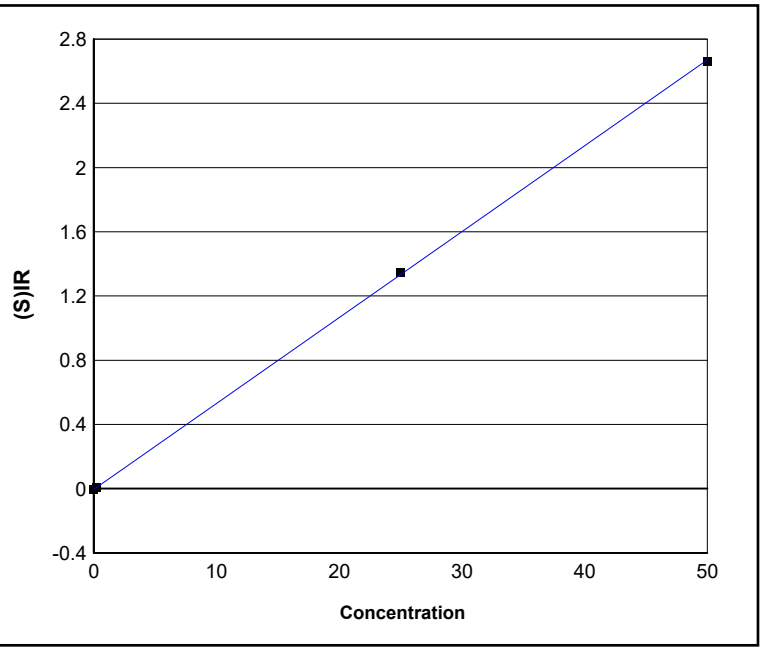
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-6825510	25.00	25.00	0.0000000000	0.0000000000	-0.003266	0.0002982	1
IC-6797476	50.00	50.00	0.0000000000	0.0000000000	4.804	0.009112	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00047021
A1 (Gain):	0.29774
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

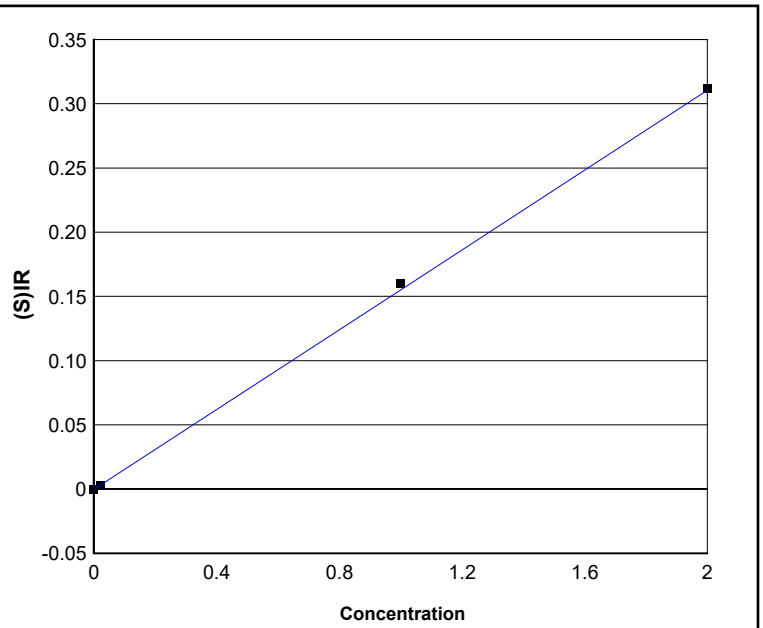
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000001066	0.0000001066	0.00000	-0.00047018	0.00015122	1
IC-6825510	0.010000	0.0098862	-0.00011383	-1.1383	0.0024480	0.000037530	1
IC-6824595	1.0000	1.0013	0.0013232	0.13232	0.29518	0.00016065	1
IC-6797476	2.0000	1.9988	-0.0012094	-0.060469	0.58969	0.00056870	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.0034982
A1 (Gain):	0.053487
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

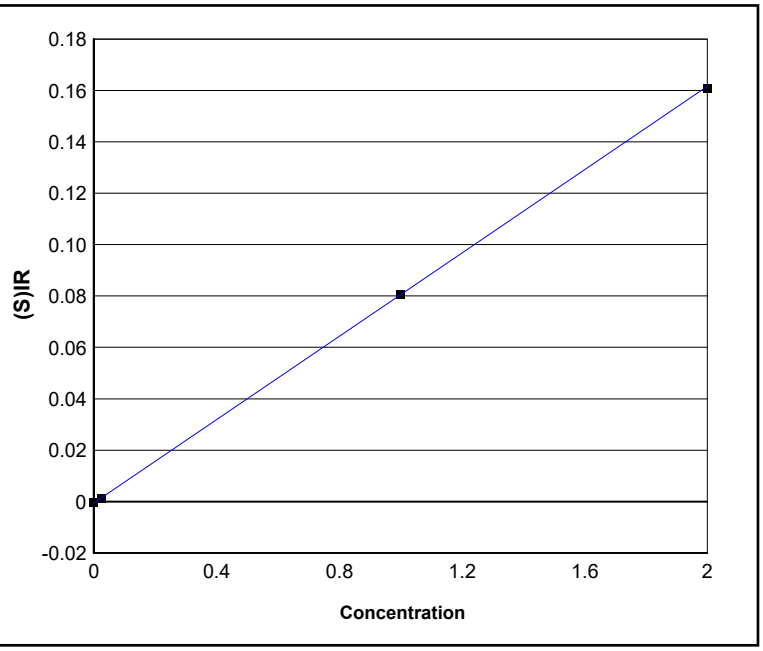
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.000021697	0.000021697	0.00000	-0.0034970	0.00012173	1
IC-6825510	0.20000	0.17733	-0.022665	-11.333	0.0059870	0.0000098004	1
IC-6824595	25.000	25.219	0.21934	0.87737	1.3454	0.00060297	1
IC-6797476	50.000	49.803	-0.19668	-0.39335	2.6604	0.0049277	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.00027811
A1 (Gain):	0.15541
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

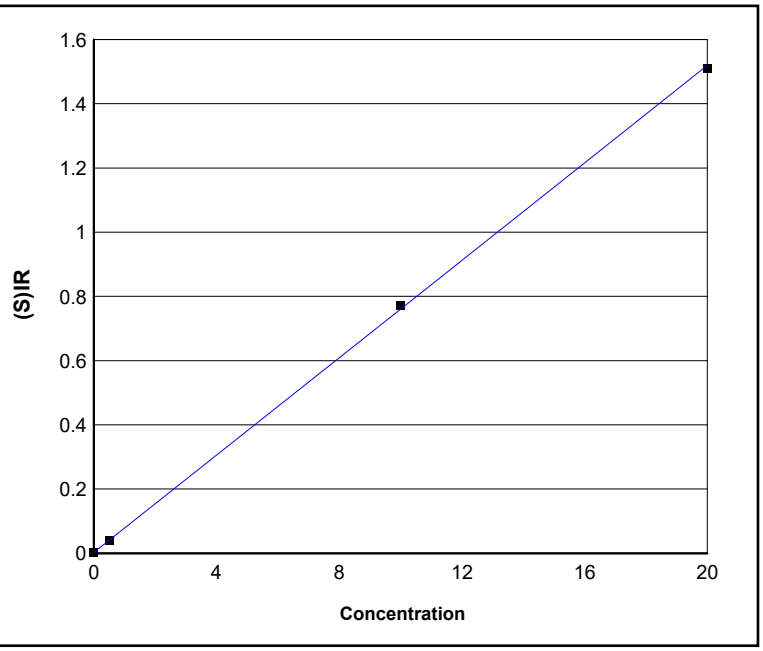
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000006824	-0.0000006824	0.00000	-0.00027821	0.00012555	1
IC-6825510	0.020000	0.020508	0.00050821	2.5411	0.0029227	0.000037523	1
IC-6824595	1.0000	1.0179	0.017921	1.7921	0.16015	0.00026987	1
IC-6797476	2.0000	1.9816	-0.018424	-0.92121	0.31215	0.0010673	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00051084
A1 (Gain):	0.081061
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

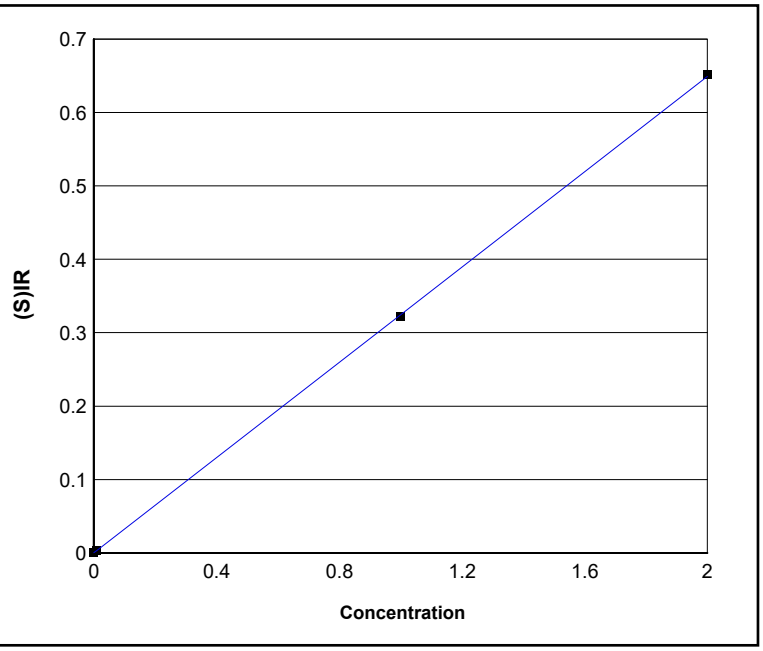
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000022786	0.0000022786	0.00000	-0.00051065	0.000048469	1
IC-6825510	0.025000	0.022644	-0.0023557	-9.4227	0.0013245	0.00043530	1
IC-6824595	1.0000	1.0038	0.0038022	0.38022	0.080542	0.00030345	1
IC-6797476	2.0000	1.9986	-0.0014376	-0.071879	0.16086	0.000043670	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.0024643
A1 (Gain):	0.075835
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

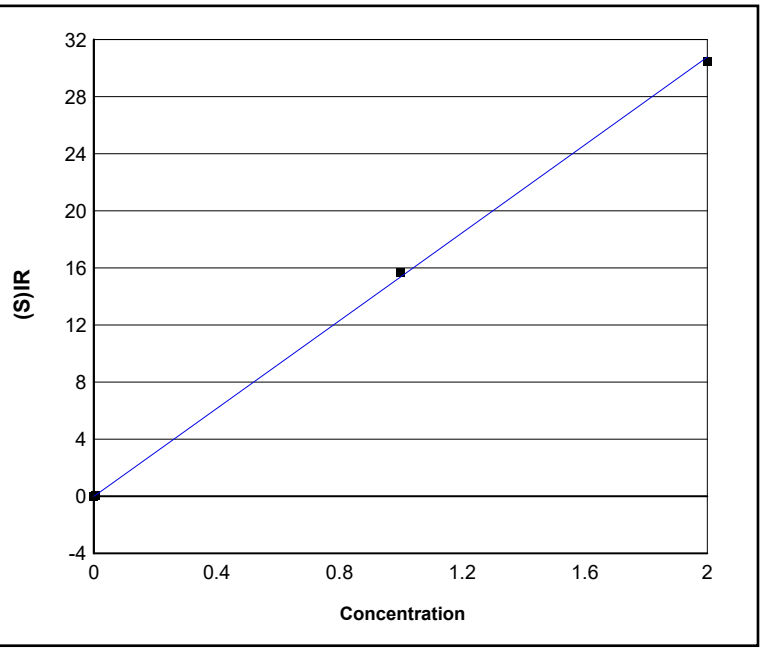
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.000018235	0.000018235	0.00000	0.0024656	0.00058982	1
IC-6825510	0.50000	0.47720	-0.022800	-4.5600	0.038652	0.00018436	1
IC-6824595	10.000	10.160	0.15981	1.5981	0.77293	0.0035086	1
IC-6797476	20.000	19.863	-0.13701	-0.68506	1.5088	0.0027965	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00025258
A1 (Gain):	0.32433
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

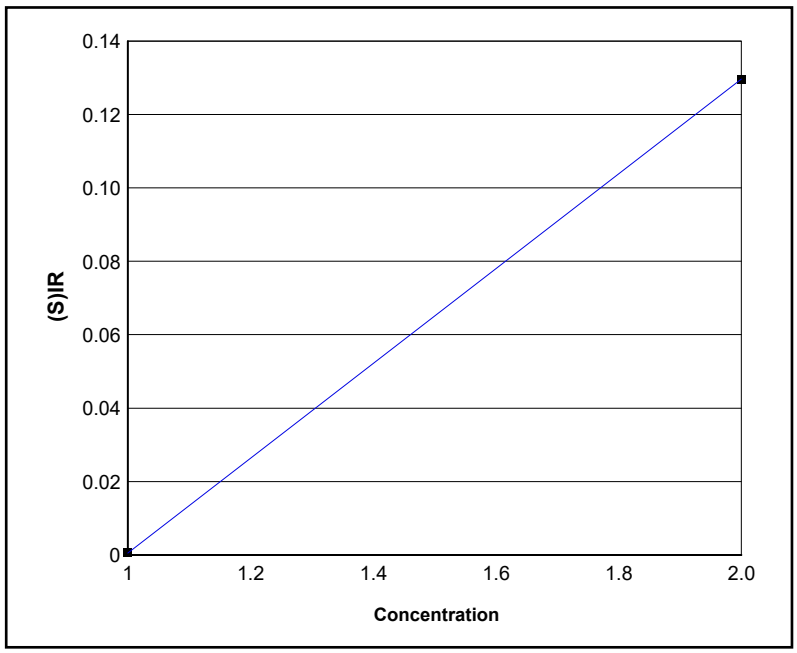
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000012380	0.0000012380	0.00000	0.00025298	0.000098946	1
IC-6825510	0.010000	0.0087898	-0.0012102	-12.102	0.0031034	0.000057823	1
IC-6824595	1.0000	0.99323	-0.0067745	-0.67745	0.32239	0.00093607	1
IC-6797476	2.0000	2.0080	0.0079847	0.39923	0.65151	0.000013454	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	-0.0036005
A1 (Gain):	15.381
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

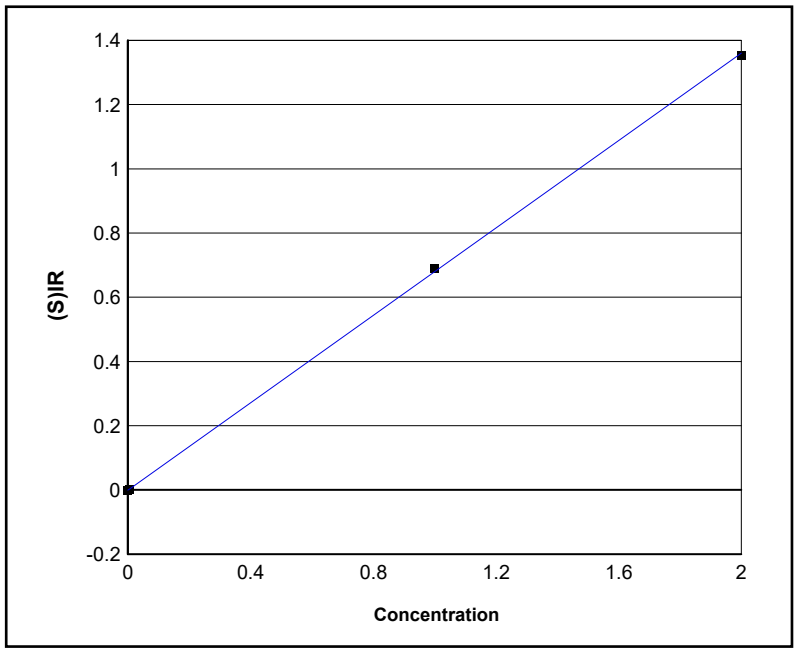
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000001467	0.0000001467	0.00000	-0.0035982	0.0020180	1
IC-6825510	0.0050000	0.0048017	-0.00019825	-3.9650	0.070254	0.0023583	1
IC-6824595	1.0000	1.0204	0.020437	2.0437	15.692	0.0029011	1
IC-6797476	2.0000	1.9798	-0.020239	-1.0120	30.447	0.042758	1



Element Name:	Th
Element Wavelength:	Th 283.730 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-0.1286
A1 (Gain):	0.1291
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

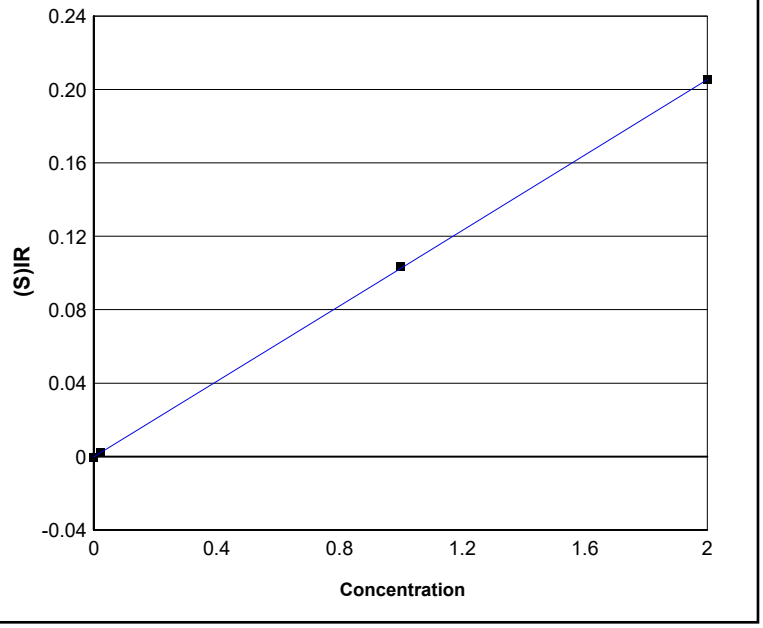
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-6825510	1.000	1.0000	0.0000000000	0.0000000000	0.0005175	0.0002006	1
IC-6797476	2.000	2.000	0.0000	0.0000	0.1296	0.0006807	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00084811
A1 (Gain):	0.68067
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

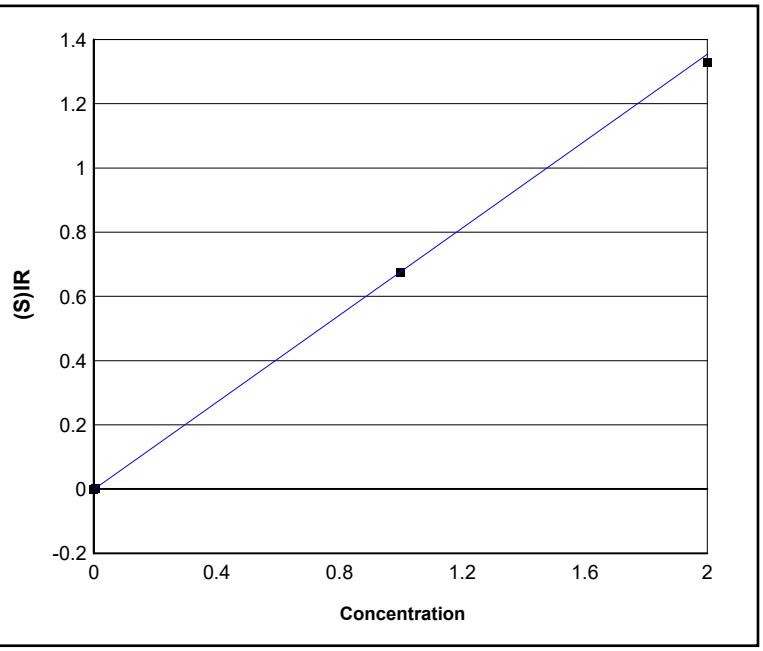
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000004236	0.0000004236	0.00000	-0.00084782	0.0000068983	1
IC-6825510	0.0050000	0.0045427	-0.00045733	-9.1465	0.0022488	0.000050225	1
IC-6824595	1.0000	1.0130	0.013021	1.3021	0.68916	0.0013222	1
IC-6797476	2.0000	1.9874	-0.012564	-0.62818	1.3529	0.0033852	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00023331
A1 (Gain):	0.10279
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

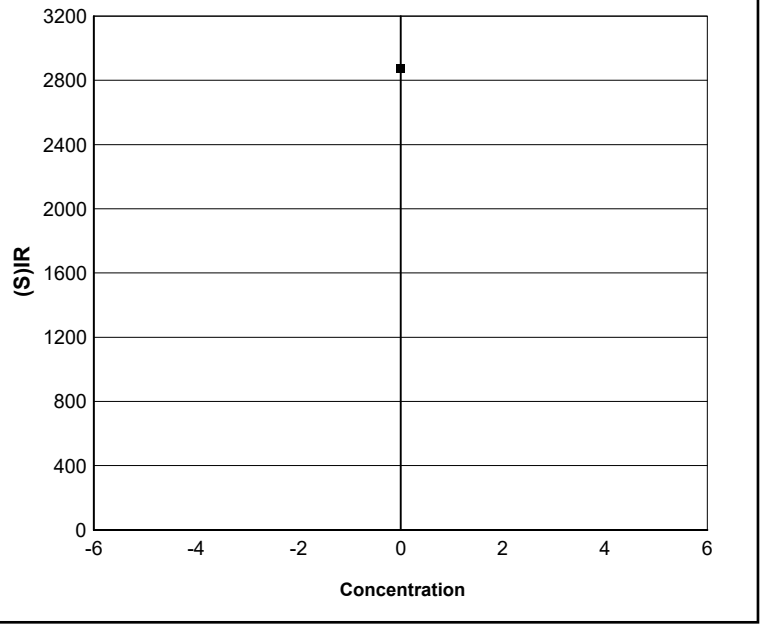
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000005878	-0.0000005878	0.00000	-0.00023337	0.000068063	1
IC-6825510	0.020000	0.020539	0.00053919	2.6960	0.0018797	0.00015536	1
IC-6824595	1.0000	1.0054	0.0054005	0.54005	0.10356	0.00041001	1
IC-6797476	2.0000	1.9941	-0.0059378	-0.29689	0.20564	0.00024960	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00049747
A1 (Gain):	0.67736
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

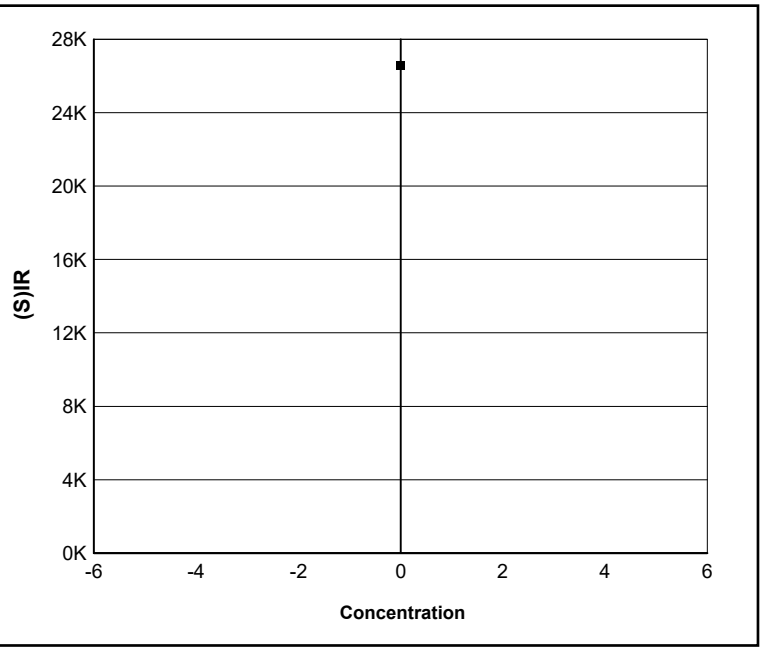
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000004104	0.0000004104	0.00000	-0.00049720	0.00030842	1
IC-6825510	0.0050000	0.0045627	-0.00043732	-8.7465	0.0024979	0.0000043190	1
IC-6824595	1.0000	1.0103	0.010346	1.0346	0.67491	0.0023628	1
IC-6797476	2.0000	1.9901	-0.0099152	-0.49576	1.3296	0.0022718	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:38:20AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

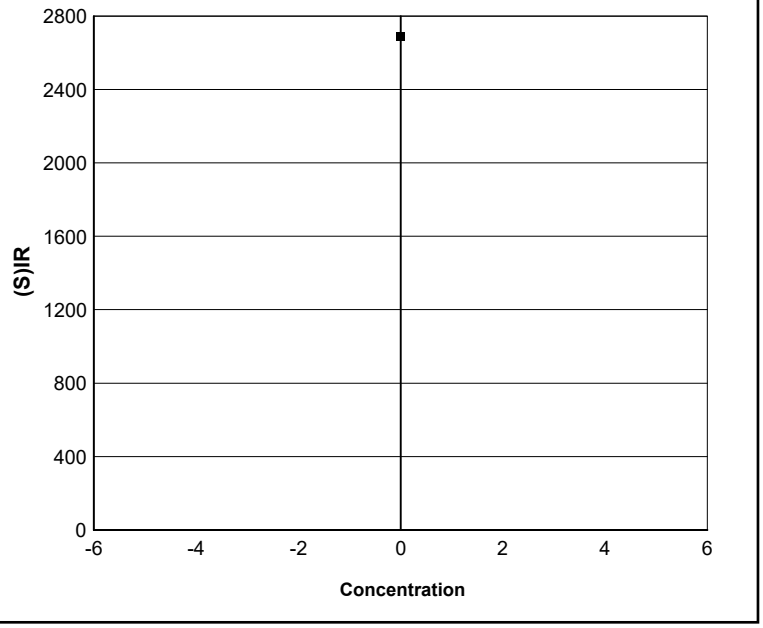
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.0000			0.0000	2,873	2.722	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:38:20AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

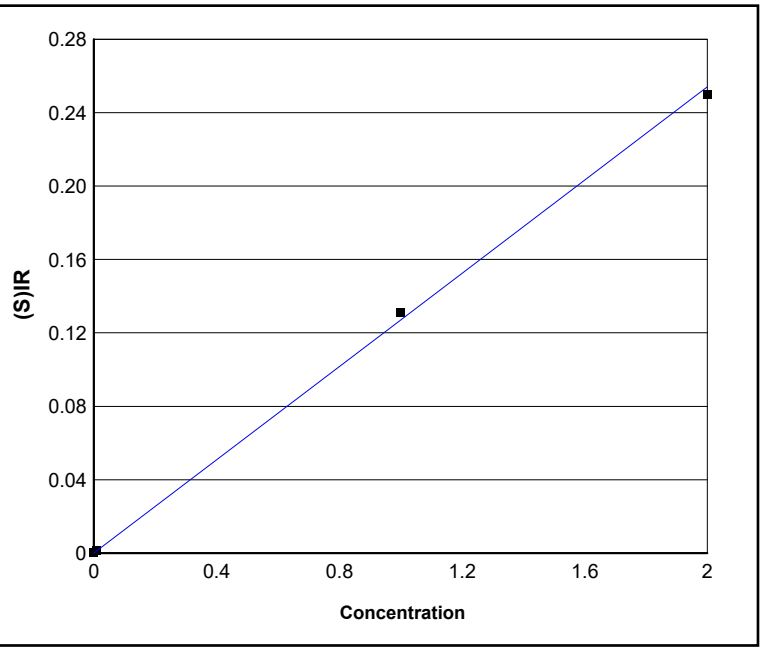
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.0000			0.0000	26,570	27.61	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:38:20AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

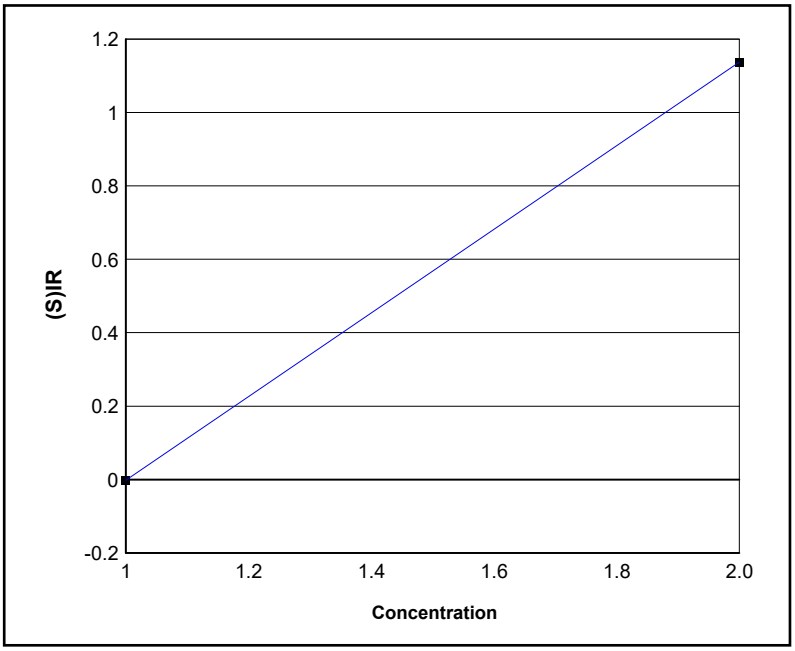
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.0000			0.0000	2,692	0.1462	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	0.99973
A0 (Offset):	0.000049328
A1 (Gain):	0.12699
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6825508	0.00000	0.0000000015	-0.0000000015	0.00000	0.000049328	0.0000021684	1
IC-6825510	0.010000	0.0098377	-0.00016234	-1.6234	0.0012980	0.000038760	1
IC-6824595	1.0000	1.0326	0.032607	3.2607	0.13103	0.000085988	1
IC-6797476	2.0000	1.9676	-0.032445	-1.6222	0.24961	0.00098843	1



Element Name:	Zr
Element Wavelength:	Zr 343.823 nm
Concentration Units:	ppm
Date of Calibration:	12/27/2021 11:49:12AM
Date of Fit:	12/27/2021 12:43:33PM
Type of Fit:	Linear
Correlation:	1.000
A0 (Offset):	-1.140
A1 (Gain):	1.139
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-6825510	1.000	1.000	0.0000000000	0.0000000000	-0.001760	0.0001748	1
IC-6797476	2.000	2.000	0.0000000000	0.0000000000	1.137	0.005778	1

Sample Name: ICIS-6825508 Acquired: 12/27/2021 11:34:42 Type: Cal
Method: ICAP2 New stds DEC2019(v794) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00086**	**.00116**	**-.00042**	**.00904**	**.02985**
Stddev	.00021	.00039	.00030	.00010	.00213
%RSD	24.494	34.007	70.951	1.1495	7.1219
#1	-.00071	.00143	-.00021	.00897	.03135
#2	-.00101	.00088	-.00064	.00911	.02834

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00379**	**-.00452**	**.01122**	**-.00062**	**-.0029**
Stddev	.00024	.00081	.00066	.00010	.0007
%RSD	6.4330	17.828	5.8719	15.430	24.42
#1	.00396	-.00509	.01169	-.00069	-.0024
#2	.00362	-.00395	.01076	-.00055	-.0034

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00044**	**-.00006**	**-.00657**	**.00081**	**-.00180**
Stddev	.00016	.00006	.00036	.00035	.00003
%RSD	35.659	94.783	5.4239	42.539	1.4525
#1	.00033	-.00002	-.00632	.00057	-.00178
#2	.00055	-.00011	-.00682	.00106	-.00182

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02815**	**-.00780**	**-.00005**	**.00092**	**.00011**
Stddev	.00090	.00637	.00017	.00005	.00001
%RSD	3.1972	81.688	347.08	5.5173	10.595
#1	.02751	-.00329	-.00017	.00089	.00010
#2	.02878	-.01230	.00007	.00096	.00011

Sample Name: ICIS-6825508 Acquired: 12/27/2021 11:34:42 Type: Cal
Method: ICAP2 New stds DEC2019(v794) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00028**	**-.01309**	**-.03131**	**-.00024**	**-.00047**
Stddev	.00017	.00009	.00239	.00030	.00015
%RSD	62.543	.69858	7.6469	123.64	32.163
#1	.00040	-.01316	-.02962	-.00003	-.00058
#2	.00015	-.01303	-.03301	-.00045	-.00036

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00350**	**-.00028**	**-.00051**	**.00247**	**.00025**
Stddev	.00012	.00013	.00005	.00059	.00010
%RSD	3.4808	45.127	9.4915	23.922	39.112
#1	-.00358	-.00019	-.00048	.00288	.00018
#2	-.00341	-.00037	-.00054	.00205	.00032

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00360**	**-.00085**	**-.00023**	**-.00050**	**.00005**
Stddev	.00202	.00001	.00007	.00031	.00000
%RSD	56.082	.81366	29.165	62.033	4.3959
#1	-.00503	-.00084	-.00028	-.00028	.00005
#2	-.00217	-.00085	-.00019	-.00072	.00005

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3869.9**	**2873.5**	**26572.**	**2692.0**
Stddev	8.9	2.7	28.	.1
%RSD	.22966	.09471	.10391	.00543
#1	3863.6	2871.5	26591.	2691.9
#2	3876.1	2875.4	26552.	2692.1

Sample Name: IC-6825510 Acquired: 12/27/2021 11:38:27 Type: Cal
Method: ICAP2 New stds DEC2019(v794) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00221**	**.01097**	**.00102**	**.02101**	**.04570**
Stddev	.00010	.00031	.00004	.00029	.00590
%RSD	4.6992	2.8616	3.9546	1.3644	12.909
#1	.00229	.01075	.00105	.02122	.04153
#2	.00214	.01120	.00099	.02081	.04987

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03233**	**.02381**	**.24123**	**.00653**	**.00688**
Stddev	.00006	.00071	.00081	.00041	.00005
%RSD	.19926	2.9991	.33635	6.2020	.71299
#1	.03228	.02432	.24066	.00682	.00691
#2	.03237	.02331	.24181	.00625	.00684

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00180**	**-.00181**	**.01417**	**-.00040**	**.08973**
Stddev	.00010	.00024	.00066	.00011	.00859
%RSD	5.3836	13.302	4.6420	28.316	9.5687
#1	.00173	-.00198	.01370	-.00048	.09581
#2	.00186	-.00164	.01463	-.00032	.08366

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07849**	**.00823**	**.00744**	**.00048**	**.00919**
Stddev	.00804	.00015	.00002	.00000	.00005
%RSD	10.244	1.8363	.27254	.49644	.49655
#1	.07280	.00812	.00743	.00048	.00922
#2	.08417	.00833	.00746	.00048	.00916

Sample Name: IC-6825510 Acquired: 12/27/2021 11:38:27 Type: Cal
Method: ICAP2 New stds DEC2019(v794) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.37065**	**-.02760**	**.00503**	**-.0033**	**.00245**
Stddev	.00237	.00318	.00006	.0003	.00004
%RSD	.63946	11.515	1.2461	9.130	1.5331
#1	.37233	-.02535	.00499	-.0035	.00247
#2	.36898	-.02985	.00508	-.0031	.00242

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00599**	**.00292**	**.00132**	**.03865**	**.00310**
Stddev	.00001	.00004	.00044	.00018	.00006
%RSD	.16370	1.2838	32.866	.47696	1.8632
#1	.00598	.00290	.00102	.03878	.00314
#2	.00599	.00295	.00163	.03852	.00306

Elem	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Line	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}	292.402 {115}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07025**	**.0005**	**.00225**	**.00188**	**.00250**
Stddev	.00236	.0002	.00005	.00016	.00000
%RSD	3.3568	38.75	2.2334	8.2648	.17291
#1	.06859	.0004	.00221	.00177	.00250
#2	.07192	.0007	.00228	.00199	.00249

Elem	Zn2062	Zr3438
Line	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S
Avg	**.00130**	**-.0018**
Stddev	.00004	.0002
%RSD	2.9861	9.934
#1	.00127	-.0019
#2	.00133	-.0016

Sample Name: IC-6825510 Acquired: 12/27/2021 11:38:27 Type: Cal
Method: ICAP2 New stds DEC2019(v794) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3850.7**	**2862.1**	**26574.**	**2672.6**
Stddev	1.3	4.2	15.	35.8
%RSD	.03459	.14663	.05743	1.3404
#1	3849.8	2859.2	26585.	2698.0
#2	3851.7	2865.1	26563.	2647.3

Sample Name: IC-6824595 Acquired: 12/27/2021 11:42:14 Type: Cal
Method: ICAP2 New stds DEC2019(v794) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.49835**	**2.4726**	**.12350**	**.70199**	**9.5294**
Stddev	.00024	.0034	.00005	.00238	.0030
%RSD	.04749	.13826	.03805	.33916	.03122
#1	.49851	2.4702	.12353	.70368	9.5315
#2	.49818	2.4750	.12347	.70031	9.5273

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14.586**	**13.567**	**23.769**	**3.3409**	**.0505**
Stddev	.033	.003	.028	.0135	.0010
%RSD	.22450	.02266	.11670	.40517	1.893
#1	14.563	13.565	23.749	3.3504	.0512
#2	14.609	13.569	23.788	3.3313	.0499

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.7487**	**.44989**	**.45900**	**13.462**	**.95576**
Stddev	.0004	.00098	.00090	.004	.00176
%RSD	.02591	.21723	.19559	.02734	.18404
#1	1.7490	.45058	.45963	13.460	.95700
#2	1.7484	.44920	.45836	13.465	.95452

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.4676**	**2.8663**	**2.2395**	**2.2676**	**.14789**
Stddev	.0081	.0039	.0020	.0017	.00051
%RSD	.12530	.13571	.08981	.07281	.34601
#1	6.4619	2.8635	2.2409	2.2664	.14753
#2	6.4733	2.8690	2.2381	2.2688	.14825

Sample Name: IC-6824595 Acquired: 12/27/2021 11:42:14 Type: Cal
Method: ICAP2 New stds DEC2019(v794) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.93071**	**20.926**	**.77155**	**.59524**	**.29518**
Stddev	.00618	.016	.00397	.00073	.00016
%RSD	.66399	.07722	.51509	.12238	.05442
#1	.93508	20.914	.76874	.59575	.29507
#2	.92634	20.937	.77436	.59472	.29529

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3454**	**.16015**	**.08054**	**.77293**	**.32239**
Stddev	.0006	.00027	.00030	.00351	.00094
%RSD	.04482	.16851	.37676	.45394	.29036
#1	1.3458	.15996	.08076	.77045	.32305
#2	1.3450	.16034	.08033	.77541	.32173

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**15.692**	**.68916**	**.10356**	**.67491**	**.13103**
Stddev	.003	.00132	.00041	.00236	.00009
%RSD	.01849	.19185	.39590	.35010	.06562
#1	15.694	.69010	.10385	.67658	.13109
#2	15.690	.68823	.10327	.67324	.13097

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3364.4**	**2793.0**	**25056.**	**2667.8**
Stddev	20.4	21.6	41.	1.9
%RSD	.60709	.77296	.16206	.07178
#1	3349.9	2777.7	25084.	2666.4
#2	3378.8	2808.2	25027.	2669.1

Sample Name: IC-6797476 Acquired: 12/27/2021 11:45:47 Type: Cal
Method: ICAP2 New stds DEC2019(v794) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.95961**	**4.7975**	**.24354**	**1.3082**	**18.663**
Stddev	.00003	.0061	.00013	.0021	.022
%RSD	.00273	.12682	.05166	.15873	.11927
#1	.95963	4.8018	.24363	1.3067	18.647
#2	.95959	4.7932	.24345	1.3097	18.679

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**28.012**	**26.451**	**46.384**	**6.5081**	**.0960**
Stddev	.201	.035	.005	.0068	.0002
%RSD	.71818	.13343	.01020	.10479	.2101
#1	28.154	26.426	46.388	6.5033	.0959
#2	27.869	26.476	46.381	6.5129	.0962

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.4995**	**.88320**	**.90617**	**26.057**	**1.8475**
Stddev	.0061	.00283	.00009	.017	.0095
%RSD	.17416	.31994	.00996	.06690	.51140
#1	3.5038	.88520	.90623	26.045	1.8408
#2	3.4952	.88120	.90610	26.069	1.8542

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.658**	**5.5592**	**4.4495**	**4.4109**	**.29955**
Stddev	.025	.0096	.0113	.0135	.00140
%RSD	.19748	.17281	.25471	.30689	.46655
#1	12.640	5.5659	4.4575	4.4204	.30054
#2	12.676	5.5524	4.4415	4.4013	.29856

Sample Name: IC-6797476 Acquired: 12/27/2021 11:45:47 Type: Cal
Method: ICAP2 New stds DEC2019(v794) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	P_2136
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	213.618 {458}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.7983**	**40.687**	**1.5397**	**1.1842**	**4.804**
Stddev	.0032	.122	.0048	.0017	.009
%RSD	.17834	.29931	.31286	.14177	.1897
#1	1.7960	40.773	1.5363	1.1854	4.797
#2	1.8005	40.601	1.5431	1.1830	4.810

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.58969**	**2.6604**	**.31215**	**.16086**	**1.5088**
Stddev	.00057	.0049	.00107	.00004	.0028
%RSD	.09644	.18523	.34190	.02715	.18535
#1	.59009	2.6569	.31140	.16083	1.5068
#2	.58928	2.6638	.31291	.16089	1.5107

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Line	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}	190.856 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.65151**	**30.447**	**.1296**	**1.3529**	**.20564**
Stddev	.00001	.043	.0007	.0034	.00025
%RSD	.00207	.14044	.5251	.25022	.12138
#1	.65151	30.477	.1301	1.3553	.20546
#2	.65150	30.417	.1292	1.3505	.20582

Elem	V_2924	Zn2062	Zr3438
Line	292.402 {115}	206.200 {163}	343.823 { 98}
Units	Cts/S	Cts/S	Cts/S
Avg	**1.3296**	**.24961**	**1.137**
Stddev	.0023	.00099	.006
%RSD	.17087	.39599	.5082
#1	1.3312	.25031	1.141
#2	1.3280	.24891	1.133

Sample Name: IC-6797476 Acquired: 12/27/2021 11:45:47 Type: Cal
Method: ICAP2 New stds DEC2019(v794) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3192.1**	**2780.3**	**24735.**	**2744.2**
Stddev	.4	4.4	148.	.7
%RSD	.01390	.15967	.59820	.02574
#1	3192.4	2783.4	24631.	2743.7
#2	3191.8	2777.1	24840.	2744.7

Sample Name: ICV-6817392 Acquired: 12/27/2021 11:49:20 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.72680**	**37.889**	**.73008**	**.75109**	**.73597**
Stddev	.00094	.025	.00368	.00055	.00347
%RSD	.12949	.06567	.50444	.07256	.47189
#1	.72614	37.871	.72748	.75070	.73352
#2	.72747	37.906	.73269	.75147	.73843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75599**	**37.755**	**.72808**	**.1308**	W **.70567**
Stddev	.00183	.072	.00263	.0322	.00014
%RSD	.24242	.19030	.36070	24.63	.02035
#1	.75470	37.704	.72622	.1536	.70577
#2	.75729	37.806	.72993	.1080	.70557
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Warn
Value					.75000
Range					-5.0000%

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.74638**	W **.71122**	**37.664**	**37.437**	**.73881**
Stddev	.00238	.00041	.131	.154	.00316
%RSD	.31926	.05793	.34725	.41074	.42771
#1	.74470	.71092	37.572	37.328	.73657
#2	.74807	.71151	37.757	37.545	.74104
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.75000			
Range		-5.0000%			

Sample Name: ICV-6817392 Acquired: 12/27/2021 11:49:20 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.454**	**.72513**	**.74961**	**36.872**	**.71751**
Stddev	.072	.00240	.00105	.111	.00129
%RSD	.19695	.33143	.14055	.30076	.17959
#1	36.403	.72344	.74887	36.793	.71660
#2	36.505	.72683	.75036	36.950	.71842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.35**	**.71954**	**18.465**	**.72651**	**.73558**
Stddev	.02	.00020	.036	.00241	.00127
%RSD	.0523	.02745	.19485	.33150	.17201
#1	34.34	.71968	18.440	.72821	.73647
#2	34.36	.71940	18.491	.72480	.73468
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.5062**	**.71915**	**.72736**	**1.033**	**.73680**
Stddev	.0354	.00039	.00281	.007	.00264
%RSD	.47213	.05411	.38678	.7174	.35828
#1	7.4812	.71888	.72537	1.039	.73494
#2	7.5313	.71943	.72935	1.028	.73867
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: ICV-6817392 Acquired: 12/27/2021 11:49:20 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.74208**	**.73906**	**.74445**	**1.008**
Stddev	.00112	.00085	.00337	.002
%RSD	.15076	.11544	.45249	.1505
#1	.74287	.73845	.74207	1.009
#2	.74129	.73966	.74683	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3421.0**	**2803.4**	**25460.**	**2674.0**
Stddev	2.1	5.8	38.	10.3
%RSD	.06053	.20769	.14912	.38483
#1	3422.4	2807.5	25433.	2681.2
#2	3419.5	2799.2	25487.	2666.7

Sample Name: ICB-6825508 Acquired: 12/27/2021 11:52:55 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.01504**	**-.00092**	**-.00195**	**.00007**
Stddev	.00097	.01649	.00252	.00015	.00003
%RSD	234.96	109.61	273.52	7.8512	41.856
#1	-.00027	.02670	-.00271	-.00206	.00009
#2	.00110	.00338	.00086	-.00184	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00451**	**.00003**	**.0353**	**.00018**
Stddev	.00008	.00212	.00023	.0074	.00006
%RSD	157.67	46.986	681.98	21.03	30.217
#1	.00011	.00301	.00020	.0406	.00022
#2	-.00001	.00601	-.00013	.0301	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00096**	**.00135**	**.04347**	**.00404**
Stddev	.00017	.00077	.00309	.00311	.00006
%RSD	41.550	80.353	228.72	7.1468	1.4337
#1	.00029	.00042	.00353	.04566	.00408
#2	.00053	.00151	-.00083	.04127	.00400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-6825508 Acquired: 12/27/2021 11:52:55 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00220**	**.00000**	**.00170**	**-.00091**	**-.00006**
Stddev	.00167	.00002	.00036	.00706	.00027
%RSD	75.795	11082.	20.980	778.66	455.46
#1	-.00337	-.00002	.00145	.00408	.00013
#2	-.00102	.00002	.00195	-.00590	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00055**	**.00318**	**.00066**	**.00248**
Stddev	.00	.00072	.00093	.00158	.00051
%RSD	.0026	129.32	29.121	237.49	20.467
#1	25.02	-.00005	.00384	-.00045	.00284
#2	25.02	-.00106	.00253	.00178	.00212
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00343**	**-.00025**	**.00013**	**.9950**	**-.00016**
Stddev	.00072	.00000	.00024	.0001	.00003
%RSD	20.851	1.9705	178.75	.0073	19.390
#1	.00394	-.00026	.00030	.9950	-.00014
#2	.00293	-.00025	-.00004	.9951	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-6825508 Acquired: 12/27/2021 11:52:55 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00174**	**.00016**	**-.00009**	**1.000**
Stddev	.00077	.00034	.00056	.001
%RSD	44.040	215.09	645.19	.0835
#1	.00228	-.00008	.00031	1.001
#2	.00120	.00040	-.00048	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3856.9**	**2850.2**	**26443.**	**2661.1**
Stddev	6.0	4.9	82.	19.3
%RSD	.15542	.17111	.30890	.72444
#1	3852.7	2846.7	26385.	2647.5
#2	3861.2	2853.6	26501.	2674.8

Sample Name: ICVL-6825510 Acquired: 12/27/2021 11:56:42 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00576**	**.19901**	**.01199**	**.01573**	**.00201**
Stddev	.00022	.00161	.00024	.00086	.00002
%RSD	3.7885	.80768	1.9992	5.4709	.99513
#1	.00561	.19787	.01216	.01634	.00200
#2	.00592	.20014	.01182	.01512	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.48860**	**.00203**	**.0254**	**.00377**
Stddev	.00001	.00047	.00003	.1002	.00006
%RSD	.63849	.09659	1.5162	393.9	1.6459
#1	.00202	.48893	.00205	-.0454	.00382
#2	.00204	.48826	.00200	.0963	.00373
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00395**	**.01161**	**.05021**	**.53416**	**.02991**
Stddev	.00007	.00073	.00318	.01742	.00050
%RSD	1.8042	6.2487	6.3432	3.2606	1.6838
#1	.00400	.01110	.04796	.52185	.03026
#2	.00390	.01212	.05246	.54648	.02955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-6825510 Acquired: 12/27/2021 11:56:42 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18876**	**.00290**	**.01030**	**.96058**	**.00883**
Stddev	.00319	.00001	.00001	.00954	.00007
%RSD	1.6913	.31451	.14135	.99337	.82798
#1	.18650	.00289	.01031	.96733	.00878
#2	.19101	.00291	.01029	.95383	.00889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00994**	**.18036**	**.02171**	**.02267**
Stddev	.00	.00137	.00029	.00114	.00083
%RSD	.0084	13.779	.16072	5.2444	3.6729
#1	25.00	.01090	.18056	.02091	.02208
#2	25.00	.00897	.18015	.02252	.02326
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47289**	**.00860**	**.00501**	F **.9952**	**.00444**
Stddev	.00920	.00027	.00006	.0058	.00018
%RSD	1.9449	3.0968	1.2270	.5871	3.9678
#1	.46638	.00841	.00497	.9993	.00432
#2	.47939	.00879	.00505	.9910	.00457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: ICVL-6825510 Acquired: 12/27/2021 11:56:42 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01988**	**.00455**	**.00945**	F **1.001**
Stddev	.00057	.00019	.00025	.000
%RSD	2.8825	4.2698	2.6726	.0292
#1	.01948	.00469	.00927	1.001
#2	.02029	.00441	.00963	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3889.9**	**2891.3**	**26766.**	**2728.4**
Stddev	8.8	8.7	84.	13.8
%RSD	.22724	.29974	.31335	.50460
#1	3883.7	2885.2	26707.	2738.1
#2	3896.2	2897.4	26826.	2718.7

Sample Name: ICSA-6812501 Acquired: 12/27/2021 12:00:28 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00150**	**527.01**	**-.01347**	**-.00575**	**.01401**
Stddev	.00058	1.08	.00002	.00017	.00001
%RSD	38.485	.20422	.13665	2.9625	.10475
#1	.00109	527.77	-.01348	-.00587	.01402
#2	.00191	526.25	-.01346	-.00563	.01400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**499.75**	**.00131**	**.0243**	**.00025**
Stddev	.00005	.24	.00009	.0235	.00010
%RSD	267.79	.04878	7.1128	96.94	40.454
#1	-.00006	499.58	.00124	.0409	.00018
#2	.00002	499.93	.00137	.0076	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00152**	**.00239**	**199.78**	**.25230**	**.01918**
Stddev	.00019	.00015	.21	.01877	.00047
%RSD	12.684	6.2614	.10689	7.4400	2.4584
#1	.00166	.00228	199.63	.23902	.01884
#2	.00138	.00249	199.93	.26557	.01951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-6812501 Acquired: 12/27/2021 12:00:28 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**543.59**	**-.00041**	**-.00101**	**.08065**	**-.00006**
Stddev	1.82	.00008	.00062	.00114	.00016
%RSD	.33492	20.542	61.743	1.4159	282.40
#1	544.88	-.00035	-.00144	.08146	-.00017
#2	542.31	-.00047	-.00057	.07984	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.87**	**-.00413**	**-.13265**	**-.00891**	**.01148**
Stddev	.00	.00255	.00361	.00260	.00425
%RSD	.0113	61.754	2.7233	29.200	37.030
#1	24.87	-.00594	-.13520	-.00707	.01449
#2	24.87	-.00233	-.13009	-.01075	.00847
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00881**	**.00024**	**.01388**	**1.092**	**.00274**
Stddev	.00743	.00021	.00010	.010	.00030
%RSD	84.355	86.999	.68807	.9274	11.073
#1	.01407	.00039	.01394	1.100	.00295
#2	.00356	.00009	.01381	1.085	.00252
Check ?	None	Chk Pass	None	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-6812501 Acquired: 12/27/2021 12:00:28 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**-.00043**	**-.00178**	**.00265**	**1.007**
Stddev	.00019	.00003	.00071	.001
%RSD	43.718	1.9076	26.941	.0531
#1	-.00030	-.00176	.00214	1.008
#2	-.00056	-.00181	.00315	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2862.8**	**2546.5**	**22810.**	**2693.0**
Stddev	3.2	4.4	21.	4.7
%RSD	.11095	.17363	.09166	.17405
#1	2865.0	2549.6	22825.	2696.3
#2	2860.6	2543.3	22795.	2689.7

Sample Name: ICSAB-6827104 Acquired: 12/27/2021 12:04:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51690**	**490.90**	**.48579**	**4.7305**	**.50646**
Stddev	.00330	1.15	.00091	.0063	.00081
%RSD	.63887	.23498	.18810	.13352	.15989
#1	.51457	490.08	.48515	4.7261	.50589
#2	.51924	491.71	.48644	4.7350	.50703
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24692**	**465.08**	**.50627**	**-.0111**	**.47867**
Stddev	.00036	.90	.00085	.0819	.00088
%RSD	.14665	.19432	.16703	739.2	.18338
#1	.24718	465.72	.50567	-.0690	.47929
#2	.24666	464.44	.50687	.0469	.47805
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48759**	**.49601**	**183.92**	**5.1404**	**.02077**
Stddev	.00035	.00252	.03	.1201	.00346
%RSD	.07264	.50718	.01523	2.3359	16.664
#1	.48784	.49423	183.90	5.0555	.02321
#2	.48734	.49779	183.94	5.2253	.01832
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-6827104 Acquired: 12/27/2021 12:04:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**494.32**	**.47516**	**.48255**	**4.9498**	**.47806**
Stddev	1.19	.00053	.00004	.0102	.00115
%RSD	.24079	.11115	.00841	.20670	.24094
#1	495.17	.47479	.48252	4.9570	.47887
#2	493.48	.47553	.48258	4.9426	.47724
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.82**	**.48246**	**-.13763**	**.48870**	**.47614**
Stddev	.00	.00155	.00260	.00116	.00534
%RSD	.0136	.32179	1.8861	.23764	1.1212
#1	26.82	.48355	-.13947	.48952	.47991
#2	26.83	.48136	-.13580	.48788	.47236
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9808**	**.48490**	**.48587**	**1.098**	**.49557**
Stddev	.0101	.00069	.00112	.005	.00056
%RSD	.20228	.14183	.22988	.4285	.11306
#1	4.9737	.48538	.48508	1.101	.49597
#2	4.9879	.48441	.48666	1.094	.49517
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ICSAB-6827104 Acquired: 12/27/2021 12:04:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.48180**	**.48989**	**.46432**	**1.005**
Stddev	.00295	.00161	.00039	.003
%RSD	.61277	.32938	.08376	.2698
#1	.47972	.48875	.46460	1.007
#2	.48389	.49103	.46405	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2861.1**	**2523.9**	**22606.**	**2602.6**
Stddev	.6	2.9	46.	9.2
%RSD	.02233	.11481	.20478	.35185
#1	2860.7	2525.9	22573.	2609.1
#2	2861.6	2521.8	22638.	2596.2

Sample Name: ICEX1 Acquired: 12/27/2021 12:08:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00145**	**-.02716**	**4.9331**	**-.00141**	**.00000**
Stddev	.00013	.00431	.0076	.00065	.00003
%RSD	9.2472	15.854	.15477	45.947	630.02
#1	.00135	-.03020	4.9385	-.00095	.00003
#2	.00154	-.02411	4.9277	-.00187	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00294**	**.01578**	**-.00016**	**.0452**	**.00032**
Stddev	.00003	.00094	.00024	.0413	.00009
%RSD	.86340	5.9575	147.88	91.48	27.146
#1	.00296	.01645	.00001	.0160	.00038
#2	.00292	.01512	-.00033	.0744	.00026
Check ?	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
High Limit	.00200				
Low Limit	-.00200				

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00129**	**26.166**	**.00790**	**.00774**	**.00201**
Stddev	.00070	.046	.00250	.04833	.00235
%RSD	53.915	.17588	31.645	624.43	116.58
#1	.00080	26.133	.00613	-.02644	.00367
#2	.00179	26.198	.00967	.04192	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 12/27/2021 12:08:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00492**	**-.00019**	**-.00070**	**-.02332**	**.00002**
Stddev	.00061	.00001	.00012	.00544	.00010
%RSD	12.332	3.2348	17.892	23.323	586.32
#1	.00449	-.00018	-.00079	-.01947	.00009
#2	.00535	-.00019	-.00061	-.02716	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.00619**	**.00135**	**.00099**	**.00065**
Stddev	-----	.00014	.00058	.00028	.00010
%RSD	-----	2.2889	43.212	28.735	14.537
#1	^ -----	.00609	.00176	.00079	.00059
#2	^ -----	.00629	.00094	.00119	.00072
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05147**	**-.00019**	**.00012**	**.9895**	**.00025**
Stddev	.01632	.00052	.00025	.0062	.00011
%RSD	31.706	270.82	217.54	.6229	44.199
#1	.03993	.00018	-.00006	.9851	.00017
#2	.06300	-.00056	.00029	.9938	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 12/27/2021 12:08:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00492**	**4.9853**	**.00005**	**.9988**
Stddev	.00125	.0038	.00023	.0001
%RSD	25.400	.07551	431.98	.0149
#1	-.00580	4.9826	.00021	.9987
#2	-.00403	4.9879	-.00011	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3854.1**	**2847.6**	**26707.**	**2697.4**
Stddev	3.2	2.2	19.	11.7
%RSD	.08180	.07665	.07181	.43432
#1	3856.3	2849.2	26720.	2705.7
#2	3851.8	2846.1	26693.	2689.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.592%	99.101%	100.51%	100.20%
Range				

Sample Name: ICEX2 Acquired: 12/27/2021 12:11:50 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.06157**	**-.00165**	**-.00050**	**.00010**
Stddev	.00005	.00146	.00131	.00014	.00001
%RSD	2.9186	2.3735	78.986	27.561	7.3883
#1	.00177	.06261	-.00258	-.00059	.00009
#2	.00170	.06054	-.00073	-.00040	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.01219**	**.00080**	**.0503**	**.00004**
Stddev	.00003	.00052	.00011	.0067	.00027
%RSD	109.39	4.2446	13.268	13.27	701.40
#1	-.00001	.01182	.00088	.0550	-.00015
#2	-.00004	.01255	.00073	.0456	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**-.00001**	**.00285**	**-.02978**	**10.263**
Stddev	.00040	.00030	.00228	.01590	.019
%RSD	71.335	3583.4	79.949	53.397	.18666
#1	.00085	.00020	.00446	-.04102	10.250
#2	.00028	-.00022	.00124	-.01853	10.277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 12/27/2021 12:11:50 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00221**	**.00017**	**.00109**	**.00017**	**.00332**
Stddev	.00042	.00010	.00003	.00810	.00010
%RSD	19.045	58.132	2.8523	4661.5	3.0647
#1	.00191	.00023	.00107	-.00556	.00339
#2	.00251	.00010	.00111	.00590	.00325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00810**	**-.00521**	**.00796**	**.00337**
Stddev	.00	.00042	.00180	.00159	.00235
%RSD	.0006	5.2088	34.489	19.952	69.643
#1	25.02	.00840	-.00648	.00684	.00171
#2	25.02	.00780	-.00394	.00909	.00503
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.641**	**-.00037**	**.00023**	**.9972**	**20.643**
Stddev	.162	.00002	.00004	.0012	.098
%RSD	.32542	4.9951	16.187	.1189	.47508
#1	49.527	-.00039	.00026	.9964	20.712
#2	49.755	-.00036	.00021	.9981	20.574
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 12/27/2021 12:11:50 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**20.672**	**-.00102**	**.00103**	**1.007**
Stddev	.023	.00010	.00006	.001
%RSD	.11033	9.4371	5.9745	.0709
#1	20.656	-.00109	.00107	1.008
#2	20.688	-.00095	.00098	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3652.2**	**2853.8**	**26135.**	**2734.6**
Stddev	8.0	11.6	92.	8.9
%RSD	.21974	.40641	.35276	.32723
#1	3646.6	2845.6	26070.	2728.3
#2	3657.9	2862.0	26200.	2740.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.376%	99.316%	98.357%	101.58%
Range				

Sample Name: ICEX3 Acquired: 12/27/2021 12:15:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.02707**	**.00100**	**-.00385**	**-.00001**
Stddev	.00105	.01356	.00011	.00008	.00003
%RSD	34628.	50.100	11.001	2.1769	493.87
#1	.00074	.03667	.00108	-.00391	.00002
#2	-.00075	.01748	.00092	-.00379	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.01173**	**.00023**	**-.5366**	**.00016**
Stddev	.00004	.00031	.00014	.0728	.00006
%RSD	332.95	2.6150	60.819	13.56	40.499
#1	-.00002	.01151	.00013	-.4851	.00011
#2	.00004	.01195	.00033	-.5880	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00178**	**-.02257**	**-.00641**	**.00165**
Stddev	.00005	.00029	.00142	.05334	.00284
%RSD	112.48	16.185	6.2736	832.67	172.33
#1	.00008	.00198	-.02357	-.04412	-.00036
#2	.00001	.00158	-.02157	.03131	.00366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 12/27/2021 12:15:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03246**	**50.064**	**-.00312**	**-.00607**	**.00133**
Stddev	.00994	.134	.00008	.00882	.00011
%RSD	30.625	.26795	2.5144	145.35	8.6515
#1	-.02543	50.159	-.00306	-.01231	.00124
#2	-.03948	49.969	-.00318	.00017	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00613**	**97.535**	**-.00335**	**.01059**
Stddev	.00	.00060	.084	.00121	.00235
%RSD	.0004	9.7363	.08572	36.181	22.190
#1	25.02	.00655	97.476	-.00249	.00892
#2	25.02	.00571	97.594	-.00421	.01225
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02792**	**-.00053**	**.00006**	**.9941**	**.00253**
Stddev	.01464	.00048	.00015	.0014	.00003
%RSD	52.456	89.280	233.52	.1362	1.0650
#1	.01756	-.00020	-.00004	.9931	.00255
#2	.03827	-.00087	.00017	.9950	.00251
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 12/27/2021 12:15:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00194**	**.00175**	**.00037**	**.9601**
Stddev	.00125	.00005	.00012	.0011
%RSD	64.490	2.7915	33.606	.1180
#1	.00283	.00178	.00028	.9609
#2	.00106	.00171	.00046	.9593
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3832.1**	**2893.9**	**26628.**	**2734.7**
Stddev	5.4	7.3	78.	.4
%RSD	.13973	.25379	.29461	.01319
#1	3835.9	2899.1	26573.	2734.5
#2	3828.3	2888.8	26684.	2735.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.023%	100.71%	100.21%	101.59%
Range				

Sample Name: ICEX4 Acquired: 12/27/2021 12:19:30 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.01268**	**-.01114**	**-.00613**	**.00008**
Stddev	.00002	.01773	.00055	.00056	.00001
%RSD	27.036	139.79	4.9581	9.1394	15.900
#1	.00007	-.02522	-.01075	-.00573	.00009
#2	.00010	-.00015	-.01153	-.00653	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.01111**	**.00045**	**.0862**	**19.202**
Stddev	.00003	.00438	.00004	.0224	.026
%RSD	145.78	39.464	8.6864	26.04	.13661
#1	-.00000	.00801	.00048	.0703	19.221
#2	.00004	.01421	.00042	.1020	19.184
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.497**	**.00551**	**.00438**	**-.08541**	**.00132**
Stddev	.034	.00012	.00087	.01899	.00224
%RSD	.32102	2.1317	19.890	22.232	170.51
#1	10.473	.00559	.00500	-.07198	-.00027
#2	10.521	.00542	.00376	-.09883	.00290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 12/27/2021 12:19:30 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00389**	**.00079**	**.00025**	**-.02790**	**9.7034**
Stddev	.00558	.00003	.00006	.00711	.0113
%RSD	143.61	3.6057	26.172	25.484	.11654
#1	.00006	.00081	.00020	-.03292	9.7114
#2	-.00783	.00077	.00029	-.02287	9.6954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**-.00615**	**.04948**	**-.01531**	**-.00033**
Stddev	.00	.00049	.00064	.00322	.00044
%RSD	.0014	7.8864	1.2847	21.055	134.13
#1	25.01	-.00581	.04993	-.01303	-.00002
#2	25.01	-.00649	.04903	-.01759	-.00063
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.13121**	**-.00046**	**.00019**	**.9998**	**.00202**
Stddev	.01379	.00027	.00003	.0056	.00008
%RSD	10.507	58.406	16.457	.5555	4.0857
#1	-.12146	-.00065	.00021	.9959	.00196
#2	-.14096	-.00027	.00017	1.004	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 12/27/2021 12:19:30 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.01809**	**.00026**	**-.00271**	**.9969**
Stddev	.00051	.00024	.00008	.0009
%RSD	2.7925	91.542	2.8407	.0926
#1	.01845	.00009	-.00266	.9962
#2	.01773	.00043	-.00276	.9976
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3822.0**	**2824.6**	**26651.**	**2716.0**
Stddev	2.6	1.9	12.	.1
%RSD	.06729	.06899	.04327	.00296
#1	3820.2	2826.0	26643.	2716.0
#2	3823.9	2823.2	26659.	2715.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.764%	98.299%	100.30%	100.89%
Range				

Sample Name: ICEX5 Acquired: 12/27/2021 12:23:14 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.10870**	**.01019**	**-.00353**	**-.00005**
Stddev	.00100	.07634	.00055	.00056	.00001
%RSD	227.55	70.233	5.4387	15.849	14.353
#1	.00115	.05472	.00979	-.00314	-.00005
#2	-.00027	.16268	.01058	-.00393	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00743**	**-.00006**	**.0618**	**-.00140**
Stddev	.00001	.00255	.00011	.0205	.00008
%RSD	8.6781	34.327	191.84	33.23	5.9976
#1	-.00008	.00923	-.00013	.0763	-.00145
#2	-.00009	.00562	.00002	.0472	-.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00041**	**-.00081**	**-.09010**	**-.00141**
Stddev	.00039	.00026	.00016	.03719	.00043
%RSD	255.96	61.958	20.200	41.274	30.889
#1	-.00012	-.00023	-.00070	-.06380	-.00110
#2	.00043	-.00059	-.00093	-.11639	-.00172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 12/27/2021 12:23:14 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06277**	**.00030**	**5.2120**	**-.00995**	**.00029**
Stddev	.00469	.00010	.0003	.01060	.00010
%RSD	7.4792	32.458	.00597	106.48	34.567
#1	-.05945	.00037	5.2122	-.01745	.00037
#2	-.06608	.00023	5.2118	-.00246	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.99**	**-.00230**	**-.02203**	**.00150**	**.00522**
Stddev	.00	.00053	.00102	.00015	.00141
%RSD	.0043	23.128	4.6358	9.7777	27.080
#1	24.99	-.00267	-.02275	.00161	.00422
#2	24.99	-.00192	-.02130	.00140	.00621
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03743**	**-.00026**	**.00003**	**.9876**	**-.00104**
Stddev	.00831	.00022	.00010	.0067	.00020
%RSD	22.206	85.196	297.39	.6826	19.795
#1	.04331	-.00010	-.00004	.9829	-.00118
#2	.03155	-.00041	.00011	.9924	-.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 12/27/2021 12:23:14 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00077**	**.00020**	**1.002**
Stddev	.00056	.00052	.00015	.000
%RSD	464.26	67.906	75.403	.0273
#1	-.00027	.00114	.00010	1.001
#2	.00052	.00040	.00031	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3819.9**	**2839.3**	**26620.**	**2683.9**
Stddev	3.1	1.7	165.	5.6
%RSD	.08208	.05895	.61981	.21029
#1	3817.7	2840.5	26736.	2679.9
#2	3822.1	2838.1	26503.	2687.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.708%	98.810%	100.18%	99.699%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 12:27:01 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97565**	**48.830**	**.96864**	**.99977**	**.97199**
Stddev	.00048	.065	.00389	.00014	.00050
%RSD	.04944	.13405	.40163	.01393	.05190
#1	.97531	48.784	.96589	.99987	.97163
#2	.97599	48.876	.97139	.99967	.97235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97544**	**48.526**	**.97559**	**1.008**	**.94746**
Stddev	.00121	.034	.00010	.012	.00004
%RSD	.12425	.06920	.01015	1.229	.00388
#1	.97459	48.549	.97552	.9990	.94743
#2	.97630	48.502	.97566	1.017	.94748
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97180**	**.96633**	**48.763**	**48.316**	**.97882**
Stddev	.00017	.00101	.101	.019	.00284
%RSD	.01755	.10497	.20810	.03902	.28997
#1	.97192	.96704	48.691	48.303	.97681
#2	.97168	.96561	48.835	48.330	.98082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 12:27:01 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.598**	**.97144**	**.98790**	**48.700**	**.95548**
Stddev	.031	.00045	.00252	.030	.00139
%RSD	.06477	.04638	.25528	.06204	.14591
#1	47.576	.97176	.98969	48.678	.95450
#2	47.620	.97112	.98612	48.721	.95647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.28**	**.95061**	**24.116**	**.97413**	**.95778**
Stddev	.00	.00081	.007	.00144	.00153
%RSD	.0039	.08549	.02952	.14785	.15991
#1	37.28	.95119	24.111	.97311	.95670
#2	37.28	.95004	24.121	.97515	.95886
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7307**	**.94519**	**.97634**	**1.501**	**.97013**
Stddev	.0243	.00406	.00122	.013	.00157
%RSD	.24995	.42915	.12487	.8869	.16221
#1	9.7135	.94232	.97548	1.511	.96901
#2	9.7479	.94806	.97720	1.492	.97124
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 12:27:01 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.95730**	**.96972**	**.98283**	**1.502**
Stddev	.00247	.00159	.00001	.003
%RSD	.25762	.16393	.00120	.1976
#1	.95555	.97084	.98282	1.500
#2	.95904	.96860	.98284	1.505
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3372.0**	**2777.2**	**25015.**	**2658.3**
Stddev	7.6	8.8	6.	11.4
%RSD	.22608	.31719	.02295	.42752
#1	3366.6	2771.0	25011.	2650.3
#2	3377.4	2783.5	25019.	2666.4

Sample Name: CCB-6825508 Acquired: 12/27/2021 12:30:35 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00531**	**.00023**	**-.00523**	**.00003**
Stddev	.00069	.00394	.00146	.00031	.00003
%RSD	678.97	74.110	623.16	5.8506	91.396
#1	.00038	-.00253	-.00080	-.00501	.00001
#2	-.00059	-.00810	.00127	-.00544	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00275**	**.00007**	**.0547**	**.00024**
Stddev	.00001	.00328	.00028	.0520	.00004
%RSD	29.641	119.35	404.12	95.15	16.188
#1	.00004	.00506	.00027	.0179	.00021
#2	.00003	.00043	-.00013	.0915	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00006**	**.00330**	**.04883**	**.00195**
Stddev	.00005	.00073	.00207	.06679	.00146
%RSD	13.251	1181.4	62.782	136.78	74.872
#1	.00037	.00058	.00476	.09606	.00299
#2	.00044	-.00046	.00183	.00160	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 12:30:35 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00021**	**.00260**	**-.01285**	**-.00025**
Stddev	.00489	.00009	.00037	.01737	.00038
%RSD	1173.4	40.884	14.249	135.16	152.28
#1	.00304	.00015	.00234	-.02514	-.00051
#2	-.00387	.00027	.00286	-.00057	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00082**	**-.00076**	**.00118**	**.00376**
Stddev	.00	.00012	.00309	.00193	.00182
%RSD	.0010	14.557	409.46	163.18	48.316
#1	25.02	.00091	.00143	.00255	.00247
#2	25.02	.00074	-.00294	-.00018	.00504
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01056**	**-.00045**	**-.00001**	**.9938**	**.00050**
Stddev	.02096	.00016	.00012	.0123	.00004
%RSD	198.44	36.681	1056.0	1.240	8.3471
#1	.02538	-.00056	.00007	1.002	.00047
#2	-.00426	-.00033	-.00009	.9851	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 12:30:35 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00196**	**-.00012**	**-.00015**	**.9984**
Stddev	.00057	.00009	.00030	.0003
%RSD	29.256	71.163	196.24	.0296
#1	.00155	-.00006	.00006	.9982
#2	.00236	-.00018	-.00037	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3896.2**	**2898.9**	**26805.**	**2715.7**
Stddev	1.5	1.9	88.	.3
%RSD	.03906	.06665	.32684	.01083
#1	3897.2	2900.2	26867.	2715.9
#2	3895.1	2897.5	26743.	2715.5

Sample Name: CCVL-6825510 Acquired: 12/27/2021 12:44:47 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00555**	**.18752**	**.01152**	W **.01189**	**.00199**
Stddev	.00098	.02524	.00023	.00005	.00001
%RSD	17.631	13.459	2.0137	.40421	.27146
#1	.00486	.16967	.01136	.01192	.00199
#2	.00624	.20537	.01168	.01185	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.02000	
Range				-30.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.48891**	**.00207**	**.0327**	**.00381**
Stddev	.00012	.00459	.00009	.0748	.00004
%RSD	5.7131	.93954	4.5695	229.0	1.1787
#1	.00194	.49215	.00200	-.0202	.00384
#2	.00210	.48566	.00213	.0856	.00378
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00378**	**.01073**	**.05130**	**.40780**	**.02865**
Stddev	.00006	.00058	.00055	.00926	.00163
%RSD	1.5062	5.3682	1.0671	2.2701	5.6830
#1	.00382	.01113	.05092	.41434	.02750
#2	.00374	.01032	.05169	.40125	.02981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 12:44:47 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18627**	**.00299**	**.01094**	**.93635**	**.00931**
Stddev	.00183	.00003	.00041	.00327	.00024
%RSD	.98504	1.1486	3.7137	.34941	2.6173
#1	.18757	.00302	.01066	.93866	.00949
#2	.18497	.00297	.01123	.93403	.00914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00968**	**.18212**	**.02042**	**.02508**
Stddev	.00	.00052	.00326	.00006	.00186
%RSD	.0010	5.4119	1.7904	.31196	7.4234
#1	25.00	.01005	.18443	.02037	.02376
#2	25.00	.00931	.17981	.02046	.02640
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49331**	**.00887**	**.00503**	F **.9980**	**.00482**
Stddev	.01986	.00004	.00007	.0003	.00015
%RSD	4.0251	.39885	1.3867	.0337	3.1437
#1	.47927	.00885	.00508	.9978	.00471
#2	.50735	.00890	.00498	.9982	.00493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 12:44:47 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02027**	**.00479**	**.00978**	F **1.001**
Stddev	.00031	.00010	.00003	.001
%RSD	1.5475	2.1617	.27323	.0908
#1	.02005	.00471	.00980	1.002
#2	.02049	.00486	.00976	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3895.3**	**2907.9**	**27015.**	**2762.3**
Stddev	3.7	4.7	14.	32.8
%RSD	.09487	.16187	.05267	1.1861
#1	3897.9	2911.2	27005.	2739.2
#2	3892.7	2904.5	27025.	2785.5

Sample Name: 240-161540-A-1-B@2 Acquired: 12/27/2021 12:48:34 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00547**	**-.00613**	**.10288**	**.04436**
Stddev	.00031	.01011	.00198	.00236	.00022
%RSD	29.742	184.81	32.338	2.2956	.49366
#1	.00081	-.00168	-.00753	.10121	.04420
#2	.00124	.01262	-.00473	.10455	.04451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**10.984**	**-.00005**	**.0350**	**.01561**
Stddev	.00009	.088	.00009	.0021	.00022
%RSD	176.79	.80075	178.87	5.939	1.4307
#1	-.00001	10.922	.00001	.0335	.01545
#2	.00011	11.046	-.00011	.0365	.01577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22865**	**-.00384**	**347.31**	**.71049**	**.00479**
Stddev	.00132	.00106	2.38	.03806	.00215
%RSD	.57862	27.748	.68417	5.3572	44.864
#1	.22771	-.00308	345.63	.73741	.00327
#2	.22958	-.00459	348.99	.68358	.00631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161540-A-1-B@2 Acquired: 12/27/2021 12:48:34 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6462**	**1.6620**	**.00756**	**565.50**	**.05582**
Stddev	.0151	.0059	.00025	4.01	.00080
%RSD	.91512	.35729	3.3567	.70850	1.4369
#1	1.6356	1.6578	.00738	562.67	.05525
#2	1.6569	1.6662	.00774	568.33	.05638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.78**	**.03230**	**.06135**	**.03020**	**.02938**
Stddev	.00	.00012	.00007	.00278	.00732
%RSD	.0139	.36061	.11696	9.2014	24.923
#1	24.78	.03238	.06141	.03217	.03456
#2	24.78	.03221	.06130	.02824	.02421
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0853**	**-.00060**	**.02509**	**1.179**	**-.00072**
Stddev	.0237	.00030	.00022	.002	.00003
%RSD	2.1796	49.256	.86583	.1872	4.1054
#1	1.0686	-.00039	.02494	1.177	-.00070
#2	1.1021	-.00081	.02525	1.180	-.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161540-A-1-B@2 Acquired: 12/27/2021 12:48:34 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00221**	**.00713**	**1.008**
Stddev	.00105	.00083	.00025	.001
%RSD	186.19	37.484	3.5633	.0632
#1	-.00131	.00163	.00731	1.009
#2	.00018	.00280	.00695	1.008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3072.5**	**2673.1**	**23875.**	**2711.0**
Stddev	12.0	10.1	82.	5.3
%RSD	.39087	.37664	.34334	.19517
#1	3081.0	2680.2	23817.	2714.8
#2	3064.0	2666.0	23933.	2707.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.396%	93.028%	89.853%	100.71%
Range				

Sample Name: 240-161519-A-7-C@2 Acquired: 12/27/2021 12:52:19 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**339.91**	**-.00241**	**.03143**	**.01163**
Stddev	.00085	1.16	.00054	.00021	.00004
%RSD	154.13	.34065	22.569	.66851	.34645
#1	-.00005	340.73	-.00203	.03128	.01161
#2	.00116	339.09	-.00280	.03158	.01166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.58474**	**.04648**	**.0071**	**.02767**
Stddev	.00001	.00469	.00002	.0213	.00018
%RSD	10.934	.80200	.03822	302.3	.66336
#1	.00013	.58806	.04647	-.0080	.02780
#2	.00011	.58142	.04650	.0221	.02754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.71939**	**.00719**	**.20624**	**457.51**	**.00469**
Stddev	.00022	.00029	.00026	1.16	.00097
%RSD	.03106	4.0321	.12794	.25294	20.734
#1	.71955	.00699	.20606	458.33	.00400
#2	.71923	.00740	.20643	456.69	.00537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161519-A-7-C@2 Acquired: 12/27/2021 12:52:19 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04644**	**1.8150**	**1.9784**	**564.34**	**3.4254**
Stddev	.00467	.0019	.0015	1.46	.0097
%RSD	10.049	.10761	.07856	.25954	.28406
#1	.04314	1.8136	1.9795	565.38	3.4323
#2	.04974	1.8164	1.9773	563.31	3.4186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	F **-.01429**	**.94467**	F **-.02015**	**-.00247**
Stddev	.00	.00224	.00355	.00073	.00006
%RSD	.0093	15.684	.37577	3.6002	2.2887
#1	25.00	-.01271	.94216	-.02067	-.00243
#2	25.00	-.01588	.94718	-.01964	-.00251
Check ?	None	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit		110.00		9.0000	
Low Limit		-.01000		-.02000	

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3446**	**-.00000**	**.00092**	**.9939**	**-.00042**
Stddev	.0914	.00006	.00004	.0002	.00046
%RSD	1.2448	5651.0	4.4678	.0189	109.97
#1	7.2800	-.00004	.00095	.9941	-.00074
#2	7.4093	.00004	.00089	.9938	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161519-A-7-C@2 Acquired: 12/27/2021 12:52:19 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	.00091	.00250	16.170	1.006
Stddev	.00122	.00022	.054	.000
%RSD	134.60	8.9519	.33193	.0012
#1	.00177	.00265	16.208	1.006
#2	.00004	.00234	16.132	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3010.1	2669.5	23611.	2656.7
Stddev	.8	6.8	100.	11.1
%RSD	.02673	.25402	.42165	.41929
#1	3009.5	2674.3	23540.	2648.8
#2	3010.7	2664.7	23681.	2664.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.783%	92.901%	88.857%	98.689%
Range				

Sample Name: 180-131057-E-1-A@5 Acquired: 12/27/2021 12:56:03 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.67794**	**-.00194**	**.01990**	**.02066**
Stddev	.00062	.03564	.00001	.00089	.00003
%RSD	316.92	5.2564	.49810	4.4659	.16690
#1	.00064	.70314	-.00195	.01927	.02069
#2	-.00024	.65274	-.00194	.02052	.02064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**52.488**	**.00030**	**.0327**	**.00064**
Stddev	.00012	.311	.00004	.0311	.00002
%RSD	120.28	.59291	14.203	95.14	3.5595
#1	.00001	52.708	.00033	.0547	.00062
#2	.00018	52.268	.00027	.0107	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00220**	**.00465**	**.85168**	**2.7808**	**.01687**
Stddev	.00009	.00030	.00126	.0024	.00255
%RSD	3.9626	6.3915	.14844	.08813	15.103
#1	.00226	.00444	.85257	2.7825	.01506
#2	.00214	.00486	.85078	2.7791	.01867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 180-131057-E-1-A@5 Acquired: 12/27/2021 12:56:03 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.960**	**.09129**	**.00268**	**13.305**	**.00135**
Stddev	.042	.00026	.00018	.068	.00007
%RSD	.22263	.28460	6.6461	.51462	5.0687
#1	18.990	.09147	.00255	13.354	.00130
#2	18.930	.09110	.00280	13.257	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.09**	**.00245**	**58.271**	**.00260**	**-.00055**
Stddev	.00	.00069	.149	.00133	.00063
%RSD	.0023	28.179	.25544	51.095	114.38
#1	25.09	.00196	58.166	.00354	-.00100
#2	25.09	.00294	58.376	.00166	-.00011
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5426**	**.00036**	**.68975**	**.9889**	**.02945**
Stddev	.0027	.00010	.00284	.0053	.00029
%RSD	.10634	27.235	.41156	.5352	.98513
#1	2.5445	.00029	.69176	.9927	.02924
#2	2.5406	.00043	.68775	.9852	.02965
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 180-131057-E-1-A@5 Acquired: 12/27/2021 12:56:03 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00267**	**.00103**	**.00863**	**.9999**
Stddev	.00039	.00043	.00030	.0002
%RSD	14.596	41.479	3.5015	.0244
#1	.00239	.00133	.00884	1.000
#2	.00295	.00073	.00841	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3644.3**	**2806.9**	**26023.**	**2691.7**
Stddev	25.2	15.2	135.	19.1
%RSD	.69212	.54199	.51976	.70947
#1	3626.5	2796.1	25928.	2678.1
#2	3662.2	2817.7	26119.	2705.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.172%	97.684%	97.937%	99.987%
Range				

Sample Name: 180-131057-E-4-A@5 Acquired: 12/27/2021 12:59:47 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.04611**	**-.00127**	**-.00283**	**.00503**
Stddev	.00029	.00749	.00073	.00028	.00004
%RSD	67.454	16.234	57.319	10.047	.82046
#1	.00063	.05140	-.00179	-.00303	.00501
#2	.00022	.04082	-.00076	-.00263	.00506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**26.115**	**.00027**	**.0523**	**.00010**
Stddev	.00005	.066	.00003	.0163	.00009
%RSD	68.292	.25399	12.067	31.16	89.532
#1	.00010	26.162	.00029	.0638	.00016
#2	.00004	26.069	.00025	.0408	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00174**	**.03711**	**1.6568**	**.00545**
Stddev	.00003	.00054	.00124	.0108	.00320
%RSD	64.838	30.901	3.3484	.64943	58.625
#1	.00008	.00212	.03623	1.6491	.00771
#2	.00003	.00136	.03798	1.6644	.00319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 180-131057-E-4-A@5 Acquired: 12/27/2021 12:59:47 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.772**	**.00761**	**.00047**	**5.5100**	**.00028**
Stddev	.015	.00012	.00012	.0001	.00000
%RSD	.10314	1.5123	24.629	.00226	1.6013
#1	14.761	.00753	.00055	5.5099	.00027
#2	14.783	.00769	.00039	5.5100	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00117**	**36.706**	**.00051**	**.00099**
Stddev	.00	.00023	.059	.00006	.00024
%RSD	.0051	19.596	.16108	11.163	23.973
#1	25.02	.00101	36.665	.00047	.00082
#2	25.02	.00133	36.748	.00055	.00116
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96873**	**-.00073**	**.10565**	**.9846**	**.00044**
Stddev	.00971	.00018	.00023	.0052	.00063
%RSD	1.0020	24.853	.21735	.5296	144.29
#1	.97560	-.00060	.10581	.9809	.00088
#2	.96187	-.00085	.10548	.9883	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 180-131057-E-4-A@5 Acquired: 12/27/2021 12:59:47 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00013**	**.00135**	**1.001**
Stddev	.00171	.00009	.00021	.000
%RSD	4031.2	69.364	15.240	.0236
#1	.00125	-.00019	.00121	1.001
#2	-.00116	-.00006	.00150	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3759.3**	**2860.8**	**26479.**	**2752.3**
Stddev	4.9	9.7	25.	18.7
%RSD	.13034	.34049	.09462	.68025
#1	3755.9	2853.9	26496.	2739.1
#2	3762.8	2867.7	26461.	2765.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.144%	99.558%	99.649%	102.24%
Range				

Sample Name: 131057-E-4-ASD@25 Acquired: 12/27/2021 13:03:31 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.01383**	**-.00137**	**-.00708**	**.00106**
Stddev	.00025	.02015	.00156	.00021	.00000
%RSD	65.323	145.70	113.48	2.9806	.17641
#1	.00056	.00042	-.00027	-.00693	.00106
#2	.00021	-.02808	-.00247	-.00723	.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**5.4689**	**.00005**	**.0415**	**.00008**
Stddev	.00008	.0028	.00017	.0031	.00018
%RSD	189.69	.05180	324.34	7.500	221.28
#1	-.00001	5.4709	-.00007	.0437	.00020
#2	.00010	5.4669	.00017	.0393	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00087**	**.00865**	**.30551**	**.00148**
Stddev	.00004	.00084	.00097	.07415	.00084
%RSD	13.480	97.011	11.177	24.271	56.451
#1	-.00034	.00146	.00933	.35795	.00089
#2	-.00028	.00027	.00796	.25308	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 131057-E-4-ASD@25 Acquired: 12/27/2021 13:03:31 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0391**	**.00159**	**.00025**	**1.1543**	**.00010**
Stddev	.0019	.00003	.00013	.0210	.00034
%RSD	.06103	1.6726	50.784	1.8240	344.08
#1	3.0404	.00157	.00034	1.1692	-.00014
#2	3.0378	.00161	.00016	1.1394	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00046**	**7.5054**	**-.00019**	**-.00037**
Stddev	.00	.00057	.0221	.00087	.00150
%RSD	.0030	122.63	.29459	462.85	409.91
#1	25.02	.00006	7.5210	-.00080	.00070
#2	25.02	.00087	7.4897	.00043	-.00143
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20956**	**-.00029**	**.02160**	**.9908**	**.00361**
Stddev	.00163	.00010	.00012	.0004	.00544
%RSD	.77614	35.875	.55851	.0419	150.75
#1	.20841	-.00021	.02151	.9905	.00746
#2	.21071	-.00036	.02169	.9911	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 131057-E-4-ASD@25 Acquired: 12/27/2021 13:03:31 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00116**	**.00009**	**.00029**	**1.000**
Stddev	.00152	.00023	.00038	.001
%RSD	130.97	259.76	132.11	.0534
#1	.00223	.00025	.00056	1.000
#2	.00009	-.00007	.00002	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3833.3**	**2874.4**	**26637.**	**2760.0**
Stddev	11.0	5.7	198.	4.8
%RSD	.28667	.19802	.74419	.17247
#1	3841.0	2878.5	26777.	2756.6
#2	3825.5	2870.4	26496.	2763.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.054%	100.03%	100.24%	102.52%
Range				

Sample Name: 131057-E-4-APDS@5 Acquired: 12/27/2021 13:07:16 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04747**	**9.8611**	**.19824**	**.19480**	**.19730**
Stddev	.00030	.0673	.00147	.00041	.00009
%RSD	.62479	.68260	.74062	.21136	.04670
#1	.04726	9.8135	.19928	.19451	.19724
#2	.04768	9.9087	.19720	.19509	.19737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20847**	**32.124**	**.19396**	**.0321**	**.18264**
Stddev	.00002	.016	.00013	.0005	.00003
%RSD	.00928	.04836	.06868	1.641	.01413
#1	.20848	32.135	.19386	.0325	.18266
#2	.20845	32.113	.19405	.0317	.18262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19376**	**.18717**	**9.7726**	**10.823**	**.19594**
Stddev	.00097	.00038	.0228	.011	.00081
%RSD	.50314	.20352	.23358	.10372	.41473
#1	.19307	.18690	9.7565	10.831	.19651
#2	.19445	.18744	9.7888	10.815	.19536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 131057-E-4-APDS@5 Acquired: 12/27/2021 13:07:16 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.847**	**.19886**	**.20147**	**13.966**	**.18290**
Stddev	.014	.00046	.00073	.000	.00030
%RSD	.06601	.23321	.36342	.00141	.16323
#1	21.837	.19853	.20199	13.966	.18269
#2	21.857	.19919	.20095	13.966	.18312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.64**	**.19148**	**40.888**	**.20604**	**.18860**
Stddev	.00	.00078	.027	.00222	.00121
%RSD	.0012	.40862	.06706	1.0791	.64392
#1	24.64	.19203	40.908	.20447	.18774
#2	24.64	.19093	40.869	.20761	.18946
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.462**	**.18765**	**.27894**	**1.000**	**.19529**
Stddev	.010	.00035	.00037	.000	.00043
%RSD	.09644	.18589	.13238	.0125	.21838
#1	10.455	.18790	.27868	1.000	.19499
#2	10.469	.18741	.27920	1.000	.19560
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 131057-E-4-APDS@5 Acquired: 12/27/2021 13:07:16 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19859**	**.19382**	**.19701**	**1.002**
Stddev	.00185	.00046	.00050	.001
%RSD	.93069	.23567	.25618	.0589
#1	.19990	.19350	.19665	1.003
#2	.19729	.19414	.19736	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3562.2**	**2790.4**	**25781.**	**2687.7**
Stddev	3.0	1.3	110.	5.0
%RSD	.08516	.04574	.42593	.18517
#1	3564.3	2789.5	25858.	2684.2
#2	3560.0	2791.3	25703.	2691.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.049%	97.109%	97.022%	99.840%
Range				

Sample Name: 131057-E-4-B MS@5 Acquired: 12/27/2021 13:10:51 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01063**	**2.3304**	**.04345**	**.04262**	**.04905**
Stddev	.00018	.0176	.00157	.00098	.00004
%RSD	1.6680	.75621	3.6187	2.2928	.08187
#1	.01076	2.3428	.04234	.04331	.04908
#2	.01051	2.3179	.04456	.04192	.04902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04788**	**29.587**	**.04508**	**.0662**	**.04167**
Stddev	.00007	.078	.00001	.0542	.00012
%RSD	.14434	.26238	.01982	81.92	.28360
#1	.04784	29.641	.04509	.1045	.04159
#2	.04793	29.532	.04507	.0278	.04175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04415**	**.04387**	**2.3030**	**3.7632**	**.04904**
Stddev	.00030	.00017	.0076	.0082	.00084
%RSD	.67015	.39195	.32926	.21833	1.7054
#1	.04436	.04399	2.2976	3.7690	.04845
#2	.04394	.04374	2.3083	3.7574	.04963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 131057-E-4-B MS@5 Acquired: 12/27/2021 13:10:51 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.276**	**.05260**	**.04623**	**7.8494**	**.04175**
Stddev	.060	.00006	.00051	.0415	.00008
%RSD	.34546	.10676	1.1085	.52819	.19576
#1	17.318	.05256	.04659	7.8787	.04181
#2	17.234	.05264	.04587	7.8201	.04169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.93**	**.04454**	**40.194**	**.04881**	**.04494**
Stddev	.00	.00040	.064	.00165	.00555
%RSD	.0057	.89356	.15848	3.3889	12.353
#1	24.93	.04426	40.239	.04764	.04102
#2	24.93	.04482	40.149	.04998	.04887
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2194**	**.04051**	**.15326**	**1.000**	**.04558**
Stddev	.0166	.00034	.00031	.001	.00026
%RSD	.51506	.83300	.20104	.1264	.57417
#1	3.2312	.04074	.15348	.9992	.04540
#2	3.2077	.04027	.15305	1.001	.04577
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 131057-E-4-B MS@5 Acquired: 12/27/2021 13:10:51 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.04553**	**.04375**	**.04608**	**1.000**
Stddev	.00100	.00034	.00077	.001
%RSD	2.1928	.76596	1.6714	.0468
#1	.04482	.04399	.04663	.9997
#2	.04623	.04351	.04554	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3673.9**	**2818.3**	**26239.**	**2702.9**
Stddev	1.0	.4	178.	14.9
%RSD	.02798	.01290	.67819	.55003
#1	3674.7	2818.1	26113.	2692.4
#2	3673.2	2818.6	26365.	2713.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.937%	98.082%	98.748%	100.40%
Range				

Sample Name: 131057-E-4-C MSD@5 Acquired: 12/27/2021 13:14:32 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01047**	**2.2664**	**.04359**	**.04084**	**.04892**
Stddev	.00003	.0371	.00202	.00019	.00007
%RSD	.26575	1.6353	4.6350	.46521	.14464
#1	.01045	2.2402	.04217	.04071	.04897
#2	.01049	2.2926	.04502	.04098	.04887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04572**	**28.824**	**.04423**	**.0156**	**.04131**
Stddev	.00005	.081	.00011	.0320	.00028
%RSD	.10568	.28246	.25602	204.7	.68260
#1	.04576	28.882	.04431	-.0070	.04111
#2	.04569	28.766	.04415	.0382	.04151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04280**	**.04466**	**2.2581**	**3.6841**	**.04714**
Stddev	.00008	.00069	.0017	.0116	.00220
%RSD	.18224	1.5359	.07563	.31429	4.6712
#1	.04275	.04514	2.2593	3.6923	.04869
#2	.04286	.04417	2.2569	3.6759	.04558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 131057-E-4-C MSD@5 Acquired: 12/27/2021 13:14:32 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.247**	**.05250**	**.04505**	**7.7352**	**.04136**
Stddev	.027	.00007	.00014	.0075	.00000
%RSD	.15420	.13487	.31903	.09753	.00145
#1	17.266	.05255	.04495	7.7405	.04136
#2	17.228	.05245	.04516	7.7299	.04136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.93**	**.04394**	**39.502**	**.04541**	**.04318**
Stddev	.00	.00030	.065	.00090	.00006
%RSD	.0089	.68052	.16557	1.9850	.13506
#1	24.93	.04373	39.455	.04478	.04314
#2	24.93	.04415	39.548	.04605	.04322
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0748**	**.03971**	**.15243**	**.9935**	**.04456**
Stddev	.0219	.00016	.00014	.0007	.00031
%RSD	.71110	.39361	.09211	.0748	.68611
#1	3.0594	.03982	.15234	.9940	.04434
#2	3.0903	.03959	.15253	.9930	.04478
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 131057-E-4-C MSD@5 Acquired: 12/27/2021 13:14:32 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.04355**	**.04239**	**.04410**	**.9995**
Stddev	.00167	.00010	.00068	.0011
%RSD	3.8280	.22872	1.5471	.1099
#1	.04238	.04232	.04362	1.000
#2	.04473	.04246	.04458	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3682.3**	**2824.7**	**26206.**	**2733.6**
Stddev	9.7	9.5	19.	23.4
%RSD	.26429	.33719	.07127	.85674
#1	3675.4	2818.0	26193.	2717.0
#2	3689.2	2831.4	26220.	2750.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.154%	98.303%	98.625%	101.54%
Range				

Sample Name: 180-131057-E-5-A@5 Acquired: 12/27/2021 13:18:13 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.03503**	**.00074**	**.00450**	**.01066**
Stddev	.00048	.01406	.00184	.00066	.00003
%RSD	307.99	40.124	247.74	14.637	.31766
#1	-.00018	.04497	.00205	.00496	.01068
#2	.00050	.02509	-.00056	.00403	.01063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**45.520**	**.00012**	**.0271**	**.00020**
Stddev	.00004	.160	.00004	.0931	.00009
%RSD	263.86	.35095	28.220	342.8	42.775
#1	.00001	45.407	.00010	-.0387	.00026
#2	-.00004	45.632	.00015	.0929	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00128**	**.00270**	**65.572**	**.23412**
Stddev	.00016	.00040	.00287	.385	.00175
%RSD	134.97	31.108	106.30	.58678	.74803
#1	-.00001	.00156	.00473	65.300	.23288
#2	-.00024	.00100	.00067	65.844	.23535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 180-131057-E-5-A@5 Acquired: 12/27/2021 13:18:13 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.090**	**.00014**	**.00456**	**18.988**	**-.00000**
Stddev	.011	.00010	.00033	.067	.00040
%RSD	.10582	69.888	7.3129	.35490	19836.
#1	10.082	.00021	.00433	18.940	-.00029
#2	10.098	.00007	.00480	19.036	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00141**	**52.220**	**.00037**	**.00107**
Stddev	.00	.00109	.054	.00032	.00374
%RSD	.0027	77.419	.10382	85.879	349.66
#1	25.02	.00218	52.182	.00059	.00371
#2	25.02	.00064	52.258	.00014	-.00157
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50654**	**-.00027**	**.26074**	**.9897**	**.00047**
Stddev	.02936	.00031	.00101	.0006	.00020
%RSD	5.7955	112.58	.38812	.0572	41.651
#1	.48578	-.00006	.26003	.9893	.00033
#2	.52730	-.00049	.26146	.9901	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 180-131057-E-5-A@5 Acquired: 12/27/2021 13:18:13 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00152**	**-.00025**	**.00037**	**1.000**
Stddev	.00035	.00009	.00049	.000
%RSD	23.044	34.972	131.99	.0210
#1	.00177	-.00032	.00002	1.000
#2	.00127	-.00019	.00071	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3571.6**	**2821.2**	**25898.**	**2746.6**
Stddev	11.7	4.6	15.	18.2
%RSD	.32896	.16153	.05935	.66390
#1	3563.3	2818.0	25887.	2759.5
#2	3579.9	2824.4	25908.	2733.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.293%	98.182%	97.463%	102.03%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 13:22:00 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96998**	**49.666**	**.97152**	**1.0045**	**.97841**
Stddev	.00011	.077	.00794	.0007	.00057
%RSD	.01107	.15524	.81739	.07353	.05799
#1	.96991	49.611	.97713	1.0051	.97801
#2	.97006	49.720	.96590	1.0040	.97881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0056**	**49.269**	**.96904**	**1.012**	**.94668**
Stddev	.0026	.082	.00149	.065	.00040
%RSD	.25482	.16678	.15401	6.410	.04212
#1	1.0074	49.327	.96799	.9661	.94696
#2	1.0038	49.210	.97010	1.058	.94640
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98799**	**.96142**	**49.101**	**48.610**	**.97047**
Stddev	.00054	.00016	.175	.029	.00232
%RSD	.05491	.01644	.35727	.05990	.23902
#1	.98837	.96153	49.225	48.631	.96883
#2	.98760	.96131	48.977	48.589	.97211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 13:22:00 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.131**	**.95402**	**.99045**	**48.362**	**.95183**
Stddev	.023	.00031	.00082	.096	.00003
%RSD	.04825	.03211	.08262	.19933	.00349
#1	47.147	.95380	.99103	48.293	.95180
#2	47.115	.95423	.98987	48.430	.95185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.25**	**.95045**	**24.400**	**.97054**	**.97386**
Stddev	.01	.00003	.016	.00199	.00451
%RSD	.0138	.00294	.06740	.20555	.46271
#1	37.25	.95043	24.411	.97196	.97705
#2	37.25	.95047	24.388	.96913	.97068
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8587**	**.95505**	**.96785**	**1.504**	**.97177**
Stddev	.0180	.00167	.00121	.012	.00190
%RSD	.18290	.17455	.12511	.7849	.19528
#1	9.8460	.95623	.96700	1.512	.97312
#2	9.8715	.95388	.96871	1.496	.97043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 13:22:00 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.97467**	**.97888**	**1.0012**	**1.501**
Stddev	.00033	.00250	.0019	.008
%RSD	.03343	.25506	.18620	.5191
#1	.97490	.98065	1.0025	1.495
#2	.97444	.97711	.99985	1.507
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3365.8**	**2781.4**	**25129.**	**2693.5**
Stddev	5.9	7.1	24.	9.1
%RSD	.17558	.25508	.09578	.33708
#1	3370.0	2786.4	25112.	2687.0
#2	3361.6	2776.3	25146.	2699.9

Sample Name: CCB-6825508 Acquired: 12/27/2021 13:25:33 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**-.02616**	**-.00106**	**-.00822**	**.00006**
Stddev	.00075	.01066	.00029	.00011	.00002
%RSD	28092.	40.752	27.743	1.3326	31.614
#1	.00053	-.03370	-.00085	-.00830	.00007
#2	-.00054	-.01862	-.00127	-.00814	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00107**	**-.00002**	**.0571**	**.00002**
Stddev	.00008	.00057	.00000	.0783	.00018
%RSD	248.89	53.043	7.9348	137.2	809.88
#1	.00009	.00067	-.00002	.1124	-.00011
#2	-.00002	.00148	-.00003	.0017	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00025**	**.00197**	**.03241**	**.00093**
Stddev	.00004	.00001	.00265	.06142	.00088
%RSD	80.988	2.7946	134.09	189.52	93.836
#1	.00002	.00024	.00010	.07584	.00031
#2	.00008	.00025	.00384	-.01102	.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 13:25:33 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00229**	**-.00006**	**.00153**	**-.00965**	**-.00015**
Stddev	.00081	.00002	.00043	.01244	.00030
%RSD	35.290	38.073	28.128	128.92	202.26
#1	-.00286	-.00008	.00122	-.01845	-.00036
#2	-.00172	-.00004	.00183	-.00085	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00092**	**.00170**	**-.00100**	**.00246**
Stddev	.00	.00088	.00052	.00121	.00189
%RSD	.0040	96.111	30.652	120.86	77.112
#1	25.02	.00029	.00134	-.00186	.00112
#2	25.02	.00154	.00207	-.00015	.00379
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01025**	**-.00035**	**-.00003**	**.9987**	**-.00030**
Stddev	.01098	.00028	.00009	.0046	.00018
%RSD	107.10	80.366	296.85	.4625	61.390
#1	.00249	-.00015	-.00010	.9954	-.00017
#2	.01802	-.00056	.00003	1.002	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 13:25:33 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00232**	**.00026**	**-.00024**	**1.001**
Stddev	.00236	.00004	.00020	.002
%RSD	101.44	14.122	84.248	.2178
#1	.00399	.00024	-.00010	.9997
#2	.00066	.00029	-.00038	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3847.4**	**2833.4**	**26567.**	**2678.3**
Stddev	3.6	1.6	152.	18.4
%RSD	.09332	.05777	.57398	.68517
#1	3849.9	2834.6	26459.	2691.3
#2	3844.8	2832.3	26674.	2665.4

Sample Name: CCVL-6825510 Acquired: 12/27/2021 13:29:22 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00542**	**.18133**	**.01095**	W **.01046**	**.00196**
Stddev	.00090	.00943	.00065	.00024	.00002
%RSD	16.630	5.2028	5.9356	2.3397	1.1137
#1	.00605	.17466	.01049	.01029	.00195
#2	.00478	.18800	.01141	.01063	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.02000	
Range				-30.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.48232**	**.00215**	**.0418**	**.00363**
Stddev	.00002	.00147	.00020	.0440	.00013
%RSD	.81214	.30391	9.1396	105.3	3.5880
#1	.00208	.48336	.00229	.0729	.00372
#2	.00206	.48128	.00201	.0107	.00353
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**.01167**	**.05114**	**.40288**	**.02913**
Stddev	.00014	.00074	.00119	.01102	.00119
%RSD	3.6097	6.3625	2.3291	2.7358	4.0887
#1	.00392	.01115	.05198	.39509	.02997
#2	.00373	.01220	.05029	.41067	.02829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 13:29:22 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17927**	**.00287**	**.00994**	**.94161**	**.00893**
Stddev	.00188	.00010	.00031	.01126	.00011
%RSD	1.0474	3.3791	3.1338	1.1962	1.2278
#1	.17794	.00280	.01016	.94958	.00885
#2	.18060	.00293	.00972	.93365	.00900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00977**	**.17861**	**.02015**	**.02248**
Stddev	.00	.00028	.00076	.00032	.00318
%RSD	.0013	2.8417	.42340	1.5764	14.169
#1	25.00	.00997	.17808	.02037	.02473
#2	25.00	.00958	.17915	.01993	.02023
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49512**	**.00824**	**.00498**	F **.9942**	**.00452**
Stddev	.02297	.00021	.00008	.0114	.00020
%RSD	4.6392	2.5162	1.5597	1.145	4.5268
#1	.47888	.00838	.00503	.9862	.00466
#2	.51136	.00809	.00492	1.002	.00437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 13:29:22 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02019**	**.00446**	**.00972**	F **1.001**
Stddev	.00034	.00023	.00030	.001
%RSD	1.6930	5.1450	3.0994	.0458
#1	.01995	.00430	.00951	1.002
#2	.02043	.00463	.00994	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3859.9**	**2845.3**	**26748.**	**2712.0**
Stddev	5.4	3.4	75.	43.8
%RSD	.13935	.11781	.28067	1.6156
#1	3856.1	2842.9	26695.	2681.0
#2	3863.7	2847.7	26801.	2743.0

Sample Name: 480-193443-D-1-C@2 Acquired: 12/27/2021 13:33:08 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.15798**	**.02632**	**11.670**	**.10070**
Stddev	.00001	.01149	.00299	.012	.00023
%RSD	1.3647	7.2727	11.345	.10132	.23197
#1	.00058	.16610	.02843	11.662	.10054
#2	.00057	.14986	.02421	11.679	.10087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**50.608**	**.00087**	**.0400**	**.02234**
Stddev	.00009	.059	.00005	.0100	.00002
%RSD	245.71	.11723	5.4119	24.92	.09491
#1	.00010	50.566	.00084	.0330	.02232
#2	-.00003	50.650	.00090	.0471	.02235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13643**	**.00220**	**.37027**	**400.57**	**.14377**
Stddev	.00011	.00012	.00143	.07	.00401
%RSD	.07735	5.3985	.38574	.01696	2.7867
#1	.13650	.00212	.37128	400.62	.14094
#2	.13635	.00229	.36926	400.53	.14660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193443-D-1-C@2 Acquired: 12/27/2021 13:33:08 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**148.39**	**.09098**	**.01002**	F **1087.0**	**.14889**
Stddev	.55	.00031	.00020	.5	.00040
%RSD	.36824	.34526	2.0340	.04807	.26753
#1	148.00	.09076	.00987	1086.6	.14861
#2	148.77	.09120	.01016	1087.3	.14917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.72**	**.00321**	F **100.41**	**.00303**	**.00365**
Stddev	.00	.00116	.02	.00321	.00135
%RSD	.0037	35.989	.01614	106.26	37.023
#1	27.72	.00403	100.43	.00530	.00461
#2	27.72	.00239	100.40	.00075	.00270
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1048**	**.00464**	**.56450**	**.9842**	**.08685**
Stddev	.0941	.00027	.00099	.0055	.00064
%RSD	1.0340	5.8359	.17552	.5639	.74247
#1	9.0382	.00445	.56380	.9803	.08639
#2	9.1713	.00484	.56520	.9881	.08730
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193443-D-1-C@2 Acquired: 12/27/2021 13:33:08 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00220**	**.08236**	**.00574**	**1.033**
Stddev	.00004	.00039	.00009	.000
%RSD	1.7522	.47500	1.6095	.0305
#1	.00217	.08209	.00568	1.033
#2	.00222	.08264	.00581	1.033
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2971.3**	**2600.1**	**23405.**	**2781.4**
Stddev	.3	3.3	5.	5.8
%RSD	.01177	.12789	.02056	.20976
#1	2971.5	2597.7	23409.	2785.5
#2	2971.0	2602.4	23402.	2777.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.779%	90.486%	88.083%	103.32%
Range				

Sample Name: 480-193443-D-1-C@5 Acquired: 12/27/2021 13:36:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.05202**	**.00924**	**4.8993**	**.04261**
Stddev	.00076	.01635	.00013	.0068	.00021
%RSD	172.54	31.420	1.3772	.13856	.48404
#1	.00097	.04047	.00933	4.8945	.04276
#2	-.00010	.06358	.00915	4.9041	.04246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**21.717**	**.00071**	**.0608**	**.00905**
Stddev	.00002	.057	.00030	.0385	.00007
%RSD	116.87	.26130	42.260	63.33	.75177
#1	.00003	21.677	.00093	.0336	.00910
#2	.00000	21.757	.00050	.0880	.00900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05888**	**-.00089**	**.15820**	**164.92**	**.05990**
Stddev	.00037	.00010	.00078	.24	.00081
%RSD	.62050	11.724	.49454	.14770	1.3477
#1	.05913	-.00081	.15765	164.75	.05933
#2	.05862	-.00096	.15875	165.09	.06047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193443-D-1-C@5 Acquired: 12/27/2021 13:36:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**60.360**	**.03774**	**.00410**	**455.93**	**.06053**
Stddev	.360	.00014	.00001	1.00	.00042
%RSD	.59678	.36738	.22054	.21829	.69465
#1	60.614	.03784	.00409	455.22	.06083
#2	60.105	.03764	.00411	456.63	.06024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.12**	**.00260**	**40.257**	**.00249**	**.00075**
Stddev	.00	.00280	.048	.00058	.00183
%RSD	.0030	107.90	.11954	23.301	244.17
#1	26.12	.00062	40.223	.00208	-.00055
#2	26.12	.00458	40.291	.00290	.00205
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0446**	**.00203**	**.23625**	**.9898**	**.03666**
Stddev	.0030	.00009	.00034	.0100	.00000
%RSD	.07458	4.5115	.14453	1.011	.00427
#1	4.0467	.00210	.23649	.9827	.03666
#2	4.0425	.00197	.23601	.9969	.03665
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193443-D-1-C@5 Acquired: 12/27/2021 13:36:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00273**	**.03414**	**.00241**	**1.014**
Stddev	.00033	.00029	.00001	.001
%RSD	12.249	.83561	.24807	.0496
#1	.00250	.03394	.00241	1.014
#2	.00297	.03434	.00242	1.013
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3218.4**	**2718.1**	**24548.**	**2797.5**
Stddev	12.6	11.8	91.	8.0
%RSD	.39249	.43401	.37051	.28522
#1	3209.5	2709.8	24484.	2803.2
#2	3227.4	2726.5	24613.	2791.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.167%	94.594%	92.385%	103.92%
Range				

Sample Name: 480-193443-D-2-C@2 Acquired: 12/27/2021 13:40:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.25496**	**.03057**	**13.764**	**.12226**
Stddev	.00018	.00105	.00025	.086	.00014
%RSD	68.764	.41348	.82852	.62322	.11828
#1	-.00038	.25421	.03075	13.825	.12237
#2	-.00013	.25570	.03039	13.703	.12216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**39.826**	**.00071**	**.0421**	**.02364**
Stddev	.00006	.231	.00022	.0062	.00037
%RSD	332.44	.57974	31.307	14.64	1.5621
#1	-.00003	39.989	.00055	.0378	.02390
#2	.00006	39.662	.00086	.0465	.02337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16368**	**.00215**	**.92345**	**385.79**	**.27216**
Stddev	.00011	.00043	.00385	1.88	.00092
%RSD	.06807	19.813	.41648	.48724	.33804
#1	.16376	.00185	.92617	387.12	.27281
#2	.16360	.00245	.92073	384.46	.27151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193443-D-2-C@2 Acquired: 12/27/2021 13:40:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**106.19**	**.08988**	**.00820**	F **1249.8**	**.17065**
Stddev	.10	.00029	.00009	5.8	.00085
%RSD	.09572	.32217	1.1447	.46030	.49523
#1	106.12	.08968	.00826	1253.8	.17125
#2	106.27	.09008	.00813	1245.7	.17006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.48**	**.00240**	**26.178**	**.00929**	**.00287**
Stddev	.03	.00102	.217	.00034	.00534
%RSD	.0958	42.338	.82985	3.7026	185.81
#1	28.50	.00168	26.331	.00953	.00665
#2	28.46	.00312	26.024	.00905	-.00090
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.0855**	**.01522**	**.48181**	**.9980**	**.12176**
Stddev	.0060	.00020	.00216	.0004	.00018
%RSD	.06651	1.2894	.44912	.0384	.15025
#1	9.0812	.01535	.48334	.9983	.12163
#2	9.0898	.01508	.48028	.9977	.12189
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193443-D-2-C@2 Acquired: 12/27/2021 13:40:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00153**	**.03571**	**.06562**	**1.015**
Stddev	.00076	.00054	.00082	.000
%RSD	49.435	1.5036	1.2571	.0210
#1	.00100	.03533	.06504	1.014
#2	.00206	.03609	.06621	1.015
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2948.9**	**2588.8**	**23293.**	**2746.9**
Stddev	2.1	3.0	110.	8.2
%RSD	.07259	.11513	.47156	.29920
#1	2950.4	2590.9	23371.	2741.1
#2	2947.4	2586.7	23216.	2752.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.201%	90.093%	87.662%	102.04%
Range				

Sample Name: 480-193443-D-2-C@5 Acquired: 12/27/2021 13:44:25 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.11804**	**.01262**	**5.8307**	**.05287**
Stddev	.00018	.02087	.00115	.0066	.00008
%RSD	326.36	17.679	9.1242	.11385	.14523
#1	-.00019	.10329	.01343	5.8354	.05282
#2	.00007	.13280	.01180	5.8260	.05292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**16.961**	**.00064**	**.0220**	**.00999**
Stddev	.00002	.004	.00005	.0477	.00011
%RSD	52.657	.02495	7.2271	217.0	1.0738
#1	.00006	16.958	.00067	-.0118	.01007
#2	.00003	16.964	.00060	.0558	.00992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06925**	**.00105**	**.39437**	**157.15**	**.11533**
Stddev	.00034	.00134	.00307	.09	.00110
%RSD	.48935	128.09	.77847	.05417	.95372
#1	.06949	.00010	.39220	157.21	.11611
#2	.06901	.00199	.39654	157.09	.11456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193443-D-2-C@5 Acquired: 12/27/2021 13:44:25 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.415**	**.03852**	**.00317**	**505.12**	**.07165**
Stddev	.066	.00001	.00008	.41	.00066
%RSD	.14877	.03861	2.5266	.08100	.92655
#1	44.368	.03853	.00322	505.41	.07212
#2	44.462	.03851	.00311	504.83	.07118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.45**	**.00102**	**10.677**	**.00520**	**.00001**
Stddev	.00	.00013	.002	.00146	.00118
%RSD	.0066	12.268	.02321	28.102	12875.
#1	26.45	.00111	10.675	.00417	.00084
#2	26.45	.00094	10.678	.00624	-.00082
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1173**	**.00607**	**.20604**	**.9902**	**.05157**
Stddev	.0290	.00056	.00181	.0047	.00079
%RSD	.70565	9.1770	.87927	.4727	1.5362
#1	4.1379	.00647	.20732	.9935	.05101
#2	4.0968	.00568	.20476	.9869	.05213
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193443-D-2-C@5 Acquired: 12/27/2021 13:44:25 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00137**	**.01421**	**.02762**	**1.006**
Stddev	.00290	.00053	.00042	.001
%RSD	211.58	3.7495	1.5045	.1110
#1	.00342	.01458	.02732	1.005
#2	-.00068	.01383	.02791	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3188.6**	**2683.8**	**24530.**	**2781.7**
Stddev	1.3	.5	34.	.8
%RSD	.04110	.01711	.13917	.02833
#1	3187.7	2683.5	24555.	2781.1
#2	3189.5	2684.2	24506.	2782.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.396%	93.401%	92.318%	103.33%
Range				

Sample Name: 480-193443-D-3-C@2 Acquired: 12/27/2021 13:48:12 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.09421**	**.02085**	**4.2455**	**.13713**
Stddev	.00033	.03837	.00053	.0067	.00005
%RSD	218.44	40.730	2.5400	.15831	.03383
#1	-.00038	.12134	.02122	4.2407	.13716
#2	.00008	.06708	.02047	4.2502	.13710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**117.11**	**.00075**	**.0042**	**.00996**
Stddev	.00013	.44	.00001	.0561	.00025
%RSD	3732.9	.37635	1.2600	1346.	2.5167
#1	.00010	117.42	.00075	.0439	.00978
#2	-.00009	116.80	.00074	-.0355	.01014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04038**	**.00343**	**.97018**	**131.11**	**.09819**
Stddev	.00020	.00029	.00141	.38	.00057
%RSD	.49281	8.3183	.14541	.29323	.58052
#1	.04024	.00323	.97118	131.38	.09859
#2	.04052	.00363	.96919	130.84	.09779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193443-D-3-C@2 Acquired: 12/27/2021 13:48:12 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**60.962**	**.18491**	**.00200**	**461.69**	**.05102**
Stddev	.038	.00018	.00015	.61	.00003
%RSD	.06196	.09850	7.4170	.13150	.05768
#1	60.935	.18504	.00190	462.12	.05100
#2	60.989	.18479	.00211	461.26	.05105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.13**	**.00384**	**36.872**	**.00498**	**.00306**
Stddev	.01	.00019	.141	.00096	.00442
%RSD	.0191	4.9303	.38248	19.278	144.73
#1	27.13	.00371	36.772	.00430	-.00007
#2	27.14	.00398	36.972	.00566	.00619
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0940**	**.00157**	**.80131**	**.9950**	**.07254**
Stddev	.0177	.00010	.00173	.0044	.00021
%RSD	.29095	6.3533	.21543	.4450	.29259
#1	6.1066	.00150	.80253	.9919	.07269
#2	6.0815	.00164	.80009	.9981	.07239
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193443-D-3-C@2 Acquired: 12/27/2021 13:48:12 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00160**	**.02014**	**.07329**	**1.003**
Stddev	.00193	.00057	.00023	.000
%RSD	120.64	2.8374	.31094	.0136
#1	.00296	.01974	.07313	1.003
#2	.00023	.02055	.07345	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3196.7**	**2708.5**	**24671.**	**2831.7**
Stddev	17.7	17.5	15.	.6
%RSD	.55377	.64691	.05954	.01992
#1	3184.2	2696.1	24682.	2832.1
#2	3209.2	2720.9	24661.	2831.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.605%	94.259%	92.848%	105.19%
Range				

Sample Name: rinse Acquired: 12/27/2021 13:52:00 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00257**	**-.00185**	**.01072**	**-.00002**
Stddev	.00027	.02668	.00125	.00086	.00002
%RSD	239.76	1038.8	67.390	8.0049	76.911
#1	.00008	-.02143	-.00097	.01132	-.00004
#2	-.00030	.01630	-.00273	.01011	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00414**	**.00017**	**.0616**	**.00011**
Stddev	.00007	.00247	.00005	.0370	.00000
%RSD	294.43	59.556	31.725	60.16	2.7844
#1	-.00007	.00240	.00013	.0877	.00012
#2	.00002	.00589	.00021	.0354	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00069**	**-.00233**	**.22776**	**.00038**
Stddev	.00043	.00062	.00024	.02741	.00201
%RSD	227.50	88.755	10.152	12.034	524.08
#1	-.00011	.00026	-.00217	.24714	.00180
#2	.00049	.00113	-.00250	.20838	-.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 12/27/2021 13:52:00 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**-.00007**	**-.00029**	**.14270**	**.00004**
Stddev	.00271	.00011	.00004	.01143	.00002
%RSD	382.73	162.01	13.059	8.0081	58.712
#1	.00263	-.00014	-.00032	.13462	.00002
#2	-.00121	.00001	-.00026	.15078	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00029**	**.00823**	**.00029**	**-.00063**
Stddev	.00	.00125	.00234	.00034	.00059
%RSD	.0058	431.63	28.468	116.85	92.589
#1	25.02	.00118	.00989	.00053	-.00105
#2	25.02	-.00060	.00658	.00005	-.00022
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03529**	**-.00038**	**-.00001**	**1.000**	**-.00022**
Stddev	.01803	.00008	.00003	.007	.00003
%RSD	51.091	20.262	309.61	.7381	12.996
#1	.04804	-.00044	.00001	1.005	-.00020
#2	.02254	-.00033	-.00003	.9949	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 12/27/2021 13:52:00 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00190**	**.00014**	**.00019**	**1.001**
Stddev	.00040	.00053	.00002	.000
%RSD	21.283	380.78	8.8051	.0227
#1	.00218	.00052	.00020	1.001
#2	.00161	-.00024	.00018	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3875.1**	**2880.1**	**26817.**	**2753.3**
Stddev	3.0	9.1	34.	9.0
%RSD	.07788	.31609	.12790	.32797
#1	3877.3	2886.5	26841.	2759.7
#2	3873.0	2873.7	26792.	2746.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.14%	100.23%	100.92%	102.28%
Range				

Sample Name: 480-193573-I-6-B@2 Acquired: 12/27/2021 13:55:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**9.3486**	**.00261**	**.05252**	**.21244**
Stddev	.00027	.0775	.00003	.00000	.00011
%RSD	173.81	.82863	1.1509	.00136	.04999
#1	.00035	9.2938	.00259	.05252	.21236
#2	-.00004	9.4034	.00263	.05252	.21251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**73.410**	**.00225**	**.0784**	**.00560**
Stddev	.00003	.217	.00000	.0365	.00010
%RSD	6.3311	.29624	.12707	46.59	1.8725
#1	.00050	73.257	.00225	.1043	.00567
#2	.00055	73.564	.00224	.0526	.00552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01214**	**.01015**	**10.616**	**2.5354**	**.02514**
Stddev	.00059	.00039	.005	.0009	.00065
%RSD	4.8617	3.8366	.05182	.03514	2.6024
#1	.01255	.01043	10.612	2.5348	.02467
#2	.01172	.00988	10.619	2.5360	.02560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-I-6-B@2 Acquired: 12/27/2021 13:55:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.685**	**1.1953**	**.00030**	**22.152**	**.01455**
Stddev	.042	.0016	.00004	.063	.00011
%RSD	.19554	.13451	14.270	.28549	.72836
#1	21.715	1.1964	.00033	22.107	.01462
#2	21.655	1.1941	.00027	22.197	.01447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.26**	**.01240**	**18.480**	**.00023**	**.00101**
Stddev	.00	.00083	.004	.00264	.00173
%RSD	.0030	6.7043	.01902	1162.0	172.18
#1	25.26	.01299	18.477	.00210	-.00022
#2	25.26	.01181	18.482	-.00164	.00223
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.719**	**.00027**	**.21531**	**.9907**	**.18924**
Stddev	.100	.00022	.00175	.0108	.00042
%RSD	.35961	79.759	.81438	1.092	.22178
#1	27.648	.00042	.21407	.9830	.18894
#2	27.789	.00012	.21655	.9983	.18953
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-I-6-B@2 Acquired: 12/27/2021 13:55:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00111**	**.02472**	**.06163**	**1.002**
Stddev	.00091	.00031	.00076	.001
%RSD	82.073	1.2344	1.2337	.0719
#1	.00047	.02450	.06110	1.001
#2	.00175	.02493	.06217	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3534.6**	**2817.7**	**26032.**	**2752.6**
Stddev	.2	.5	115.	.4
%RSD	.00453	.01887	.44355	.01493
#1	3534.7	2817.3	25950.	2752.9
#2	3534.5	2818.1	26114.	2752.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.336%	98.059%	97.969%	102.25%
Range				

Sample Name: MB 480-609926/1-A Acquired: 12/27/2021 13:59:28 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00669**	**.00110**	**.00111**	**-.00001**
Stddev	.00055	.03784	.00178	.00012	.00000
%RSD	111.36	565.17	162.62	10.764	15.019
#1	.00088	.03345	-.00016	.00120	-.00001
#2	.00010	-.02006	.00236	.00103	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00897**	**.00006**	**.0542**	**.00014**
Stddev	.00006	.00416	.00011	.0211	.00003
%RSD	81.200	46.422	187.28	39.01	23.013
#1	.00003	.00602	.00013	.0691	.00016
#2	.00012	.01191	-.00002	.0392	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.00049**	**.00129**	**.06114**	**.00331**
Stddev	.00019	.00124	.00154	.03383	.00036
%RSD	39.485	251.89	119.44	55.325	10.777
#1	.00034	-.00039	.00237	.03722	.00357
#2	.00061	.00137	.00020	.08506	.00306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-609926/1-A Acquired: 12/27/2021 13:59:28 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00329**	**.00023**	**-.00028**	**.03620**	**.00015**
Stddev	.00622	.00002	.00002	.00476	.00026
%RSD	188.80	10.443	6.4256	13.151	175.54
#1	-.00769	.00025	-.00027	.03283	-.00004
#2	.00110	.00022	-.00030	.03957	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00022**	**.00337**	**.00085**	**-.00047**
Stddev	.00	.00017	.00104	.00102	.00284
%RSD	.0049	80.993	30.887	119.54	601.18
#1	25.02	.00009	.00264	.00013	-.00248
#2	25.02	.00034	.00411	.00157	.00153
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02186**	**-.00034**	**.00003**	**.9942**	**-.00011**
Stddev	.01234	.00024	.00008	.0018	.00000
%RSD	56.460	69.262	286.04	.1792	.61607
#1	.01313	-.00051	.00008	.9955	-.00012
#2	.03059	-.00018	-.00003	.9930	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-609926/1-A Acquired: 12/27/2021 13:59:28 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00142**	**-.00021**	**-.00030**	**.9996**
Stddev	.00062	.00025	.00021	.0011
%RSD	43.671	117.67	70.957	.1114
#1	.00098	-.00004	-.00015	1.000
#2	.00186	-.00039	-.00044	.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3892.2**	**2868.4**	**26820.**	**2733.5**
Stddev	1.5	4.6	74.	5.5
%RSD	.03820	.16136	.27700	.19983
#1	3893.3	2871.7	26873.	2729.6
#2	3891.2	2865.2	26768.	2737.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.58%	99.825%	100.94%	101.54%
Range				

Sample Name: LCS 480-609926/2-A Acquired: 12/27/2021 14:03:14 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04839**	**9.8986**	**.20127**	**.19897**	**.20101**
Stddev	.00080	.0308	.00097	.00013	.00010
%RSD	1.6506	.31168	.48325	.06462	.04850
#1	.04895	9.8768	.20196	.19906	.20094
#2	.04782	9.9204	.20058	.19888	.20108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20767**	**9.7863**	**.19859**	**.0213**	**.18679**
Stddev	.00081	.0275	.00006	.0369	.00016
%RSD	.39227	.28114	.02856	173.2	.08415
#1	.20824	9.8058	.19863	-.0048	.18668
#2	.20709	9.7669	.19855	.0475	.18690
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19380**	**.19435**	**9.9636**	**9.6725**	**.19568**
Stddev	.00029	.00103	.0009	.0090	.00237
%RSD	.15150	.52811	.00858	.09303	1.2114
#1	.19360	.19508	9.9642	9.6788	.19736
#2	.19401	.19362	9.9630	9.6661	.19401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-609926/2-A Acquired: 12/27/2021 14:03:14 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8044**	**.20098**	**.20147**	**9.6481**	**.18765**
Stddev	.0092	.00051	.00051	.0017	.00035
%RSD	.09403	.25564	.25435	.01736	.18694
#1	9.7979	.20062	.20183	9.6469	.18790
#2	9.8109	.20134	.20111	9.6492	.18740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.66**	**.19147**	**9.4920**	**.21035**	**.18756**
Stddev	.00	.00035	.0076	.00400	.00068
%RSD	.0052	.18451	.07999	1.9029	.36282
#1	24.67	.19172	9.4867	.21318	.18804
#2	24.66	.19122	9.4974	.20752	.18708
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5268**	**.18152**	**.19934**	**.9978**	**.19705**
Stddev	.0657	.00033	.00005	.0073	.00024
%RSD	.68979	.18101	.02713	.7340	.12176
#1	9.5732	.18129	.19938	1.003	.19688
#2	9.4803	.18176	.19930	.9927	.19722
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-609926/2-A Acquired: 12/27/2021 14:03:14 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19694**	**.19411**	**.19645**	**1.003**
Stddev	.00136	.00019	.00051	.001
%RSD	.69143	.09741	.25877	.0532
#1	.19598	.19398	.19609	1.003
#2	.19791	.19425	.19681	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3722.9**	**2867.7**	**26453.**	**2751.8**
Stddev	19.6	22.4	59.	13.0
%RSD	.52736	.78184	.22401	.47333
#1	3709.0	2851.9	26495.	2742.6
#2	3736.8	2883.6	26411.	2761.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.203%	99.801%	99.552%	102.22%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 14:06:51 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97164**	**49.026**	**.98208**	**1.0145**	**.97074**
Stddev	.00141	.106	.00002	.0021	.00152
%RSD	.14469	.21697	.00245	.20271	.15696
#1	.97264	49.101	.98210	1.0159	.97182
#2	.97065	48.951	.98206	1.0130	.96967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98599**	**48.575**	**.97243**	**1.006**	**.95132**
Stddev	.00195	.081	.00108	.037	.00018
%RSD	.19776	.16665	.11136	3.700	.01920
#1	.98737	48.632	.97167	1.032	.95119
#2	.98461	48.518	.97320	.9793	.95145
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97819**	**.96492**	**48.549**	**47.978**	**.96385**
Stddev	.00117	.00130	.151	.100	.00358
%RSD	.11970	.13447	.31056	.20778	.37133
#1	.97736	.96400	48.442	48.049	.96638
#2	.97902	.96584	48.656	47.908	.96132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 14:06:51 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.457**	**.96257**	**.99101**	**48.182**	**.95923**
Stddev	.062	.00046	.00229	.108	.00010
%RSD	.13131	.04805	.23138	.22315	.01062
#1	47.501	.96224	.99263	48.258	.95930
#2	47.413	.96289	.98939	48.106	.95916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.31**	**.95480**	**24.629**	**.98078**	**.98405**
Stddev	.00	.00271	.016	.00285	.00008
%RSD	.0125	.28413	.06466	.29027	.00779
#1	37.31	.95288	24.640	.97877	.98400
#2	37.30	.95672	24.617	.98279	.98410
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7337**	**.95943**	**.96846**	**1.501**	**.97119**
Stddev	.0428	.00165	.00236	.006	.00044
%RSD	.44009	.17199	.24373	.3934	.04574
#1	9.7640	.96060	.97013	1.505	.97088
#2	9.7034	.95826	.96679	1.496	.97151
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 14:06:51 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.97611**	**.97416**	**.99558**	**1.503**
Stddev	.00366	.00122	.00111	.000
%RSD	.37514	.12475	.11192	.0070
#1	.97870	.97330	.99637	1.503
#2	.97352	.97501	.99479	1.504
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3381.5**	**2795.5**	**25402.**	**2757.9**
Stddev	7.9	7.6	18.	.5
%RSD	.23216	.27211	.07148	.01731
#1	3387.1	2800.9	25389.	2757.6
#2	3376.0	2790.1	25415.	2758.3

Sample Name: CCB-6825508 Acquired: 12/27/2021 14:10:24 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.01303**	**-.00129**	**-.00182**	**.00001**
Stddev	.00054	.00318	.00134	.00014	.00001
%RSD	756.54	24.410	103.85	7.8289	133.72
#1	-.00031	.01078	-.00034	-.00192	.00002
#2	.00045	.01528	-.00223	-.00172	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00083**	**.00004**	**.0349**	**.00017**
Stddev	.00006	.00037	.00013	.0009	.00004
%RSD	81.726	44.948	310.73	2.530	24.381
#1	.00012	.00057	.00013	.0355	.00020
#2	.00003	.00110	-.00005	.0342	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00149**	**-.00073**	**.07295**	**.00230**
Stddev	.00013	.00016	.00252	.05796	.00180
%RSD	66.654	10.691	344.69	79.453	78.155
#1	.00030	-.00138	.00105	.03197	.00103
#2	.00011	-.00161	-.00251	.11393	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 14:10:24 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00168**	**-.00010**	**.00145**	**.02131**	**.00005**
Stddev	.00260	.00001	.00038	.00185	.00001
%RSD	155.35	6.1462	26.177	8.6582	31.779
#1	-.00352	-.00010	.00118	.02262	.00006
#2	.00017	-.00009	.00172	.02001	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00085**	**-.00222**	**-.00016**	**.00205**
Stddev	.00	.00107	.00020	.00147	.00296
%RSD	.0009	125.78	9.0817	920.28	144.32
#1	25.02	.00161	-.00236	-.00120	.00415
#2	25.02	.00009	-.00207	.00088	-.00004
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**-.00023**	**.00018**	**1.002**	**-.00007**
Stddev	.00553	.00003	.00005	.010	.00078
%RSD	1112.4	13.801	26.794	.9861	1077.4
#1	.00441	-.00025	.00021	1.009	.00048
#2	-.00341	-.00021	.00014	.9953	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 14:10:24 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00191**	**.00045**	**-.00014**	**1.002**
Stddev	.00102	.00001	.00027	.001
%RSD	53.607	2.9383	193.23	.0733
#1	.00118	.00044	-.00033	1.001
#2	.00263	.00046	.00005	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3837.6**	**2838.6**	**26313.**	**2675.3**
Stddev	3.0	.5	9.	6.6
%RSD	.07805	.01931	.03369	.24646
#1	3835.5	2839.0	26307.	2680.0
#2	3839.8	2838.2	26319.	2670.7

Sample Name: CCVL-6825510 Acquired: 12/27/2021 14:14:13 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00525**	**.21578**	**.01220**	**.01611**	**.00197**
Stddev	.00038	.01665	.00232	.00043	.00000
%RSD	7.2199	7.7173	19.009	2.6476	.10937
#1	.00552	.22755	.01056	.01641	.00197
#2	.00498	.20400	.01384	.01581	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.48907**	**.00198**	**.0523**	**.00361**
Stddev	.00003	.00047	.00016	.0350	.00004
%RSD	1.4528	.09635	7.8608	66.90	1.0581
#1	.00203	.48874	.00209	.0771	.00358
#2	.00207	.48940	.00187	.0276	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00377**	**.00935**	**.05054**	**.42083**	**.03416**
Stddev	.00027	.00024	.00210	.02027	.00026
%RSD	7.2509	2.5749	4.1569	4.8170	.76802
#1	.00397	.00952	.04905	.43516	.03398
#2	.00358	.00918	.05202	.40649	.03435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 14:14:13 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18179**	**.00282**	**.01022**	**.95213**	**.00914**
Stddev	.00450	.00006	.00005	.00196	.00038
%RSD	2.4773	2.0990	.44417	.20627	4.1450
#1	.17861	.00278	.01018	.95074	.00941
#2	.18498	.00286	.01025	.95352	.00888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01019**	**.17930**	**.02093**	**.02487**
Stddev	.00	.00113	.00153	.00116	.00227
%RSD	.0025	11.089	.85607	5.5496	9.1262
#1	25.00	.01099	.18038	.02175	.02327
#2	25.00	.00939	.17821	.02011	.02648
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48779**	**.00868**	**.00495**	F **.9985**	**.00420**
Stddev	.01162	.00072	.00001	.0087	.00007
%RSD	2.3829	8.3134	.24588	.8668	1.7070
#1	.49600	.00920	.00494	1.005	.00425
#2	.47957	.00817	.00496	.9924	.00415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 14:14:13 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02096**	**.00462**	**.00964**	F **.9976**
Stddev	.00173	.00036	.00005	.0019
%RSD	8.2473	7.7625	.51823	.1920
#1	.02218	.00488	.00968	.9990
#2	.01974	.00437	.00961	.9963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3824.3**	**2828.9**	**26447.**	**2676.0**
Stddev	1.4	.9	11.	14.6
%RSD	.03543	.03047	.04163	.54638
#1	3823.3	2829.5	26440.	2665.6
#2	3825.3	2828.3	26455.	2686.3

Sample Name: 480-193705-C-1-B Acquired: 12/27/2021 14:17:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.50304**	**-.00098**	**.00155**	**.06587**
Stddev	.00142	.01606	.00043	.00001	.00018
%RSD	674.23	3.1925	44.025	.45325	.27000
#1	-.00122	.51439	-.00129	.00156	.06574
#2	.00079	.49168	-.00068	.00155	.06599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**7.5594**	**.00034**	**.0912**	**.00008**
Stddev	.00014	.0204	.00012	.0383	.00002
%RSD	21.460	.26964	35.641	41.98	27.657
#1	.00054	7.5450	.00026	.0642	.00007
#2	.00073	7.5738	.00043	.1183	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00941**	**.01332**	**1.2291**	**.00347**
Stddev	.00010	.00079	.00094	.0069	.00158
%RSD	35.952	8.3865	7.0827	.56267	45.566
#1	.00020	.00886	.01265	1.2340	.00459
#2	.00034	.00997	.01398	1.2243	.00235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193705-C-1-B Acquired: 12/27/2021 14:17:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9337**	**.12766**	**.00020**	**7.5091**	**.00034**
Stddev	.0022	.00012	.00007	.0349	.00031
%RSD	.11184	.09432	33.360	.46421	89.764
#1	1.9322	.12757	.00025	7.4844	.00056
#2	1.9352	.12774	.00015	7.5337	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	**.00145**	**3.9994**	**.00154**	**.00420**
Stddev	.00	.00057	.0035	.00185	.00136
%RSD	.0052	39.302	.08806	120.15	32.333
#1	25.00	.00105	3.9969	.00285	.00324
#2	25.00	.00185	4.0019	.00023	.00515
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5953**	**.00062**	**.04046**	**.9966**	**-.00015**
Stddev	.0002	.00069	.00010	.0045	.00048
%RSD	.00348	110.82	.23772	.4559	313.09
#1	4.5954	.00013	.04039	.9934	.00019
#2	4.5952	.00110	.04052	.9998	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193705-C-1-B Acquired: 12/27/2021 14:17:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00141**	**.00002**	**.01064**	**1.000**
Stddev	.00074	.00025	.00029	.003
%RSD	52.294	1283.1	2.7102	.2688
#1	.00194	.00019	.01044	.9985
#2	.00089	-.00015	.01084	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3832.1**	**2952.1**	**27415.**	**2847.7**
Stddev	17.7	12.3	12.	5.7
%RSD	.46164	.41522	.04502	.20009
#1	3819.6	2943.4	27406.	2851.7
#2	3844.6	2960.7	27424.	2843.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.025%	102.74%	103.17%	105.78%
Range				

Sample Name: 480-193705-C-2-B Acquired: 12/27/2021 14:21:44 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.03614**	**-.00082**	**.00193**	**.01630**
Stddev	.00088	.01544	.00111	.00036	.00003
%RSD	112.41	42.718	135.60	18.439	.20922
#1	-.00016	.02522	-.00160	.00218	.01633
#2	-.00140	.04706	-.00003	.00168	.01628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**1.5935**	**.00000**	**.0386**	**.00079**
Stddev	.00001	.0053	.00008	.0204	.00009
%RSD	15.816	.33283	59316.	52.72	11.207
#1	.00007	1.5897	-.00006	.0242	.00072
#2	.00009	1.5972	.00006	.0530	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00293**	**2.2268**	**.60108**	**.00181**
Stddev	.00031	.00039	.0102	.06098	.00237
%RSD	253.86	13.278	.45674	10.145	130.97
#1	.00034	.00265	2.2196	.64420	.00013
#2	-.00010	.00320	2.2340	.55796	.00348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193705-C-2-B Acquired: 12/27/2021 14:21:44 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41294**	**.10116**	**-.00012**	**11.237**	**.00038**
Stddev	.00550	.00010	.00017	.040	.00002
%RSD	1.3310	.09843	145.69	.35482	3.9816
#1	.41683	.10109	-.00024	11.209	.00037
#2	.40906	.10123	.00000	11.265	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00062**	**.64245**	**.00154**	**.00213**
Stddev	.00	.00016	.00192	.00005	.00336
%RSD	.0059	25.615	.29935	3.1372	157.69
#1	25.02	.00050	.64381	.00158	.00450
#2	25.01	.00073	.64109	.00151	-.00024
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0964**	**-.00053**	**.00931**	**.9901**	**.00056**
Stddev	.0031	.00002	.00014	.0066	.00022
%RSD	.14751	3.7947	1.4610	.6706	40.106
#1	2.0985	-.00051	.00941	.9948	.00072
#2	2.0942	-.00054	.00921	.9854	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193705-C-2-B Acquired: 12/27/2021 14:21:44 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00258**	**.00020**	**.00377**	**1.001**
Stddev	.00017	.00001	.00014	.001
%RSD	6.4302	3.4809	3.8278	.1446
#1	.00270	.00021	.00367	1.002
#2	.00247	.00020	.00387	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3875.1**	**2909.1**	**26968.**	**2842.0**
Stddev	8.5	.8	5.	.8
%RSD	.21964	.02605	.01792	.02984
#1	3881.1	2909.7	26972.	2841.4
#2	3869.0	2908.6	26965.	2842.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.13%	101.24%	101.49%	105.57%
Range				

Sample Name: 480-193705-C-3-B Acquired: 12/27/2021 14:25:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**-.00110**	**.01808**	**.02309**	**.03090**
Stddev	.00024	.01127	.00078	.00037	.00005
%RSD	39.705	1026.0	4.3262	1.6111	.16320
#1	-.00043	-.00907	.01752	.02282	.03087
#2	-.00076	.00687	.01863	.02335	.03094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**11.932**	**.00016**	**-.0007**	**.00613**
Stddev	.00001	.045	.00005	.0023	.00002
%RSD	405.77	.37379	31.800	315.0	.39795
#1	-.00001	11.900	.00020	-.0024	.00614
#2	.00001	11.963	.00013	.0009	.00611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00325**	**34.401**	**2.6474**	**.00324**
Stddev	.00025	.00092	.078	.0528	.00095
%RSD	331.03	28.358	.22574	1.9958	29.287
#1	-.00010	.00390	34.346	2.6847	.00257
#2	.00025	.00260	34.456	2.6100	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193705-C-3-B Acquired: 12/27/2021 14:25:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4140**	**.86817**	**.00330**	**17.052**	**.00671**
Stddev	.0382	.00243	.00006	.023	.00010
%RSD	1.1194	.27959	1.8263	.13356	1.4238
#1	3.3870	.86645	.00334	17.036	.00664
#2	3.4410	.86988	.00325	17.068	.00678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00444**	**.71191**	**.00328**	**.00220**
Stddev	.00	.00036	.00413	.00054	.00089
%RSD	.0031	8.2050	.58000	16.359	40.285
#1	25.05	.00470	.70899	.00290	.00158
#2	25.04	.00418	.71483	.00366	.00283
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9627**	**-.00032**	**.06291**	**1.019**	**.00006**
Stddev	.0008	.00013	.00032	.002	.00007
%RSD	.01353	40.609	.50724	.1620	113.45
#1	5.9633	-.00041	.06269	1.020	.00011
#2	5.9622	-.00023	.06314	1.017	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193705-C-3-B Acquired: 12/27/2021 14:25:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00271**	**.00086**	**.01023**	**.9998**
Stddev	.00047	.00023	.00007	.0006
%RSD	17.160	27.065	.72043	.0574
#1	.00304	.00103	.01029	.9994
#2	.00238	.00070	.01018	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3715.3**	**2860.5**	**26508.**	**2781.9**
Stddev	6.2	4.1	21.	10.5
%RSD	.16778	.14433	.07941	.37767
#1	3719.7	2863.5	26523.	2789.4
#2	3710.9	2857.6	26493.	2774.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.007%	99.551%	99.760%	103.34%
Range				

Sample Name: 480-193705-C-4-B Acquired: 12/27/2021 14:29:12 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.01373**	**.00008**	**.02312**	**.01993**
Stddev	.00038	.02562	.00198	.00031	.00006
%RSD	2028.0	186.62	2453.0	1.3563	.31459
#1	.00028	-.00439	.00148	.02290	.01997
#2	-.00025	.03185	-.00132	.02335	.01989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**10.007**	**.00013**	**.0439**	**.00211**
Stddev	.00012	.034	.00002	.0505	.00006
%RSD	400.98	.34340	11.942	115.1	2.8538
#1	-.00005	10.032	.00012	.0082	.00206
#2	.00011	9.9830	.00014	.0796	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00565**	**8.7163**	**2.4880**	**.00200**
Stddev	.00067	.00091	.0034	.0122	.00390
%RSD	387.18	16.102	.03924	.48858	195.05
#1	.00030	.00629	8.7187	2.4794	-.00076
#2	-.00065	.00501	8.7139	2.4966	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193705-C-4-B Acquired: 12/27/2021 14:29:12 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0517**	**.98822**	**.00079**	**6.2249**	**.00117**
Stddev	.0112	.00339	.00014	.0212	.00025
%RSD	.54526	.34280	18.025	.34088	21.437
#1	2.0596	.99061	.00089	6.2399	.00099
#2	2.0438	.98582	.00069	6.2098	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00188**	**.60482**	**.00171**	**.00068**
Stddev	.00	.00025	.00147	.00039	.00072
%RSD	.0005	13.566	.24229	22.621	105.13
#1	25.03	.00170	.60586	.00144	.00017
#2	25.03	.00206	.60379	.00199	.00119
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.7141**	**.00006**	**.05290**	**.9997**	**.00027**
Stddev	.0080	.00009	.00005	.0037	.00022
%RSD	.21595	160.77	.09289	.3702	79.991
#1	3.7198	-.00001	.05294	.9971	.00012
#2	3.7084	.00012	.05287	1.002	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193705-C-4-B Acquired: 12/27/2021 14:29:12 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00184**	**-.00011**	**.00657**	**1.000**
Stddev	.00094	.00049	.00023	.000
%RSD	51.300	446.35	3.5679	.0353
#1	.00251	.00024	.00641	.9999
#2	.00117	-.00046	.00674	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3795.1**	**2865.8**	**26463.**	**2739.6**
Stddev	15.0	9.4	75.	7.5
%RSD	.39619	.32832	.28373	.27295
#1	3784.4	2859.2	26410.	2734.3
#2	3805.7	2872.5	26517.	2744.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.067%	99.734%	99.592%	101.77%
Range				

Sample Name: 480-193715-B-1-A Acquired: 12/27/2021 14:32:56 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.03624**	**-.00294**	**.25268**	**.12789**
Stddev	.00004	.00363	.00286	.00010	.00059
%RSD	23.172	10.022	97.311	.04077	.46493
#1	-.00015	.03367	-.00496	.25275	.12831
#2	-.00021	.03881	-.00092	.25260	.12747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**38.291**	**.00079**	**-.0001**	**.00007**
Stddev	.00008	.140	.00000	.0129	.00009
%RSD	105.77	.36506	.28680	9900.	129.44
#1	.00014	38.390	.00079	-.0093	.00014
#2	.00002	38.192	.00079	.0090	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00032**	**.00919**	**2.6034**	**.01801**
Stddev	.00011	.00058	.00133	.0136	.00205
%RSD	28.950	181.85	14.525	.52101	11.404
#1	.00029	-.00009	.00824	2.5938	.01946
#2	.00044	.00073	.01013	2.6130	.01656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-1-A Acquired: 12/27/2021 14:32:56 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**85.036**	**.02106**	**-.00017**	**28.007**	**-.00014**
Stddev	.351	.00013	.00009	.035	.00027
%RSD	.41267	.59889	55.505	.12617	200.84
#1	85.284	.02115	-.00024	28.032	.00006
#2	84.788	.02097	-.00010	27.982	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00404**	**3.5117**	**.00040**	**.00086**
Stddev	.00	.00064	.0051	.00163	.00257
%RSD	.0061	15.949	.14559	411.99	297.89
#1	25.05	.00450	3.5153	-.00076	.00268
#2	25.05	.00359	3.5081	.00155	-.00095
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.991**	**-.00056**	**.60785**	**.9895**	**.00082**
Stddev	.034	.00032	.00061	.0073	.00012
%RSD	.20024	57.521	.10039	.7350	14.832
#1	17.015	-.00033	.60828	.9844	.00091
#2	16.967	-.00079	.60741	.9947	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-1-A Acquired: 12/27/2021 14:32:56 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00280**	**-.00086**	**.00272**	**1.000**
Stddev	.00055	.00021	.00033	.002
%RSD	19.628	23.950	12.246	.2142
#1	.00241	-.00071	.00295	1.002
#2	.00318	-.00100	.00248	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3485.2**	**2758.4**	**25640.**	**2729.2**
Stddev	7.9	5.2	93.	25.2
%RSD	.22626	.18842	.36364	.92257
#1	3479.6	2754.8	25574.	2711.4
#2	3490.7	2762.1	25706.	2747.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.059%	95.997%	96.494%	101.38%
Range				

Sample Name: 480-193715-B-1-ASD@5 Acquired: 12/27/2021 14:36:38 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.01254**	**-.00082**	**.04373**	**.02622**
Stddev	.00011	.01075	.00054	.00027	.00004
%RSD	17.810	85.756	65.205	.61229	.13990
#1	.00054	.00494	-.00120	.04354	.02619
#2	.00070	.02015	-.00044	.04392	.02624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**7.7794**	**.00033**	**.0651**	**.00005**
Stddev	.00006	.0017	.00007	.0426	.00018
%RSD	85.960	.02168	21.930	65.46	350.41
#1	.00003	7.7782	.00038	.0952	-.00007
#2	.00011	7.7806	.00027	.0350	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00232**	**.00159**	**.51860**	**.00451**
Stddev	.00058	.00032	.00181	.02771	.00069
%RSD	382.04	13.709	113.72	5.3427	15.328
#1	.00056	.00255	.00287	.49901	.00500
#2	-.00026	.00210	.00031	.53819	.00402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-1-ASD@5 Acquired: 12/27/2021 14:36:38 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.725**	**.00443**	**-.00048**	**5.6621**	**-.00005**
Stddev	.010	.00003	.00012	.0540	.00023
%RSD	.06163	.77768	24.884	.95342	476.83
#1	16.717	.00440	-.00040	5.7003	-.00021
#2	16.732	.00445	-.00057	5.6239	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00175**	**.68522**	**.00107**	**-.00113**
Stddev	.00	.00198	.00505	.00050	.00255
%RSD	.0005	113.14	.73680	46.697	224.47
#1	25.03	.00315	.68878	.00072	.00067
#2	25.03	.00035	.68165	.00142	-.00293
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3620**	**-.00013**	**.12439**	**1.002**	**-.00020**
Stddev	.0049	.00020	.00006	.001	.00012
%RSD	.14636	145.38	.05160	.1060	60.718
#1	3.3654	-.00027	.12444	1.003	-.00011
#2	3.3585	.00000	.12435	1.002	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-1-ASD@5 Acquired: 12/27/2021 14:36:38 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00092**	**-.00048**	**.00031**	**.9998**
Stddev	.00045	.00011	.00016	.0011
%RSD	48.686	23.299	49.759	.1110
#1	.00124	-.00056	.00042	1.001
#2	.00060	-.00040	.00020	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3720.3**	**2818.1**	**26198.**	**2725.0**
Stddev	6.6	9.8	27.	3.9
%RSD	.17702	.34712	.10267	.14280
#1	3715.6	2811.2	26217.	2722.3
#2	3724.9	2825.0	26179.	2727.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.135%	98.074%	98.593%	101.23%
Range				

Sample Name: 480-193715-B-1-APDS Acquired: 12/27/2021 14:40:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04663**	**9.7790**	**.20166**	**.44790**	**.32085**
Stddev	.00042	.0201	.00118	.00088	.00069
%RSD	.90309	.20517	.58742	.19725	.21600
#1	.04634	9.7932	.20250	.44852	.32036
#2	.04693	9.7648	.20083	.44727	.32134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20817**	**47.090**	**.19671**	**.0966**	**.18630**
Stddev	.00033	.233	.00042	.0214	.00022
%RSD	.15930	.49378	.21193	22.13	.12030
#1	.20840	47.254	.19700	.1117	.18646
#2	.20793	46.925	.19641	.0815	.18614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19081**	**.19142**	**9.6363**	**12.064**	**.20878**
Stddev	.00034	.00035	.0301	.030	.00183
%RSD	.17559	.18183	.31242	.24494	.87448
#1	.19058	.19118	9.6575	12.085	.20749
#2	.19105	.19167	9.6150	12.043	.21007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-1-APDS Acquired: 12/27/2021 14:40:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**94.658**	**.21408**	**.19968**	**36.967**	**.18693**
Stddev	.197	.00055	.00089	.126	.00028
%RSD	.20774	.25715	.44412	.34090	.14817
#1	94.519	.21369	.20031	37.056	.18713
#2	94.797	.21447	.19905	36.878	.18673
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.67**	**.19848**	**13.194**	**.20523**	**.19372**
Stddev	.00	.00010	.006	.00132	.00360
%RSD	.0016	.05039	.04457	.64179	1.8602
#1	24.67	.19841	13.198	.20616	.19117
#2	24.67	.19855	13.190	.20430	.19626
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.120**	**.18860**	**.79000**	**.9975**	**.19705**
Stddev	.137	.00033	.00262	.0050	.00017
%RSD	.52303	.17453	.33178	.4981	.08562
#1	26.217	.18837	.79186	.9940	.19693
#2	26.024	.18884	.78815	1.001	.19717
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-1-APDS Acquired: 12/27/2021 14:40:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19819**	**.19246**	**.19809**	**1.007**
Stddev	.00023	.00049	.00043	.001
%RSD	.11517	.25581	.21572	.0680
#1	.19835	.19281	.19839	1.007
#2	.19803	.19211	.19779	1.008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3459.8**	**2805.9**	**25867.**	**2793.7**
Stddev	4.9	1.7	71.	46.7
%RSD	.14252	.06184	.27274	1.6715
#1	3463.3	2807.1	25917.	2760.7
#2	3456.3	2804.7	25817.	2826.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.403%	97.649%	97.348%	103.78%
Range				

Sample Name: 480-193715-B-1-B MS Acquired: 12/27/2021 14:43:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04878**	**10.241**	**.20852**	**.47012**	**.33220**
Stddev	.00095	.075	.00055	.00111	.00062
%RSD	1.9408	.73473	.26513	.23709	.18522
#1	.04945	10.188	.20813	.46933	.33263
#2	.04811	10.294	.20891	.47091	.33176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21928**	**49.892**	**.20222**	**.0086**	**.19220**
Stddev	.00090	.187	.00004	.0012	.00001
%RSD	.40977	.37498	.02170	13.69	.00555
#1	.21865	49.760	.20219	.0077	.19219
#2	.21992	50.024	.20225	.0094	.19221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20080**	**.19502**	**9.9637**	**12.642**	**.21391**
Stddev	.00041	.00057	.0179	.068	.00053
%RSD	.20434	.29153	.17959	.53630	.24753
#1	.20109	.19542	9.9511	12.594	.21353
#2	.20051	.19461	9.9764	12.690	.21428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-1-B MS Acquired: 12/27/2021 14:43:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**98.429**	**.21748**	**.20825**	**38.680**	**.19147**
Stddev	.282	.00062	.00042	.038	.00030
%RSD	.28647	.28678	.20327	.09825	.15508
#1	98.629	.21792	.20855	38.653	.19168
#2	98.230	.21704	.20795	38.707	.19126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.67**	**.20349**	**13.726**	**.21798**	**.20060**
Stddev	.00	.00088	.016	.00304	.00070
%RSD	.0025	.43278	.11336	1.3953	.34735
#1	24.67	.20411	13.715	.22014	.20011
#2	24.67	.20287	13.737	.21583	.20109
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.927**	**.19395**	**.82438**	**.9976**	**.20357**
Stddev	.012	.00013	.00020	.0034	.00002
%RSD	.04290	.06570	.02382	.3411	.01147
#1	26.935	.19386	.82452	.9952	.20359
#2	26.919	.19404	.82424	1.0000	.20356
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-1-B MS Acquired: 12/27/2021 14:43:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20526**	**.20093**	**.20468**	**1.001**
Stddev	.00039	.00174	.00086	.002
%RSD	.19112	.86643	.41800	.1956
#1	.20554	.20216	.20408	1.003
#2	.20498	.19970	.20529	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3415.4**	**2775.8**	**25483.**	**2751.1**
Stddev	5.2	5.0	39.	30.1
%RSD	.15149	.17926	.15458	1.0926
#1	3411.7	2772.3	25455.	2772.4
#2	3419.1	2779.3	25511.	2729.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.256%	96.601%	95.902%	102.20%
Range				

Sample Name: 480-193715-B-1-C MSD Acquired: 12/27/2021 14:47:34 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04891**	**10.079**	**.20468**	**.45912**	**.32902**
Stddev	.00004	.025	.00115	.00094	.00005
%RSD	.07837	.25236	.56201	.20489	.01489
#1	.04893	10.097	.20386	.45978	.32906
#2	.04888	10.061	.20549	.45845	.32899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21470**	**48.961**	**.20070**	**.0082**	**.18973**
Stddev	.00064	.162	.00018	.0453	.00020
%RSD	.29946	.33186	.08912	551.5	.10373
#1	.21425	48.847	.20083	-.0238	.18959
#2	.21516	49.076	.20058	.0403	.18987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19650**	**.19346**	**9.8447**	**12.505**	**.21427**
Stddev	.00077	.00146	.0036	.010	.00116
%RSD	.39390	.75616	.03626	.08162	.54133
#1	.19595	.19242	9.8422	12.498	.21345
#2	.19704	.19449	9.8472	12.512	.21509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-1-C MSD Acquired: 12/27/2021 14:47:34 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**96.928**	**.21624**	**.20477**	**38.212**	**.18959**
Stddev	.119	.00052	.00135	.132	.00051
%RSD	.12252	.24123	.65753	.34466	.27067
#1	96.844	.21588	.20572	38.119	.18923
#2	97.012	.21661	.20382	38.305	.18995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.67**	**.20015**	**13.456**	**.21414**	**.20088**
Stddev	.00	.00150	.047	.00183	.00231
%RSD	.0012	.74804	.35096	.85589	1.1509
#1	24.67	.19909	13.489	.21543	.19924
#2	24.67	.20121	13.422	.21284	.20251
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.069**	**.19110**	**.81414**	**.9897**	**.20129**
Stddev	.114	.00031	.00171	.0050	.00029
%RSD	.47532	.16100	.21053	.5102	.14500
#1	23.988	.19132	.81293	.9933	.20108
#2	24.150	.19088	.81535	.9861	.20149
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-1-C MSD Acquired: 12/27/2021 14:47:34 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20309**	**.19791**	**.20198**	**.9999**
Stddev	.00097	.00045	.00007	.0002
%RSD	.47884	.22805	.03387	.0170
#1	.20378	.19759	.20193	.9997
#2	.20241	.19823	.20203	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3409.5**	**2762.2**	**25348.**	**2715.6**
Stddev	1.5	2.3	111.	1.1
%RSD	.04380	.08360	.43884	.03924
#1	3410.6	2760.5	25426.	2714.8
#2	3408.5	2763.8	25269.	2716.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.104%	96.127%	95.393%	100.87%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 14:51:11 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97298**	**49.605**	**.97703**	**1.0102**	**.97690**
Stddev	.00004	.421	.00513	.0017	.00709
%RSD	.00398	.84913	.52479	.16670	.72585
#1	.97295	49.903	.97340	1.0090	.98191
#2	.97301	49.307	.98066	1.0114	.97189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99272**	**48.851**	**.98112**	**.9602**	**.94593**
Stddev	.00861	.321	.00151	.0354	.00196
%RSD	.86772	.65697	.15409	3.691	.20725
#1	.99881	49.078	.98005	.9852	.94732
#2	.98663	48.624	.98219	.9351	.94454
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97845**	**.96676**	**48.718**	**48.371**	**.98468**
Stddev	.00470	.00368	.382	.403	.00724
%RSD	.48034	.38025	.78317	.83231	.73518
#1	.98177	.96936	48.988	48.656	.98980
#2	.97512	.96416	48.449	48.087	.97956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 14:51:11 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.115**	**.96539**	**.99193**	**48.715**	**.95424**
Stddev	.076	.00077	.00042	.222	.00279
%RSD	.16138	.07961	.04191	.45472	.29212
#1	47.169	.96594	.99222	48.872	.95621
#2	47.062	.96485	.99163	48.558	.95227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.34**	**.94537**	**24.317**	**.97986**	**.96631**
Stddev	.01	.00039	.011	.00192	.00015
%RSD	.0208	.04168	.04546	.19620	.01550
#1	37.34	.94565	24.309	.98122	.96642
#2	37.35	.94509	24.325	.97850	.96621
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7865**	**.94502**	**.97781**	**1.509**	**.97371**
Stddev	.0564	.00151	.00513	.007	.00209
%RSD	.57657	.15932	.52505	.4698	.21484
#1	9.8264	.94608	.98144	1.514	.97519
#2	9.7466	.94395	.97418	1.504	.97223
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 14:51:11 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.95858**	**.97458**	**.98552**	**1.515**
Stddev	.00422	.00108	.00035	.000
%RSD	.44065	.11032	.03586	.0251
#1	.96157	.97534	.98577	1.514
#2	.95559	.97382	.98527	1.515
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3343.1**	**2741.1**	**24799.**	**2657.8**
Stddev	9.9	2.0	77.	9.5
%RSD	.29585	.07332	.31124	.35627
#1	3336.1	2739.7	24854.	2651.1
#2	3350.1	2742.5	24745.	2664.5

Sample Name: CCB-6825508 Acquired: 12/27/2021 14:54:44 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00542**	**-.00063**	**-.00698**	**.00005**
Stddev	.00007	.01495	.00141	.00031	.00001
%RSD	23.809	276.15	224.19	4.4068	14.815
#1	.00036	-.00516	-.00163	-.00720	.00006
#2	.00026	.01599	.00037	-.00676	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00179**	**.00011**	**.0110**	**.00004**
Stddev	.00006	.00200	.00007	.0239	.00011
%RSD	44.539	111.93	62.193	218.2	242.23
#1	.00009	-.00321	.00016	-.0059	-.00003
#2	.00018	-.00037	.00006	.0278	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00175**	**.00250**	**-.02889**	**.00210**
Stddev	.00051	.00027	.00094	.04103	.00169
%RSD	457.84	15.401	37.546	142.00	80.413
#1	.00047	.00195	.00317	-.05791	.00329
#2	-.00025	.00156	.00184	.00012	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 14:54:44 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00156**	**-.00009**	**.00139**	**.02689**	**.00005**
Stddev	.00206	.00004	.00027	.00206	.00007
%RSD	131.59	44.417	19.699	7.6636	148.50
#1	-.00302	-.00012	.00119	.02835	-.00000
#2	-.00011	-.00006	.00158	.02544	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00055**	**.00165**	**-.00000**	**.00384**
Stddev	.00	.00090	.00258	.00130	.00144
%RSD	.0039	161.86	156.78	333870.	37.542
#1	25.02	.00119	.00347	.00092	.00485
#2	25.02	-.00008	-.00018	-.00092	.00282
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00875**	**-.00044**	**.00007**	**.9992**	**-.00034**
Stddev	.01540	.00032	.00004	.0048	.00013
%RSD	175.94	73.359	55.304	.4828	38.860
#1	.00214	-.00067	.00004	1.003	-.00025
#2	-.01964	-.00021	.00010	.9958	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 14:54:44 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00150**	**.00011**	**-.00031**	**1.000**
Stddev	.00030	.00039	.00001	.000
%RSD	20.139	349.43	2.4332	.0393
#1	.00171	-.00017	-.00032	.9999
#2	.00128	.00039	-.00031	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3890.1**	**2868.3**	**26736.**	**2741.7**
Stddev	2.3	6.6	83.	2.9
%RSD	.05829	.23122	.30975	.10545
#1	3888.5	2863.6	26677.	2739.7
#2	3891.7	2873.0	26794.	2743.8

Sample Name: CCVL-6825510 Acquired: 12/27/2021 14:58:32 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00599**	**.19533**	**.01266**	W **.01175**	**.00201**
Stddev	.00016	.00298	.00103	.00013	.00003
%RSD	2.6675	1.5239	8.1519	1.1387	1.4576
#1	.00588	.19323	.01193	.01184	.00203
#2	.00610	.19744	.01339	.01165	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.02000	
Range				-30.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.49358**	**.00209**	**-.0078**	**.00369**
Stddev	.00008	.00528	.00008	.0334	.00012
%RSD	3.9708	1.0689	3.8238	430.5	3.1490
#1	.00217	.48985	.00203	.0159	.00377
#2	.00206	.49732	.00214	-.0314	.00360
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00412**	**.01014**	**.04952**	**.40238**	**.02925**
Stddev	.00001	.00118	.00135	.00203	.00019
%RSD	.21324	11.657	2.7214	.50394	.64275
#1	.00413	.01098	.04857	.40382	.02938
#2	.00411	.00931	.05047	.40095	.02911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 14:58:32 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18421**	**.00283**	**.01037**	**.96752**	**.00916**
Stddev	.00045	.00001	.00043	.00049	.00013
%RSD	.24364	.45625	4.1897	.05106	1.4403
#1	.18390	.00282	.01006	.96717	.00907
#2	.18453	.00284	.01067	.96787	.00925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00937**	**.18227**	**.01880**	**.02302**
Stddev	.00	.00051	.00241	.00017	.00610
%RSD	.0051	5.4120	1.3201	.88484	26.483
#1	25.00	.00901	.18057	.01891	.01871
#2	25.00	.00972	.18397	.01868	.02733
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48569**	**.00855**	**.00490**	F **.9944**	**.00446**
Stddev	.00896	.00029	.00003	.0090	.00001
%RSD	1.8450	3.3603	.52269	.9034	.33022
#1	.47935	.00875	.00488	.9881	.00447
#2	.49203	.00835	.00492	1.001	.00445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 14:58:32 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01927**	**.00485**	**.00916**	F **1.000**
Stddev	.00038	.00006	.00007	.000
%RSD	1.9558	1.2612	.80884	.0013
#1	.01900	.00480	.00922	1.000
#2	.01953	.00489	.00911	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3841.4**	**2860.6**	**26672.**	**2761.7**
Stddev	3.1	3.8	87.	18.8
%RSD	.07999	.13280	.32773	.68030
#1	3843.6	2863.2	26734.	2775.0
#2	3839.3	2857.9	26610.	2748.5

Sample Name: 480-193715-B-2-A Acquired: 12/27/2021 15:02:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.01300**	**-.00129**	**.22460**	**.06491**
Stddev	.00145	.04447	.00031	.00034	.00002
%RSD	553.32	341.96	24.291	.14979	.03056
#1	.00128	-.01844	-.00106	.22436	.06493
#2	-.00076	.04445	-.00151	.22484	.06490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**41.876**	**.00080**	**.0483**	**.00034**
Stddev	.00001	.024	.00005	.0090	.00010
%RSD	101.43	.05716	6.1297	18.63	29.903
#1	-.00002	41.892	.00076	.0547	.00041
#2	-.00000	41.859	.00083	.0420	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**.00007**	**.03304**	**2.3106**	**.01351**
Stddev	.00002	.00036	.00256	.0497	.00247
%RSD	2.2539	501.51	7.7452	2.1491	18.299
#1	.00109	.00033	.03485	2.3457	.01176
#2	.00106	-.00018	.03123	2.2755	.01526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-2-A Acquired: 12/27/2021 15:02:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.616**	**.03418**	**.00084**	**23.812**	**.00016**
Stddev	.013	.00003	.00021	.058	.00021
%RSD	.01897	.07688	25.045	.24552	131.10
#1	68.607	.03416	.00069	23.770	.00030
#2	68.625	.03419	.00098	23.853	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00454**	**2.0461**	**-.00081**	**.00204**
Stddev	.00	.00055	.0018	.00232	.00039
%RSD	.0002	12.071	.08755	286.14	19.357
#1	25.05	.00415	2.0449	-.00245	.00176
#2	25.05	.00493	2.0474	.00083	.00231
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.664**	**-.00011**	**.51709**	**.9971**	**.00055**
Stddev	.035	.00002	.00061	.0078	.00017
%RSD	.27682	16.261	.11803	.7798	31.726
#1	12.689	-.00009	.51666	.9916	.00067
#2	12.639	-.00012	.51752	1.003	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-2-A Acquired: 12/27/2021 15:02:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00132**	**-.00120**	**.00142**	**.9999**
Stddev	.00059	.00018	.00034	.0013
%RSD	44.748	15.168	24.224	.1313
#1	.00090	-.00107	.00117	.9989
#2	.00173	-.00133	.00166	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3498.4**	**2763.6**	**25524.**	**2713.6**
Stddev	3.6	2.0	40.	4.9
%RSD	.10203	.07292	.15764	.17896
#1	3495.9	2762.1	25553.	2717.1
#2	3500.9	2765.0	25496.	2710.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.401%	96.175%	96.058%	100.80%
Range				

Sample Name: 480-193715-B-3-A Acquired: 12/27/2021 15:06:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**.01564**	**.00057**	**.07624**	**.02514**
Stddev	.00058	.02046	.00213	.00032	.00006
%RSD	75.891	130.79	370.59	.42560	.22867
#1	.00035	.00118	-.00093	.07601	.02518
#2	.00117	.03011	.00208	.07647	.02510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**477.37**	**.00087**	**.0129**	**.00905**
Stddev	.00006	.35	.00005	.0167	.00006
%RSD	80.511	.07322	5.8015	129.1	.70207
#1	-.00011	477.13	.00091	.0248	.00909
#2	-.00003	477.62	.00083	.0011	.00900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00633**	**.00648**	**6.5659**	**.09769**
Stddev	.00035	.00040	.00487	.0524	.00158
%RSD	34.644	6.2989	75.103	.79861	1.6220
#1	.00126	.00661	.00304	6.5288	.09881
#2	.00076	.00605	.00992	6.6030	.09657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-3-A Acquired: 12/27/2021 15:06:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**248.49**	**.59594**	**-.00003**	**22.326**	**.01832**
Stddev	.30	.00042	.00019	.125	.00034
%RSD	.11900	.07028	552.09	.55836	1.8713
#1	248.70	.59624	-.00017	22.238	.01856
#2	248.28	.59565	.00010	22.414	.01808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00433**	F **272.06**	**.00189**	**.00012**
Stddev	.00	.00076	.02	.00163	.00167
%RSD	.0033	17.452	.00725	86.059	1432.2
#1	25.02	.00379	272.05	.00305	.00130
#2	25.02	.00486	272.08	.00074	-.00107
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.447**	**-.00013**	**.83472**	**.9810**	**.00260**
Stddev	.055	.00034	.00544	.0058	.00014
%RSD	.48317	266.49	.65214	.5954	5.3506
#1	11.408	-.00037	.83088	.9852	.00270
#2	11.486	.00011	.83857	.9769	.00250
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-3-A Acquired: 12/27/2021 15:06:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00196**	**-.00197**	**.01068**	**1.000**
Stddev	.00056	.00063	.00001	.001
%RSD	28.692	32.260	.11840	.0876
#1	.00236	-.00241	.01067	1.001
#2	.00156	-.00152	.01069	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3103.4**	**2542.8**	**23821.**	**2647.6**
Stddev	6.9	.7	69.	.7
%RSD	.22385	.02719	.28908	.02767
#1	3098.5	2543.3	23772.	2648.1
#2	3108.3	2542.3	23870.	2647.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.194%	88.493%	89.647%	98.350%
Range				

Sample Name: 480-193715-B-4-A Acquired: 12/27/2021 15:09:55 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**.03415**	**-.00067**	**.18768**	**.07268**
Stddev	.00017	.00560	.00006	.00051	.00012
%RSD	24.883	16.391	9.3357	.27147	.16003
#1	.00079	.03019	-.00071	.18804	.07260
#2	.00055	.03810	-.00062	.18732	.07276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**57.017**	**.00084**	**.0311**	**.00029**
Stddev	.00012	.259	.00009	.0387	.00020
%RSD	238.68	.45453	11.351	124.1	70.152
#1	-.00003	57.201	.00077	.0585	.00014
#2	.00013	56.834	.00090	.0038	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00191**	**.01280**	**2.0655**	**.01524**
Stddev	.00050	.00064	.00213	.0442	.00061
%RSD	102.52	33.278	16.634	2.1418	4.0310
#1	.00084	.00236	.01431	2.0968	.01567
#2	.00013	.00146	.01130	2.0342	.01481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-4-A Acquired: 12/27/2021 15:09:55 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**83.468**	**.01318**	**-.00016**	**18.771**	**-.00002**
Stddev	.135	.00006	.00022	.132	.00044
%RSD	.16232	.48842	132.66	.70335	2019.7
#1	83.372	.01313	-.00001	18.864	.00029
#2	83.563	.01322	-.00032	18.678	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00394**	**17.519**	**.00048**	**.00079**
Stddev	.00	.00053	.014	.00119	.00286
%RSD	.0047	13.535	.07717	246.24	360.13
#1	25.03	.00432	17.510	-.00036	-.00123
#2	25.03	.00356	17.529	.00133	.00281
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.397**	**-.00003**	**.54943**	**.9935**	**.00046**
Stddev	.055	.00015	.00146	.0013	.00030
%RSD	.41195	550.14	.26545	.1348	65.160
#1	13.436	-.00013	.55046	.9925	.00068
#2	13.358	.00008	.54840	.9944	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-4-A Acquired: 12/27/2021 15:09:55 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00156**	**-.00071**	**.00201**	**1.000**
Stddev	.00017	.00005	.00007	.001
%RSD	10.753	6.7193	3.3329	.0681
#1	.00144	-.00068	.00196	1.001
#2	.00168	-.00074	.00206	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3483.7**	**2743.0**	**25566.**	**2740.0**
Stddev	3.5	3.2	40.	15.4
%RSD	.09947	.11629	.15474	.56150
#1	3481.2	2740.7	25594.	2729.1
#2	3486.1	2745.3	25538.	2750.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.021%	95.460%	96.214%	101.78%
Range				

Sample Name: 480-193715-B-5-A Acquired: 12/27/2021 15:13:38 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00809**	**-.00120**	**.25241**	**.12399**
Stddev	.00022	.04864	.00126	.00042	.00024
%RSD	90.709	601.47	105.44	.16553	.19177
#1	-.00040	.04248	-.00209	.25212	.12382
#2	-.00009	-.02631	-.00030	.25271	.12415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**50.441**	**.00091**	**.0215**	**.00051**
Stddev	.00007	.189	.00015	.0272	.00023
%RSD	279.61	.37457	16.939	126.3	44.678
#1	-.00002	50.307	.00102	.0408	.00068
#2	.00008	50.574	.00080	.0023	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00225**	**.01632**	**2.5227**	**.01795**
Stddev	.00004	.00001	.00068	.0149	.00029
%RSD	9.6462	.39551	4.1613	.58928	1.6314
#1	.00039	.00224	.01680	2.5122	.01816
#2	.00045	.00226	.01584	2.5332	.01774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-5-A Acquired: 12/27/2021 15:13:38 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**91.036**	**.02725**	**-.00002**	**24.996**	**.00197**
Stddev	.140	.00002	.00007	.104	.00010
%RSD	.15424	.07729	290.57	.41699	5.3179
#1	90.937	.02727	.00002	24.922	.00190
#2	91.135	.02724	-.00007	25.070	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00322**	**12.778**	**-.00049**	**.00024**
Stddev	.00	.00199	.007	.00302	.00308
%RSD	.0006	61.883	.05184	616.70	1291.0
#1	25.03	.00462	12.773	.00164	.00242
#2	25.03	.00181	12.783	-.00262	-.00194
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.812**	**-.00013**	**.56425**	**.9872**	**.00056**
Stddev	.010	.00023	.00202	.0088	.00019
%RSD	.06944	176.06	.35753	.8924	33.814
#1	14.819	.00003	.56282	.9934	.00070
#2	14.804	-.00030	.56568	.9809	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-5-A Acquired: 12/27/2021 15:13:38 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00236**	**-.00116**	**.00309**	**1.001**
Stddev	.00112	.00007	.00040	.001
%RSD	47.413	6.3114	12.938	.0493
#1	.00157	-.00121	.00281	1.001
#2	.00315	-.00111	.00337	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3484.5**	**2776.9**	**25614.**	**2788.5**
Stddev	1.7	3.2	111.	3.5
%RSD	.04753	.11451	.43474	.12490
#1	3483.4	2774.7	25693.	2791.0
#2	3485.7	2779.2	25536.	2786.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.043%	96.641%	96.397%	103.59%
Range				

Sample Name: 480-193715-B-6-A Acquired: 12/27/2021 15:17:20 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.01718**	**-.00201**	**.01219**	**.38326**
Stddev	.00020	.02084	.00164	.00046	.00023
%RSD	34.048	121.30	81.352	3.7654	.05897
#1	.00074	.03192	-.00085	.01187	.38310
#2	.00045	.00245	-.00317	.01252	.38342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**166.49**	**.00051**	**-.0078**	**.00007**
Stddev	.00019	1.39	.00004	.0131	.00011
%RSD	371.30	.83366	6.9848	167.3	156.10
#1	.00019	165.51	.00053	.0014	.00015
#2	-.00008	167.47	.00048	-.0171	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00090**	**7.8259**	**3.0182**	**.01319**
Stddev	.00065	.00075	.0006	.0085	.00458
%RSD	83.050	83.690	.00739	.28307	34.745
#1	.00033	.00037	7.8263	3.0242	.00995
#2	.00125	.00143	7.8255	3.0121	.01643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-6-A Acquired: 12/27/2021 15:17:20 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.267**	**.43141**	**-.00035**	**19.862**	**.00025**
Stddev	.071	.00004	.00021	.119	.00024
%RSD	.12348	.00970	60.397	.59951	94.469
#1	57.217	.43144	-.00050	19.777	.00008
#2	57.317	.43138	-.00020	19.946	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00433**	**5.2176**	**.00439**	**.00235**
Stddev	.00	.00078	.0040	.00247	.00247
%RSD	.0030	18.063	.07733	56.137	105.31
#1	25.02	.00489	5.2147	.00265	.00060
#2	25.03	.00378	5.2204	.00614	.00409
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4887**	**-.00064**	**.23719**	**.9903**	**.00090**
Stddev	.0551	.00004	.00157	.0041	.00050
%RSD	.58080	6.8692	.66207	.4099	55.358
#1	9.5277	-.00067	.23608	.9932	.00055
#2	9.4497	-.00061	.23830	.9874	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-6-A Acquired: 12/27/2021 15:17:20 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00212**	**-.00065**	**.00774**	**1.000**
Stddev	.00129	.00007	.00037	.002
%RSD	60.968	11.443	4.7623	.1474
#1	.00121	-.00059	.00748	.9993
#2	.00303	-.00070	.00800	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3412.3**	**2730.7**	**25326.**	**2751.8**
Stddev	3.7	5.6	81.	30.3
%RSD	.10975	.20634	.31879	1.0998
#1	3414.9	2734.7	25383.	2773.2
#2	3409.6	2726.7	25269.	2730.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.175%	95.032%	95.311%	102.22%
Range				

Sample Name: 480-193715-B-7-A Acquired: 12/27/2021 15:21:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.12070**	**-.00016**	**.01419**	**.09066**
Stddev	.00017	.00531	.00014	.00007	.00001
%RSD	74.465	4.3989	83.485	.50658	.01268
#1	-.00011	.12445	-.00007	.01414	.09065
#2	-.00036	.11694	-.00026	.01424	.09067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**88.192**	**.00050**	**.0590**	**.00032**
Stddev	.00012	.311	.00007	.0762	.00026
%RSD	110.36	.35279	13.817	129.1	80.169
#1	.00020	88.412	.00055	.0051	.00051
#2	.00002	87.972	.00045	.1128	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.00372**	**.10188**	**1.4729**	**.01214**
Stddev	.00032	.00159	.00511	.0285	.00062
%RSD	68.322	42.741	5.0165	1.9328	5.1410
#1	.00024	.00485	.10549	1.4528	.01170
#2	.00070	.00260	.09826	1.4931	.01258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-7-A Acquired: 12/27/2021 15:21:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**60.868**	**.00926**	**.00075**	**10.070**	**.00116**
Stddev	.068	.00006	.00006	.003	.00025
%RSD	.11146	.61613	7.9353	.02547	21.564
#1	60.916	.00930	.00079	10.068	.00098
#2	60.820	.00922	.00071	10.072	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00131**	**10.193**	**.00063**	**-.00196**
Stddev	.00	.00017	.002	.00040	.00205
%RSD	.0031	13.375	.02407	62.800	104.83
#1	25.02	.00143	10.195	.00035	-.00051
#2	25.02	.00118	10.192	.00091	-.00341
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4649**	**-.00067**	**.33094**	**.9943**	**.00426**
Stddev	.0363	.00029	.00022	.0224	.00003
%RSD	.56085	43.165	.06689	2.252	.59316
#1	6.4905	-.00046	.33078	1.010	.00424
#2	6.4393	-.00087	.33110	.9784	.00427
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-7-A Acquired: 12/27/2021 15:21:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00213**	**.00027**	**.00622**	**1.001**
Stddev	.00021	.00062	.00014	.000
%RSD	9.6109	228.96	2.2455	.0402
#1	.00199	.00071	.00632	1.000
#2	.00228	-.00017	.00612	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3474.4**	**2733.1**	**25325.**	**2696.9**
Stddev	5.8	3.4	33.	27.3
%RSD	.16755	.12299	.13070	1.0116
#1	3478.5	2735.5	25302.	2677.6
#2	3470.2	2730.8	25348.	2716.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.780%	95.117%	95.308%	100.18%
Range				

Sample Name: 480-193715-B-8-A Acquired: 12/27/2021 15:24:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.02132**	**-.00136**	**.03443**	**.09383**
Stddev	.00093	.01261	.00233	.00069	.00017
%RSD	155.74	59.159	170.89	2.0081	.17788
#1	-.00006	.03024	.00028	.03394	.09371
#2	.00126	.01240	-.00301	.03491	.09394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**117.61**	**.00070**	**.0658**	**.00027**
Stddev	.00005	.57	.00031	.0161	.00004
%RSD	55.895	.48692	44.658	24.48	16.215
#1	.00012	118.01	.00048	.0771	.00030
#2	.00005	117.20	.00092	.0544	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**.00192**	**.27594**	**.81837**	**.01352**
Stddev	.00037	.00058	.00160	.03879	.00262
%RSD	50.374	30.425	.57851	4.7402	19.398
#1	.00047	.00233	.27707	.79093	.01166
#2	.00099	.00150	.27481	.84580	.01537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-8-A Acquired: 12/27/2021 15:24:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**59.094**	**.05300**	**-.00032**	**17.792**	**.00050**
Stddev	.046	.00009	.00006	.073	.00015
%RSD	.07757	.17668	19.161	.41049	30.703
#1	59.061	.05293	-.00036	17.844	.00039
#2	59.126	.05306	-.00028	17.740	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00223**	**9.7437**	**.00085**	**-.00108**
Stddev	.00	.00070	.0148	.00093	.00084
%RSD	.0027	31.360	.15150	109.83	77.744
#1	25.02	.00174	9.7333	.00019	-.00049
#2	25.02	.00273	9.7541	.00151	-.00168
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6483**	**-.00088**	**.30235**	**.9895**	**.00089**
Stddev	.0349	.00006	.00165	.0069	.00008
%RSD	.45623	6.5035	.54491	.6994	9.1276
#1	7.6730	-.00084	.30351	.9944	.00094
#2	7.6236	-.00092	.30118	.9846	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-8-A Acquired: 12/27/2021 15:24:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00154**	**-.00069**	**.00231**	**1.000**
Stddev	.00091	.00011	.00023	.003
%RSD	58.831	16.188	9.8533	.2692
#1	.00218	-.00061	.00215	1.002
#2	.00090	-.00076	.00247	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3431.7**	**2713.2**	**25173.**	**2679.4**
Stddev	13.9	7.8	9.	15.0
%RSD	.40586	.28911	.03534	.55854
#1	3421.9	2707.6	25167.	2668.9
#2	3441.6	2718.7	25180.	2690.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.678%	94.422%	94.737%	99.533%
Range				

Sample Name: 480-193715-B-9-A Acquired: 12/27/2021 15:28:30 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.02621**	**.00236**	**.16852**	**.06971**
Stddev	.00063	.01569	.00029	.00026	.00016
%RSD	2898.0	59.866	12.230	.15363	.23048
#1	.00047	.01512	.00216	.16833	.06959
#2	-.00042	.03731	.00257	.16870	.06982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**107.20**	**.00080**	**.0051**	**.00027**
Stddev	.00007	.30	.00003	.0534	.00020
%RSD	98.011	.28212	3.4546	1052.	75.147
#1	.00002	106.99	.00078	.0428	.00012
#2	.00012	107.41	.00082	-.0327	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00426**	**.02311**	**5.4909**	**.01296**
Stddev	.00031	.00001	.00208	.0025	.00259
%RSD	90.752	.13944	9.0156	.04486	19.965
#1	.00055	.00427	.02458	5.4891	.01113
#2	.00012	.00426	.02164	5.4926	.01479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-9-A Acquired: 12/27/2021 15:28:30 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**114.16**	**.05123**	**.00515**	**69.315**	**.00170**
Stddev	.19	.00008	.00018	.081	.00009
%RSD	.16932	.15709	3.4822	.11671	5.2010
#1	114.02	.05118	.00503	69.373	.00164
#2	114.29	.05129	.00528	69.258	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00146**	F **133.81**	**.00005**	**.00095**
Stddev	.00	.00096	.13	.00011	.00027
%RSD	.0054	66.139	.09455	225.67	28.221
#1	25.05	.00214	133.72	.00013	.00114
#2	25.05	.00078	133.90	-.00003	.00076
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1921**	**-.00050**	**.78361**	**1.0000**	**.00160**
Stddev	.0198	.00030	.00298	.0115	.00037
%RSD	.32024	60.760	.38001	1.145	23.186
#1	6.1780	-.00071	.78150	.9919	.00186
#2	6.2061	-.00028	.78571	1.008	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-9-A Acquired: 12/27/2021 15:28:30 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00245**	**.00099**	**.00248**	**1.000**
Stddev	.00052	.00027	.00020	.001
%RSD	21.255	26.819	8.1389	.0634
#1	.00208	.00080	.00262	1.001
#2	.00281	.00118	.00234	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3365.5**	**2711.8**	**25158.**	**2757.3**
Stddev	3.0	7.0	2.	16.9
%RSD	.08951	.25835	.00693	.61210
#1	3363.4	2706.9	25159.	2769.2
#2	3367.7	2716.8	25157.	2745.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.968%	94.375%	94.680%	102.42%
Range				

Sample Name: 480-193715-B-10-A Acquired: 12/27/2021 15:32:12 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.01481**	**.00051**	**.02918**	**.06890**
Stddev	.00112	.00727	.00135	.00010	.00008
%RSD	400.47	49.078	263.42	.32946	.11500
#1	.00107	.00967	-.00044	.02925	.06895
#2	-.00051	.01995	.00147	.02911	.06884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**91.761**	**.00052**	**.0612**	**.00045**
Stddev	.00020	.076	.00010	.0262	.00005
%RSD	864.57	.08254	19.584	42.89	11.268
#1	-.00012	91.708	.00059	.0426	.00041
#2	.00016	91.815	.00045	.0797	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00042**	**.10256**	**2.4197**	**.01195**
Stddev	.00011	.00010	.00076	.0278	.00037
%RSD	25.798	24.787	.74402	1.1484	3.0740
#1	.00052	.00049	.10203	2.4393	.01221
#2	.00036	.00034	.10310	2.4000	.01169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-10-A Acquired: 12/27/2021 15:32:12 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.164**	**.16708**	**.00054**	**6.9240**	**.00062**
Stddev	.101	.00044	.00043	.0011	.00003
%RSD	.25055	.26432	79.354	.01545	5.1253
#1	40.236	.16739	.00084	6.9233	.00060
#2	40.093	.16677	.00024	6.9248	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00299**	**4.8525**	**-.00059**	**.00031**
Stddev	.00	.00043	.0018	.00245	.00135
%RSD	.0029	14.331	.03744	417.07	441.26
#1	25.02	.00269	4.8538	-.00232	.00126
#2	25.02	.00329	4.8512	.00114	-.00065
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5659**	**-.00087**	**.25312**	**.9919**	**.00035**
Stddev	.0284	.00063	.00093	.0007	.00026
%RSD	.33152	72.660	.36571	.0663	74.262
#1	8.5458	-.00132	.25246	.9923	.00017
#2	8.5860	-.00042	.25377	.9914	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-10-A Acquired: 12/27/2021 15:32:12 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00109**	**.00031**	**.00087**	**1.001**
Stddev	.00001	.00015	.00025	.001
%RSD	.76534	46.855	28.370	.1094
#1	.00110	.00042	.00105	1.001
#2	.00109	.00021	.00070	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3528.9**	**2781.9**	**25784.**	**2769.6**
Stddev	5.1	8.9	47.	4.0
%RSD	.14368	.31988	.18176	.14520
#1	3532.5	2788.2	25751.	2766.8
#2	3525.3	2775.7	25817.	2772.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.189%	96.815%	97.035%	102.88%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 15:35:58 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96836**	**49.781**	**.97771**	**1.0129**	**.98312**
Stddev	.00371	.008	.00544	.0024	.00389
%RSD	.38286	.01525	.55595	.24146	.39559
#1	.96573	49.776	.97387	1.0112	.98037
#2	.97098	49.786	.98155	1.0146	.98587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0131**	**49.253**	**.97101**	**1.027**	**.94677**
Stddev	.0014	.104	.00142	.074	.00101
%RSD	.13549	.21041	.14666	7.192	.10673
#1	1.0122	49.180	.97000	1.080	.94605
#2	1.0141	49.327	.97201	.9750	.94748
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99327**	**.96334**	**49.148**	**48.553**	**.97015**
Stddev	.00198	.00265	.223	.092	.00331
%RSD	.19965	.27541	.45369	.19042	.34127
#1	.99187	.96147	48.991	48.488	.96781
#2	.99467	.96522	49.306	48.618	.97249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 15:35:58 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.795**	**.94961**	**.99861**	**48.143**	**.94990**
Stddev	.104	.00183	.00020	.020	.00037
%RSD	.22296	.19317	.02002	.04070	.03848
#1	46.722	.94831	.99847	48.157	.94964
#2	46.869	.95091	.99875	48.129	.95016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.31**	**.94950**	**24.582**	**.97616**	**.98767**
Stddev	.01	.00080	.030	.00526	.00089
%RSD	.0206	.08406	.12229	.53863	.09025
#1	37.31	.94894	24.561	.97244	.98830
#2	37.32	.95007	24.604	.97987	.98704
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8954**	**.95985**	**.96675**	**1.495**	**.97609**
Stddev	.0656	.00181	.00054	.001	.00033
%RSD	.66305	.18871	.05560	.0879	.03373
#1	9.8490	.96113	.96713	1.494	.97586
#2	9.9418	.95857	.96637	1.496	.97632
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 15:35:58 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.98091**	**.98533**	**1.0025**	**1.510**
Stddev	.00149	.00011	.0019	.002
%RSD	.15204	.01166	.18613	.1552
#1	.98196	.98541	1.0038	1.512
#2	.97985	.98524	1.0012	1.509
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3324.9**	**2742.6**	**24887.**	**2665.1**
Stddev	1.1	6.1	18.	8.0
%RSD	.03294	.22240	.07089	.30030
#1	3325.7	2746.9	24875.	2670.8
#2	3324.1	2738.2	24900.	2659.5

Sample Name: CCB-6825508 Acquired: 12/27/2021 15:39:31 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00968**	**-.00079**	**-.00859**	**.00003**
Stddev	.00038	.02342	.00053	.00014	.00001
%RSD	101.43	242.03	67.863	1.6321	39.459
#1	-.00065	.02624	-.00116	-.00849	.00002
#2	-.00011	-.00688	-.00041	-.00869	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00674**	**.00005**	**.0270**	**.00017**
Stddev	.00004	.00294	.00010	.0692	.00017
%RSD	106.91	43.649	206.47	256.5	97.878
#1	-.00006	.00882	-.00002	.0760	.00005
#2	-.00001	.00466	.00012	-.0220	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00075**	**.00353**	**-.06729**	**.00220**
Stddev	.00022	.00044	.00344	.00571	.00224
%RSD	146.35	58.980	97.309	8.4879	101.59
#1	.00001	-.00043	.00110	-.07133	.00062
#2	-.00031	-.00106	.00596	-.06325	.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 15:39:31 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**-.00005**	**.00115**	**-.00688**	**.00019**
Stddev	.00076	.00010	.00023	.01036	.00005
%RSD	91.488	197.02	19.991	150.68	24.914
#1	-.00029	.00002	.00099	.00045	.00016
#2	-.00137	-.00012	.00132	-.01420	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00107**	**.00487**	**.00058**	**.00228**
Stddev	.00	.00019	.00355	.00034	.00045
%RSD	.0007	17.848	72.912	58.978	19.676
#1	25.02	.00121	.00738	.00034	.00259
#2	25.02	.00094	.00236	.00082	.00196
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01463**	**.00001**	**.00021**	**1.001**	**-.00024**
Stddev	.00140	.00004	.00000	.004	.00009
%RSD	9.5694	363.87	1.6068	.3629	37.050
#1	.01562	.00004	.00021	.9983	-.00018
#2	.01364	-.00002	.00021	1.003	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 15:39:31 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00267**	**-.00001**	**.00010**	**.9999**
Stddev	.00036	.00060	.00049	.0008
%RSD	13.480	5590.0	492.28	.0772
#1	.00292	-.00044	-.00025	1.000
#2	.00242	.00042	.00044	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3836.7**	**2819.1**	**26385.**	**2690.5**
Stddev	1.1	2.6	82.	13.1
%RSD	.02789	.09248	.30895	.48650
#1	3837.4	2821.0	26328.	2699.8
#2	3835.9	2817.3	26443.	2681.3

Sample Name: CCVL-6825510 Acquired: 12/27/2021 15:43:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00553**	**.20074**	**.01214**	W **.01011**	**.00202**
Stddev	.00014	.01918	.00140	.00050	.00001
%RSD	2.5079	9.5529	11.569	4.9865	.39339
#1	.00563	.18718	.01313	.01046	.00201
#2	.00543	.21430	.01115	.00975	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.02000	
Range				-30.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.48849**	**.00199**	**.0895**	**.00372**
Stddev	.00010	.00054	.00012	.0335	.00011
%RSD	4.9853	.11028	5.9361	37.40	3.0504
#1	.00215	.48887	.00191	.1132	.00364
#2	.00200	.48811	.00207	.0658	.00380
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00404**	**.01035**	**.05002**	**.37251**	**.03090**
Stddev	.00005	.00014	.00295	.03553	.00004
%RSD	1.3277	1.3294	5.9051	9.5377	.12724
#1	.00400	.01025	.04793	.34739	.03087
#2	.00408	.01045	.05211	.39763	.03093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 15:43:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18446**	**.00289**	**.01012**	**.95838**	**.00909**
Stddev	.00493	.00002	.00006	.00100	.00055
%RSD	2.6711	.72620	.64179	.10410	6.0500
#1	.18097	.00290	.01008	.95768	.00870
#2	.18794	.00287	.01017	.95909	.00948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00988**	**.18452**	**.01941**	**.02560**
Stddev	.00	.00049	.00157	.00026	.00321
%RSD	.0009	5.0073	.84986	1.3485	12.555
#1	25.00	.01023	.18563	.01922	.02787
#2	25.00	.00953	.18342	.01960	.02333
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49155**	**.00813**	**.00506**	F **.9934**	**.00460**
Stddev	.03163	.00044	.00019	.0000	.00013
%RSD	6.4338	5.3905	3.6612	.0039	2.8640
#1	.46918	.00782	.00519	.9934	.00450
#2	.51391	.00844	.00493	.9934	.00469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 15:43:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02047**	**.00466**	**.00917**	F **.9999**
Stddev	.00052	.00065	.00004	.0011
%RSD	2.5244	13.855	.40114	.1079
#1	.02084	.00511	.00919	1.001
#2	.02011	.00420	.00914	.9991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3828.0**	**2823.1**	**26485.**	**2713.3**
Stddev	2.2	1.6	155.	11.4
%RSD	.05626	.05516	.58513	.42147
#1	3829.5	2822.0	26595.	2721.4
#2	3826.5	2824.2	26376.	2705.2

Sample Name: 480-193715-B-11-A Acquired: 12/27/2021 15:47:05 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00509**	**-.00092**	**.06736**	**.18052**
Stddev	.00097	.04260	.00185	.00036	.00018
%RSD	1376.6	836.38	201.34	.54134	.09944
#1	-.00061	.03522	.00039	.06710	.18065
#2	.00075	-.02503	-.00223	.06762	.18040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**106.96**	**.00093**	**.0494**	**.00073**
Stddev	.00008	.03	.00001	.0371	.00001
%RSD	848.74	.02840	1.4645	75.01	1.6460
#1	-.00005	106.93	.00092	.0232	.00074
#2	.00006	106.98	.00094	.0757	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00351**	**.00709**	**3.4621**	**.03554**
Stddev	.00051	.00083	.00277	.0316	.00103
%RSD	84.490	23.706	39.113	.91429	2.8861
#1	.00097	.00292	.00513	3.4844	.03481
#2	.00024	.00410	.00905	3.4397	.03626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-11-A Acquired: 12/27/2021 15:47:05 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**92.102**	**.05423**	**.00132**	**15.448**	**.00211**
Stddev	.040	.00012	.00053	.007	.00039
%RSD	.04339	.21384	39.829	.04835	18.566
#1	92.131	.05431	.00095	15.453	.00239
#2	92.074	.05415	.00169	15.443	.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00285**	**15.357**	**-.00071**	**.00032**
Stddev	.00	.00126	.036	.00078	.00660
%RSD	.0009	44.309	.23337	110.17	2062.5
#1	25.03	.00374	15.332	-.00126	.00499
#2	25.03	.00196	15.383	-.00016	-.00435
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.4478**	**-.00060**	**.60916**	**.9931**	**.00115**
Stddev	.0000	.00014	.00097	.0073	.00001
%RSD	.00015	23.249	.15937	.7399	1.1102
#1	8.4478	-.00050	.60985	.9879	.00116
#2	8.4477	-.00070	.60847	.9983	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-11-A Acquired: 12/27/2021 15:47:05 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00211**	**-.00038**	**.00727**	**.9987**
Stddev	.00098	.00005	.00010	.0018
%RSD	46.482	12.484	1.3204	.1770
#1	.00142	-.00041	.00720	.9975
#2	.00281	-.00034	.00733	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3434.3**	**2746.4**	**25375.**	**2766.1**
Stddev	5.3	9.0	18.	3.9
%RSD	.15444	.32656	.06973	.14101
#1	3430.6	2740.1	25362.	2763.3
#2	3438.1	2752.7	25387.	2768.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.745%	95.578%	95.495%	102.75%
Range				

Sample Name: 480-193715-B-12-A Acquired: 12/27/2021 15:50:49 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.02932**	**-.00233**	**.09464**	**.12042**
Stddev	.00048	.00198	.00017	.00058	.00011
%RSD	64.270	6.7605	7.3290	.60840	.09161
#1	.00109	.02792	-.00245	.09504	.12035
#2	.00041	.03073	-.00221	.09423	.12050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**67.385**	**.00087**	**.0515**	**.00042**
Stddev	.00006	.131	.00010	.0277	.00012
%RSD	156.34	.19425	10.964	53.70	28.276
#1	-.00008	67.293	.00094	.0711	.00051
#2	.00000	67.478	.00080	.0320	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00033**	**.01483**	**2.6897**	**.02987**
Stddev	.00014	.00021	.00001	.0320	.00030
%RSD	75.815	64.266	.09542	1.1893	1.0098
#1	.00029	.00048	.01482	2.6671	.03009
#2	.00009	.00018	.01484	2.7123	.02966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-12-A Acquired: 12/27/2021 15:50:49 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.842**	**.02615**	**.00252**	**13.918**	**.00137**
Stddev	.067	.00007	.00012	.014	.00017
%RSD	.12624	.28299	4.6093	.09850	12.045
#1	52.795	.02621	.00244	13.908	.00149
#2	52.890	.02610	.00260	13.928	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00275**	**7.5241**	**.00266**	**.00238**
Stddev	.00	.00115	.0176	.00204	.00177
%RSD	.0057	41.718	.23423	76.851	74.602
#1	25.03	.00194	7.5366	.00410	.00363
#2	25.03	.00357	7.5116	.00121	.00112
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.374**	**.00007**	**.39476**	**.9962**	**.00076**
Stddev	.027	.00083	.00002	.0012	.00013
%RSD	.23881	1268.2	.00511	.1181	16.581
#1	11.355	-.00052	.39474	.9954	.00067
#2	11.393	.00065	.39477	.9971	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-12-A Acquired: 12/27/2021 15:50:49 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00301**	**.00194**	**.00403**	**1.001**
Stddev	.00075	.00024	.00042	.001
%RSD	25.022	12.237	10.381	.0552
#1	.00248	.00177	.00432	1.001
#2	.00355	.00210	.00373	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3511.3**	**2772.5**	**25679.**	**2768.6**
Stddev	6.4	9.4	6.	21.8
%RSD	.18102	.33877	.02443	.78655
#1	3515.8	2779.2	25684.	2784.0
#2	3506.8	2765.9	25675.	2753.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.734%	96.488%	96.641%	102.85%
Range				

Sample Name: 480-193715-B-13-A Acquired: 12/27/2021 15:54:32 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.01810**	**-.00150**	**-.00854**	**.00029**
Stddev	.00050	.01301	.00016	.00003	.00005
%RSD	455.84	71.860	10.735	.40560	15.806
#1	.00025	.00890	-.00138	-.00851	.00032
#2	-.00047	.02730	-.00161	-.00856	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.13754**	**-.00009**	**.0305**	**.00025**
Stddev	.00001	.00110	.00009	.0153	.00010
%RSD	18.779	.79884	101.54	50.20	39.942
#1	.00006	.13831	-.00003	.0197	.00018
#2	.00008	.13676	-.00015	.0414	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00165**	**.00103**	**-.11840**	**.00162**
Stddev	.00018	.00030	.00368	.06816	.00029
%RSD	43.772	18.104	356.97	57.566	18.065
#1	.00028	.00144	.00363	-.07021	.00141
#2	.00054	.00187	-.00157	-.16660	.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-13-A Acquired: 12/27/2021 15:54:32 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03104**	**.00042**	**-.00013**	**.00877**	**-.00007**
Stddev	.00075	.00012	.00030	.00393	.00030
%RSD	2.4296	28.186	230.59	44.803	412.13
#1	.03157	.00033	-.00034	.01155	.00014
#2	.03050	.00050	.00008	.00599	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00121**	**.01461**	**-.00150**	**.00177**
Stddev	.00	.00013	.00266	.00218	.00533
%RSD	.0013	10.842	18.231	145.42	300.52
#1	25.02	.00112	.01649	-.00304	-.00200
#2	25.02	.00130	.01273	.00004	.00554
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02893**	**-.00039**	**.00057**	**.9881**	**-.00021**
Stddev	.01522	.00010	.00011	.0024	.00004
%RSD	52.619	26.797	19.554	.2423	16.748
#1	.03969	-.00031	.00050	.9864	-.00024
#2	.01817	-.00046	.00065	.9898	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193715-B-13-A Acquired: 12/27/2021 15:54:32 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00218**	**-.00024**	**.00117**	**1.002**
Stddev	.00077	.00014	.00037	.002
%RSD	35.457	59.457	31.887	.2331
#1	.00273	-.00033	.00091	1.000
#2	.00163	-.00014	.00144	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3891.6**	**2864.7**	**26752.**	**2746.9**
Stddev	3.3	2.1	14.	.7
%RSD	.08476	.07377	.05258	.02510
#1	3889.2	2866.2	26742.	2746.4
#2	3893.9	2863.2	26762.	2747.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.56%	99.697%	100.68%	102.04%
Range				

Sample Name: 480-193643-B-20-B Acquired: 12/27/2021 15:58:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.02476**	**-.00147**	**.00898**	**.07036**
Stddev	.00055	.01385	.00098	.00026	.00020
%RSD	159.29	55.926	66.892	2.8512	.28430
#1	.00073	.01497	-.00216	.00916	.07022
#2	-.00004	.03455	-.00077	.00880	.07050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**79.313**	**.00057**	**.0829**	**.00023**
Stddev	.00000	.348	.00001	.0646	.00012
%RSD	195.96	.43939	2.5329	77.87	53.243
#1	-.00000	79.066	.00056	.0373	.00015
#2	.00000	79.559	.00059	.1285	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00137**	**.00445**	**1.1253**	**.01001**
Stddev	.00014	.00042	.00084	.0290	.00012
%RSD	58.350	30.248	18.835	2.5752	1.2156
#1	.00034	.00167	.00386	1.1048	.00993
#2	.00014	.00108	.00505	1.1458	.01010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193643-B-20-B Acquired: 12/27/2021 15:58:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.589**	**.01564**	**.00518**	**5.5449**	**.00069**
Stddev	.119	.00010	.00039	.0391	.00027
%RSD	.29971	.63103	7.6023	.70525	38.289
#1	39.505	.01557	.00490	5.5172	.00088
#2	39.673	.01571	.00546	5.5725	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00238**	**26.402**	**.00215**	**-.00007**
Stddev	.00	.00089	.010	.00310	.00326
%RSD	.0020	37.392	.03642	144.26	4521.7
#1	25.02	.00301	26.409	.00435	.00224
#2	25.02	.00175	26.395	-.00004	-.00238
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9319**	**-.00017**	**.08832**	**.9902**	**.00059**
Stddev	.0454	.00026	.00044	.0083	.00004
%RSD	.76629	151.74	.49843	.8345	6.7882
#1	5.8997	.00001	.08800	.9844	.00056
#2	5.9640	-.00035	.08863	.9961	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193643-B-20-B Acquired: 12/27/2021 15:58:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00207**	**-.00084**	**.00200**	**1.002**
Stddev	.00106	.00039	.00019	.001
%RSD	51.449	46.132	9.7098	.0852
#1	.00132	-.00111	.00186	1.002
#2	.00282	-.00056	.00214	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3557.4**	**2757.4**	**25651.**	**2738.7**
Stddev	.9	.2	58.	5.3
%RSD	.02427	.00839	.22479	.19415
#1	3558.0	2757.6	25692.	2742.5
#2	3556.7	2757.3	25610.	2734.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.925%	95.962%	96.535%	101.73%
Range				

Sample Name: MB 480-609873/1-B Acquired: 12/27/2021 16:02:03 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.01373**	**-.00004**	F **-.01009**	**.00000**
Stddev	.00071	.00325	.00030	.00023	.00004
%RSD	518.14	23.702	842.22	2.2468	4986.4
#1	-.00064	.01143	-.00025	-.00993	.00003
#2	.00037	.01603	.00018	-.01025	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.00800	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.01396**	**-.00001**	**.0203**	**.00011**
Stddev	.00007	.00416	.00003	.0168	.00012
%RSD	234.48	29.796	199.91	82.49	109.53
#1	.00002	.01102	.00001	.0085	.00003
#2	-.00008	.01691	-.00004	.0322	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00209**	**.00295**	**-.12113**	**.00277**
Stddev	.00052	.00031	.00360	.00327	.00185
%RSD	2514.4	14.843	122.02	2.7036	66.680
#1	-.00039	.00231	.00549	-.11881	.00407
#2	.00035	.00187	.00040	-.12345	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-609873/1-B Acquired: 12/27/2021 16:02:03 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00197**	**.00006**	**-.00037**	**.00147**	**.00016**
Stddev	.00328	.00005	.00005	.01222	.00013
%RSD	166.95	94.370	13.303	828.35	81.471
#1	.00035	.00002	-.00041	.01011	.00007
#2	-.00429	.00009	-.00034	-.00716	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00114**	**.00909**	**.00163**	**.00322**
Stddev	.00	.00181	.00016	.00083	.00096
%RSD	.0076	159.21	1.7188	50.588	29.911
#1	25.02	-.00014	.00898	.00222	.00390
#2	25.02	.00242	.00920	.00105	.00254
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01145**	**-.00019**	**.00015**	**.9991**	**-.00011**
Stddev	.01135	.00062	.00004	.0015	.00030
%RSD	99.148	322.17	24.922	.1524	287.91
#1	.00342	-.00063	.00012	1.000	.00011
#2	.01947	.00025	.00017	.9980	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-609873/1-B Acquired: 12/27/2021 16:02:03 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00149**	**.00030**	**.00153**	**1.000**
Stddev	.00056	.00020	.00029	.001
%RSD	37.275	69.025	19.205	.0665
#1	.00110	.00015	.00174	.9996
#2	.00189	.00044	.00132	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3906.1**	**2880.1**	**26892.**	**2797.0**
Stddev	3.1	4.1	104.	17.2
%RSD	.07893	.14364	.38536	.61536
#1	3903.9	2877.2	26819.	2784.8
#2	3908.2	2883.0	26965.	2809.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.94%	100.23%	101.21%	103.90%
Range				

Sample Name: LCS 480-609873/2-B Acquired: 12/27/2021 16:05:49 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04728**	**9.7120**	**.19920**	**.18729**	**.19538**
Stddev	.00068	.0159	.00124	.00006	.00024
%RSD	1.4404	.16343	.62295	.03226	.12334
#1	.04680	9.7008	.20007	.18725	.19555
#2	.04777	9.7232	.19832	.18733	.19521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20618**	**9.6249**	**.19295**	**.0850**	**.18294**
Stddev	.00106	.0216	.00052	.0151	.00017
%RSD	.51384	.22395	.27078	17.74	.09392
#1	.20543	9.6097	.19332	.0743	.18306
#2	.20693	9.6402	.19258	.0956	.18282
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19160**	**.19016**	**9.7608**	**9.3181**	**.19303**
Stddev	.00054	.00038	.0168	.0187	.00194
%RSD	.28149	.20189	.17169	.20081	1.0058
#1	.19122	.19043	9.7490	9.3049	.19166
#2	.19198	.18989	9.7727	9.3314	.19441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-609873/2-B Acquired: 12/27/2021 16:05:49 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5667**	**.19492**	**.19942**	**9.3143**	**.18394**
Stddev	.0000	.00053	.00029	.0489	.00027
%RSD	.00024	.27043	.14398	.52511	.14665
#1	9.5667	.19529	.19962	9.3489	.18375
#2	9.5667	.19455	.19921	9.2798	.18413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.64**	**.19117**	**9.3603**	**.20659**	**.19361**
Stddev	.00	.00026	.0064	.00358	.00220
%RSD	.0051	.13830	.06803	1.7336	1.1347
#1	24.64	.19136	9.3648	.20912	.19516
#2	24.64	.19099	9.3558	.20406	.19206
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4183**	**.17900**	**.19400**	**1.009**	**.19335**
Stddev	.0421	.00028	.00035	.010	.00051
%RSD	.44661	.15374	.17966	.9884	.26181
#1	9.4480	.17920	.19375	1.016	.19371
#2	9.3885	.17881	.19425	1.002	.19299
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-609873/2-B Acquired: 12/27/2021 16:05:49 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19470**	**.19121**	**.19502**	**1.006**
Stddev	.00149	.00051	.00070	.002
%RSD	.76451	.26763	.35856	.2012
#1	.19365	.19157	.19453	1.007
#2	.19575	.19084	.19552	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3688.4**	**2851.9**	**26400.**	**2807.4**
Stddev	5.1	6.6	51.	12.6
%RSD	.13838	.23281	.19438	.44881
#1	3684.8	2847.2	26437.	2816.3
#2	3692.0	2856.6	26364.	2798.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.312%	99.251%	99.355%	104.28%
Range				

Sample Name: 480-193436-R-6-B Acquired: 12/27/2021 16:09:24 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.01398**	**.00010**	**-.00279**	**.12368**
Stddev	.00074	.03175	.00085	.00020	.00029
%RSD	26389.	227.05	825.75	7.0095	.23514
#1	.00053	-.00847	-.00050	-.00293	.12348
#2	-.00052	.03643	.00070	-.00265	.12389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**77.214**	**-.00002**	**.0423**	**.00011**
Stddev	.00013	.073	.00007	.0379	.00016
%RSD	332.36	.09501	332.07	89.55	149.30
#1	-.00005	77.162	.00003	.0690	-.00001
#2	.00013	77.266	-.00007	.0155	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**.00102**	**.03444**	**1.7497**	**.00684**
Stddev	.00012	.00052	.00066	.0443	.00173
%RSD	3.9875	51.311	1.9270	2.5334	25.370
#1	.00281	.00065	.03491	1.7810	.00561
#2	.00297	.00139	.03397	1.7184	.00807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-R-6-B Acquired: 12/27/2021 16:09:24 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.0187**	**.00043**	**.00048**	**2.9197**	**.00028**
Stddev	.0267	.00006	.00009	.0062	.00018
%RSD	.33361	13.539	17.910	.21333	61.803
#1	7.9998	.00047	.00055	2.9153	.00041
#2	8.0376	.00039	.00042	2.9241	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00140**	**2.0707**	**-.00058**	**.00234**
Stddev	.00	.00015	.0036	.00333	.00177
%RSD	.0032	10.610	.17533	573.53	75.625
#1	25.02	.00150	2.0733	.00177	.00360
#2	25.02	.00129	2.0682	-.00293	.00109
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5740**	**-.00040**	**.13523**	**1.002**	**.00046**
Stddev	.0008	.00019	.00052	.008	.00043
%RSD	.03042	46.916	.38412	.8155	92.011
#1	2.5746	-.00053	.13560	.9960	.00016
#2	2.5735	-.00027	.13486	1.008	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193436-R-6-B Acquired: 12/27/2021 16:09:24 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00151**	**-.00024**	**.00258**	**.9999**
Stddev	.00062	.00069	.00008	.0005
%RSD	41.301	286.46	2.9140	.0468
#1	.00195	.00025	.00264	1.000
#2	.00107	-.00073	.00253	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3601.8**	**2774.9**	**25811.**	**2713.6**
Stddev	3.5	7.5	125.	16.2
%RSD	.09774	.27046	.48476	.59843
#1	3599.3	2769.6	25900.	2725.1
#2	3604.3	2780.2	25723.	2702.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.073%	96.571%	97.138%	100.80%
Range				

Sample Name: 480-193439-D-7-B Acquired: 12/27/2021 16:13:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.04869**	**-.00009**	**-.00236**	**.02674**
Stddev	.00012	.01358	.00342	.00029	.00003
%RSD	28.114	27.899	3793.4	12.361	.12641
#1	.00034	.03908	-.00251	-.00215	.02677
#2	.00051	.05829	.00233	-.00256	.02672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**3.6217**	**.00015**	**-.0101**	**.00326**
Stddev	.00001	.0082	.00005	.0147	.00009
%RSD	16.220	.22571	36.699	145.8	2.6831
#1	-.00004	3.6275	.00011	.0003	.00332
#2	-.00003	3.6160	.00019	-.0205	.00319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00028**	**7.7476**	**1.0851**	**.00217**
Stddev	.00016	.00060	.0107	.0182	.00031
%RSD	279.56	210.64	.13770	1.6746	14.306
#1	-.00017	-.00071	7.7551	1.0979	.00239
#2	.00005	.00014	7.7401	1.0722	.00195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193439-D-7-B Acquired: 12/27/2021 16:13:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.67565**	**.94610**	**-.00020**	**9.0830**	**.00030**
Stddev	.00035	.00044	.00019	.0081	.00002
%RSD	.05163	.04613	90.960	.08871	7.5819
#1	.67590	.94641	-.00034	9.0887	.00031
#2	.67541	.94579	-.00007	9.0773	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00231**	**1.8812**	**.00030**	**.00224**
Stddev	.00	.00036	.0073	.00022	.00211
%RSD	.0041	15.771	.38978	74.040	94.200
#1	25.02	.00257	1.8864	.00046	.00075
#2	25.02	.00206	1.8760	.00014	.00373
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8610**	**-.00010**	**.02119**	**.9993**	**-.00019**
Stddev	.0281	.00036	.00000	.0004	.00028
%RSD	.72718	357.76	.00855	.0429	147.62
#1	3.8808	-.00035	.02119	.9996	-.00039
#2	3.8411	.00015	.02119	.9990	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193439-D-7-B Acquired: 12/27/2021 16:13:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00142**	**.00007**	**.00648**	**.9999**
Stddev	.00169	.00012	.00009	.0004
%RSD	118.75	173.87	1.4625	.0356
#1	.00023	-.00002	.00641	.9996
#2	.00262	.00016	.00654	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3786.4**	**2840.7**	**26406.**	**2777.0**
Stddev	4.0	.6	3.	15.2
%RSD	.10441	.02206	.01263	.54875
#1	3789.2	2841.2	26409.	2766.2
#2	3783.6	2840.3	26404.	2787.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.842%	98.861%	99.377%	103.16%
Range				

Sample Name: 480-193694-B-3-B Acquired: 12/27/2021 16:16:54 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00378**	**-.00130**	**.02212**	**.02997**
Stddev	.00055	.05091	.00040	.00015	.00002
%RSD	100.85	1347.9	30.747	.69373	.05711
#1	-.00094	-.03222	-.00102	.02202	.02996
#2	-.00016	.03977	-.00158	.02223	.02999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**50.665**	**.00022**	**-.0075**	**.00012**
Stddev	.00000	.042	.00009	.0442	.00005
%RSD	8.1160	.08374	40.415	585.6	40.683
#1	-.00002	50.635	.00016	.0237	.00016
#2	-.00002	50.695	.00028	-.0388	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00132**	**.00669**	**4.2320**	**.00468**
Stddev	.00008	.00079	.00224	.0933	.00145
%RSD	93.692	59.962	33.542	2.2053	30.957
#1	.00003	.00188	.00828	4.1660	.00365
#2	.00014	.00076	.00510	4.2980	.00570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193694-B-3-B Acquired: 12/27/2021 16:16:54 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.364**	**.00113**	**.00008**	**25.931**	**.00054**
Stddev	.019	.00004	.00017	.044	.00017
%RSD	.16736	3.4019	225.59	.16809	31.111
#1	11.378	.00116	-.00005	25.900	.00066
#2	11.351	.00110	.00020	25.962	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00113**	**10.085**	**.00218**	**.00306**
Stddev	.00	.00063	.012	.00121	.00234
%RSD	.0022	56.189	.11713	55.411	76.433
#1	25.03	.00068	10.094	.00133	.00141
#2	25.03	.00158	10.077	.00303	.00471
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6251**	**-.00039**	**.61381**	**.9843**	**.00047**
Stddev	.0042	.00018	.00222	.0125	.00050
%RSD	.25926	45.802	.36096	1.269	106.06
#1	1.6222	-.00051	.61224	.9755	.00012
#2	1.6281	-.00026	.61538	.9931	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193694-B-3-B Acquired: 12/27/2021 16:16:54 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00018**	**.00208**	**1.001**
Stddev	.00243	.00006	.00027	.000
%RSD	2763.8	32.363	13.218	.0130
#1	.00181	.00014	.00188	1.001
#2	-.00163	.00022	.00227	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3568.1**	**2760.1**	**25830.**	**2746.6**
Stddev	1.9	.2	40.	12.7
%RSD	.05272	.00592	.15540	.46187
#1	3569.4	2760.3	25802.	2737.6
#2	3566.8	2760.0	25859.	2755.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.202%	96.056%	97.210%	102.03%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 16:20:41 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98230**	**49.201**	**.98554**	**1.0100**	**.97664**
Stddev	.00032	.106	.00321	.0017	.00135
%RSD	.03254	.21615	.32579	.17149	.13778
#1	.98207	49.276	.98781	1.0088	.97759
#2	.98252	49.126	.98327	1.0112	.97569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97914**	**48.612**	**.98140**	**1.059**	**.95731**
Stddev	.00180	.091	.00051	.042	.00051
%RSD	.18366	.18783	.05231	3.968	.05336
#1	.98041	48.677	.98177	1.089	.95695
#2	.97787	48.548	.98104	1.030	.95767
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97437**	**.97490**	**48.604**	**48.079**	**.97688**
Stddev	.00126	.00173	.142	.042	.00315
%RSD	.12950	.17790	.29243	.08810	.32225
#1	.97348	.97367	48.704	48.109	.97910
#2	.97526	.97612	48.503	48.049	.97465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 16:20:41 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.887**	**.97904**	**.99218**	**48.736**	**.96558**
Stddev	.032	.00016	.00031	.136	.00160
%RSD	.06724	.01626	.03118	.27945	.16536
#1	47.865	.97892	.99240	48.832	.96671
#2	47.910	.97915	.99196	48.639	.96445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.47**	**.95852**	**24.722**	**.98601**	**.97582**
Stddev	.03	.00046	.057	.00255	.00337
%RSD	.0756	.04762	.23113	.25820	.34509
#1	37.45	.95820	24.681	.98781	.97821
#2	37.49	.95884	24.762	.98421	.97344
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7674**	**.95616**	**.98224**	**1.507**	**.97528**
Stddev	.0275	.00043	.00142	.008	.00134
%RSD	.28135	.04467	.14472	.5077	.13784
#1	9.7868	.95646	.98324	1.512	.97433
#2	9.7480	.95586	.98123	1.501	.97623
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 16:20:41 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.96916**	**.97492**	**.98950**	**1.511**
Stddev	.00392	.00280	.00524	.000
%RSD	.40457	.28759	.52996	.0239
#1	.96639	.97293	.98580	1.512
#2	.97194	.97690	.99321	1.511
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3371.7**	**2784.4**	**25105.**	**2724.5**
Stddev	4.0	5.5	25.	19.5
%RSD	.11781	.19803	.09799	.71568
#1	3368.9	2780.5	25123.	2710.7
#2	3374.5	2788.3	25088.	2738.3

Sample Name: CCB-6825508 Acquired: 12/27/2021 16:24:13 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.02259**	**-.00143**	**-.00933**	**.00002**
Stddev	.00031	.02763	.00006	.00054	.00001
%RSD	76.117	122.33	3.8494	5.8078	45.635
#1	-.00019	.00305	-.00147	-.00895	.00001
#2	-.00062	.04212	-.00139	-.00971	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00240**	**-.00001**	**.0430**	**.00008**
Stddev	.00000	.00293	.00007	.0103	.00001
%RSD	.11828	121.97	516.49	23.97	10.403
#1	.00009	.00033	.00004	.0357	.00007
#2	.00009	.00447	-.00006	.0503	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00067**	**-.00042**	**-.09066**	**.00279**
Stddev	.00077	.00021	.00039	.00589	.00273
%RSD	558.42	31.530	91.614	6.5003	97.942
#1	.00068	.00082	-.00015	-.09483	.00086
#2	-.00041	.00052	-.00070	-.08650	.00472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 16:24:13 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00004**	**.00137**	**-.01131**	**.00005**
Stddev	.00488	.00002	.00004	.00004	.00011
%RSD	3840.1	44.874	2.8923	.37043	228.34
#1	.00358	-.00003	.00139	-.01134	.00013
#2	-.00332	-.00006	.00134	-.01128	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00031**	**.00178**	**.00109**	**.00161**
Stddev	.00	.00012	.00215	.00041	.00101
%RSD	.0046	36.877	120.71	37.887	63.018
#1	25.02	-.00039	.00331	.00080	.00233
#2	25.02	-.00023	.00026	.00138	.00089
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01203**	**-.00038**	**.00011**	**.9942**	**-.00012**
Stddev	.01457	.00003	.00003	.0039	.00057
%RSD	121.06	6.7462	27.927	.3877	472.15
#1	.00173	-.00036	.00014	.9969	-.00053
#2	.02233	-.00040	.00009	.9915	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 16:24:13 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00125**	**-.00025**	**-.00052**	**1.001**
Stddev	.00149	.00033	.00020	.001
%RSD	118.65	131.39	38.207	.0832
#1	.00020	-.00002	-.00038	1.000
#2	.00230	-.00049	-.00066	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3830.0**	**2837.4**	**26433.**	**2740.0**
Stddev	1.6	4.1	39.	9.4
%RSD	.04206	.14416	.14837	.34129
#1	3828.9	2840.3	26406.	2733.4
#2	3831.1	2834.5	26461.	2746.6

Sample Name: CCVL-6825510 Acquired: 12/27/2021 16:28:02 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00528**	**.21149**	**.01321**	F **.00975**	**.00200**
Stddev	.00083	.00778	.00024	.00050	.00004
%RSD	15.779	3.6807	1.7867	5.1021	2.2200
#1	.00586	.21699	.01305	.01011	.00197
#2	.00469	.20598	.01338	.00940	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				-50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.50088**	**.00193**	**.0316**	**.00381**
Stddev	.00002	.00410	.00010	.0153	.00006
%RSD	1.0062	.81913	5.1213	48.52	1.5073
#1	.00208	.49798	.00200	.0424	.00386
#2	.00211	.50378	.00186	.0207	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00414**	**.00959**	**.04856**	**.35010**	**.03190**
Stddev	.00015	.00134	.00261	.02643	.00000
%RSD	3.5790	14.001	5.3684	7.5496	.00140
#1	.00424	.01054	.05041	.36878	.03190
#2	.00403	.00864	.04672	.33141	.03190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 16:28:02 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18006**	**.00288**	**.01005**	**.94566**	**.00908**
Stddev	.00075	.00002	.00021	.01259	.00002
%RSD	.41491	.79998	2.0972	1.3309	.24765
#1	.18059	.00289	.00990	.93676	.00906
#2	.17953	.00286	.01019	.95456	.00910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01055**	**.17766**	**.02105**	**.02871**
Stddev	.00	.00022	.00147	.00214	.00039
%RSD	.0055	2.1171	.82487	10.174	1.3750
#1	25.00	.01039	.17663	.01954	.02899
#2	25.00	.01071	.17870	.02257	.02843
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49671**	**.00841**	**.00493**	F **.9953**	**.00441**
Stddev	.01404	.00043	.00008	.0001	.00017
%RSD	2.8265	5.0916	1.5528	.0145	3.8333
#1	.48678	.00811	.00499	.9954	.00430
#2	.50664	.00871	.00488	.9952	.00453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 16:28:02 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02109**	**.00473**	**.00952**	F **1.002**
Stddev	.00080	.00083	.00027	.002
%RSD	3.7924	17.507	2.8681	.2367
#1	.02166	.00531	.00971	.9999
#2	.02053	.00414	.00933	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3812.7**	**2816.3**	**26298.**	**2681.4**
Stddev	6.2	5.4	51.	18.5
%RSD	.16166	.19307	.19381	.68822
#1	3817.1	2820.1	26334.	2694.4
#2	3808.4	2812.4	26262.	2668.3

Sample Name: 480-193694-B-4-B Acquired: 12/27/2021 16:31:49 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00188**	**-.00242**	**.02231**	**.02999**
Stddev	.00025	.00090	.00060	.00009	.00001
%RSD	63.925	47.901	24.953	.38709	.02630
#1	.00056	.00125	-.00285	.02237	.02999
#2	.00021	.00252	-.00199	.02225	.03000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**50.055**	**.00031**	**.0520**	**.00012**
Stddev	.00006	.105	.00003	.0314	.00005
%RSD	316.21	.21053	8.4946	60.39	42.297
#1	-.00002	50.130	.00033	.0742	.00016
#2	.00006	49.981	.00029	.0298	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00139**	**.00796**	**4.1807**	**.00356**
Stddev	.00024	.00115	.00017	.0272	.00014
%RSD	2070.1	82.521	2.0897	.65020	3.8080
#1	-.00018	.00058	.00784	4.1615	.00366
#2	.00016	.00220	.00808	4.2000	.00347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193694-B-4-B Acquired: 12/27/2021 16:31:49 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.249**	**.00122**	**.00004**	**25.660**	**.00024**
Stddev	.003	.00009	.00001	.017	.00002
%RSD	.02571	7.4483	33.709	.06613	7.5976
#1	11.247	.00116	.00003	25.672	.00022
#2	11.251	.00129	.00005	25.648	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00092**	**10.066**	**-.00052**	**.00171**
Stddev	.00	.00027	.004	.00035	.00272
%RSD	.0040	29.763	.03570	67.850	159.46
#1	25.03	.00073	10.064	-.00077	.00363
#2	25.03	.00112	10.069	-.00027	-.00022
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5768**	**-.00029**	**.60799**	**.9966**	**.00049**
Stddev	.0018	.00048	.00112	.0032	.00029
%RSD	.11505	165.79	.18487	.3203	60.231
#1	1.5780	-.00063	.60879	.9943	.00028
#2	1.5755	.00005	.60720	.9988	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193694-B-4-B Acquired: 12/27/2021 16:31:49 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00246**	**-.00023**	**.00219**	**1.001**
Stddev	.00145	.00013	.00008	.002
%RSD	59.054	54.499	3.6822	.2333
#1	.00349	-.00014	.00225	.9990
#2	.00143	-.00032	.00214	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3589.3**	**2774.3**	**25787.**	**2745.2**
Stddev	3.7	3.6	117.	8.2
%RSD	.10265	.12878	.45216	.29761
#1	3586.7	2771.8	25704.	2739.5
#2	3591.9	2776.8	25869.	2751.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.751%	96.549%	97.046%	101.98%
Range				

Sample Name: 480-193694-B-4-BSD@5 Acquired: 12/27/2021 16:35:33 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00263**	**-.00208**	**-.00392**	**.00628**
Stddev	.00081	.00546	.00124	.00002	.00006
%RSD	144.53	207.99	59.757	.57586	1.0226
#1	.00114	.00649	-.00296	-.00391	.00632
#2	-.00001	-.00124	-.00120	-.00394	.00623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**10.176**	**.00012**	**.0713**	**.00005**
Stddev	.00009	.008	.00017	.0043	.00008
%RSD	73.677	.07765	143.68	6.093	179.52
#1	.00006	10.182	-.00000	.0683	.00010
#2	.00018	10.171	.00024	.0744	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00219**	**-.00168**	**.77091**	**.00382**
Stddev	.00060	.00129	.00071	.07436	.00194
%RSD	291.33	58.837	42.411	9.6462	50.771
#1	.00063	.00310	-.00118	.82350	.00520
#2	-.00022	.00128	-.00218	.71833	.00245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193694-B-4-BSD@5 Acquired: 12/27/2021 16:35:33 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3159**	**.00018**	**-.00015**	**5.2034**	**-.00032**
Stddev	.0033	.00003	.00025	.0024	.00024
%RSD	.14278	15.273	169.46	.04641	76.627
#1	2.3135	.00020	-.00033	5.2051	-.00015
#2	2.3182	.00016	.00003	5.2017	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00012**	**1.9776**	**.00096**	**.00147**
Stddev	.00	.00095	.0045	.00081	.00068
%RSD	.0008	803.87	.22624	84.943	45.929
#1	25.02	-.00055	1.9808	.00038	.00100
#2	25.02	.00079	1.9744	.00153	.00195
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.32852**	**.00012**	**.12513**	**.9885**	**-.00007**
Stddev	.01552	.00033	.00001	.0037	.00006
%RSD	4.7236	283.15	.00836	.3714	85.919
#1	.33949	-.00012	.12514	.9911	-.00012
#2	.31755	.00035	.12513	.9859	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193694-B-4-BSD@5 Acquired: 12/27/2021 16:35:33 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00196**	**-.00016**	**.00045**	**.9999**
Stddev	.00047	.00002	.00007	.0004
%RSD	24.117	9.5737	16.283	.0398
#1	.00163	-.00015	.00051	.9996
#2	.00230	-.00017	.00040	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3795.1**	**2845.7**	**26496.**	**2761.1**
Stddev	.2	1.8	41.	19.0
%RSD	.00569	.06477	.15644	.68836
#1	3795.2	2844.4	26525.	2747.6
#2	3794.9	2847.0	26467.	2774.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.068%	99.033%	99.714%	102.57%
Range				

Sample Name: 480-193694-B-4-BPDS Acquired: 12/27/2021 16:39:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04741**	**9.7383**	**.19874**	**.22177**	**.22344**
Stddev	.00065	.0836	.00085	.00108	.00051
%RSD	1.3693	.85843	.42638	.48544	.22905
#1	.04696	9.7974	.19934	.22101	.22308
#2	.04787	9.6792	.19814	.22253	.22380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20480**	**58.402**	**.19314**	**.0195**	**.18341**
Stddev	.00091	.138	.00055	.0626	.00014
%RSD	.44210	.23679	.28394	321.3	.07627
#1	.20544	58.500	.19353	.0637	.18351
#2	.20416	58.304	.19275	-.0248	.18331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18842**	**.18886**	**9.5563**	**13.564**	**.19501**
Stddev	.00056	.00072	.0247	.069	.00318
%RSD	.29912	.38375	.25839	.50746	1.6293
#1	.18882	.18835	9.5738	13.612	.19726
#2	.18802	.18937	9.5389	13.515	.19276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193694-B-4-BPDS Acquired: 12/27/2021 16:39:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.389**	**.19215**	**.19837**	**34.357**	**.18437**
Stddev	.037	.00045	.00060	.039	.00083
%RSD	.18330	.23523	.30218	.11274	.45264
#1	20.362	.19183	.19795	34.384	.18496
#2	20.415	.19247	.19880	34.329	.18378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.65**	**.19034**	**19.618**	**.20598**	**.19056**
Stddev	.00	.00029	.012	.00104	.00154
%RSD	.0038	.15114	.05954	.50440	.80667
#1	24.65	.19013	19.610	.20672	.19165
#2	24.65	.19054	19.626	.20525	.18947
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.069**	**.18710**	**.78694**	**1.001**	**.19275**
Stddev	.011	.00102	.00132	.005	.00098
%RSD	.10117	.54768	.16816	.5130	.50694
#1	11.077	.18637	.78788	1.004	.19206
#2	11.061	.18782	.78601	.9972	.19344
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193694-B-4-BPDS Acquired: 12/27/2021 16:39:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19319**	**.19007**	**.19363**	**1.006**
Stddev	.00015	.00056	.00028	.000
%RSD	.07629	.29292	.14223	.0439
#1	.19308	.18967	.19382	1.005
#2	.19329	.19046	.19343	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3502.2**	**2784.3**	**25788.**	**2783.3**
Stddev	1.8	5.7	3.	12.2
%RSD	.05223	.20608	.01316	.43901
#1	3503.5	2788.4	25785.	2774.7
#2	3500.9	2780.3	25790.	2791.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.500%	96.898%	97.049%	103.39%
Range				

Sample Name: 480-193694-B-4-C MS Acquired: 12/27/2021 16:42:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04809**	**10.288**	**.21286**	**.23228**	**.23165**
Stddev	.00100	.022	.00261	.00029	.00016
%RSD	2.0839	.21361	1.2257	.12282	.07098
#1	.04738	10.273	.21101	.23207	.23153
#2	.04880	10.304	.21470	.23248	.23176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22074**	**61.851**	**.20433**	**-.0250**	**.19327**
Stddev	.00077	.145	.00001	.0156	.00020
%RSD	.34766	.23386	.00652	62.34	.10095
#1	.22020	61.748	.20434	-.0360	.19341
#2	.22129	61.953	.20432	-.0140	.19313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20126**	**.19932**	**10.117**	**14.176**	**.20420**
Stddev	.00028	.00090	.019	.015	.00265
%RSD	.13849	.45383	.18494	.10400	1.2956
#1	.20106	.19996	10.130	14.186	.20233
#2	.20145	.19868	10.103	14.165	.20607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193694-B-4-C MS Acquired: 12/27/2021 16:42:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.272**	**.20195**	**.21190**	**36.079**	**.19415**
Stddev	.053	.00035	.00086	.007	.00079
%RSD	.24724	.17223	.40807	.02034	.40503
#1	21.235	.20171	.21129	36.074	.19360
#2	21.310	.20220	.21252	36.084	.19471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.63**	**.19940**	**20.331**	**.22026**	**.20199**
Stddev	.00	.00113	.025	.00009	.00106
%RSD	.0044	.56442	.12449	.04101	.52476
#1	24.63	.20019	20.313	.22033	.20124
#2	24.63	.19860	20.349	.22020	.20274
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.616**	**.19224**	**.82317**	**.9970**	**.20497**
Stddev	.030	.00016	.00011	.0004	.00047
%RSD	.26013	.08380	.01347	.0429	.22963
#1	11.595	.19213	.82325	.9973	.20464
#2	11.638	.19236	.82309	.9967	.20530
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193694-B-4-C MS Acquired: 12/27/2021 16:42:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20397**	**.20305**	**.20534**	**1.002**
Stddev	.00129	.00029	.00191	.002
%RSD	.63229	.14471	.92791	.2003
#1	.20306	.20284	.20399	1.003
#2	.20489	.20325	.20669	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3454.2**	**2740.1**	**25335.**	**2721.2**
Stddev	5.8	8.5	143.	6.0
%RSD	.16688	.31156	.56403	.21936
#1	3458.3	2746.2	25436.	2725.4
#2	3450.1	2734.1	25234.	2717.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.259%	95.360%	95.345%	101.08%
Range				

Sample Name: 480-193694-B-4-D MSD Acquired: 12/27/2021 16:46:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04924**	**10.113**	**.21536**	**.23200**	**.23347**
Stddev	.00058	.091	.00047	.00036	.00002
%RSD	1.1736	.90404	.21689	.15521	.00958
#1	.04884	10.048	.21569	.23175	.23348
#2	.04965	10.178	.21503	.23226	.23345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21715**	**61.557**	**.20606**	**.0389**	**.19426**
Stddev	.00115	.199	.00005	.0400	.00011
%RSD	.52798	.32283	.02340	102.8	.05632
#1	.21634	61.416	.20603	.0672	.19433
#2	.21796	61.697	.20609	.0106	.19418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19904**	**.20169**	**10.081**	**14.122**	**.20571**
Stddev	.00007	.00007	.044	.104	.00222
%RSD	.03303	.03630	.43806	.73743	1.0815
#1	.19908	.20164	10.050	14.048	.20413
#2	.19899	.20174	10.112	14.196	.20728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193694-B-4-D MSD Acquired: 12/27/2021 16:46:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.429**	**.20407**	**.21160**	**36.320**	**.19486**
Stddev	.030	.00037	.00051	.167	.00065
%RSD	.14167	.18096	.24220	.45996	.33254
#1	21.450	.20433	.21124	36.202	.19531
#2	21.407	.20381	.21197	36.438	.19440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.67**	**.20024**	**20.377**	**.22157**	**.19927**
Stddev	.00	.00029	.002	.00247	.00115
%RSD	.0021	.14366	.00890	1.1139	.57739
#1	24.67	.20044	20.378	.21982	.19846
#2	24.67	.20004	20.376	.22331	.20009
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.488**	**.19054**	**.83060**	**.9939**	**.20423**
Stddev	.037	.00017	.00394	.0027	.00049
%RSD	.32428	.09049	.47488	.2697	.24045
#1	11.461	.19042	.82781	.9920	.20388
#2	11.514	.19066	.83339	.9958	.20457
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193694-B-4-D MSD Acquired: 12/27/2021 16:46:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20349**	**.20029**	**.20243**	**.9995**
Stddev	.00050	.00003	.00001	.0009
%RSD	.24428	.01271	.00346	.0910
#1	.20314	.20027	.20242	.9988
#2	.20384	.20031	.20243	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3486.4**	**2757.9**	**25684.**	**2760.6**
Stddev	11.3	10.0	12.	3.7
%RSD	.32289	.36362	.04481	.13572
#1	3494.4	2765.0	25676.	2758.0
#2	3478.4	2750.9	25692.	2763.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.091%	95.980%	96.660%	102.55%
Range				

Sample Name: MB 480-610027/1-A Acquired: 12/27/2021 16:50:04 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00509**	**-.00121**	F **-.00984**	**.00000**
Stddev	.00110	.01346	.00091	.00037	.00003
%RSD	597.94	264.29	74.868	3.7396	1461.8
#1	.00096	.01461	-.00185	-.01010	-.00002
#2	-.00059	-.00442	-.00057	-.00958	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.00800	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00707**	**.00005**	**.0070**	**.00009**
Stddev	.00015	.00015	.00011	.0030	.00007
%RSD	464.27	2.0568	234.28	42.93	77.896
#1	.00013	.00696	.00012	.0049	.00013
#2	-.00007	.00717	-.00003	.0092	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**.00266**	**.00197**	**-.07964**	**.00292**
Stddev	.00055	.00073	.00249	.03044	.00235
%RSD	64.552	27.437	126.31	38.223	80.646
#1	.00046	.00318	.00021	-.05812	.00125
#2	.00124	.00215	.00373	-.10117	.00458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-610027/1-A Acquired: 12/27/2021 16:50:04 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00005**	**.00013**	**-.01576**	**.00027**
Stddev	.00173	.00001	.00044	.01807	.00047
%RSD	552.90	14.280	340.51	114.67	172.37
#1	-.00091	.00005	.00044	-.00298	.00061
#2	.00154	.00004	-.00018	-.02853	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00179**	**.00451**	**.00241**	**.00264**
Stddev	.00	.00045	.00068	.00122	.00294
%RSD	.0076	25.085	15.103	50.556	111.25
#1	25.02	.00211	.00499	.00327	.00056
#2	25.02	.00147	.00403	.00155	.00472
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00518**	**-.00043**	**.00020**	**.9933**	**.00021**
Stddev	.03521	.00017	.00012	.0035	.00045
%RSD	679.44	38.833	60.081	.3569	209.84
#1	-.01971	-.00031	.00028	.9958	-.00010
#2	.03008	-.00055	.00011	.9908	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-610027/1-A Acquired: 12/27/2021 16:50:04 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00101**	**-.00027**	**.00015**	**1.001**
Stddev	.00135	.00032	.00021	.000
%RSD	134.26	118.57	138.15	.0425
#1	.00196	-.00049	.00030	1.001
#2	.00005	-.00004	.00000	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3886.2**	**2857.7**	**26863.**	**2778.6**
Stddev	11.2	16.2	141.	12.0
%RSD	.28887	.56655	.52460	.43118
#1	3878.3	2846.3	26962.	2770.1
#2	3894.1	2869.2	26763.	2787.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.42%	99.453%	101.10%	103.22%
Range				

Sample Name: LCS 480-610027/2-A Acquired: 12/27/2021 16:53:51 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04925**	**10.039**	**.20794**	**.19606**	**.20468**
Stddev	.00178	.003	.00171	.00056	.00006
%RSD	3.6158	.03207	.82466	.28367	.02733
#1	.05051	10.036	.20916	.19566	.20464
#2	.04799	10.041	.20673	.19645	.20472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21164**	**9.9597**	**.20344**	**.0277**	**.19200**
Stddev	.00080	.0281	.00020	.0228	.00047
%RSD	.37898	.28237	.09591	82.47	.24308
#1	.21107	9.9398	.20358	.0438	.19167
#2	.21220	9.9796	.20330	.0115	.19233
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19722**	**.20026**	**10.179**	**9.6751**	**.20114**
Stddev	.00059	.00019	.000	.0589	.00265
%RSD	.29760	.09458	.00061	.60911	1.3165
#1	.19681	.20013	10.179	9.6334	.20302
#2	.19764	.20040	10.179	9.7167	.19927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-610027/2-A Acquired: 12/27/2021 16:53:51 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.073**	**.20545**	**.20758**	**9.7603**	**.19283**
Stddev	.031	.00012	.00003	.0152	.00091
%RSD	.31074	.05822	.01323	.15604	.46950
#1	10.095	.20537	.20760	9.7495	.19219
#2	10.051	.20554	.20756	9.7711	.19347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.62**	**.19887**	**9.7419**	**.21717**	**.20117**
Stddev	.00	.00163	.0087	.00085	.00261
%RSD	.0044	.81751	.08949	.39203	1.2958
#1	24.62	.19772	9.7357	.21657	.20302
#2	24.62	.20002	9.7481	.21778	.19933
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7044**	**.18473**	**.20254**	**1.004**	**.20139**
Stddev	.0320	.00010	.00010	.002	.00060
%RSD	.32938	.05612	.04691	.1556	.29682
#1	9.6818	.18465	.20247	1.005	.20097
#2	9.7270	.18480	.20261	1.003	.20181
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-610027/2-A Acquired: 12/27/2021 16:53:51 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20051**	**.19771**	**.20804**	**1.001**
Stddev	.00007	.00039	.00036	.002
%RSD	.03320	.19789	.17216	.1499
#1	.20047	.19799	.20829	.9998
#2	.20056	.19743	.20778	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3680.3**	**2844.7**	**26476.**	**2810.1**
Stddev	9.0	4.3	75.	3.2
%RSD	.24407	.15226	.28193	.11487
#1	3686.6	2847.8	26424.	2812.4
#2	3673.9	2841.6	26529.	2807.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.101%	98.999%	99.641%	104.39%
Range				

Sample Name: 480-193756-B-1-A Acquired: 12/27/2021 16:57:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.01359**	**.00118**	**.51493**	**.17689**
Stddev	.00022	.04560	.00209	.00049	.00017
%RSD	304.10	335.51	177.42	.09523	.09354
#1	-.00008	.01865	.00266	.51459	.17677
#2	.00023	-.04584	-.00030	.51528	.17701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**187.72**	**.00046**	**.0347**	**.00075**
Stddev	.00004	.56	.00016	.0060	.00015
%RSD	34.359	.30041	33.493	17.15	19.975
#1	.00014	188.11	.00035	.0305	.00085
#2	.00008	187.32	.00057	.0389	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**-.00012**	**3.2327**	**7.5992**	**.03781**
Stddev	.00006	.00034	.0138	.0397	.00149
%RSD	9.4906	290.47	.42672	.52292	3.9372
#1	.00059	.00012	3.2425	7.6273	.03675
#2	.00067	-.00036	3.2230	7.5711	.03886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-B-1-A Acquired: 12/27/2021 16:57:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.601**	**.51190**	**.00062**	**38.867**	**.00008**
Stddev	.138	.00161	.00015	.068	.00010
%RSD	.27240	.31507	23.581	.17560	128.56
#1	50.504	.51076	.00052	38.915	.00001
#2	50.699	.51304	.00072	38.819	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00334**	**39.081**	**.00051**	**.00020**
Stddev	.00	.00003	.034	.00090	.00129
%RSD	.0043	.94460	.08627	175.54	653.48
#1	25.12	.00336	39.105	-.00012	-.00072
#2	25.12	.00331	39.057	.00114	.00111
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.920**	**-.00041**	**.67756**	**.9899**	**.00180**
Stddev	.025	.00025	.00171	.0108	.00021
%RSD	.15417	60.325	.25194	1.096	11.489
#1	15.937	-.00059	.67877	.9976	.00195
#2	15.902	-.00024	.67635	.9822	.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-B-1-A Acquired: 12/27/2021 16:57:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00093**	**.00227**	**.9999**
Stddev	.00131	.00061	.00028	.0001
%RSD	1704.0	65.422	12.516	.0130
#1	.00085	-.00137	.00206	.9998
#2	-.00101	-.00050	.00247	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3359.6**	**2696.6**	**24963.**	**2731.2**
Stddev	6.4	.3	122.	9.7
%RSD	.19035	.01006	.48768	.35407
#1	3355.1	2696.4	25050.	2724.4
#2	3364.1	2696.8	24877.	2738.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.815%	93.846%	93.948%	101.46%
Range				

Sample Name: 480-193756-B-2-A Acquired: 12/27/2021 17:01:07 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00472**	**.00089**	**.49808**	**.05426**
Stddev	.00054	.03291	.00018	.00050	.00006
%RSD	108.01	697.41	20.019	.10028	.10789
#1	-.00012	.02799	.00077	.49843	.05430
#2	-.00088	-.01855	.00102	.49772	.05422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**185.06**	**.00055**	**-.0118**	**.04094**
Stddev	.00011	.69	.00013	.0285	.00012
%RSD	87.501	.37532	23.434	241.8	.28482
#1	-.00005	184.56	.00046	.0084	.04086
#2	-.00021	185.55	.00064	-.0319	.04103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00059**	**.06373**	**7.5486**	**.03930**
Stddev	.00007	.00036	.00045	.0084	.00359
%RSD	51.743	60.800	.70046	.11194	9.1293
#1	.00008	.00084	.06404	7.5427	.04184
#2	.00018	.00033	.06341	7.5546	.03676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-B-2-A Acquired: 12/27/2021 17:01:07 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.880**	**1.0298**	**.00497**	**39.152**	**.01029**
Stddev	.128	.0019	.00002	.139	.00043
%RSD	.26118	.18933	.49631	.35608	4.1349
#1	48.970	1.0312	.00495	39.053	.01059
#2	48.790	1.0284	.00499	39.250	.00998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00305**	**38.069**	**.00081**	**.00185**
Stddev	.00	.00014	.059	.00050	.00281
%RSD	.0019	4.7537	.15426	62.476	151.80
#1	25.04	.00315	38.110	.00045	-.00014
#2	25.04	.00295	38.027	.00116	.00383
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.522**	**-.00053**	**.71636**	**.9970**	**.00189**
Stddev	.061	.00041	.00466	.0025	.00058
%RSD	.45412	77.735	.65002	.2483	30.415
#1	13.479	-.00082	.71307	.9988	.00230
#2	13.565	-.00024	.71966	.9953	.00149
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-B-2-A Acquired: 12/27/2021 17:01:07 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00211**	**.00025**	**.00178**	**1.000**
Stddev	.00069	.00049	.00011	.001
%RSD	32.632	194.14	6.4499	.0551
#1	.00259	-.00009	.00186	.9998
#2	.00162	.00060	.00170	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3350.8**	**2668.4**	**24928.**	**2697.0**
Stddev	5.7	2.9	27.	7.2
%RSD	.17065	.10731	.10666	.26586
#1	3354.9	2670.4	24909.	2702.0
#2	3346.8	2666.4	24947.	2691.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.588%	92.864%	93.814%	100.18%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 17:04:53 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97431**	**49.559**	**.98947**	**1.0093**	**.97557**
Stddev	.00131	.054	.00375	.0009	.00303
%RSD	.13404	.10870	.37922	.08948	.31050
#1	.97338	49.521	.99213	1.0100	.97771
#2	.97523	49.597	.98682	1.0087	.97342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99039**	**48.717**	**.98898**	**.9868**	**.94945**
Stddev	.00224	.154	.00163	.0787	.00032
%RSD	.22656	.31696	.16528	7.974	.03408
#1	.99198	48.826	.99014	1.042	.94922
#2	.98880	48.607	.98783	.9311	.94968
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97315**	**.97204**	**48.799**	**48.115**	**.98480**
Stddev	.00345	.00089	.452	.237	.00117
%RSD	.35413	.09154	.92561	.49356	.11839
#1	.97558	.97267	49.118	48.282	.98562
#2	.97071	.97141	48.480	47.947	.98397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 17:04:53 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.306**	**.97329**	**.99314**	**48.946**	**.95970**
Stddev	.068	.00164	.00220	.129	.00081
%RSD	.14323	.16813	.22124	.26407	.08408
#1	47.354	.97444	.99470	49.038	.95913
#2	47.258	.97213	.99159	48.855	.96027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.38**	**.94562**	**24.466**	**.99022**	**.96409**
Stddev	.03	.00211	.040	.00172	.01191
%RSD	.0712	.22275	.16363	.17381	1.2349
#1	37.39	.94413	24.494	.99144	.97251
#2	37.36	.94711	24.438	.98900	.95567
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8320**	**.94623**	**.98448**	**1.485**	**.97598**
Stddev	.0852	.00150	.00327	.011	.00221
%RSD	.86669	.15832	.33244	.7642	.22689
#1	9.8922	.94517	.98680	1.493	.97754
#2	9.7717	.94729	.98217	1.477	.97441
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 17:04:53 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.95545**	**.97364**	**.98393**	**1.515**
Stddev	.00180	.00316	.00011	.001
%RSD	.18789	.32460	.01075	.0696
#1	.95672	.97587	.98401	1.516
#2	.95418	.97140	.98386	1.514
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3325.1**	**2716.3**	**24802.**	**2680.0**
Stddev	.4	4.5	157.	9.9
%RSD	.01106	.16427	.63233	.37108
#1	3324.8	2713.1	24691.	2673.0
#2	3325.4	2719.4	24913.	2687.0

Sample Name: CCB-6825508 Acquired: 12/27/2021 17:08:26 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.02164**	**-.00151**	**-.00892**	**.00006**
Stddev	.00022	.02733	.00051	.00025	.00002
%RSD	46.953	126.31	33.980	2.7984	30.161
#1	.00032	.00231	-.00187	-.00875	.00007
#2	.00063	.04097	-.00115	-.00910	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00174**	**.00002**	**.0128**	**.00019**
Stddev	.00002	.00081	.00014	.0462	.00009
%RSD	26.636	46.759	824.25	361.5	46.806
#1	.00010	.00116	-.00008	.0455	.00013
#2	.00007	.00232	.00011	-.0199	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00224**	**.00070**	**-.12003**	**.00019**
Stddev	.00026	.00065	.00310	.01322	.00031
%RSD	175.26	28.987	445.95	11.015	163.73
#1	-.00004	.00270	-.00150	-.11068	.00041
#2	.00033	.00178	.00289	-.12938	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 17:08:26 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00011**	**.00141**	**-.00612**	**-.00022**
Stddev	.00012	.00006	.00026	.00709	.00001
%RSD	1814.1	51.110	18.514	115.85	3.3494
#1	.00009	-.00015	.00122	-.00111	-.00023
#2	-.00008	-.00007	.00159	-.01113	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00062**	**.00209**	**.00251**	**.00379**
Stddev	.00	.00047	.00024	.00092	.00424
%RSD	.0015	75.601	11.473	36.643	111.87
#1	25.02	.00096	.00226	.00316	.00079
#2	25.02	.00029	.00192	.00186	.00678
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02631**	**-.00051**	**.00027**	**1.002**	**.00020**
Stddev	.00294	.00001	.00006	.001	.00066
%RSD	11.164	1.6163	23.778	.1367	326.56
#1	.02423	-.00052	.00022	1.003	.00067
#2	.02839	-.00050	.00032	1.001	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 17:08:26 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00289**	**-.00032**	**-.00016**	**1.001**
Stddev	.00136	.00048	.00042	.002
%RSD	46.968	147.98	267.70	.1606
#1	.00385	.00001	.00014	1.002
#2	.00193	-.00066	-.00045	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3870.7**	**2855.4**	**26466.**	**2729.6**
Stddev	12.0	10.9	22.	.8
%RSD	.30880	.38159	.08313	.03032
#1	3862.2	2847.7	26451.	2729.0
#2	3879.1	2863.1	26482.	2730.2

Sample Name: CCVL-6825510 Acquired: 12/27/2021 17:12:18 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00544**	**.21019**	**.01438**	F **.00958**	**.00200**
Stddev	.00018	.00465	.00189	.00010	.00001
%RSD	3.3692	2.2139	13.154	1.0485	.30416
#1	.00531	.21348	.01571	.00951	.00199
#2	.00557	.20690	.01304	.00965	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				-50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.50047**	**.00198**	**.0110**	**.00367**
Stddev	.00013	.00187	.00022	.0176	.00004
%RSD	6.3748	.37462	11.100	160.2	1.2162
#1	.00200	.49914	.00183	-.0015	.00364
#2	.00219	.50179	.00214	.0235	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00373**	**.01004**	**.04760**	**.35809**	**.03212**
Stddev	.00018	.00068	.00125	.01108	.00226
%RSD	4.9467	6.7583	2.6276	3.0944	7.0425
#1	.00386	.01052	.04671	.36592	.03372
#2	.00360	.00956	.04848	.35025	.03052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 17:12:18 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17986**	**.00296**	**.01029**	**.95729**	**.00917**
Stddev	.00139	.00004	.00013	.01161	.00029
%RSD	.77517	1.3816	1.2494	1.2131	3.1625
#1	.18085	.00293	.01038	.94908	.00896
#2	.17887	.00299	.01020	.96550	.00937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00900**	**.18362**	**.02184**	**.02381**
Stddev	.00	.00067	.00376	.00065	.00015
%RSD	.0003	7.4764	2.0490	2.9892	.63905
#1	25.00	.00853	.18628	.02230	.02392
#2	25.00	.00948	.18096	.02138	.02370
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49786**	**.00808**	**.00504**	F **.9949**	**.00450**
Stddev	.01613	.00010	.00003	.0024	.00004
%RSD	3.2392	1.2439	.50789	.2442	.92689
#1	.48646	.00801	.00505	.9966	.00447
#2	.50927	.00815	.00502	.9932	.00453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 17:12:18 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02104**	**.00499**	**.00926**	F **1.001**
Stddev	.00029	.00037	.00039	.001
%RSD	1.3984	7.3835	4.1825	.1176
#1	.02124	.00473	.00953	1.001
#2	.02083	.00525	.00899	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3832.6**	**2835.1**	**26530.**	**2722.9**
Stddev	.5	3.8	40.	17.8
%RSD	.01428	.13413	.14993	.65495
#1	3833.0	2837.7	26558.	2735.5
#2	3832.2	2832.4	26502.	2710.3

Sample Name: 480-193756-B-2-ASD@5 Acquired: 12/27/2021 17:16:04 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00090**	**-.00192**	**.08919**	**.01114**
Stddev	.00030	.03159	.00065	.00021	.00001
%RSD	87.581	3518.6	33.934	.23574	.12637
#1	.00055	-.02144	-.00239	.08904	.01115
#2	.00013	.02323	-.00146	.08934	.01113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**37.234**	**.00016**	**.0799**	**.00818**
Stddev	.00010	.086	.00013	.0093	.00006
%RSD	81.973	.23182	80.636	11.65	.69186
#1	.00005	37.173	.00026	.0734	.00814
#2	.00020	37.295	.00007	.0865	.00822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**-.00015**	**.01221**	**1.4000**	**.01014**
Stddev	.00008	.00016	.00318	.0155	.00240
%RSD	38.232	107.74	26.009	1.1042	23.703
#1	-.00026	-.00004	.00997	1.4109	.00844
#2	-.00015	-.00026	.01446	1.3890	.01185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-B-2-ASD@5 Acquired: 12/27/2021 17:16:04 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7920**	**.21143**	**.00079**	**7.8149**	**.00207**
Stddev	.0059	.00054	.00020	.0167	.00043
%RSD	.06028	.25720	25.192	.21347	20.778
#1	9.7878	.21104	.00065	7.8031	.00237
#2	9.7962	.21181	.00093	7.8267	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00056**	**7.3499**	**-.00097**	**-.00072**
Stddev	.00	.00173	.0096	.00011	.00290
%RSD	.0059	309.02	.13068	11.006	403.11
#1	25.02	-.00067	7.3567	-.00105	.00133
#2	25.02	.00179	7.3431	-.00090	-.00277
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7274**	**-.00027**	**.14573**	**.9945**	**.00014**
Stddev	.0471	.00014	.00025	.0034	.00023
%RSD	1.7255	49.828	.16939	.3460	162.00
#1	2.7607	-.00037	.14556	.9921	.00031
#2	2.6941	-.00018	.14591	.9969	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-B-2-ASD@5 Acquired: 12/27/2021 17:16:04 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00050**	**-.00011**	**.00002**	**.9997**
Stddev	.00074	.00020	.00002	.0000
%RSD	149.20	171.51	77.992	.0023
#1	.00102	-.00025	.00003	.9997
#2	-.00003	.00002	.00001	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3647.4**	**2762.5**	**25815.**	**2705.3**
Stddev	1.9	2.5	63.	9.9
%RSD	.05312	.08999	.24410	.36483
#1	3648.7	2764.2	25860.	2712.3
#2	3646.0	2760.7	25771.	2698.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.251%	96.138%	97.153%	100.50%
Range				

Sample Name: 480-193756-B-2-APDS Acquired: 12/27/2021 17:19:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04933**	**9.8368**	**.20999**	**.68083**	**.24739**
Stddev	.00000	.0816	.00119	.00005	.00029
%RSD	.00028	.82950	.56648	.00742	.11819
#1	.04933	9.7792	.20915	.68086	.24719
#2	.04933	9.8945	.21084	.68079	.24760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20494**	**187.38**	**.19986**	**.0369**	**.22657**
Stddev	.00012	1.15	.00076	.0050	.00015
%RSD	.05865	.61251	.37947	13.47	.06757
#1	.20485	186.57	.19932	.0334	.22646
#2	.20502	188.19	.20040	.0404	.22668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18691**	**.19222**	**9.6092**	**16.761**	**.23387**
Stddev	.00051	.00052	.0253	.109	.00314
%RSD	.27512	.26864	.26367	.65221	1.3418
#1	.18654	.19259	9.6271	16.684	.23165
#2	.18727	.19186	9.5913	16.838	.23609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-B-2-APDS Acquired: 12/27/2021 17:19:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.645**	**1.2082**	**.20419**	**47.931**	**.19643**
Stddev	.141	.0013	.00027	.336	.00070
%RSD	.24508	.10892	.13390	.70059	.35604
#1	57.545	1.2072	.20439	47.694	.19594
#2	57.745	1.2091	.20400	48.168	.19692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.70**	**.19570**	**46.592**	**.21451**	**.18909**
Stddev	.00	.00057	.047	.00476	.00056
%RSD	.0048	.29011	.10097	2.2188	.29518
#1	24.70	.19610	46.558	.21115	.18869
#2	24.70	.19529	46.625	.21788	.18948
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.768**	**.19029**	**.89332**	**.9998**	**.19630**
Stddev	.066	.00087	.00564	.0048	.00090
%RSD	.28919	.45615	.63084	.4836	.45657
#1	22.722	.19090	.88934	.9964	.19567
#2	22.815	.18968	.89731	1.003	.19693
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-B-2-APDS Acquired: 12/27/2021 17:19:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19250**	**.19232**	**.18959**	**1.005**
Stddev	.00259	.00077	.00048	.002
%RSD	1.3476	.40246	.25394	.1964
#1	.19433	.19177	.18993	1.006
#2	.19066	.19287	.18925	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3272.9**	**2653.7**	**24733.**	**2706.2**
Stddev	4.8	6.3	132.	19.6
%RSD	.14768	.23850	.53388	.72268
#1	3276.3	2658.2	24827.	2720.0
#2	3269.5	2649.2	24640.	2692.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.574%	92.353%	93.082%	100.53%
Range				

Sample Name: 480-193756-B-2-B MS Acquired: 12/27/2021 17:23:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04983**	**10.078**	**.21559**	**.69550**	**.25523**
Stddev	.00180	.010	.00166	.00072	.00007
%RSD	3.6164	.10219	.76794	.10405	.02605
#1	.04856	10.086	.21442	.69499	.25519
#2	.05111	10.071	.21676	.69602	.25528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21121**	**190.26**	**.20848**	**-.0096**	**.23630**
Stddev	.00138	.66	.00025	.0090	.00021
%RSD	.65131	.34576	.11996	93.38	.08864
#1	.21024	189.80	.20866	-.0033	.23615
#2	.21218	190.73	.20831	-.0160	.23645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19426**	**.20110**	**10.006**	**17.179**	**.23804**
Stddev	.00001	.00067	.019	.174	.00127
%RSD	.00643	.33200	.18598	1.0110	.53326
#1	.19425	.20063	9.9931	17.056	.23714
#2	.19427	.20158	10.019	17.302	.23893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-B-2-B MS Acquired: 12/27/2021 17:23:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**59.223**	**1.2391**	**.21275**	**48.983**	**.20598**
Stddev	.125	.0013	.00006	.135	.00060
%RSD	.21117	.10281	.02826	.27630	.28994
#1	59.134	1.2382	.21280	48.887	.20556
#2	59.311	1.2400	.21271	49.079	.20640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.69**	**.20164**	**47.819**	**.22199**	**.20054**
Stddev	.00	.00046	.003	.00075	.00226
%RSD	.0090	.23015	.00647	.33828	1.1255
#1	24.70	.20197	47.817	.22252	.20213
#2	24.69	.20131	47.821	.22146	.19894
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.954**	**.19365**	**.91631**	**.9992**	**.20431**
Stddev	.137	.00057	.00164	.0006	.00027
%RSD	.59793	.29320	.17901	.0638	.13121
#1	22.857	.19405	.91515	.9987	.20450
#2	23.051	.19325	.91747	.9996	.20412
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-B-2-B MS Acquired: 12/27/2021 17:23:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19901**	**.19945**	**.20427**	**1.001**
Stddev	.00066	.00025	.00029	.000
%RSD	.32930	.12610	.14294	.0265
#1	.19854	.19963	.20448	1.002
#2	.19947	.19927	.20407	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3319.8**	**2702.1**	**25003.**	**2731.0**
Stddev	5.5	11.1	30.	11.6
%RSD	.16417	.41031	.11900	.42649
#1	3316.0	2694.2	24982.	2739.2
#2	3323.7	2709.9	25024.	2722.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.787%	94.036%	94.097%	101.45%
Range				

Sample Name: 480-193756-B-2-C MSD Acquired: 12/27/2021 17:26:57 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05088**	**10.100**	**.21954**	**.69914**	**.25547**
Stddev	.00097	.000	.00077	.00017	.00020
%RSD	1.9107	.00432	.34990	.02465	.07814
#1	.05157	10.101	.22008	.69902	.25533
#2	.05019	10.100	.21899	.69926	.25561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21356**	**191.85**	**.20771**	**.0255**	**.23734**
Stddev	.00044	.45	.00014	.0305	.00014
%RSD	.20661	.23514	.06950	119.6	.06005
#1	.21387	191.53	.20781	.0471	.23724
#2	.21325	192.17	.20761	.0039	.23744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19622**	**.20231**	**10.106**	**17.236**	**.23916**
Stddev	.00072	.00110	.045	.035	.00529
%RSD	.36678	.54414	.45008	.20026	2.2101
#1	.19571	.20153	10.074	17.211	.23543
#2	.19673	.20309	10.138	17.260	.24290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-B-2-C MSD Acquired: 12/27/2021 17:26:57 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**59.768**	**1.2400**	**.21401**	**48.990**	**.20677**
Stddev	.161	.0019	.00047	.171	.00028
%RSD	.26942	.15684	.21905	.35001	.13446
#1	59.654	1.2386	.21434	48.869	.20697
#2	59.882	1.2414	.21368	49.111	.20657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.69**	**.20522**	**48.173**	**.22441**	**.20379**
Stddev	.00	.00033	.037	.00000	.00360
%RSD	.0075	.16087	.07672	.00187	1.7649
#1	24.69	.20499	48.200	.22441	.20633
#2	24.69	.20545	48.147	.22441	.20125
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.165**	**.19359**	**.91772**	**.9947**	**.20551**
Stddev	.004	.00087	.00401	.0061	.00012
%RSD	.01537	.45128	.43727	.6118	.05901
#1	23.162	.19297	.91488	.9904	.20542
#2	23.167	.19421	.92056	.9990	.20559
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-B-2-C MSD Acquired: 12/27/2021 17:26:57 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20314**	**.20071**	**.20114**	**1.001**
Stddev	.00089	.00056	.00057	.000
%RSD	.43626	.27679	.28242	.0150
#1	.20252	.20110	.20073	1.002
#2	.20377	.20032	.20154	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3301.2**	**2702.2**	**25033.**	**2772.8**
Stddev	10.4	8.3	41.	8.3
%RSD	.31565	.30548	.16522	.29829
#1	3308.6	2708.0	25062.	2778.6
#2	3293.9	2696.4	25004.	2766.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.306%	94.040%	94.209%	103.00%
Range				

Sample Name: MB 480-610025/1-A Acquired: 12/27/2021 17:30:31 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**-.01693**	**-.00086**	F **-.00891**	**.00003**
Stddev	.00056	.03814	.00062	.00009	.00004
%RSD	106.29	225.23	72.138	.98236	111.78
#1	.00013	.01004	-.00130	-.00885	.00006
#2	.00092	-.04390	-.00042	-.00897	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.00800	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.03693**	**-.00001**	**.0518**	**-.00005**
Stddev	.00010	.00060	.00001	.0214	.00003
%RSD	5403.6	1.6344	100.90	41.37	52.562
#1	.00007	.03736	-.00000	.0367	-.00003
#2	-.00008	.03650	-.00002	.0670	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00013**	**.00607**	**-.07957**	**.00322**
Stddev	.00024	.00010	.00352	.00996	.00183
%RSD	58.395	75.028	57.946	12.518	56.670
#1	.00059	.00021	.00358	-.08661	.00193
#2	.00025	.00006	.00856	-.07253	.00451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-610025/1-A Acquired: 12/27/2021 17:30:31 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00493**	**.00012**	**.00053**	**-.00622**	**.00041**
Stddev	.00285	.00003	.00009	.00071	.00015
%RSD	57.837	25.399	16.175	11.442	35.639
#1	.00695	.00010	.00047	-.00673	.00031
#2	.00292	.00014	.00059	-.00572	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00109**	**.01253**	**.00049**	**.00177**
Stddev	.00	.00040	.00300	.00165	.00273
%RSD	.0065	36.202	23.931	338.04	153.96
#1	25.02	.00081	.01041	-.00068	-.00016
#2	25.02	.00137	.01465	.00165	.00370
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00365**	**-.00041**	**.00011**	**1.002**	**-.00018**
Stddev	.00423	.00005	.00007	.007	.00006
%RSD	116.14	12.437	66.681	.7513	34.301
#1	.00664	-.00045	.00016	1.007	-.00022
#2	.00065	-.00038	.00006	.9968	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-610025/1-A Acquired: 12/27/2021 17:30:31 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00016**	**.00071**	**1.001**
Stddev	.00009	.00048	.00055	.000
%RSD	22.268	295.24	77.278	.0148
#1	.00033	.00018	.00109	1.000
#2	.00045	-.00050	.00032	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3857.7**	**2839.8**	**26611.**	**2750.6**
Stddev	3.5	1.4	116.	7.9
%RSD	.09155	.04881	.43575	.28857
#1	3855.2	2840.8	26529.	2756.2
#2	3860.2	2838.9	26693.	2745.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.685%	98.830%	100.15%	102.18%
Range				

Sample Name: LCS 480-610025/2-A Acquired: 12/27/2021 17:34:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04774**	**10.157**	**.20643**	**.19486**	**.20206**
Stddev	.00004	.070	.00419	.00064	.00046
%RSD	.08571	.69227	2.0289	.32751	.22676
#1	.04771	10.207	.20346	.19531	.20174
#2	.04777	10.107	.20939	.19441	.20238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21305**	**9.9616**	**.20259**	**.0135**	**.18892**
Stddev	.00074	.0058	.00047	.0094	.00028
%RSD	.34957	.05829	.23050	69.62	.14740
#1	.21357	9.9575	.20226	.0201	.18912
#2	.21252	9.9657	.20292	.0068	.18873
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19800**	**.19707**	**10.070**	**9.5927**	**.19940**
Stddev	.00016	.00009	.010	.0730	.00018
%RSD	.07903	.04619	.10399	.76055	.08791
#1	.19811	.19700	10.063	9.6443	.19927
#2	.19788	.19713	10.078	9.5411	.19952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-610025/2-A Acquired: 12/27/2021 17:34:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8741**	**.20341**	**.20601**	**9.7352**	**.19012**
Stddev	.0374	.00052	.00033	.0269	.00051
%RSD	.37917	.25455	.16146	.27640	.26616
#1	9.8476	.20304	.20625	9.7162	.18976
#2	9.9005	.20377	.20578	9.7543	.19048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.66**	**.19298**	**9.6112**	**.21740**	**.19400**
Stddev	.00	.00060	.0019	.00060	.00042
%RSD	.0011	.31189	.01991	.27627	.21791
#1	24.66	.19340	9.6099	.21698	.19430
#2	24.66	.19255	9.6126	.21783	.19370
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7650**	**.18349**	**.20146**	**.9932**	**.20056**
Stddev	.0246	.00062	.00035	.0023	.00086
%RSD	.25152	.33642	.17549	.2290	.43092
#1	9.7823	.18393	.20121	.9948	.19995
#2	9.7476	.18305	.20171	.9915	.20117
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-610025/2-A Acquired: 12/27/2021 17:34:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19884**	**.19746**	**.20006**	**1.002**
Stddev	.00109	.00012	.00020	.001
%RSD	.55012	.06114	.09801	.0664
#1	.19962	.19755	.20020	1.001
#2	.19807	.19737	.19992	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3655.3**	**2801.5**	**26036.**	**2735.4**
Stddev	6.7	1.8	77.	6.6
%RSD	.18337	.06303	.29410	.24100
#1	3650.5	2800.2	26090.	2740.1
#2	3660.0	2802.7	25982.	2730.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.455%	97.495%	97.985%	101.61%
Range				

Sample Name: 480-193765-C-2-A Acquired: 12/27/2021 17:37:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.04827**	**-.00199**	**-.00839**	**.00153**
Stddev	.00130	.00802	.00265	.00027	.00002
%RSD	125.27	16.608	133.48	3.2458	.99269
#1	.00195	.05394	-.00386	-.00820	.00155
#2	.00012	.04260	-.00011	-.00859	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.09603**	**.00005**	**.0794**	**.00010**
Stddev	.00002	.00074	.00016	.0316	.00015
%RSD	25.862	.76537	299.52	39.77	159.94
#1	.00009	.09551	.00016	.0571	.00020
#2	.00007	.09655	-.00006	.1017	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.00409**	**.12872**	**-.12125**	**-.00001**
Stddev	.00010	.00090	.00517	.01649	.00147
%RSD	20.460	21.933	4.0201	13.599	10306.
#1	.00059	.00346	.12506	-.10959	-.00105
#2	.00044	.00473	.13238	-.13291	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-2-A Acquired: 12/27/2021 17:37:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04988**	**.00155**	**.00037**	**.12747**	**.00046**
Stddev	.00344	.00002	.00005	.01390	.00013
%RSD	6.8901	1.2226	12.432	10.904	27.711
#1	.04745	.00154	.00034	.13730	.00055
#2	.05231	.00157	.00040	.11765	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00156**	**.04111**	**-.00091**	**.00262**
Stddev	.00	.00059	.00140	.00284	.00231
%RSD	.0017	37.624	3.3992	310.57	87.988
#1	25.02	.00115	.04013	-.00292	.00099
#2	25.02	.00198	.04210	.00109	.00426
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14516**	**-.00030**	**.00036**	**.9969**	**.00457**
Stddev	.00462	.00005	.00002	.0049	.00045
%RSD	3.1810	16.241	5.7616	.4951	9.7563
#1	.14843	-.00034	.00037	1.000	.00426
#2	.14190	-.00027	.00034	.9934	.00489
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-2-A Acquired: 12/27/2021 17:37:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00009**	**.01259**	**1.001**
Stddev	.00074	.00037	.00020	.002
%RSD	207.48	412.16	1.5815	.2306
#1	.00088	-.00017	.01273	1.002
#2	-.00017	.00035	.01245	.9990
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3889.9**	**2850.6**	**26652.**	**2753.0**
Stddev	5.1	6.4	17.	2.4
%RSD	.13179	.22459	.06520	.08896
#1	3886.3	2846.1	26640.	2754.7
#2	3893.5	2855.2	26665.	2751.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.52%	99.205%	100.30%	102.26%
Range				

Sample Name: 480-193765-C-1-A Acquired: 12/27/2021 17:41:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**-.00511**	**-.00167**	**-.00866**	**.00036**
Stddev	.00008	.00804	.00055	.00006	.00001
%RSD	8.3525	157.24	33.048	.71530	3.8132
#1	.00100	.00057	-.00206	-.00870	.00037
#2	.00089	-.01079	-.00128	-.00862	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.03693**	**-.00009**	**.0392**	**.00012**
Stddev	.00002	.00335	.00011	.0222	.00020
%RSD	42.046	9.0665	126.69	56.58	157.31
#1	.00003	.03457	-.00001	.0235	.00026
#2	.00006	.03930	-.00017	.0549	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00209**	**.01015**	**-.09329**	**.00119**
Stddev	.00024	.00062	.00318	.01263	.00004
%RSD	169.19	29.761	31.386	13.543	3.7745
#1	.00031	.00253	.01240	-.08436	.00115
#2	-.00003	.00165	.00789	-.10222	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-1-A Acquired: 12/27/2021 17:41:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02211**	**.00025**	**.00005**	**.12717**	**-.00014**
Stddev	.00256	.00004	.00000	.00949	.00024
%RSD	11.572	13.750	5.4689	7.4589	174.20
#1	.02392	.00028	.00005	.13387	.00003
#2	.02030	.00023	.00005	.12046	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00028**	**.03371**	**.00114**	**.00259**
Stddev	.00	.00023	.00034	.00006	.00129
%RSD	.0013	82.910	1.0002	5.1853	49.945
#1	25.02	.00044	.03395	.00119	.00350
#2	25.02	.00011	.03347	.00110	.00168
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01467**	**-.00054**	**.00036**	**.9958**	**.00049**
Stddev	.01392	.00003	.00018	.0015	.00023
%RSD	94.924	6.2199	49.464	.1485	47.139
#1	.02451	-.00056	.00048	.9969	.00065
#2	.00482	-.00052	.00023	.9948	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-1-A Acquired: 12/27/2021 17:41:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00180**	**-.00024**	**.00902**	**1.001**
Stddev	.00053	.00034	.00027	.000
%RSD	29.529	143.81	2.9532	.0052
#1	.00218	-.00048	.00884	1.001
#2	.00143	.00000	.00921	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3882.0**	**2870.2**	**27081.**	**2827.1**
Stddev	2.8	5.3	33.	7.2
%RSD	.07325	.18485	.12090	.25529
#1	3884.0	2874.0	27104.	2822.0
#2	3879.9	2866.5	27058.	2832.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.31%	99.887%	101.92%	105.02%
Range				

Sample Name: 480-193765-C-1-ASD@5 Acquired: 12/27/2021 17:45:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.01098**	**-.00170**	**-.01047**	**.00009**
Stddev	.00013	.01195	.00124	.00000	.00002
%RSD	218.26	108.89	72.917	.00482	22.323
#1	.00003	-.00253	-.00257	-.01047	.00008
#2	-.00015	-.01943	-.00082	-.01047	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.01093**	**-.00007**	**.0396**	**.00019**
Stddev	.00001	.00656	.00024	.0065	.00009
%RSD	46.458	60.025	375.93	16.34	44.409
#1	-.00003	.00629	-.00024	.0442	.00025
#2	-.00001	.01557	.00011	.0350	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00004**	**.01241**	**-.09188**	**.00309**
Stddev	.00020	.00042	.00256	.02676	.00083
%RSD	624.92	958.41	20.662	29.128	26.916
#1	.00018	.00034	.01059	-.11080	.00250
#2	-.00011	-.00025	.01422	-.07296	.00367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-1-ASD@5 Acquired: 12/27/2021 17:45:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00011**	**.00001**	**.02211**	**.00028**
Stddev	.00348	.00007	.00023	.01326	.00005
%RSD	1208.4	67.752	3174.5	59.978	16.742
#1	-.00217	.00016	-.00016	.03149	.00031
#2	.00275	.00005	.00017	.01273	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00039**	**.00153**	**.00104**	**.00144**
Stddev	.00	.00019	.00080	.00126	.00251
%RSD	.0007	47.632	52.148	120.27	174.07
#1	25.02	-.00052	.00210	.00193	.00321
#2	25.02	-.00026	.00097	.00016	-.00033
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00608**	**-.00033**	**.00016**	**.9923**	**-.00032**
Stddev	.02081	.00018	.00008	.0044	.00009
%RSD	342.13	55.018	51.266	.4391	28.791
#1	-.00863	-.00020	.00010	.9893	-.00038
#2	.02080	-.00046	.00022	.9954	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-1-ASD@5 Acquired: 12/27/2021 17:45:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00062**	**-.00006**	**.00244**	**1.001**
Stddev	.00026	.00048	.00009	.001
%RSD	41.817	767.21	3.7660	.1445
#1	.00080	-.00040	.00251	1.002
#2	.00044	.00028	.00238	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3817.6**	**2826.7**	**26373.**	**2710.8**
Stddev	2.4	2.5	125.	23.3
%RSD	.06237	.09001	.47285	.85871
#1	3815.9	2828.5	26461.	2727.3
#2	3819.3	2824.9	26285.	2694.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.649%	98.373%	99.253%	100.70%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 17:49:17 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97075**	**50.033**	**.99260**	**1.0169**	**.98316**
Stddev	.00299	.083	.00341	.0041	.00185
%RSD	.30817	.16614	.34313	.40090	.18781
#1	.96863	50.092	.99019	1.0141	.98186
#2	.97286	49.975	.99501	1.0198	.98447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0055**	**49.261**	**.98748**	**1.008**	**.95158**
Stddev	.0040	.049	.00263	.012	.00024
%RSD	.39833	.09861	.26675	1.185	.02563
#1	1.0027	49.226	.98562	1.017	.95175
#2	1.0084	49.295	.98934	1.000	.95141
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98193**	**.96915**	**49.239**	**48.442**	**.98157**
Stddev	.00201	.00329	.108	.114	.00028
%RSD	.20514	.33933	.22010	.23468	.02891
#1	.98050	.96683	49.163	48.362	.98137
#2	.98335	.97148	49.316	48.522	.98178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 17:49:17 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.234**	**.96892**	**1.0020**	**48.924**	**.95943**
Stddev	.172	.00327	.0006	.031	.00115
%RSD	.36433	.33725	.06355	.06310	.11988
#1	47.112	.96661	1.0016	48.902	.95862
#2	47.356	.97123	1.0025	48.945	.96024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.52**	**.94880**	**24.826**	**.99322**	**.98296**
Stddev	.01	.00299	.013	.00418	.00101
%RSD	.0375	.31468	.05217	.42048	.10243
#1	37.51	.95092	24.817	.99027	.98224
#2	37.53	.94669	24.835	.99617	.98367
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9182**	**.95628**	**.98280**	**1.509**	**.97783**
Stddev	.0348	.00174	.00117	.006	.00346
%RSD	.35078	.18191	.11946	.4069	.35426
#1	9.8936	.95751	.98196	1.505	.97539
#2	9.9428	.95505	.98363	1.514	.98028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 17:49:17 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.96687**	**.98065**	**.99650**	**1.513**
Stddev	.00510	.00150	.00407	.005
%RSD	.52761	.15283	.40834	.3134
#1	.97048	.97959	.99362	1.510
#2	.96326	.98171	.99938	1.516
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3331.3**	**2725.5**	**24856.**	**2664.0**
Stddev	11.5	3.6	166.	7.6
%RSD	.34562	.13068	.66823	.28677
#1	3323.2	2723.0	24973.	2658.6
#2	3339.5	2728.1	24738.	2669.4

Sample Name: CCB-6825508 Acquired: 12/27/2021 17:52:50 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.01613**	**-.00242**	**-.00911**	**.00002**
Stddev	.00045	.00820	.00029	.00031	.00000
%RSD	863.29	50.876	12.049	3.4394	10.615
#1	-.00027	.01032	-.00221	-.00889	.00002
#2	.00037	.02193	-.00262	-.00933	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00216**	**.00013**	**.0180**	**.00014**
Stddev	.00007	.00197	.00004	.0865	.00016
%RSD	133.08	91.224	28.419	480.0	109.81
#1	.00011	.00077	.00016	-.0432	.00026
#2	.00000	.00355	.00010	.0792	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00087**	**.00326**	**-.10498**	**.00270**
Stddev	.00021	.00015	.00430	.00076	.00142
%RSD	251.61	17.840	131.86	.72035	52.652
#1	.00023	.00097	.00022	-.10445	.00370
#2	-.00007	.00076	.00630	-.10552	.00169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 17:52:50 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**-.00002**	**.00137**	**-.03026**	**.00012**
Stddev	.00255	.00001	.00003	.00875	.00015
%RSD	312.68	32.063	2.4671	28.909	124.06
#1	.00099	-.00001	.00139	-.03644	.00001
#2	-.00262	-.00002	.00134	-.02407	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00088**	**-.00222**	**.00024**	**.00437**
Stddev	.00	.00075	.00236	.00081	.00426
%RSD	.0019	85.635	106.05	343.00	97.572
#1	25.02	.00035	-.00056	-.00034	.00135
#2	25.02	.00141	-.00389	.00081	.00738
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02154**	**-.00016**	**.00013**	**.9943**	**.00019**
Stddev	.00461	.00022	.00005	.0012	.00027
%RSD	21.426	135.12	39.444	.1224	144.11
#1	.02480	-.00001	.00016	.9952	.00038
#2	.01828	-.00032	.00009	.9935	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 17:52:50 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00172**	**-.00005**	**-.00024**	**1.002**
Stddev	.00061	.00015	.00006	.000
%RSD	35.454	310.47	25.175	.0363
#1	.00129	-.00016	-.00020	1.002
#2	.00215	.00006	-.00028	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3827.6**	**2795.1**	**26263.**	**2713.4**
Stddev	7.0	5.9	50.	4.8
%RSD	.18252	.21194	.18950	.17733
#1	3822.6	2790.9	26298.	2710.0
#2	3832.5	2799.3	26228.	2716.8

Sample Name: CCVL-6825510 Acquired: 12/27/2021 17:56:40 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00592**	**.16923**	**.01364**	F **.00954**	**.00202**
Stddev	.00027	.01478	.00181	.00027	.00002
%RSD	4.5979	8.7363	13.284	2.8528	.83763
#1	.00572	.17968	.01492	.00974	.00203
#2	.00611	.15877	.01236	.00935	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				-50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00181**	**.48006**	**.00206**	**.0640**	**.00374**
Stddev	.00007	.00729	.00010	.0204	.00021
%RSD	3.6892	1.5180	4.7105	31.81	5.5520
#1	.00185	.48522	.00199	.0784	.00359
#2	.00176	.47491	.00213	.0496	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00411**	W **.01304**	**.04943**	W **.32835**	**.03203**
Stddev	.00001	.00088	.00131	.05614	.00029
%RSD	.15404	6.7539	2.6461	17.096	.91809
#1	.00411	.01366	.04850	.36804	.03182
#2	.00412	.01242	.05035	.28865	.03224
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass
Value		.01000		.50000	
Range		30.000%		-30.000%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 17:56:40 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18657**	**.00295**	**.01012**	**.94543**	**.00915**
Stddev	.00439	.00007	.00001	.00925	.00029
%RSD	2.3520	2.2442	.12421	.97816	3.2113
#1	.18967	.00300	.01012	.95197	.00894
#2	.18347	.00290	.01013	.93889	.00936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00895**	**.17774**	**.02045**	**.02339**
Stddev	.00	.00011	.00092	.00144	.00062
%RSD	.0004	1.1837	.51672	7.0199	2.6499
#1	25.00	.00902	.17839	.01943	.02383
#2	25.00	.00887	.17709	.02146	.02295
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48459**	**.00804**	**.00509**	F **.9959**	**.00440**
Stddev	.02648	.00008	.00001	.0027	.00041
%RSD	5.4646	.93745	.26540	.2702	9.4187
#1	.46587	.00799	.00508	.9978	.00469
#2	.50332	.00809	.00510	.9940	.00410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 17:56:40 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01843**	**.00449**	**.00943**	F **1.000**
Stddev	.00055	.00035	.00003	.001
%RSD	2.9695	7.7947	.28046	.0875
#1	.01882	.00424	.00941	1.001
#2	.01805	.00473	.00945	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3834.9**	**2818.0**	**26428.**	**2728.9**
Stddev	8.9	11.1	87.	5.2
%RSD	.23130	.39302	.32977	.19151
#1	3828.6	2810.2	26490.	2725.2
#2	3841.1	2825.9	26366.	2732.6

Sample Name: 480-193765-C-1-APDS Acquired: 12/27/2021 18:00:27 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04737**	**9.8258**	**.20126**	**.19178**	**.20081**
Stddev	.00046	.0293	.00184	.00009	.00069
%RSD	.97297	.29838	.91327	.04434	.34310
#1	.04704	9.8465	.20256	.19172	.20129
#2	.04770	9.8050	.19996	.19184	.20032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20216**	**9.6623**	**.19679**	**-.0060**	**.18530**
Stddev	.00042	.0254	.00024	.0122	.00019
%RSD	.20902	.26265	.12261	203.6	.10499
#1	.20246	9.6802	.19696	-.0147	.18543
#2	.20186	9.6443	.19662	.0026	.18516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18914**	**.19395**	**9.8212**	**9.3970**	**.19612**
Stddev	.00017	.00053	.0640	.0254	.00243
%RSD	.08750	.27204	.65203	.26982	1.2376
#1	.18902	.19358	9.8665	9.4149	.19783
#2	.18926	.19433	9.7759	9.3791	.19440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-1-APDS Acquired: 12/27/2021 18:00:27 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8290**	**.20075**	**.19971**	**9.6950**	**.18681**
Stddev	.0512	.00043	.00072	.0474	.00083
%RSD	.52099	.21413	.36190	.48922	.44234
#1	9.8652	.20106	.20022	9.7285	.18739
#2	9.7927	.20045	.19920	9.6615	.18622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.67**	**.19073**	**9.6934**	**.20770**	**.18983**
Stddev	.00	.00049	.0020	.00261	.00210
%RSD	.0037	.25599	.02103	1.2561	1.1078
#1	24.67	.19038	9.6920	.20954	.18835
#2	24.68	.19107	9.6949	.20585	.19132
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6194**	**.18438**	**.19977**	**.9998**	**.19397**
Stddev	.0501	.00005	.00228	.0016	.00061
%RSD	.52094	.02581	1.1398	.1580	.31510
#1	9.6548	.18435	.20138	.9987	.19440
#2	9.5840	.18441	.19816	1.001	.19353
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-1-APDS Acquired: 12/27/2021 18:00:27 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19247**	**.19099**	**.20281**	**1.008**
Stddev	.00232	.00032	.00092	.002
%RSD	1.2052	.16797	.45449	.1786
#1	.19411	.19076	.20346	1.009
#2	.19083	.19121	.20216	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3683.5**	**2839.2**	**26242.**	**2780.1**
Stddev	14.3	11.3	56.	3.6
%RSD	.38691	.39845	.21161	.13101
#1	3673.4	2831.2	26202.	2777.5
#2	3693.6	2847.2	26281.	2782.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.185%	98.808%	98.758%	103.27%
Range				

Sample Name: 480-193765-C-1-B MS Acquired: 12/27/2021 18:04:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04768**	**9.9639**	**.20573**	**.19460**	**.20067**
Stddev	.00075	.0871	.00037	.00094	.00002
%RSD	1.5716	.87388	.18033	.48388	.00831
#1	.04715	9.9023	.20547	.19393	.20068
#2	.04821	10.025	.20599	.19526	.20066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20986**	**9.8623**	**.19997**	**.0510**	**.18753**
Stddev	.00085	.0231	.00027	.0878	.00002
%RSD	.40567	.23397	.13638	172.2	.01315
#1	.20925	9.8460	.20016	-.0111	.18752
#2	.21046	9.8787	.19977	.1131	.18755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19535**	**.19606**	**9.9474**	**9.4544**	**.19882**
Stddev	.00022	.00000	.0098	.0620	.00152
%RSD	.11035	.00189	.09894	.65547	.76552
#1	.19520	.19606	9.9404	9.4106	.19990
#2	.19550	.19607	9.9544	9.4983	.19775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-1-B MS Acquired: 12/27/2021 18:04:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8079**	**.20028**	**.20539**	**9.7249**	**.18823**
Stddev	.0614	.00098	.00006	.0155	.00062
%RSD	.62571	.48805	.03163	.15895	.32930
#1	9.7645	.19958	.20544	9.7358	.18779
#2	9.8513	.20097	.20535	9.7140	.18866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.62**	**.19282**	**9.6333**	**.21548**	**.19583**
Stddev	.00	.00114	.0097	.00110	.00124
%RSD	.0089	.59000	.10055	.50911	.63131
#1	24.63	.19202	9.6264	.21471	.19671
#2	24.62	.19363	9.6401	.21626	.19496
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5901**	**.18234**	**.19933**	**1.001**	**.19925**
Stddev	.0374	.00005	.00078	.003	.00053
%RSD	.38977	.02527	.39082	.3021	.26670
#1	9.5636	.18231	.19878	1.003	.19888
#2	9.6165	.18237	.19988	.9989	.19963
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-1-B MS Acquired: 12/27/2021 18:04:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19895**	**.19561**	**.20678**	**1.002**
Stddev	.00134	.00022	.00034	.001
%RSD	.67105	.11144	.16336	.0625
#1	.19801	.19577	.20654	1.003
#2	.19990	.19546	.20701	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3663.0**	**2814.3**	**26206.**	**2784.2**
Stddev	4.5	1.8	179.	14.6
%RSD	.12265	.06257	.68466	.52576
#1	3659.8	2813.1	26333.	2794.5
#2	3666.2	2815.6	26079.	2773.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.655%	97.943%	98.622%	103.42%
Range				

Sample Name: 480-193765-C-1-C MSD Acquired: 12/27/2021 18:07:37 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04771**	**9.9041**	**.20340**	**.19232**	**.19868**
Stddev	.00046	.0871	.00108	.00063	.00001
%RSD	.96679	.87957	.52906	.32664	.00629
#1	.04804	9.8425	.20416	.19187	.19867
#2	.04739	9.9657	.20264	.19276	.19869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20894**	**9.7508**	**.19867**	**.0406**	**.18512**
Stddev	.00036	.0113	.00013	.0132	.00013
%RSD	.17465	.11612	.06521	32.61	.06968
#1	.20868	9.7588	.19876	.0500	.18522
#2	.20920	9.7428	.19858	.0312	.18503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19354**	**.19397**	**9.8221**	**9.4395**	**.19628**
Stddev	.00056	.00091	.0029	.0165	.00036
%RSD	.29039	.46687	.02984	.17536	.18486
#1	.19315	.19461	9.8241	9.4278	.19654
#2	.19394	.19333	9.8200	9.4512	.19602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-1-C MSD Acquired: 12/27/2021 18:07:37 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6761**	**.19876**	**.20329**	**9.6222**	**.18649**
Stddev	.0377	.00038	.00007	.0170	.00004
%RSD	.38990	.19000	.03407	.17693	.02344
#1	9.7028	.19902	.20324	9.6102	.18653
#2	9.6494	.19849	.20334	9.6342	.18646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.67**	**.19074**	**9.5170**	**.21152**	**.19215**
Stddev	.00	.00044	.0115	.00175	.00049
%RSD	.0079	.23304	.12113	.82641	.25344
#1	24.67	.19105	9.5089	.21029	.19250
#2	24.67	.19043	9.5252	.21276	.19181
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5808**	**.18024**	**.19756**	**.9946**	**.19698**
Stddev	.0293	.00054	.00024	.0015	.00149
%RSD	.30607	.29996	.12150	.1537	.75781
#1	9.6015	.18062	.19739	.9957	.19803
#2	9.5601	.17986	.19773	.9935	.19592
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-1-C MSD Acquired: 12/27/2021 18:07:37 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19649**	**.19352**	**.20309**	**1.003**
Stddev	.00171	.00055	.00020	.000
%RSD	.86879	.28436	.10091	.0104
#1	.19769	.19391	.20294	1.003
#2	.19528	.19313	.20323	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3659.3**	**2802.6**	**26070.**	**2745.4**
Stddev	4.7	.3	81.	19.7
%RSD	.12835	.01074	.31037	.71805
#1	3656.0	2802.4	26013.	2731.5
#2	3662.6	2802.8	26127.	2759.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.558%	97.535%	98.112%	101.98%
Range				

Sample Name: 480-193765-C-3-A Acquired: 12/27/2021 18:11:12 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00462**	**-.00082**	**-.00684**	**.01428**
Stddev	.00037	.01713	.00028	.00009	.00000
%RSD	156.12	370.56	33.904	1.3764	.01749
#1	-.00002	-.00749	-.00062	-.00677	.01429
#2	.00049	.01673	-.00101	-.00690	.01428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.40270**	**.00011**	**.0294**	**.00026**
Stddev	.00002	.00283	.00008	.0468	.00016
%RSD	63.686	.70398	78.054	158.8	61.691
#1	.00005	.40070	.00005	.0625	.00015
#2	.00002	.40471	.00017	-.0036	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00586**	**.02078**	**-.06105**	**.00154**
Stddev	.00005	.00015	.00016	.00978	.00043
%RSD	14.891	2.6118	.77111	16.022	27.664
#1	.00040	.00597	.02089	-.06797	.00184
#2	.00032	.00575	.02067	-.05413	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-3-A Acquired: 12/27/2021 18:11:12 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10976**	**.00192**	**.00057**	**2.0838**	**.00016**
Stddev	.00169	.00001	.00003	.0124	.00012
%RSD	1.5406	.39027	5.5870	.59491	78.469
#1	.10857	.00192	.00055	2.0926	.00007
#2	.11096	.00191	.00059	2.0750	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00180**	**.15713**	**.00019**	**.00445**
Stddev	.00	.00045	.00068	.00078	.00267
%RSD	.0024	24.728	.43245	410.28	59.896
#1	25.02	.00149	.15761	-.00036	.00634
#2	25.02	.00212	.15665	.00074	.00257
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04713**	**-.00023**	**.00184**	**.9935**	**.00171**
Stddev	.00792	.00040	.00012	.0043	.00015
%RSD	16.793	176.69	6.4152	.4351	8.5379
#1	.04154	-.00051	.00176	.9904	.00161
#2	.05273	.00006	.00193	.9966	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-3-A Acquired: 12/27/2021 18:11:12 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00188**	**-.00005**	**.04593**	**1.000**
Stddev	.00120	.00020	.00058	.001
%RSD	63.904	398.03	1.2563	.0830
#1	.00103	-.00019	.04552	1.001
#2	.00272	.00009	.04634	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3838.7**	**2821.2**	**26480.**	**2770.4**
Stddev	5.5	4.3	10.	10.9
%RSD	.14335	.15288	.03707	.39452
#1	3834.8	2818.2	26487.	2762.7
#2	3842.6	2824.3	26473.	2778.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.194%	98.181%	99.654%	102.91%
Range				

Sample Name: 480-193765-C-4-A Acquired: 12/27/2021 18:14:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00361**	**-.00189**	**-.00923**	**.00155**
Stddev	.00007	.02027	.00131	.00015	.00003
%RSD	17.537	561.14	69.016	1.5970	2.2408
#1	.00044	.01072	-.00097	-.00913	.00153
#2	.00034	-.01795	-.00282	-.00934	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.08519**	**.00012**	**.0546**	**.00013**
Stddev	.00009	.00006	.00017	.0707	.00014
%RSD	900.37	.06627	143.89	129.6	101.08
#1	-.00007	.08523	-.00000	.0046	.00023
#2	.00005	.08515	.00024	.1046	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00270**	**.04304**	**-.12172**	**.00202**
Stddev	.00003	.00001	.00072	.04588	.00039
%RSD	8.0342	.25165	1.6669	37.696	19.261
#1	.00043	.00269	.04354	-.15417	.00175
#2	.00038	.00270	.04253	-.08928	.00230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-4-A Acquired: 12/27/2021 18:14:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11360**	**.00138**	**.00005**	**.21698**	**.00018**
Stddev	.00048	.00006	.00009	.01135	.00001
%RSD	.41881	4.5918	182.76	5.2303	3.7320
#1	.11394	.00134	-.00001	.22500	.00017
#2	.11327	.00143	.00011	.20895	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00092**	**.04842**	**.00105**	**.00263**
Stddev	.00	.00031	.00057	.00193	.00002
%RSD	.0019	34.003	1.1831	183.75	.68020
#1	25.02	.00115	.04802	-.00031	.00262
#2	25.02	.00070	.04883	.00242	.00264
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02832**	**-.00028**	**.00040**	**.9942**	**.00133**
Stddev	.00090	.00007	.00002	.0081	.00015
%RSD	3.1708	26.182	4.3631	.8108	11.116
#1	.02896	-.00034	.00041	.9999	.00122
#2	.02769	-.00023	.00039	.9885	.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193765-C-4-A Acquired: 12/27/2021 18:14:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00086**	**-.00002**	**.03433**	**1.001**
Stddev	.00115	.00010	.00026	.001
%RSD	134.58	590.92	.77180	.1371
#1	.00167	-.00008	.03414	1.000
#2	.00004	.00005	.03452	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3898.1**	**2878.7**	**27098.**	**2854.8**
Stddev	1.2	4.8	9.	21.5
%RSD	.02999	.16784	.03337	.75207
#1	3897.3	2875.3	27091.	2870.0
#2	3899.0	2882.2	27104.	2839.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.73%	100.18%	101.98%	106.05%
Range				

Sample Name: 480-193766-A-1-A Acquired: 12/27/2021 18:18:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00948**	**.00008**	**1.1832**	**.03840**
Stddev	.00062	.01241	.00079	.0009	.00011
%RSD	77.379	130.95	949.79	.07331	.27630
#1	.00124	.00070	-.00048	1.1838	.03833
#2	.00036	.01825	.00064	1.1826	.03848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**181.21**	**-.00007**	**.0578**	**.00094**
Stddev	.00002	.55	.00006	.0771	.00026
%RSD	126.65	.30088	96.037	133.2	27.356
#1	-.00000	181.59	-.00011	.1123	.00076
#2	-.00003	180.82	-.00002	.0033	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00385**	**1.0516**	**1.4877**	**.01217**
Stddev	.00008	.00061	.0093	.0379	.00241
%RSD	8.6450	15.859	.88362	2.5444	19.799
#1	.00090	.00428	1.0451	1.4609	.01047
#2	.00102	.00342	1.0582	1.5145	.01388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193766-A-1-A Acquired: 12/27/2021 18:18:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3155**	**.06436**	**.01126**	**167.14**	**.00348**
Stddev	.0057	.00011	.00008	.15	.00026
%RSD	.10640	.16820	.75275	.09140	7.3659
#1	5.3115	.06428	.01120	167.25	.00366
#2	5.3195	.06444	.01132	167.03	.00329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00135**	F **92.736**	**.00153**	**.00189**
Stddev	.00	.00026	.148	.00046	.00254
%RSD	.0027	19.092	.15964	30.407	134.61
#1	25.06	.00117	92.841	.00120	.00368
#2	25.06	.00153	92.631	.00185	.00009
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4077**	**-.00101**	**.27099**	**.9976**	**.00155**
Stddev	.0161	.00021	.00116	.0020	.00010
%RSD	.47246	20.750	.42673	.1985	6.4141
#1	3.3963	-.00087	.27181	.9990	.00162
#2	3.4191	-.00116	.27017	.9962	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193766-A-1-A Acquired: 12/27/2021 18:18:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00169**	**.00033**	**.00299**	**1.001**
Stddev	.00033	.00048	.00015	.001
%RSD	19.748	146.05	5.0628	.0473
#1	.00193	.00067	.00310	1.001
#2	.00145	-.00001	.00288	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3348.2**	**2702.3**	**25216.**	**2828.7**
Stddev	2.9	1.6	112.	.5
%RSD	.08523	.05803	.44269	.01851
#1	3346.2	2701.2	25295.	2828.3
#2	3350.2	2703.4	25137.	2829.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.520%	94.043%	94.898%	105.08%
Range				

Sample Name: 480-193766-A-1-B MS Acquired: 12/27/2021 18:22:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04931**	**10.103**	**.21780**	**1.3982**	**.23304**
Stddev	.00073	.053	.00198	.0009	.00003
%RSD	1.4751	.52586	.90728	.06303	.01400
#1	.04982	10.141	.21919	1.3976	.23307
#2	.04879	10.065	.21640	1.3989	.23302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21493**	**192.13**	**.20691**	**.0140**	**.19626**
Stddev	.00045	.56	.00043	.0225	.00044
%RSD	.21052	.29139	.20561	160.4	.22270
#1	.21461	191.74	.20661	.0299	.19595
#2	.21525	192.53	.20722	-.0019	.19657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19732**	**.20066**	**10.887**	**11.391**	**.21291**
Stddev	.00014	.00007	.052	.009	.00158
%RSD	.07257	.03530	.47478	.07530	.74291
#1	.19722	.20071	10.850	11.385	.21179
#2	.19742	.20061	10.923	11.397	.21403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193766-A-1-B MS Acquired: 12/27/2021 18:22:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.655**	**.26039**	**.21973**	**181.05**	**.19898**
Stddev	.011	.00007	.00036	.64	.00083
%RSD	.07761	.02542	.16571	.35508	.41631
#1	14.647	.26035	.21999	180.59	.19840
#2	14.663	.26044	.21948	181.50	.19957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.71**	**.20009**	F **102.61**	**.22353**	**.20402**
Stddev	.00	.00057	.03	.00131	.00204
%RSD	.0040	.28439	.03166	.58743	1.0007
#1	24.71	.19969	102.59	.22260	.20546
#2	24.71	.20049	102.64	.22446	.20257
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.233**	**.19100**	**.46742**	**1.000**	**.20260**
Stddev	.017	.00027	.00209	.004	.00068
%RSD	.12980	.14113	.44624	.4136	.33542
#1	13.245	.19081	.46594	.9972	.20308
#2	13.221	.19119	.46889	1.003	.20212
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193766-A-1-B MS Acquired: 12/27/2021 18:22:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19660**	**.20042**	**.20116**	**1.002**
Stddev	.00249	.00071	.00080	.002
%RSD	1.2654	.35498	.39887	.1701
#1	.19836	.19992	.20059	1.004
#2	.19484	.20092	.20172	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3281.3**	**2670.6**	**25043.**	**2773.6**
Stddev	1.5	.3	32.	24.2
%RSD	.04628	.01025	.12747	.87231
#1	3282.4	2670.7	25066.	2790.7
#2	3280.3	2670.4	25020.	2756.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.792%	92.939%	94.247%	103.03%
Range				

Sample Name: 480-193766-A-1-C MSD Acquired: 12/27/2021 18:26:05 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04985**	**9.9429**	**.21598**	**1.3742**	**.23205**
Stddev	.00019	.1224	.00316	.0012	.00065
%RSD	.38088	1.2311	1.4627	.08493	.28030
#1	.04999	10.029	.21822	1.3734	.23251
#2	.04972	9.8564	.21375	1.3751	.23159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20989**	**188.53**	**.20627**	**.0067**	**.19479**
Stddev	.00123	.83	.00005	.0177	.00010
%RSD	.58488	.43974	.02535	263.1	.05270
#1	.21076	189.12	.20623	.0193	.19472
#2	.20902	187.94	.20631	-.0058	.19486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19297**	**.20064**	**10.782**	**11.293**	**.21116**
Stddev	.00078	.00016	.039	.094	.00009
%RSD	.40320	.07895	.36019	.83224	.04248
#1	.19352	.20052	10.809	11.360	.21110
#2	.19242	.20075	10.754	11.227	.21123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193766-A-1-C MSD Acquired: 12/27/2021 18:26:05 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.604**	**.26073**	**.21699**	**175.60**	**.19797**
Stddev	.047	.00025	.00126	.41	.00006
%RSD	.32500	.09671	.58232	.23502	.03138
#1	14.637	.26091	.21789	175.89	.19802
#2	14.570	.26056	.21610	175.31	.19793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.72**	**.19705**	F **100.78**	**.22218**	**.20183**
Stddev	.00	.00144	.02	.00145	.00163
%RSD	.0026	.73036	.01986	.65310	.80644
#1	24.72	.19603	100.77	.22321	.20298
#2	24.72	.19807	100.80	.22115	.20068
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.057**	**.18853**	**.46403**	**.9992**	**.20042**
Stddev	.004	.00107	.00176	.0073	.00157
%RSD	.03247	.56681	.37849	.7348	.78365
#1	13.060	.18928	.46527	1.004	.20153
#2	13.054	.18777	.46278	.9940	.19931
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193766-A-1-C MSD Acquired: 12/27/2021 18:26:05 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19214**	**.19716**	**.19690**	**1.001**
Stddev	.00054	.00017	.00101	.000
%RSD	.28121	.08649	.51447	.0059
#1	.19252	.19704	.19762	1.001
#2	.19175	.19728	.19618	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3280.6**	**2660.2**	**24879.**	**2752.4**
Stddev	7.5	5.9	82.	11.6
%RSD	.22874	.22001	.32881	.42008
#1	3275.2	2656.1	24822.	2744.3
#2	3285.9	2664.4	24937.	2760.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.772%	92.579%	93.631%	102.24%
Range				

Sample Name: 480-193769-B-1-A Acquired: 12/27/2021 18:29:41 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.07366**	**-.00211**	**-.00647**	**.00092**
Stddev	.00057	.01576	.00074	.00072	.00001
%RSD	458.91	21.392	35.179	11.056	.77845
#1	.00052	.06252	-.00263	-.00596	.00092
#2	-.00028	.08480	-.00158	-.00697	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.38167**	**.00009**	**.0363**	**.00029**
Stddev	.00003	.00363	.00005	.0089	.00002
%RSD	152.66	.95204	52.235	24.47	5.5011
#1	-.00004	.37910	.00006	.0426	.00030
#2	.00000	.38424	.00012	.0300	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.00332**	**.08329**	**-.05019**	**.00158**
Stddev	.00016	.00092	.00223	.05418	.00007
%RSD	24.609	27.846	2.6735	107.96	4.5679
#1	.00052	.00266	.08172	-.01188	.00163
#2	.00074	.00397	.08487	-.08850	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193769-B-1-A Acquired: 12/27/2021 18:29:41 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03736**	**.00176**	**.00010**	**.20500**	**.00041**
Stddev	.00212	.00004	.00006	.01304	.00043
%RSD	5.6868	2.2684	58.305	6.3631	104.78
#1	.03586	.00174	.00006	.21422	.00011
#2	.03886	.00179	.00015	.19577	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00038**	**.07075**	**-.00074**	**.00199**
Stddev	.00	.00001	.00563	.00063	.00314
%RSD	.0007	3.2345	7.9537	84.143	158.17
#1	25.03	.00038	.07473	-.00119	.00421
#2	25.03	.00039	.06677	-.00030	-.00024
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08924**	**-.00011**	**.00100**	**1.0000**	**.00211**
Stddev	.01451	.00025	.00007	.0019	.00008
%RSD	16.259	229.85	7.1914	.1871	3.6138
#1	.09950	.00007	.00095	.9987	.00216
#2	.07898	-.00028	.00105	1.001	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193769-B-1-A Acquired: 12/27/2021 18:29:41 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00175**	**.00011**	**.11634**	**.9996**
Stddev	.00077	.00004	.00066	.0019
%RSD	43.811	39.008	.57103	.1908
#1	.00229	.00008	.11587	.9982
#2	.00121	.00014	.11681	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3900.8**	**2869.6**	**26916.**	**2820.3**
Stddev	3.8	1.9	41.	6.4
%RSD	.09808	.06553	.15264	.22678
#1	3903.6	2868.3	26945.	2815.8
#2	3898.1	2871.0	26887.	2824.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.80%	99.867%	101.30%	104.77%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 18:33:31 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98561**	**50.055**	**1.0078**	**1.0244**	**.98366**
Stddev	.00130	.006	.0002	.0005	.00063
%RSD	.13192	.01248	.02186	.05082	.06389
#1	.98469	50.059	1.0080	1.0240	.98411
#2	.98653	50.050	1.0076	1.0248	.98322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99952**	**49.490**	**.99240**	**1.073**	**.96283**
Stddev	.00046	.020	.00062	.016	.00037
%RSD	.04609	.04115	.06208	1.488	.03881
#1	.99984	49.504	.99284	1.062	.96309
#2	.99919	49.475	.99197	1.084	.96257
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98481**	**.98190**	**49.420**	**48.536**	**.99056**
Stddev	.00586	.00380	.167	.062	.00184
%RSD	.59553	.38686	.33748	.12819	.18557
#1	.98066	.97921	49.538	48.580	.99186
#2	.98895	.98458	49.302	48.492	.98926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 18:33:31 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.271**	**.98767**	**1.0058**	**49.477**	**.97330**
Stddev	.082	.00127	.0004	.141	.00038
%RSD	.16990	.12898	.03559	.28531	.03893
#1	48.213	.98677	1.0061	49.577	.97357
#2	48.329	.98857	1.0056	49.378	.97304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.68**	**.96319**	**25.177**	**.99995**	**.99367**
Stddev	.02	.00105	.022	.00171	.00547
%RSD	.0497	.10851	.08764	.17066	.55029
#1	37.69	.96245	25.193	1.0012	.99754
#2	37.66	.96393	25.162	.99875	.98981
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9194**	**.97019**	**.99580**	**1.507**	**.98889**
Stddev	.0407	.00076	.00137	.019	.00296
%RSD	.41032	.07790	.13745	1.284	.29896
#1	9.8906	.97073	.99677	1.494	.98680
#2	9.9482	.96966	.99484	1.521	.99098
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 18:33:31 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.97801**	**.98688**	**1.0062**	**1.521**
Stddev	.00065	.00220	.0069	.003
%RSD	.06692	.22338	.68327	.2073
#1	.97754	.98532	1.0013	1.519
#2	.97847	.98844	1.0111	1.523
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3345.2**	**2748.4**	**25147.**	**2740.7**
Stddev	1.7	.3	62.	9.1
%RSD	.05205	.01101	.24742	.33124
#1	3346.4	2748.2	25191.	2734.3
#2	3343.9	2748.6	25103.	2747.1

Sample Name: CCB-6825508 Acquired: 12/27/2021 18:37:03 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.01332**	**.00045**	**-.00850**	**.00003**
Stddev	.00047	.00192	.00106	.00044	.00000
%RSD	148.79	14.384	232.72	5.1712	3.3583
#1	.00065	-.01467	-.00029	-.00819	.00003
#2	-.00002	-.01196	.00120	-.00881	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00212**	**.00007**	**.0461**	**.00025**
Stddev	.00020	.00261	.00001	.0258	.00003
%RSD	265.40	123.10	13.081	56.03	11.847
#1	.00022	.00027	.00006	.0643	.00023
#2	-.00007	.00396	.00007	.0278	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00074**	**.00232**	**-.08785**	**.00021**
Stddev	.00015	.00129	.00288	.00226	.00162
%RSD	73.130	174.86	124.22	2.5731	766.85
#1	.00031	.00164	.00028	-.08625	.00136
#2	.00010	-.00017	.00436	-.08944	-.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 18:37:03 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**-.00007**	**.00137**	**-.00884**	**-.00018**
Stddev	.00225	.00000	.00003	.00360	.00031
%RSD	297.63	2.2899	2.0914	40.783	174.33
#1	-.00084	-.00007	.00139	-.00629	.00004
#2	.00235	-.00007	.00135	-.01139	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00211**	**.00156**	**.00191**	**.00038**
Stddev	.00	.00023	.00294	.00068	.00299
%RSD	.0062	10.708	188.06	35.693	792.18
#1	25.02	.00227	-.00052	.00142	-.00174
#2	25.02	.00195	.00364	.00239	.00249
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**-.00028**	**.00011**	**1.001**	**-.00063**
Stddev	.00860	.00020	.00007	.009	.00031
%RSD	730.58	71.499	69.387	.8918	49.884
#1	.00726	-.00043	.00005	1.007	-.00085
#2	-.00491	-.00014	.00016	.9945	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 18:37:03 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00217**	**.00032**	**-.00006**	**1.001**
Stddev	.00108	.00016	.00036	.003
%RSD	49.925	50.629	619.34	.2526
#1	.00140	.00021	-.00031	.9990
#2	.00293	.00044	.00020	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3814.2**	**2797.6**	**26211.**	**2711.0**
Stddev	9.5	2.3	25.	14.9
%RSD	.24948	.08339	.09442	.54923
#1	3820.9	2799.2	26193.	2721.5
#2	3807.4	2795.9	26228.	2700.5

Sample Name: CCVL-6825510 Acquired: 12/27/2021 18:40:53 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00580**	**.19599**	**.01385**	W **.01040**	**.00201**
Stddev	.00037	.02248	.00082	.00024	.00000
%RSD	6.4482	11.472	5.8915	2.2922	.03949
#1	.00607	.18009	.01443	.01023	.00201
#2	.00554	.21188	.01328	.01056	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.02000	
Range				-30.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.49231**	**.00210**	**.0647**	**.00383**
Stddev	.00002	.00264	.00020	.1033	.00004
%RSD	1.2054	.53641	9.7255	159.7	.91814
#1	.00203	.49417	.00196	.1377	.00381
#2	.00206	.49044	.00224	-.0084	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	**.01066**	**.04709**	**.38930**	**.03164**
Stddev	.00118	.00053	.00260	.00713	.00325
%RSD	27.807	4.9378	5.5213	1.8304	10.258
#1	.00508	.01029	.04893	.38427	.03393
#2	.00341	.01103	.04525	.39434	.02934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 18:40:53 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17820**	**.00282**	**.01020**	**.94815**	**.00921**
Stddev	.00327	.00002	.00019	.00201	.00011
%RSD	1.8343	.71059	1.8211	.21206	1.1784
#1	.18051	.00281	.01007	.94673	.00913
#2	.17589	.00283	.01033	.94957	.00928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00902**	**.18415**	**.02080**	**.02791**
Stddev	.00	.00083	.00092	.00330	.00094
%RSD	.0046	9.2492	.50049	15.853	3.3625
#1	25.00	.00843	.18481	.01847	.02857
#2	25.00	.00961	.18350	.02313	.02724
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49772**	**.00857**	**.00508**	F **1.002**	**.00419**
Stddev	.00443	.00039	.00014	.001	.00008
%RSD	.89008	4.5609	2.7572	.0674	2.0111
#1	.50085	.00829	.00498	1.003	.00425
#2	.49459	.00885	.00518	1.002	.00413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 18:40:53 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01951**	**.00488**	**.00953**	F **1.002**
Stddev	.00104	.00039	.00050	.001
%RSD	5.3356	7.8997	5.3000	.0487
#1	.01877	.00461	.00917	1.001
#2	.02024	.00515	.00988	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3802.3**	**2791.1**	**26213.**	**2685.1**
Stddev	3.9	3.7	41.	.7
%RSD	.10370	.13362	.15683	.02574
#1	3805.1	2793.8	26184.	2685.5
#2	3799.6	2788.5	26242.	2684.6

Sample Name: 480-193769-B-2-A Acquired: 12/27/2021 18:44:39 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**7.5669**	**-.00269**	**.02482**	**.02258**
Stddev	.00035	.0769	.00311	.00005	.00011
%RSD	162.07	1.0157	115.37	.20484	.50048
#1	-.00046	7.6212	-.00489	.02479	.02250
#2	.00003	7.5125	-.00050	.02486	.02266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**9.1808**	**.00017**	**.0452**	**.00710**
Stddev	.00008	.0315	.00003	.0005	.00003
%RSD	46.745	.34280	17.303	1.089	.45923
#1	.00024	9.2031	.00015	.0455	.00708
#2	.00012	9.1585	.00019	.0448	.00712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00787**	**.01943**	**15.459**	**3.9470**	**.01362**
Stddev	.00029	.00004	.106	.0199	.00192
%RSD	3.7230	.21702	.68811	.50411	14.108
#1	.00808	.01940	15.535	3.9611	.01498
#2	.00766	.01946	15.384	3.9329	.01226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193769-B-2-A Acquired: 12/27/2021 18:44:39 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8969**	**.23061**	**.00017**	**175.92**	**.00733**
Stddev	.0118	.00001	.00013	.35	.00043
%RSD	.24129	.00569	72.585	.19976	5.8302
#1	4.9053	.23060	.00026	176.17	.00703
#2	4.8885	.23062	.00008	175.67	.00763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.19**	**.01384**	**1.6188**	**.00190**	**.00330**
Stddev	.00	.00064	.0066	.00069	.00140
%RSD	.0029	4.6324	.40650	36.380	42.463
#1	25.19	.01430	1.6234	.00239	.00429
#2	25.19	.01339	1.6141	.00141	.00231
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.866**	**-.00001**	**.02783**	**1.001**	**.47021**
Stddev	.059	.00030	.00009	.002	.00509
%RSD	.34999	2355.2	.33508	.1520	1.0821
#1	16.908	.00020	.02789	1.0000	.47381
#2	16.824	-.00022	.02776	1.002	.46662
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193769-B-2-A Acquired: 12/27/2021 18:44:39 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00095**	**.03872**	**.06034**	**1.003**
Stddev	.00078	.00056	.00015	.001
%RSD	81.611	1.4449	.25675	.0482
#1	.00040	.03832	.06045	1.002
#2	.00150	.03911	.06023	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3409.2**	**2740.7**	**25438.**	**2742.9**
Stddev	8.0	3.4	30.	18.8
%RSD	.23556	.12468	.11625	.68621
#1	3414.9	2743.1	25459.	2729.6
#2	3403.6	2738.3	25418.	2756.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.097%	95.380%	95.735%	101.89%
Range				

Sample Name: 480-193771-H-1-A Acquired: 12/27/2021 18:48:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.02469**	**.86076**	**1.8555**	**.11973**
Stddev	.00081	.02725	.00281	.0034	.00011
%RSD	1168.9	110.38	.32643	.18244	.09402
#1	-.00051	.04396	.86274	1.8531	.11981
#2	.00065	.00542	.85877	1.8578	.11965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**190.40**	**-.00024**	**-.0254**	**.00432**
Stddev	.00009	.98	.00002	.0036	.00000
%RSD	251.13	.51308	7.2127	14.29	.10720
#1	.00010	189.71	-.00023	-.0229	.00432
#2	-.00003	191.09	-.00026	-.0280	.00431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00456**	**.01046**	**.15850**	**36.597**	**.03563**
Stddev	.00001	.00027	.00540	.118	.00295
%RSD	.25653	2.6004	3.4060	.32166	8.2888
#1	.00455	.01065	.16232	36.514	.03354
#2	.00456	.01027	.15469	36.681	.03772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193771-H-1-A Acquired: 12/27/2021 18:48:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**72.028**	**.56791**	**.00627**	**178.60**	**.03274**
Stddev	.030	.00008	.00005	.93	.00006
%RSD	.04203	.01326	.76810	.51952	.17756
#1	72.006	.56796	.00624	177.94	.03270
#2	72.049	.56785	.00631	179.25	.03278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.66**	**.00213**	F **159.60**	**.30891**	**.00218**
Stddev	.00	.00006	.07	.00047	.00133
%RSD	.0029	2.7957	.04427	.15225	61.017
#1	25.66	.00209	159.55	.30925	.00312
#2	25.66	.00217	159.65	.30858	.00124
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6618**	**.00003**	**3.4835**	**.9981**	**.00284**
Stddev	.0378	.00030	.0193	.0002	.00035
%RSD	.43611	979.77	.55503	.0158	12.363
#1	8.6351	-.00018	3.4699	.9982	.00259
#2	8.6885	.00024	3.4972	.9980	.00309
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193771-H-1-A Acquired: 12/27/2021 18:48:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00291**	**.00008**	**.38901**	**1.002**
Stddev	.00009	.00013	.00192	.001
%RSD	3.1644	161.17	.49360	.0555
#1	.00284	-.00001	.38765	1.002
#2	.00297	.00018	.39037	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3231.3**	**2640.8**	**24604.**	**2748.0**
Stddev	.8	2.7	12.	.8
%RSD	.02521	.10104	.04831	.02782
#1	3231.9	2638.9	24596.	2748.6
#2	3230.7	2642.7	24612.	2747.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.499%	91.902%	92.594%	102.08%
Range				

Sample Name: 480-193771-H-2-A Acquired: 12/27/2021 18:52:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.06041**	**.87423**	**1.8960**	**.14213**
Stddev	.00150	.00038	.00221	.0016	.00014
%RSD	1099.9	.63656	.25257	.08608	.09753
#1	.00092	.06013	.87579	1.8972	.14203
#2	-.00120	.06068	.87267	1.8949	.14223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**183.69**	**.00011**	**-.0271**	**.00457**
Stddev	.00004	.54	.00002	.0523	.00003
%RSD	145.44	.29611	18.793	193.0	.68021
#1	.00005	184.07	.00012	.0099	.00454
#2	-.00000	183.30	.00009	-.0641	.00459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00542**	**.00449**	**1.8760**	**37.678**	**.03716**
Stddev	.00039	.00133	.0036	.202	.00043
%RSD	7.2729	29.662	.19233	.53599	1.1528
#1	.00514	.00543	1.8735	37.821	.03686
#2	.00570	.00355	1.8786	37.535	.03747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193771-H-2-A Acquired: 12/27/2021 18:52:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**72.741**	**.53246**	**.00740**	**184.88**	**.03367**
Stddev	.092	.00120	.00025	.51	.00064
%RSD	.12668	.22534	3.3319	.27780	1.8974
#1	72.806	.53331	.00758	185.24	.03322
#2	72.676	.53162	.00723	184.51	.03413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.06**	**.00450**	F **162.58**	**.31049**	**.00152**
Stddev	.00	.00002	.39	.00349	.00093
%RSD	.0053	.51327	.23782	1.1237	60.975
#1	26.06	.00449	162.85	.31295	.00218
#2	26.06	.00452	162.30	.30802	.00087
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9938**	**-.00027**	**3.3713**	**.9949**	**.00541**
Stddev	.0362	.00006	.0081	.0029	.00022
%RSD	.40189	23.382	.24182	.2937	4.1351
#1	9.0193	-.00023	3.3771	.9970	.00525
#2	8.9682	-.00032	3.3655	.9929	.00556
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193771-H-2-A Acquired: 12/27/2021 18:52:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00195**	**.00082**	**.03733**	**1.003**
Stddev	.00049	.00005	.00000	.000
%RSD	25.249	6.3451	.00860	.0145
#1	.00160	.00078	.03734	1.003
#2	.00230	.00086	.03733	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3192.9**	**2610.5**	**24286.**	**2697.9**
Stddev	2.8	2.3	.	16.0
%RSD	.08623	.08804	.00121	.59173
#1	3194.8	2612.2	24287.	2686.6
#2	3191.0	2608.9	24286.	2709.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.507%	90.850%	91.399%	100.22%
Range				

Sample Name: 480-193742-B-1-A Acquired: 12/27/2021 18:55:41 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.31087**	**-.00041**	**.03215**	**.07934**
Stddev	.00016	.02230	.00042	.00035	.00004
%RSD	28.243	7.1728	101.90	1.0840	.04765
#1	.00069	.32664	-.00012	.03239	.07932
#2	.00046	.29510	-.00071	.03190	.07937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**131.56**	**.00026**	**.0360**	**.00184**
Stddev	.00001	.53	.00018	.0117	.00011
%RSD	11.749	.40163	69.768	32.66	5.9753
#1	.00009	131.94	.00038	.0443	.00192
#2	.00011	131.19	.00013	.0277	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00371**	**.00132**	**4.8697**	**1.3818**	**.01255**
Stddev	.00001	.00016	.0088	.0450	.00151
%RSD	.36113	11.947	.18031	3.2578	11.998
#1	.00370	.00143	4.8760	1.4136	.01148
#2	.00372	.00121	4.8635	1.3500	.01361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193742-B-1-A Acquired: 12/27/2021 18:55:41 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.868**	**.86692**	**.00588**	**31.678**	**.00333**
Stddev	.023	.00134	.00015	.142	.00067
%RSD	.12764	.15423	2.5467	.44683	20.138
#1	17.885	.86787	.00578	31.778	.00285
#2	17.852	.86598	.00599	31.577	.00380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00376**	**5.6497**	**.00363**	**.00399**
Stddev	.00	.00120	.0184	.00070	.00035
%RSD	.0005	31.841	.32515	19.156	8.8428
#1	25.03	.00291	5.6627	.00314	.00374
#2	25.03	.00460	5.6367	.00412	.00424
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5468**	**-.00045**	**.53039**	**.9996**	**.00641**
Stddev	.0424	.00019	.00230	.0082	.00023
%RSD	.44452	42.506	.43456	.8155	3.5874
#1	9.5768	-.00058	.53202	1.005	.00658
#2	9.5168	-.00031	.52876	.9938	.00625
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193742-B-1-A Acquired: 12/27/2021 18:55:41 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00055**	**.03716**	**1.000**
Stddev	.00190	.00009	.00030	.001
%RSD	2143.3	16.133	.81889	.0547
#1	.00126	.00048	.03694	.9999
#2	-.00144	.00061	.03737	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3467.9**	**2724.2**	**25347.**	**2733.6**
Stddev	4.7	6.3	147.	5.3
%RSD	.13634	.23038	.58080	.19466
#1	3471.2	2728.7	25243.	2729.9
#2	3464.5	2719.8	25451.	2737.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.612%	94.807%	95.392%	101.55%
Range				

Sample Name: 480-193742-B-2-A Acquired: 12/27/2021 18:59:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.49124**	**-.00101**	**.11009**	**.20707**
Stddev	.00094	.00783	.00096	.00061	.00067
%RSD	10287.	1.5934	95.632	.55062	.32570
#1	.00067	.48570	-.00169	.10966	.20754
#2	-.00066	.49677	-.00033	.11052	.20659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**81.602**	**.00029**	**.0220**	**.00040**
Stddev	.00005	.007	.00001	.0331	.00014
%RSD	72.677	.00876	3.5327	150.1	35.650
#1	.00003	81.597	.00028	.0454	.00030
#2	.00010	81.607	.00029	-.0013	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00149**	**.00431**	**2.5098**	**1.6837**	**.03115**
Stddev	.00013	.00054	.0113	.0120	.00090
%RSD	8.6637	12.483	.45176	.71258	2.8797
#1	.00139	.00470	2.5018	1.6752	.03052
#2	.00158	.00393	2.5178	1.6922	.03178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193742-B-2-A Acquired: 12/27/2021 18:59:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.657**	**.22255**	**.00880**	**16.413**	**.00129**
Stddev	.018	.00056	.00009	.017	.00016
%RSD	.12219	.25058	1.0404	.10581	12.644
#1	14.670	.22215	.00887	16.425	.00117
#2	14.645	.22294	.00874	16.401	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.13**	**.00918**	**7.1915**	**.00176**	**.00258**
Stddev	.00	.00088	.0131	.00001	.00224
%RSD	.0012	9.5865	.18216	.42469	86.543
#1	25.13	.00981	7.2008	.00177	.00416
#2	25.13	.00856	7.1823	.00176	.00100
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6134**	**-.00061**	**.31945**	**.9888**	**.00724**
Stddev	.0116	.00019	.00044	.0062	.00108
%RSD	.15271	31.945	.13827	.6293	14.890
#1	7.6051	-.00075	.31976	.9932	.00647
#2	7.6216	-.00047	.31914	.9844	.00800
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193742-B-2-A Acquired: 12/27/2021 18:59:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00127**	**.03497**	**1.001**
Stddev	.00152	.00014	.00066	.000
%RSD	267.73	11.141	1.8846	.0398
#1	.00164	.00117	.03544	1.001
#2	-.00051	.00137	.03451	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3549.2**	**2744.1**	**25854.**	**2779.3**
Stddev	1.6	.1	10.	1.3
%RSD	.04575	.00215	.03726	.04573
#1	3550.3	2744.1	25847.	2780.2
#2	3548.0	2744.2	25861.	2778.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.713%	95.499%	97.298%	103.24%
Range				

Sample Name: MB 480-610026/1-A Acquired: 12/27/2021 19:03:07 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.01773**	**-.00171**	F **-.00896**	**.00001**
Stddev	.00070	.02107	.00031	.00015	.00000
%RSD	1599.2	118.79	18.224	1.6590	7.2477
#1	.00054	-.03263	-.00193	-.00906	.00001
#2	-.00045	-.00284	-.00149	-.00885	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.00800	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00993**	**.00010**	**.0526**	**.00014**
Stddev	.00006	.00387	.00005	.0303	.00003
%RSD	242.40	38.943	47.932	57.57	21.566
#1	-.00002	.01267	.00014	.0741	.00012
#2	.00007	.00720	.00007	.0312	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00239**	**-.00084**	**-.09751**	**.00246**
Stddev	.00000	.00027	.00237	.01595	.00154
%RSD	4.0207	11.429	282.86	16.357	62.461
#1	.00011	.00219	.00084	-.10879	.00355
#2	.00010	.00258	-.00251	-.08623	.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-610026/1-A Acquired: 12/27/2021 19:03:07 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00289**	**.00004**	**-.00028**	**-.01515**	**-.00005**
Stddev	.00178	.00004	.00003	.00919	.00003
%RSD	61.554	112.38	9.8200	60.673	64.039
#1	-.00163	.00001	-.00029	-.02164	-.00003
#2	-.00414	.00007	-.00026	-.00865	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00067**	**.00614**	**.00099**	**.00212**
Stddev	.00	.00003	.00297	.00013	.00345
%RSD	.0005	3.9601	48.332	13.243	162.90
#1	25.02	.00065	.00404	.00090	.00456
#2	25.02	.00069	.00824	.00108	-.00032
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02542**	**-.00031**	**.00020**	**.9898**	**-.00045**
Stddev	.00676	.00014	.00015	.0051	.00011
%RSD	26.600	43.804	74.930	.5103	24.998
#1	.03020	-.00022	.00010	.9934	-.00053
#2	.02064	-.00041	.00031	.9863	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-610026/1-A Acquired: 12/27/2021 19:03:07 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00077**	**-.00052**	**-.00050**	**1.0000**
Stddev	.00121	.00011	.00050	.0027
%RSD	158.41	21.385	98.426	.2658
#1	-.00009	-.00044	-.00086	.9981
#2	.00162	-.00060	-.00015	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3876.0**	**2849.2**	**26899.**	**2816.2**
Stddev	11.7	5.8	14.	6.0
%RSD	.30213	.20455	.05024	.21354
#1	3884.3	2853.4	26889.	2811.9
#2	3867.8	2845.1	26908.	2820.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.16%	99.157%	101.23%	104.61%
Range				

Sample Name: LCS 480-610026/2-A Acquired: 12/27/2021 19:06:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04890**	**9.9513**	**.21069**	**.19521**	**.20260**
Stddev	.00063	.0452	.00014	.00026	.00064
%RSD	1.2811	.45460	.06688	.13375	.31801
#1	.04846	9.9833	.21059	.19503	.20305
#2	.04935	9.9193	.21079	.19540	.20214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21078**	**9.8986**	**.20254**	**.0089**	**.19049**
Stddev	.00138	.0907	.00015	.0078	.00058
%RSD	.65666	.91662	.07350	87.47	.30668
#1	.21176	9.9628	.20265	.0145	.19090
#2	.20980	9.8345	.20244	.0034	.19008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19561**	**.19851**	**10.082**	**9.5559**	**.19605**
Stddev	.00000	.00109	.056	.0792	.00158
%RSD	.00009	.54795	.55994	.82853	.80472
#1	.19561	.19928	10.122	9.6119	.19716
#2	.19561	.19774	10.043	9.5000	.19493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-610026/2-A Acquired: 12/27/2021 19:06:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.020**	**.20499**	**.20641**	**9.6816**	**.19191**
Stddev	.021	.00070	.00074	.0497	.00044
%RSD	.20646	.34073	.35831	.51292	.23088
#1	10.034	.20548	.20694	9.7167	.19222
#2	10.005	.20449	.20589	9.6464	.19159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.66**	**.19725**	**9.7861**	**.21758**	**.19673**
Stddev	.00	.00033	.0181	.00201	.00082
%RSD	.0020	.16887	.18507	.92315	.41832
#1	24.66	.19749	9.7989	.21900	.19614
#2	24.66	.19702	9.7733	.21616	.19731
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6508**	**.18432**	**.20136**	**.9944**	**.20073**
Stddev	.0619	.00057	.00005	.0000	.00107
%RSD	.64111	.30679	.02407	.0039	.53476
#1	9.6945	.18472	.20133	.9944	.20149
#2	9.6070	.18392	.20140	.9944	.19997
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-610026/2-A Acquired: 12/27/2021 19:06:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20143**	**.19731**	**.20092**	**1.005**
Stddev	.00220	.00122	.00043	.000
%RSD	1.0930	.61997	.21370	.0034
#1	.19987	.19817	.20122	1.005
#2	.20298	.19644	.20062	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3680.4**	**2834.5**	**26355.**	**2816.9**
Stddev	2.8	3.0	29.	22.2
%RSD	.07719	.10658	.10989	.78750
#1	3678.4	2836.6	26376.	2801.2
#2	3682.4	2832.4	26335.	2832.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.105%	98.645%	99.185%	104.64%
Range				

Sample Name: 480-193756-A-1-A Acquired: 12/27/2021 19:10:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00836**	**-.00039**	**.52800**	**.18074**
Stddev	.00026	.01045	.00152	.00088	.00056
%RSD	231.96	124.88	390.67	.16655	.30841
#1	.00007	-.00098	-.00146	.52863	.18034
#2	-.00029	-.01575	.00069	.52738	.18113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**190.92**	**.00058**	**-.0205**	**.00077**
Stddev	.00017	.54	.00001	.0554	.00001
%RSD	689.73	.28308	1.3111	270.8	1.7312
#1	-.00014	190.54	.00059	.0187	.00076
#2	.00009	191.30	.00057	-.0597	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.00067**	**3.3117**	**7.7325**	**.03861**
Stddev	.00017	.00050	.0055	.0148	.00113
%RSD	26.820	74.723	.16689	.19158	2.9364
#1	.00051	.00032	3.3078	7.7221	.03941
#2	.00074	.00103	3.3156	7.7430	.03781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-A-1-A Acquired: 12/27/2021 19:10:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.797**	**.52754**	**.00034**	**39.855**	**.00052**
Stddev	.199	.00066	.00022	.182	.00042
%RSD	.38357	.12419	65.681	.45672	80.457
#1	51.657	.52708	.00018	39.726	.00022
#2	51.938	.52801	.00050	39.984	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**.00429**	**40.055**	**.00087**	**.00055**
Stddev	.00	.00021	.053	.00007	.00094
%RSD	.0007	4.9302	.13151	7.8600	170.62
#1	25.12	.00444	40.092	.00082	-.00011
#2	25.12	.00414	40.017	.00092	.00121
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.190**	**-.00056**	**.69362**	**.9886**	**.00097**
Stddev	.066	.00039	.00223	.0080	.00046
%RSD	.40530	68.773	.32155	.8138	47.241
#1	16.143	-.00084	.69205	.9829	.00130
#2	16.236	-.00029	.69520	.9943	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-A-1-A Acquired: 12/27/2021 19:10:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00335**	**-.00080**	**.00175**	**1.001**
Stddev	.00028	.00030	.00018	.002
%RSD	8.2714	36.972	10.366	.1456
#1	.00315	-.00059	.00187	1.002
#2	.00354	-.00101	.00162	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3340.6**	**2668.5**	**24874.**	**2718.1**
Stddev	1.5	3.6	86.	12.4
%RSD	.04459	.13477	.34746	.45678
#1	3339.5	2665.9	24935.	2726.8
#2	3341.6	2671.0	24813.	2709.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.323%	92.866%	93.609%	100.97%
Range				

Sample Name: 480-193756-C-2-A Acquired: 12/27/2021 19:14:10 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.01513**	**-.00019**	**.48357**	**.05314**
Stddev	.00047	.01110	.00224	.00119	.00009
%RSD	171.17	73.408	1155.4	.24638	.17622
#1	-.00006	.00728	.00139	.48273	.05307
#2	.00060	.02298	-.00178	.48441	.05320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**181.19**	**.00042**	**.1166**	**.03984**
Stddev	.00005	.63	.00005	.0018	.00006
%RSD	156.90	.34888	12.587	1.546	.14501
#1	-.00007	180.75	.00046	.1178	.03989
#2	.00000	181.64	.00038	.1153	.03980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00220**	**.06805**	**7.2680**	**.03997**
Stddev	.00001	.00055	.00026	.0604	.00267
%RSD	4.5847	24.882	.37817	.83130	6.6793
#1	.00031	.00182	.06787	7.2253	.03808
#2	.00033	.00259	.06823	7.3108	.04186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-C-2-A Acquired: 12/27/2021 19:14:10 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.314**	**1.0338**	**.00568**	**38.801**	**.01039**
Stddev	.023	.0001	.00002	.152	.00034
%RSD	.04793	.00928	.30577	.39095	3.2972
#1	48.297	1.0339	.00569	38.693	.01063
#2	48.330	1.0338	.00567	38.908	.01014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00313**	**37.403**	**.00399**	**-.00019**
Stddev	.00	.00128	.040	.00114	.00010
%RSD	.0004	40.962	.10785	28.452	52.209
#1	25.04	.00403	37.374	.00480	-.00026
#2	25.04	.00222	37.431	.00319	-.00012
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.019**	**-.00066**	**.71271**	**.9933**	**.00187**
Stddev	.012	.00012	.00221	.0095	.00007
%RSD	.09114	18.565	.31063	.9579	3.5591
#1	13.028	-.00075	.71115	1.0000	.00192
#2	13.011	-.00058	.71428	.9865	.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-C-2-A Acquired: 12/27/2021 19:14:10 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00139**	**.00029**	**.00160**	**1.001**
Stddev	.00092	.00010	.00057	.001
%RSD	66.302	32.895	35.483	.1177
#1	.00074	.00022	.00200	1.000
#2	.00204	.00036	.00120	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3338.2**	**2637.5**	**24851.**	**2674.6**
Stddev	3.1	2.8	37.	.7
%RSD	.09332	.10658	.14742	.02523
#1	3336.0	2639.5	24877.	2675.1
#2	3340.4	2635.5	24825.	2674.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.261%	91.787%	93.524%	99.353%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 19:17:54 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98546**	**49.569**	**.99919**	**1.0175**	**.97522**
Stddev	.00143	.001	.00141	.0015	.00138
%RSD	.14534	.00249	.14120	.15116	.14126
#1	.98445	49.569	.99819	1.0164	.97620
#2	.98647	49.570	1.0002	1.0186	.97425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97862**	**48.660**	**1.0039**	**1.059**	**.95841**
Stddev	.00046	.010	.0014	.013	.00080
%RSD	.04680	.02068	.13830	1.249	.08315
#1	.97894	48.667	1.0029	1.068	.95785
#2	.97829	48.653	1.0048	1.049	.95898
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96819**	**.98559**	**48.712**	**48.106**	**.99924**
Stddev	.00327	.00178	.242	.007	.00285
%RSD	.33767	.18101	.49670	.01554	.28501
#1	.96588	.98433	48.541	48.112	.99723
#2	.97050	.98685	48.883	48.101	1.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 19:17:54 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.997**	**.99519**	**.99955**	**49.627**	**.97072**
Stddev	.074	.00022	.00135	.058	.00148
%RSD	.15418	.02200	.13502	.11666	.15237
#1	47.945	.99534	.99860	49.668	.96967
#2	48.050	.99503	1.0005	49.586	.97177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.47**	**.95030**	**24.800**	**1.0096**	**.96974**
Stddev	.01	.00317	.052	.0048	.00233
%RSD	.0400	.33359	.21135	.47449	.23978
#1	37.46	.94806	24.763	1.0062	.97139
#2	37.48	.95254	24.837	1.0130	.96810
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8628**	**.94844**	**1.0007**	**1.498**	**.98076**
Stddev	.0100	.00191	.0007	.006	.00220
%RSD	.10112	.20154	.07384	.3898	.22447
#1	9.8698	.94709	1.0001	1.502	.97921
#2	9.8557	.94979	1.0012	1.494	.98232
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 19:17:54 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.95048**	**.97524**	**.97676**	**1.529**
Stddev	.00023	.00337	.00206	.000
%RSD	.02453	.34532	.21080	.0271
#1	.95031	.97286	.97530	1.529
#2	.95064	.97763	.97821	1.529
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3337.7**	**2715.7**	**25014.**	**2711.4**
Stddev	8.5	6.1	70.	.4
%RSD	.25557	.22363	.28017	.01541
#1	3331.6	2711.4	25063.	2711.1
#2	3343.7	2720.0	24964.	2711.7

Sample Name: CCB-6825508 Acquired: 12/27/2021 19:21:27 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00620**	**-.00041**	**-.00844**	**.00004**
Stddev	.00083	.01472	.00022	.00001	.00000
%RSD	447.97	237.24	53.865	.06088	10.725
#1	.00077	.00420	-.00026	-.00843	.00004
#2	-.00040	-.01661	-.00057	-.00844	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00100**	**.00003**	**.0954**	**.00007**
Stddev	.00005	.00198	.00024	.0519	.00018
%RSD	110.51	197.83	805.74	54.38	267.11
#1	-.00008	.00240	-.00014	.1321	.00020
#2	-.00001	-.00040	.00020	.0587	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00276**	**.00301**	**-.09651**	**.00150**
Stddev	.00005	.00005	.00191	.00284	.00265
%RSD	22.880	1.6418	63.482	2.9379	177.37
#1	.00023	.00273	.00166	-.09852	.00337
#2	.00017	.00280	.00436	-.09451	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 19:21:27 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00254**	**-.00008**	**.00133**	**-.00178**	**-.00011**
Stddev	.00098	.00005	.00029	.00992	.00006
%RSD	38.778	58.698	22.103	555.86	50.176
#1	-.00184	-.00012	.00112	.00523	-.00007
#2	-.00324	-.00005	.00154	-.00880	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00082**	**.00489**	**.00348**	**.00380**
Stddev	.00	.00240	.00385	.00002	.00135
%RSD	.0038	293.12	78.687	.47983	35.619
#1	25.02	-.00088	.00761	.00346	.00284
#2	25.02	.00252	.00217	.00349	.00475
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00784**	**.00004**	**.00007**	**.9906**	**-.00005**
Stddev	.00158	.00002	.00012	.0011	.00006
%RSD	20.120	50.397	179.66	.1092	121.61
#1	.00895	.00006	.00015	.9914	-.00009
#2	.00672	.00003	-.00002	.9898	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 19:21:27 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.00006**	**-.00028**	**1.001**
Stddev	.00034	.00001	.00041	.002
%RSD	81.585	11.585	144.68	.2163
#1	.00018	-.00006	-.00057	.9992
#2	.00065	-.00007	.00001	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3854.5**	**2833.0**	**26574.**	**2759.9**
Stddev	8.9	4.3	101.	13.5
%RSD	.23164	.15188	.38031	.48778
#1	3860.9	2836.0	26503.	2769.5
#2	3848.2	2829.9	26646.	2750.4

Sample Name: CCVL-6825510 Acquired: 12/27/2021 19:25:16 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00521**	**.21387**	**.01331**	W **.01002**	**.00201**
Stddev	.00000	.01992	.00199	.00015	.00002
%RSD	.03659	9.3126	14.926	1.5333	1.1874
#1	.00520	.22796	.01472	.01013	.00203
#2	.00521	.19979	.01191	.00991	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.02000	
Range				-30.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.49715**	**.00213**	**.0439**	**.00375**
Stddev	.00001	.00392	.00013	.0109	.00004
%RSD	.44251	.78851	6.1685	24.83	1.0796
#1	.00208	.49437	.00204	.0516	.00377
#2	.00207	.49992	.00223	.0362	.00372
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00431**	**.01116**	**.04926**	W **.33410**	**.02768**
Stddev	.00023	.00006	.00100	.02391	.00115
%RSD	5.3377	.53149	2.0260	7.1572	4.1387
#1	.00447	.01112	.04997	.35101	.02687
#2	.00415	.01120	.04856	.31719	.02849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.50000	
Range				-30.000%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 19:25:16 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18786**	**.00298**	**.01039**	**.96033**	**.00951**
Stddev	.00091	.00001	.00032	.00512	.00016
%RSD	.48630	.20887	3.1199	.53308	1.6925
#1	.18722	.00298	.01016	.96395	.00940
#2	.18851	.00298	.01062	.95671	.00962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00957**	**.18346**	**.02200**	**.02417**
Stddev	.00	.00020	.00257	.00072	.00109
%RSD	.0052	2.0851	1.4025	3.2814	4.5168
#1	25.00	.00943	.18528	.02149	.02495
#2	25.00	.00971	.18164	.02251	.02340
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49529**	**.00818**	**.00505**	F **.9976**	**.00407**
Stddev	.00735	.00021	.00001	.0002	.00017
%RSD	1.4840	2.6153	.16365	.0173	4.1341
#1	.49009	.00803	.00506	.9977	.00419
#2	.50049	.00833	.00505	.9974	.00395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 19:25:16 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01986**	**.00466**	**.00956**	F **1.001**
Stddev	.00011	.00018	.00076	.002
%RSD	.55765	3.8711	7.9604	.1552
#1	.01978	.00453	.01010	1.002
#2	.01993	.00479	.00902	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3789.9**	**2802.9**	**26164.**	**2694.7**
Stddev	.1	.8	88.	10.3
%RSD	.00149	.02967	.33768	.38407
#1	3789.9	2802.3	26102.	2687.3
#2	3789.8	2803.5	26227.	2702.0

Sample Name: 480-193756-C-2-ASD@5 Acquired: 12/27/2021 19:29:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00759**	**-.00278**	**.08586**	**.01079**
Stddev	.00010	.03642	.00268	.00061	.00004
%RSD	54.642	479.67	96.374	.70556	.32662
#1	.00012	-.03334	-.00468	.08628	.01077
#2	.00026	.01816	-.00089	.08543	.01082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**36.135**	**.00015**	**.0131**	**.00781**
Stddev	.00001	.219	.00015	.0198	.00025
%RSD	5.9816	.60497	96.891	150.8	3.1727
#1	.00009	36.290	.00025	-.0009	.00798
#2	.00008	35.981	.00005	.0271	.00763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00095**	**.01637**	**1.3552**	**.00899**
Stddev	.00056	.00064	.00065	.0036	.00230
%RSD	710.99	67.033	3.9522	.26329	25.588
#1	-.00047	.00050	.01591	1.3577	.01062
#2	.00032	.00141	.01682	1.3527	.00736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-C-2-ASD@5 Acquired: 12/27/2021 19:29:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5974**	**.20871**	**.00082**	**7.5804**	**.00193**
Stddev	.0119	.00035	.00022	.0277	.00016
%RSD	.12391	.16865	27.087	.36507	8.4041
#1	9.5890	.20846	.00066	7.5999	.00182
#2	9.6058	.20896	.00097	7.5608	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00128**	**7.1794**	**.00069**	**.00224**
Stddev	.00	.00039	.0068	.00202	.00464
%RSD	.0021	30.771	.09437	294.49	207.24
#1	25.02	.00156	7.1842	.00211	-.00104
#2	25.02	.00100	7.1746	-.00074	.00552
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5764**	**-.00021**	**.14235**	**.9934**	**.00007**
Stddev	.0083	.00002	.00048	.0013	.00027
%RSD	.32168	11.745	.34006	.1322	360.80
#1	2.5822	-.00023	.14269	.9925	.00026
#2	2.5705	-.00019	.14200	.9944	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-C-2-ASD@5 Acquired: 12/27/2021 19:29:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00181**	**.00002**	**.00040**	**1.001**
Stddev	.00099	.00017	.00013	.003
%RSD	54.549	1004.8	33.714	.2494
#1	.00251	.00014	.00050	.9992
#2	.00111	-.00011	.00030	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3645.2**	**2753.6**	**25549.**	**2671.0**
Stddev	10.2	6.1	128.	24.4
%RSD	.27859	.21999	.50089	.91269
#1	3638.0	2749.4	25640.	2653.7
#2	3652.4	2757.9	25459.	2688.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.195%	95.830%	96.151%	99.218%
Range				

Sample Name: 480-193756-C-2-APDS Acquired: 12/27/2021 19:32:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04904**	**9.8778**	**.20812**	**.67032**	**.24816**
Stddev	.00027	.0038	.00048	.00064	.00027
%RSD	.55567	.03841	.23177	.09474	.10818
#1	.04924	9.8805	.20778	.67076	.24797
#2	.04885	9.8751	.20847	.66987	.24835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20636**	**183.64**	**.20313**	**-.0588**	**.22713**
Stddev	.00076	.12	.00028	.0164	.00003
%RSD	.36803	.06661	.13841	27.80	.01383
#1	.20582	183.73	.20333	-.0704	.22711
#2	.20690	183.56	.20293	-.0473	.22715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18863**	**.19600**	**9.7018**	**16.672**	**.23497**
Stddev	.00066	.00076	.0111	.007	.00051
%RSD	.34903	.38993	.11471	.04030	.21696
#1	.18909	.19546	9.7096	16.677	.23533
#2	.18816	.19654	9.6939	16.667	.23461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-C-2-APDS Acquired: 12/27/2021 19:32:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.716**	**1.1983**	**.20647**	**47.354**	**.19875**
Stddev	.088	.0043	.00115	.079	.00005
%RSD	.15447	.35512	.55676	.16768	.02310
#1	56.654	1.1953	.20728	47.298	.19871
#2	56.778	1.2013	.20566	47.410	.19878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.70**	**.19553**	**46.074**	**.21555**	**.19060**
Stddev	.00	.00032	.106	.00060	.00318
%RSD	.0061	.16141	.23084	.27781	1.6686
#1	24.70	.19576	46.149	.21512	.19285
#2	24.70	.19531	45.999	.21597	.18836
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.268**	**.19057**	**.88873**	**1.001**	**.19824**
Stddev	.013	.00017	.00257	.008	.00011
%RSD	.05754	.09065	.28948	.8342	.05331
#1	22.259	.19069	.88691	1.007	.19831
#2	22.277	.19045	.89055	.9950	.19817
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-C-2-APDS Acquired: 12/27/2021 19:32:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19155**	**.19356**	**.19116**	**1.005**
Stddev	.00020	.00029	.00135	.000
%RSD	.10631	.14779	.70531	.0382
#1	.19169	.19376	.19020	1.006
#2	.19140	.19335	.19211	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3293.7**	**2658.1**	**24872.**	**2715.4**
Stddev	.9	.7	43.	21.3
%RSD	.02793	.02801	.17296	.78617
#1	3293.1	2658.6	24902.	2700.3
#2	3294.4	2657.6	24842.	2730.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.113%	92.505%	93.603%	100.87%
Range				

Sample Name: 480-193756-C-2-B MS Acquired: 12/27/2021 19:36:20 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04903**	**9.8439**	**.21572**	**.70454**	**.25461**
Stddev	.00055	.0374	.00023	.00105	.00177
%RSD	1.1180	.37979	.10678	.14920	.69384
#1	.04942	9.8703	.21556	.70528	.25586
#2	.04864	9.8174	.21588	.70379	.25336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20499**	**194.26**	**.20693**	**.0054**	**.23407**
Stddev	.00123	.79	.00028	.0021	.00079
%RSD	.60138	.40697	.13555	38.87	.33818
#1	.20587	194.82	.20713	.0039	.23351
#2	.20412	193.70	.20673	.0069	.23463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18882**	**.20051**	**9.8150**	**17.130**	**.23992**
Stddev	.00065	.00031	.0337	.056	.00346
%RSD	.34546	.15510	.34366	.32544	1.4436
#1	.18928	.20073	9.8388	17.169	.24237
#2	.18836	.20029	9.7911	17.091	.23747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-C-2-B MS Acquired: 12/27/2021 19:36:20 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**60.659**	**1.2854**	**.21113**	**50.072**	**.20362**
Stddev	.343	.0061	.00050	.230	.00076
%RSD	.56566	.47374	.23564	.45881	.37158
#1	60.902	1.2897	.21148	50.235	.20308
#2	60.417	1.2811	.21077	49.910	.20415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.70**	**.19938**	**48.913**	**.21985**	**.19794**
Stddev	.00	.00092	.022	.00517	.00039
%RSD	.0114	.46290	.04441	2.3502	.19559
#1	24.70	.19873	48.898	.21619	.19767
#2	24.70	.20003	48.929	.22350	.19822
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.900**	**.18859**	**.94145**	**.9956**	**.20123**
Stddev	.144	.00073	.00272	.0019	.00119
%RSD	.62904	.38905	.28894	.1898	.58982
#1	23.002	.18807	.94337	.9970	.20207
#2	22.798	.18911	.93952	.9943	.20039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-C-2-B MS Acquired: 12/27/2021 19:36:20 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19331**	**.19447**	**.19148**	**1.001**
Stddev	.00053	.00047	.00029	.000
%RSD	.27166	.23951	.15105	.0072
#1	.19294	.19480	.19127	1.001
#2	.19368	.19414	.19168	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3291.6**	**2664.8**	**24904.**	**2721.7**
Stddev	2.4	8.8	18.	19.0
%RSD	.07434	.32869	.07134	.69811
#1	3289.8	2658.6	24917.	2708.3
#2	3293.3	2671.0	24892.	2735.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.057%	92.738%	93.726%	101.10%
Range				

Sample Name: 480-193756-C-2-C MSD Acquired: 12/27/2021 19:39:54 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04891**	**10.036**	**.21645**	**.69770**	**.25224**
Stddev	.00076	.076	.00005	.00134	.00057
%RSD	1.5624	.75269	.02388	.19227	.22657
#1	.04837	9.9825	.21649	.69675	.25183
#2	.04946	10.089	.21641	.69864	.25264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20877**	**193.63**	**.20488**	**-.0160**	**.23422**
Stddev	.00110	.27	.00007	.0135	.00047
%RSD	.52822	.14172	.03502	84.22	.19963
#1	.20799	193.44	.20483	-.0256	.23389
#2	.20955	193.83	.20493	-.0065	.23455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19236**	**.19843**	**9.8910**	**17.142**	**.23875**
Stddev	.00049	.00100	.0346	.022	.00176
%RSD	.25372	.50457	.34951	.12903	.73791
#1	.19202	.19772	9.8666	17.127	.23999
#2	.19271	.19913	9.9155	17.158	.23750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-C-2-C MSD Acquired: 12/27/2021 19:39:54 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**60.163**	**1.2602**	**.21084**	**49.409**	**.20381**
Stddev	.217	.0042	.00012	.069	.00050
%RSD	.36058	.33459	.05825	.13980	.24685
#1	60.009	1.2572	.21076	49.360	.20417
#2	60.316	1.2632	.21093	49.458	.20345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.69**	**.20242**	**48.442**	**.21910**	**.20077**
Stddev	.00	.00250	.041	.00029	.00479
%RSD	.0025	1.2356	.08455	.13258	2.3852
#1	24.70	.20065	48.414	.21889	.19738
#2	24.69	.20419	48.471	.21930	.20416
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.921**	**.19125**	**.92454**	**1.000**	**.20167**
Stddev	.047	.00144	.00086	.001	.00025
%RSD	.20590	.75519	.09338	.1117	.12238
#1	22.887	.19023	.92393	1.001	.20150
#2	22.954	.19227	.92515	.9995	.20185
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193756-C-2-C MSD Acquired: 12/27/2021 19:39:54 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19846**	**.19626**	**.19686**	**1.001**
Stddev	.00171	.00044	.00111	.000
%RSD	.86376	.22392	.56298	.0089
#1	.19725	.19595	.19608	1.001
#2	.19967	.19657	.19764	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3292.8**	**2686.6**	**24861.**	**2730.0**
Stddev	8.3	6.5	105.	8.0
%RSD	.25159	.24108	.42309	.29477
#1	3298.6	2691.2	24936.	2724.3
#2	3286.9	2682.1	24787.	2735.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.088%	93.498%	93.563%	101.41%
Range				

Sample Name: 480-193750-A-2-A Acquired: 12/27/2021 19:43:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00117**	**.18772**	**.00061**	**.10539**	**.06312**
Stddev	.00087	.00358	.00101	.00005	.00007
%RSD	74.510	1.9095	164.69	.05000	.11832
#1	-.00179	.19026	.00132	.10543	.06307
#2	-.00055	.18519	-.00010	.10535	.06317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**108.66**	**.00065**	**-.0276**	**.00071**
Stddev	.00009	.20	.00012	.0255	.00013
%RSD	91.432	.18191	18.633	92.40	17.695
#1	.00017	108.80	.00056	-.0457	.00080
#2	.00004	108.52	.00073	-.0096	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02744**	**.01206**	**1.5711**	**13.793**	**.02507**
Stddev	.00091	.00039	.0034	.055	.00073
%RSD	3.3076	3.2470	.21879	.40150	2.9210
#1	.02680	.01234	1.5735	13.754	.02558
#2	.02808	.01178	1.5687	13.832	.02455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193750-A-2-A Acquired: 12/27/2021 19:43:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.252**	**.26155**	**.01602**	**420.18**	**.00262**
Stddev	.024	.00045	.00030	.18	.00011
%RSD	.11698	.17280	1.8426	.04291	4.0094
#1	20.268	.26187	.01581	420.05	.00255
#2	20.235	.26123	.01623	420.31	.00270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.09**	**.00485**	**43.918**	**.00483**	**.00333**
Stddev	.00	.00215	.011	.00325	.00164
%RSD	.0004	44.367	.02462	67.347	49.392
#1	25.09	.00638	43.910	.00713	.00217
#2	25.09	.00333	43.925	.00253	.00449
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5458**	**.00009**	**.63964**	**.9928**	**.00752**
Stddev	.0286	.00018	.00006	.0043	.00031
%RSD	.63023	195.70	.00934	.4376	4.1265
#1	4.5255	-.00003	.63969	.9959	.00774
#2	4.5660	.00021	.63960	.9898	.00730
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193750-A-2-A Acquired: 12/27/2021 19:43:29 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00128**	**.00247**	**.11568**	**.9997**
Stddev	.00179	.00018	.00051	.0006
%RSD	139.59	7.2497	.44286	.0610
#1	-.00254	.00260	.11532	.9992
#2	-.00002	.00235	.11604	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3175.0**	**2623.1**	**24105.**	**2711.6**
Stddev	1.2	4.6	149.	8.7
%RSD	.03770	.17506	.61697	.32137
#1	3174.2	2626.4	24000.	2705.5
#2	3175.9	2619.9	24210.	2717.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.045%	91.289%	90.717%	100.73%
Range				

Sample Name: 480-193753-I-1-A Acquired: 12/27/2021 19:47:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00081	.01354	-.00086	1.2779	.10111
Stddev	.00007	.02873	.00148	.0010	.00012
%RSD	9.0216	212.20	172.37	.07690	.11676
#1	.00076	.03385	.00019	1.2786	.10103
#2	.00086	-.00678	-.00191	1.2772	.10119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00006	47.971	.00039	.0250	.00107
Stddev	.00010	.041	.00007	.0630	.00023
%RSD	153.59	.08451	17.609	251.8	21.033
#1	-.00013	48.000	.00044	-.0195	.00123
#2	.00001	47.942	.00034	.0696	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00049	.00562	.02371	27.288	.01586
Stddev	.00099	.00020	.00051	.073	.00068
%RSD	203.78	3.4973	2.1327	.26659	4.2738
#1	.00119	.00576	.02335	27.236	.01538
#2	-.00021	.00548	.02406	27.339	.01634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193753-I-1-A Acquired: 12/27/2021 19:47:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.657**	**.00101**	**.00157**	**86.159**	**.00726**
Stddev	.169	.00003	.00003	.186	.00013
%RSD	.37065	3.2928	1.9910	.21567	1.8067
#1	45.538	.00099	.00159	86.028	.00735
#2	45.777	.00104	.00155	86.291	.00717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00046**	**26.650**	**.00158**	**-.00098**
Stddev	.00	.00070	.016	.00085	.00072
%RSD	.0032	151.85	.05990	53.892	73.591
#1	25.01	.00096	26.662	.00218	-.00149
#2	25.01	-.00003	26.639	.00098	-.00047
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4096**	**.00076**	**.33878**	**.9929**	**.00061**
Stddev	.0160	.00017	.00073	.0118	.00058
%RSD	.46828	21.813	.21431	1.187	94.357
#1	3.3983	.00088	.33930	1.001	.00020
#2	3.4208	.00064	.33827	.9845	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193753-I-1-A Acquired: 12/27/2021 19:47:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00115**	**-.00041**	**.00171**	**1.000**
Stddev	.00005	.00021	.00062	.001
%RSD	4.6515	51.388	36.231	.1076
#1	.00111	-.00056	.00127	.9994
#2	.00118	-.00026	.00214	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3402.4**	**2688.5**	**25050.**	**2702.8**
Stddev	3.4	2.3	89.	6.0
%RSD	.09879	.08414	.35559	.22124
#1	3404.7	2690.1	25113.	2707.1
#2	3400.0	2686.9	24987.	2698.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.919%	93.564%	94.271%	100.40%
Range				

Sample Name: 480-193757-C-3-A Acquired: 12/27/2021 19:51:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00148**	**.86629**	**.00689**	**.80026**	**.16677**
Stddev	.00072	.02755	.00154	.00207	.00045
%RSD	48.550	3.1799	22.428	.25891	.26746
#1	.00198	.84681	.00579	.80172	.16709
#2	.00097	.88576	.00798	.79879	.16646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**584.50**	**.00192**	**-.0667**	**-.00068**
Stddev	.00003	1.54	.00008	.0016	.00013
%RSD	29.064	.26398	4.3191	2.352	19.577
#1	-.00010	583.41	.00198	-.0678	-.00077
#2	-.00007	585.59	.00187	-.0656	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07906**	**.08025**	**.62817**	**126.87**	**.09703**
Stddev	.00013	.00038	.00817	.75	.00428
%RSD	.16831	.47503	1.3004	.59380	4.4062
#1	.07896	.08052	.63395	127.40	.09401
#2	.07915	.07998	.62240	126.33	.10006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193757-C-3-A Acquired: 12/27/2021 19:51:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**78.722**	**.29628**	**3.3169**	F **9005.5**	**.07686**
Stddev	.484	.00139	.0129	33.8	.00052
%RSD	.61540	.46747	.38907	.37487	.67750
#1	79.064	.29726	3.3260	8981.7	.07723
#2	78.379	.29530	3.3077	9029.4	.07649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.85**	**.00293**	F **1667.8**	**.00443**	**.00174**
Stddev	.02	.00072	4.8	.00107	.00375
%RSD	.0689	24.568	.28669	24.043	215.00
#1	31.86	.00242	1671.2	.00368	.00440
#2	31.83	.00343	1664.4	.00519	-.00091
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.622**	**.00035**	**1.7436**	**.9966**	**.02565**
Stddev	.161	.00031	.0118	.0083	.00026
%RSD	1.0284	89.172	.67462	.8359	1.0059
#1	15.736	.00057	1.7519	.9907	.02546
#2	15.508	.00013	1.7353	1.003	.02583
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193757-C-3-A Acquired: 12/27/2021 19:51:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00114**	**.05483**	**.50755**	**1.001**
Stddev	.00018	.00004	.00239	.000
%RSD	15.425	.07267	.47078	.0368
#1	-.00126	.05481	.50924	1.001
#2	-.00101	.05486	.50586	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2187.9**	**2061.9**	**18700.**	**2475.4**
Stddev	.9	1.6	136.	.2
%RSD	.04272	.07869	.72814	.00841
#1	2187.3	2060.8	18604.	2475.6
#2	2188.6	2063.1	18796.	2475.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	56.537%	71.758%	70.375%	91.954%
Range				

Sample Name: 240-161619-B-1-A Acquired: 12/27/2021 19:54:56 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.72274**	**.00148**	**.56122**	**.02106**
Stddev	.00006	.01433	.00119	.00063	.00006
%RSD	20.521	1.9822	80.106	.11314	.26878
#1	-.00034	.73287	.00064	.56077	.02110
#2	-.00025	.71261	.00232	.56167	.02102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**62.205**	**.00034**	**.0484**	**.00081**
Stddev	.00004	.084	.00014	.0236	.00004
%RSD	182.54	.13552	40.809	48.75	4.8174
#1	.00005	62.265	.00044	.0651	.00078
#2	-.00001	62.146	.00024	.0317	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00230**	**.00634**	**4.4739**	**8.1105**	**.01765**
Stddev	.00012	.00045	.0015	.0578	.00113
%RSD	5.2482	7.0331	.03297	.71297	6.3893
#1	.00238	.00666	4.4749	8.0696	.01685
#2	.00221	.00603	4.4728	8.1514	.01845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161619-B-1-A Acquired: 12/27/2021 19:54:56 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.515**	**.14760**	**.02727**	**36.531**	**.04253**
Stddev	.034	.00057	.00008	.118	.00002
%RSD	.27183	.38605	.30230	.32435	.04496
#1	12.539	.14800	.02733	36.615	.04254
#2	12.491	.14719	.02721	36.448	.04252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00606**	**28.102**	**.00153**	**.00151**
Stddev	.00	.00131	.068	.00098	.00074
%RSD	.0037	21.652	.24317	64.368	48.981
#1	25.06	.00699	28.054	.00223	.00204
#2	25.06	.00513	28.150	.00083	.00099
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0178**	**-.00016**	**.23328**	**.9987**	**.01285**
Stddev	.0051	.00016	.00056	.0058	.00006
%RSD	.10148	97.869	.23841	.5820	.49287
#1	5.0142	-.00028	.23368	1.003	.01289
#2	5.0214	-.00005	.23289	.9945	.01280
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161619-B-1-A Acquired: 12/27/2021 19:54:56 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00109**	**.00131**	**.01828**	**1.001**
Stddev	.00030	.00009	.00046	.000
%RSD	27.465	6.6293	2.4935	.0077
#1	.00088	.00137	.01860	1.001
#2	.00130	.00125	.01796	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3584.8**	**2782.8**	**26081.**	**2869.8**
Stddev	3.7	.2	171.	4.8
%RSD	.10457	.00885	.65475	.16883
#1	3582.2	2783.0	25960.	2873.3
#2	3587.5	2782.6	26201.	2866.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.634%	96.846%	98.152%	106.61%
Range				

Sample Name: 240-161606-B-1-A Acquired: 12/27/2021 19:58:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**.33191**	**-.00096**	**.00638**	**.01618**
Stddev	.00039	.01839	.00149	.00040	.00010
%RSD	52.974	5.5404	155.39	6.2254	.63770
#1	.00100	.31890	-.00202	.00666	.01611
#2	.00046	.34491	.00009	.00610	.01626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**6.7655**	**.00067**	**.0153**	**.00035**
Stddev	.00012	.0366	.00012	.0757	.00008
%RSD	384.96	.54099	18.101	495.2	22.098
#1	-.00012	6.7396	.00076	.0688	.00040
#2	.00005	6.7914	.00059	-.0382	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01705**	**.00562**	**1.4411**	**.23463**	**.00218**
Stddev	.00019	.00006	.0078	.03104	.00179
%RSD	1.1048	1.0136	.54263	13.228	81.943
#1	.01718	.00558	1.4356	.21269	.00345
#2	.01691	.00566	1.4466	.25658	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-1-A Acquired: 12/27/2021 19:58:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96105**	**.10891**	**.00481**	**.63511**	**.00898**
Stddev	.00580	.00010	.00017	.00483	.00009
%RSD	.60310	.09628	3.4573	.75990	.96195
#1	.95695	.10884	.00470	.63170	.00892
#2	.96515	.10899	.00493	.63852	.00904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.01231**	**.74557**	**.00083**	**.00072**
Stddev	.00	.00019	.00308	.00106	.00129
%RSD	.0052	1.5130	.41266	127.63	178.99
#1	25.02	.01218	.74775	.00159	-.00019
#2	25.03	.01245	.74340	.00008	.00163
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5709**	**.00209**	**.03427**	**.9968**	**.01144**
Stddev	.0166	.00008	.00026	.0000	.00066
%RSD	1.0586	3.9735	.76808	.0031	5.7534
#1	1.5592	.00203	.03409	.9969	.01097
#2	1.5827	.00215	.03446	.9968	.01190
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-1-A Acquired: 12/27/2021 19:58:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00206**	**.00244**	**1.3941**	**1.002**
Stddev	.00127	.00012	.0027	.000
%RSD	61.637	5.0535	.19397	.0367
#1	.00296	.00236	1.3960	1.002
#2	.00116	.00253	1.3921	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3885.0**	**2879.1**	**27057.**	**2873.0**
Stddev	3.4	4.3	54.	14.0
%RSD	.08726	.14988	.19881	.48765
#1	3887.4	2882.2	27019.	2882.9
#2	3882.6	2876.1	27095.	2863.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.39%	100.20%	101.83%	106.72%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 20:02:26 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97865**	**50.460**	**1.0060**	**1.0224**	**.98547**
Stddev	.00235	.031	.0033	.0007	.00051
%RSD	.23987	.06159	.33162	.07121	.05197
#1	.98031	50.482	1.0084	1.0229	.98583
#2	.97699	50.438	1.0036	1.0219	.98511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0067**	**49.615**	**.99912**	**1.008**	**.95940**
Stddev	.0005	.043	.00077	.020	.00062
%RSD	.05020	.08706	.07746	2.029	.06421
#1	1.0071	49.645	.99858	1.022	.95897
#2	1.0064	49.584	.99967	.9931	.95984
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98697**	**.97974**	**49.366**	**48.590**	**.99690**
Stddev	.00011	.00063	.020	.077	.00013
%RSD	.01075	.06414	.04108	.15750	.01278
#1	.98690	.98018	49.381	48.536	.99681
#2	.98705	.97930	49.352	48.644	.99699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 20:02:26 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.802**	**.98678**	**1.0090**	**49.606**	**.97281**
Stddev	.042	.00047	.0013	.042	.00115
%RSD	.08861	.04746	.12938	.08565	.11851
#1	47.832	.98645	1.0099	49.636	.97363
#2	47.772	.98711	1.0081	49.576	.97200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.60**	**.95915**	**25.012**	**1.0053**	**.98519**
Stddev	.00	.00153	.022	.0018	.00388
%RSD	.0098	.15919	.08766	.17427	.39345
#1	37.60	.95807	25.028	1.0065	.98793
#2	37.60	.96023	24.997	1.0040	.98245
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9994**	**.96258**	**.99598**	**1.503**	**.98676**
Stddev	.0730	.00216	.00065	.013	.00013
%RSD	.72952	.22423	.06544	.8590	.01290
#1	10.051	.96410	.99551	1.512	.98685
#2	9.9478	.96105	.99644	1.494	.98667
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 20:02:26 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.96817**	**.98866**	**.99538**	**1.524**
Stddev	.00139	.00228	.00042	.001
%RSD	.14307	.23054	.04211	.0756
#1	.96915	.98705	.99509	1.523
#2	.96719	.99027	.99568	1.525
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3322.0**	**2712.0**	**24932.**	**2657.3**
Stddev	.3	2.1	2.	6.8
%RSD	.00867	.07898	.00730	.25680
#1	3322.2	2713.5	24931.	2652.5
#2	3321.8	2710.5	24933.	2662.1

Sample Name: CCB-6825508 Acquired: 12/27/2021 20:05:59 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.02174**	**-.00242**	**-.00874**	**.00008**
Stddev	.00082	.01074	.00124	.00004	.00000
%RSD	24557.	49.414	51.460	.49094	1.9921
#1	-.00058	.02934	-.00330	-.00870	.00008
#2	.00058	.01415	-.00154	-.00877	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00334**	**.00000**	**.0131**	**-.00001**
Stddev	.00007	.00081	.00005	.0715	.00014
%RSD	791.17	24.327	1028.9	546.0	1443.4
#1	.00006	.00276	.00004	-.0374	-.00011
#2	-.00004	.00391	-.00003	.0636	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00187**	**.00108**	**-.01239**	**.00623**
Stddev	.00012	.00009	.00198	.02082	.00152
%RSD	97.713	4.7425	183.21	167.97	24.449
#1	.00004	.00180	-.00032	.00233	.00515
#2	.00022	.00193	.00248	-.02712	.00731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 20:05:59 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**-.00008**	**.00147**	**.10544**	**-.00019**
Stddev	.00013	.00001	.00008	.01553	.00047
%RSD	12.717	10.638	5.4735	14.727	245.07
#1	-.00115	-.00009	.00141	.09446	.00014
#2	-.00096	-.00008	.00152	.11642	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00099**	**.04066**	**.00266**	**.00213**
Stddev	.00	.00027	.00154	.00103	.00261
%RSD	.0011	27.758	3.7780	38.690	122.37
#1	25.02	.00118	.04174	.00339	.00029
#2	25.02	.00079	.03957	.00193	.00398
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02393**	**-.00020**	**.00019**	**.9920**	**-.00031**
Stddev	.01504	.00019	.00004	.0052	.00017
%RSD	62.864	94.987	23.216	.5286	54.187
#1	.01329	-.00006	.00022	.9957	-.00042
#2	.03457	-.00033	.00016	.9883	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 20:05:59 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00117**	**-.00015**	**.00002**	**1.000**
Stddev	.00075	.00032	.00033	.000
%RSD	63.502	207.93	1620.2	.0078
#1	.00065	-.00037	.00026	1.000
#2	.00170	.00007	-.00022	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3809.9**	**2782.1**	**26254.**	**2705.0**
Stddev	3.2	2.6	30.	13.3
%RSD	.08493	.09493	.11312	.49293
#1	3807.6	2780.2	26233.	2695.6
#2	3812.2	2784.0	26275.	2714.4

Sample Name: CCVL-6825510 Acquired: 12/27/2021 20:09:48 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00610**	**.19823**	**.01420**	W **.01005**	**.00202**
Stddev	.00101	.00330	.00075	.00023	.00004
%RSD	16.499	1.6655	5.2812	2.3150	1.9815
#1	.00539	.19589	.01367	.00988	.00205
#2	.00681	.20056	.01473	.01021	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.02000	
Range				-30.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.48753**	**.00200**	**.0426**	**.00374**
Stddev	.00002	.00007	.00003	.0597	.00001
%RSD	1.1859	.01448	1.6788	140.2	.23601
#1	.00202	.48758	.00197	.0004	.00374
#2	.00205	.48748	.00202	.0848	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00413**	**.01284**	**.04637**	**.41169**	**.03286**
Stddev	.00023	.00057	.00075	.04239	.00195
%RSD	5.6469	4.4444	1.6174	10.296	5.9304
#1	.00397	.01243	.04584	.38172	.03148
#2	.00430	.01324	.04690	.44166	.03424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 20:09:48 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18344**	**.00295**	**.01033**	**1.0407**	**.00930**
Stddev	.00024	.00008	.00043	.0009	.00009
%RSD	.13140	2.8328	4.1181	.08896	.92711
#1	.18361	.00301	.01003	1.0400	.00924
#2	.18327	.00289	.01063	1.0413	.00936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00976**	**.21421**	**.02004**	**.02322**
Stddev	.00	.00072	.00260	.00009	.00210
%RSD	.0022	7.3618	1.2158	.46527	9.0570
#1	25.00	.01026	.21605	.02010	.02471
#2	25.00	.00925	.21236	.01997	.02174
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49151**	**.00861**	**.00532**	F **.9957**	**.00432**
Stddev	.01012	.00012	.00001	.0033	.00017
%RSD	2.0597	1.3697	.14143	.3282	3.8219
#1	.48435	.00853	.00531	.9934	.00420
#2	.49867	.00869	.00532	.9980	.00444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 20:09:48 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02011**	**.00433**	**.00942**	F **1.002**
Stddev	.00021	.00038	.00013	.000
%RSD	1.0282	8.8497	1.3812	.0332
#1	.01996	.00460	.00933	1.002
#2	.02026	.00406	.00952	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3852.7**	**2831.4**	**26667.**	**2740.6**
Stddev	2.7	5.9	111.	17.6
%RSD	.06996	.20860	.41605	.64316
#1	3854.6	2827.2	26589.	2753.0
#2	3850.8	2835.6	26746.	2728.1

Sample Name: 240-161606-B-2-A Acquired: 12/27/2021 20:13:34 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00140**	**.01649**	**.00225**	**.13341**	**.05382**
Stddev	.00022	.01348	.00012	.00040	.00003
%RSD	15.519	81.736	5.1624	.29898	.05719
#1	.00125	.02602	.00216	.13369	.05385
#2	.00155	.00696	.00233	.13312	.05380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**59.472**	**.00035**	**.0647**	**.00011**
Stddev	.00006	.143	.00002	.0455	.00006
%RSD	395.54	.24023	7.0984	70.33	55.459
#1	.00003	59.573	.00033	.0325	.00006
#2	-.00006	59.371	.00036	.0969	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00925**	**.00203**	**.92211**	**5.6193**	**.01023**
Stddev	.00020	.00043	.00560	.0305	.00393
%RSD	2.1593	21.419	.60720	.54304	38.433
#1	.00911	.00234	.92607	5.5977	.00745
#2	.00939	.00172	.91815	5.6409	.01301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-2-A Acquired: 12/27/2021 20:13:34 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.545**	**.60536**	**.12738**	**52.485**	**.00104**
Stddev	.023	.00150	.00005	.207	.00014
%RSD	.18245	.24734	.04307	.39389	13.812
#1	12.529	.60642	.12742	52.631	.00114
#2	12.561	.60430	.12734	52.339	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00227**	**18.129**	**.00011**	**.00412**
Stddev	.00	.00063	.029	.00089	.00089
%RSD	.0029	27.626	.15875	782.07	21.703
#1	25.06	.00272	18.149	.00074	.00349
#2	25.07	.00183	18.109	-.00051	.00475
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0072**	**.00150**	**.21234**	**.9990**	**.00046**
Stddev	.0160	.00005	.00120	.0031	.00007
%RSD	.31890	3.4358	.56742	.3078	15.210
#1	5.0185	.00146	.21319	1.001	.00051
#2	4.9959	.00153	.21149	.9968	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-2-A Acquired: 12/27/2021 20:13:34 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00198**	**.00098**	**.03066**	**1.000**
Stddev	.00085	.00030	.00048	.001
%RSD	42.902	30.206	1.5737	.1242
#1	.00258	.00119	.03032	.9995
#2	.00138	.00077	.03100	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3537.6**	**2763.9**	**25792.**	**2794.9**
Stddev	2.8	2.9	43.	2.5
%RSD	.07939	.10496	.16801	.09056
#1	3539.6	2766.0	25823.	2793.1
#2	3535.7	2761.9	25761.	2796.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.415%	96.189%	97.065%	103.82%
Range				

Sample Name: 240-161606-B-3-A Acquired: 12/27/2021 20:17:16 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.55876**	**.00159**	**.03956**	**.02886**
Stddev	.00011	.00676	.00044	.00043	.00003
%RSD	17.937	1.2094	27.450	1.0761	.10532
#1	.00066	.55399	.00128	.03986	.02884
#2	.00051	.56354	.00190	.03926	.02888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**22.882**	**.00014**	**.0504**	**.00019**
Stddev	.00016	.194	.00008	.0415	.00016
%RSD	480.76	.84944	56.930	82.38	80.715
#1	.00015	22.745	.00020	.0210	.00030
#2	-.00008	23.019	.00009	.0798	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03611**	**.01596**	**1.6460**	**1.7148**	**.00558**
Stddev	.00042	.00041	.0064	.0427	.00032
%RSD	1.1577	2.5449	.38895	2.4896	5.7550
#1	.03582	.01568	1.6414	1.7450	.00535
#2	.03641	.01625	1.6505	1.6846	.00580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-3-A Acquired: 12/27/2021 20:17:16 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7920**	**.14246**	**.22800**	**72.359**	**.00790**
Stddev	.0200	.00039	.00020	.003	.00026
%RSD	.34489	.27389	.08791	.00371	3.3432
#1	5.7779	.14219	.22814	72.357	.00771
#2	5.8061	.14274	.22786	72.360	.00809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.01424**	**7.4484**	**.00138**	**.00270**
Stddev	.00	.00037	.0035	.00355	.00038
%RSD	.0004	2.6107	.04669	258.02	14.185
#1	25.01	.01450	7.4459	.00389	.00242
#2	25.01	.01397	7.4509	-.00113	.00297
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1955**	**.00295**	**.06622**	**.9894**	**.01433**
Stddev	.0123	.00098	.00023	.0089	.00017
%RSD	.38365	33.196	.35059	.8967	1.1826
#1	3.1868	.00364	.06605	.9956	.01421
#2	3.2042	.00226	.06638	.9831	.01445
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-3-A Acquired: 12/27/2021 20:17:16 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00329**	**.00870**	**.07785**	**1.002**
Stddev	.00131	.00021	.00066	.000
%RSD	39.921	2.4544	.84156	.0258
#1	.00236	.00885	.07739	1.002
#2	.00422	.00855	.07831	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3533.8**	**2752.1**	**25533.**	**2722.8**
Stddev	3.8	2.4	150.	16.4
%RSD	.10637	.08842	.58941	.60299
#1	3531.1	2750.4	25640.	2734.4
#2	3536.4	2753.8	25427.	2711.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.315%	95.777%	96.091%	101.14%
Range				

Sample Name: 240-161606-B-4-A Acquired: 12/27/2021 20:20:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**4.1594**	**.00032**	**.13303**	**.04542**
Stddev	.00111	.0392	.00075	.00023	.00000
%RSD	326.37	.94337	232.57	.17471	.00038
#1	-.00045	4.1316	-.00021	.13287	.04542
#2	.00113	4.1871	.00086	.13319	.04542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**79.632**	**.00062**	**.0246**	**.00143**
Stddev	.00003	.403	.00006	.0159	.00031
%RSD	16.205	.50655	10.394	64.68	21.456
#1	.00022	79.347	.00057	.0358	.00122
#2	.00017	79.917	.00067	.0133	.00165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10110**	**.04852**	**15.795**	**2.0846**	**.01576**
Stddev	.00012	.00002	.022	.0073	.00299
%RSD	.12041	.03692	.14213	.35281	18.994
#1	.10101	.04853	15.779	2.0898	.01365
#2	.10118	.04851	15.811	2.0794	.01788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-4-A Acquired: 12/27/2021 20:20:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.330**	**1.1342**	**.06422**	**348.40**	**.04900**
Stddev	.012	.0004	.00013	1.70	.00022
%RSD	.05717	.03747	.20470	.48849	.45322
#1	20.338	1.1339	.06413	347.20	.04916
#2	20.322	1.1345	.06431	349.60	.04885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.08208**	**32.091**	**.00545**	**.01409**
Stddev	.00	.00050	.086	.00144	.00342
%RSD	.0098	.60885	.26772	26.499	24.281
#1	25.01	.08243	32.151	.00647	.01167
#2	25.01	.08173	32.030	.00443	.01651
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.879**	**.00478**	**.14649**	**1.003**	**.13978**
Stddev	.049	.00030	.00025	.001	.00040
%RSD	.38385	6.3364	.17356	.1370	.28691
#1	12.844	.00500	.14631	1.002	.13949
#2	12.914	.00457	.14667	1.004	.14006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-4-A Acquired: 12/27/2021 20:20:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00168**	**.06855**	**.35097**	**1.024**
Stddev	.00070	.00007	.00162	.003
%RSD	41.841	.10865	.46109	.2631
#1	.00118	.06861	.35212	1.026
#2	.00218	.06850	.34983	1.022
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3199.8**	**2637.1**	**24285.**	**2675.3**
Stddev	1.0	3.0	69.	14.0
%RSD	.03012	.11503	.28302	.52291
#1	3200.4	2635.0	24334.	2685.2
#2	3199.1	2639.3	24237.	2665.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.684%	91.775%	91.396%	99.381%
Range				

Sample Name: 240-161606-B-5-A Acquired: 12/27/2021 20:24:45 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00042**	**-.00175**	**.05614**	**.04811**
Stddev	.00126	.00949	.00117	.00015	.00009
%RSD	286.27	2269.1	67.076	.26513	.18223
#1	-.00045	.00713	-.00258	.05624	.04817
#2	.00133	-.00629	-.00092	.05603	.04805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**68.111**	**.00023**	**.0400**	**.00020**
Stddev	.00006	.264	.00006	.0521	.00007
%RSD	319.34	.38719	25.097	130.3	34.799
#1	.00006	68.297	.00019	.0768	.00015
#2	-.00003	67.924	.00027	.0031	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.00281**	**.17078**	**2.4329**	**.00874**
Stddev	.00010	.00077	.00183	.0162	.00175
%RSD	7.5355	27.254	1.0691	.66718	19.993
#1	.00131	.00335	.16949	2.4444	.00997
#2	.00146	.00227	.17207	2.4214	.00750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-5-A Acquired: 12/27/2021 20:24:45 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.864**	**.06021**	**.00501**	**44.949**	**.00115**
Stddev	.004	.00001	.00005	.154	.00010
%RSD	.02740	.01756	1.0558	.34163	9.1049
#1	14.861	.06020	.00497	45.057	.00108
#2	14.867	.06021	.00505	44.840	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00312**	**18.466**	**.00105**	**.00398**
Stddev	.00	.00058	.014	.00200	.00325
%RSD	.0059	18.685	.07698	190.92	81.585
#1	25.03	.00271	18.476	.00246	.00627
#2	25.03	.00353	18.456	-.00037	.00168
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6335**	**.00149**	**.20943**	**.9964**	**.00023**
Stddev	.0221	.00012	.00081	.0012	.00009
%RSD	.47645	7.8105	.38528	.1251	38.795
#1	4.6179	.00140	.21001	.9973	.00017
#2	4.6491	.00157	.20886	.9955	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-5-A Acquired: 12/27/2021 20:24:45 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00267**	**.00008**	**.00196**	**1.002**
Stddev	.00024	.00026	.00005	.001
%RSD	8.8798	339.37	2.6804	.0956
#1	.00250	.00026	.00200	1.002
#2	.00284	-.00011	.00193	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3520.9**	**2718.1**	**25573.**	**2753.4**
Stddev	2.2	1.5	1.	21.2
%RSD	.06288	.05347	.00509	.77169
#1	3519.3	2717.0	25572.	2738.3
#2	3522.4	2719.1	25574.	2768.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.982%	94.592%	96.242%	102.28%
Range				

Sample Name: 240-161606-B-6-A Acquired: 12/27/2021 20:28:28 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.22853**	**-.00299**	**.00036**	**.00562**
Stddev	.00046	.00941	.00069	.00046	.00002
%RSD	1657.6	4.1178	22.896	128.03	.29311
#1	.00035	.22188	-.00251	.00003	.00561
#2	-.00030	.23518	-.00348	.00069	.00564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**18.399**	**.00025**	**.0729**	**.00013**
Stddev	.00001	.072	.00018	.0196	.00003
%RSD	18.039	.39126	69.475	26.85	20.210
#1	.00003	18.348	.00013	.0591	.00011
#2	.00004	18.450	.00038	.0868	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00916**	**.00703**	**1.0030**	**.10009**	**.00322**
Stddev	.00000	.00063	.0064	.05632	.00014
%RSD	.00164	8.9944	.63908	56.268	4.3203
#1	.00916	.00747	.99845	.06027	.00332
#2	.00916	.00658	1.0075	.13991	.00312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-6-A Acquired: 12/27/2021 20:28:28 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7944**	**.06233**	**.00904**	**2.0695**	**.00435**
Stddev	.0225	.00033	.00014	.0174	.00027
%RSD	.46915	.53237	1.5657	.84064	6.1411
#1	4.7785	.06209	.00894	2.0572	.00416
#2	4.8103	.06256	.00914	2.0818	.00454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.01088**	**1.8533**	**.00116**	**.00666**
Stddev	.00	.00023	.0016	.00223	.00020
%RSD	.0004	2.0807	.08687	191.43	2.9427
#1	25.02	.01104	1.8521	-.00041	.00680
#2	25.02	.01072	1.8544	.00274	.00652
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0332**	**.00139**	**.02444**	**.9885**	**.00441**
Stddev	.0281	.00021	.00008	.0067	.00026
%RSD	1.3828	15.070	.31701	.6739	5.9074
#1	2.0133	.00154	.02439	.9838	.00423
#2	2.0531	.00124	.02450	.9932	.00460
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-6-A Acquired: 12/27/2021 20:28:28 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00223**	**.00440**	**.01535**	**1.002**
Stddev	.00019	.00003	.00020	.000
%RSD	8.7031	.60054	1.2762	.0203
#1	.00237	.00439	.01549	1.002
#2	.00210	.00442	.01522	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3797.4**	**2846.4**	**26550.**	**2819.0**
Stddev	.5	2.7	95.	17.3
%RSD	.01232	.09494	.35729	.61368
#1	3797.7	2844.5	26617.	2831.2
#2	3797.0	2848.3	26482.	2806.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.127%	99.059%	99.916%	104.72%
Range				

Sample Name: 240-161606-B-7-A Acquired: 12/27/2021 20:32:14 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.18547**	**-.00116**	**.00025**	**.00488**
Stddev	.00047	.01610	.00169	.00046	.00001
%RSD	82.090	8.6809	145.69	184.60	.24963
#1	.00024	.19685	-.00235	.00057	.00487
#2	.00091	.17408	.00003	-.00008	.00488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**18.278**	**.00014**	**.0644**	**.00001**
Stddev	.00009	.024	.00008	.0121	.00024
%RSD	328.16	.13363	56.313	18.85	3102.2
#1	-.00004	18.261	.00019	.0558	.00018
#2	.00009	18.295	.00008	.0730	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00319**	**.00381**	**.11651**	**.15648**	**.00157**
Stddev	.00051	.00086	.00063	.00916	.00266
%RSD	15.921	22.591	.53658	5.8516	170.05
#1	.00283	.00320	.11695	.16296	.00345
#2	.00355	.00442	.11607	.15001	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-7-A Acquired: 12/27/2021 20:32:14 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6291**	**.01258**	**.00967**	**2.6938**	**.00030**
Stddev	.0005	.00011	.00013	.0108	.00015
%RSD	.01023	.89932	1.3029	.39987	51.411
#1	4.6294	.01250	.00976	2.6862	.00019
#2	4.6288	.01266	.00958	2.7014	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00238**	**1.9257**	**.00163**	**.00483**
Stddev	.00	.00057	.0066	.00117	.00293
%RSD	.0010	23.904	.34047	71.852	60.727
#1	25.02	.00198	1.9211	.00245	.00690
#2	25.02	.00279	1.9304	.00080	.00276
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9156**	**.00149**	**.02428**	**.9951**	**.00145**
Stddev	.0025	.00051	.00013	.0003	.00020
%RSD	.13157	34.081	.52606	.0312	13.536
#1	1.9174	.00113	.02419	.9948	.00159
#2	1.9139	.00185	.02437	.9953	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-7-A Acquired: 12/27/2021 20:32:14 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00050**	**.00395**	**.00697**	**1.001**
Stddev	.00041	.00013	.00037	.002
%RSD	81.408	3.3528	5.3397	.2279
#1	.00021	.00405	.00723	.9995
#2	.00079	.00386	.00671	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3743.0**	**2813.2**	**26413.**	**2789.1**
Stddev	10.9	10.9	73.	1.5
%RSD	.29167	.38865	.27461	.05258
#1	3750.7	2820.9	26361.	2790.1
#2	3735.3	2805.4	26464.	2788.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.721%	97.901%	99.402%	103.61%
Range				

Sample Name: 240-161606-B-8-A Acquired: 12/27/2021 20:35:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**1.7024**	**.00252**	**.02607**	**.03497**
Stddev	.00098	.0174	.00038	.00003	.00005
%RSD	89.608	1.0225	15.220	.11298	.13175
#1	.00178	1.7147	.00224	.02605	.03501
#2	.00040	1.6901	.00279	.02609	.03494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**38.662**	**.00035**	**-.0021**	**.00135**
Stddev	.00005	.061	.00001	.0298	.00010
%RSD	60.447	.15881	2.8628	1435.	7.1689
#1	.00004	38.619	.00035	.0190	.00142
#2	.00011	38.706	.00034	-.0231	.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04305**	**.01703**	**6.6240**	**3.0188**	**.01632**
Stddev	.00066	.00003	.0268	.0291	.00009
%RSD	1.5292	.14733	.40500	.96487	.52814
#1	.04352	.01701	6.6050	2.9982	.01638
#2	.04259	.01705	6.6429	3.0394	.01626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-8-A Acquired: 12/27/2021 20:35:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9521**	**.81235**	**.04017**	**149.79**	**.01786**
Stddev	.0053	.00238	.00001	.37	.00034
%RSD	.05322	.29354	.02578	.24410	1.9154
#1	9.9483	.81404	.04017	149.53	.01810
#2	9.9558	.81067	.04016	150.05	.01762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.10604**	**10.875**	**.00210**	**.01020**
Stddev	.00	.00012	.005	.00028	.00024
%RSD	.0026	.11744	.04626	13.393	2.3065
#1	25.03	.10613	10.871	.00230	.01004
#2	25.03	.10595	10.879	.00190	.01037
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4703**	**.00165**	**.12649**	**1.004**	**.04589**
Stddev	.0316	.00038	.00062	.006	.00019
%RSD	.48870	23.179	.49348	.5585	.41309
#1	6.4480	.00138	.12605	.9995	.04576
#2	6.4927	.00192	.12693	1.007	.04603
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-8-A Acquired: 12/27/2021 20:35:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00141**	**.01543**	**.13308**	**1.007**
Stddev	.00016	.00007	.00004	.001
%RSD	11.564	.46245	.03060	.1320
#1	.00152	.01538	.13311	1.006
#2	.00129	.01548	.13305	1.008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3402.8**	**2709.8**	**25024.**	**2684.0**
Stddev	15.7	9.3	43.	29.7
%RSD	.46004	.34184	.17280	1.1056
#1	3391.7	2703.3	24993.	2705.0
#2	3413.8	2716.4	25054.	2663.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.930%	94.305%	94.173%	99.701%
Range				

Sample Name: 240-161606-B-9-A Acquired: 12/27/2021 20:39:42 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.28399**	**.01731**	**.24543**	**.00885**
Stddev	.00058	.03632	.00018	.00057	.00004
%RSD	391.07	12.789	1.0567	.23240	.49711
#1	.00056	.25831	.01718	.24584	.00882
#2	-.00026	.30967	.01744	.24503	.00888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**16.744**	**.00009**	**-.0184**	**-.00018**
Stddev	.00006	.003	.00008	.0097	.00000
%RSD	38.114	.02005	87.042	52.79	1.5591
#1	.00011	16.741	.00003	-.0116	-.00018
#2	.00020	16.746	.00014	-.0253	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19007**	**.00383**	**.30622**	**1.8400**	**.00750**
Stddev	.00006	.00017	.00187	.0011	.00209
%RSD	.03075	4.5457	.61210	.05860	27.910
#1	.19011	.00396	.30754	1.8407	.00602
#2	.19003	.00371	.30489	1.8392	.00897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-9-A Acquired: 12/27/2021 20:39:42 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9450**	**.02578**	**.08595**	**177.46**	**.00084**
Stddev	.0072	.00003	.00050	.13	.00004
%RSD	.24402	.10837	.58274	.07354	5.1143
#1	2.9501	.02576	.08630	177.36	.00087
#2	2.9400	.02580	.08560	177.55	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.16**	**.00594**	**26.658**	**.00158**	**.01095**
Stddev	.00	.00067	.039	.00162	.00413
%RSD	.0110	11.364	.14632	102.13	37.742
#1	25.16	.00546	26.686	.00044	.01387
#2	25.15	.00641	26.631	.00273	.00803
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.119**	**-.00062**	**.04974**	**.9965**	**.00472**
Stddev	.002	.00039	.00035	.0015	.00040
%RSD	.01473	63.467	.69776	.1480	8.5033
#1	11.120	-.00034	.04999	.9955	.00444
#2	11.117	-.00089	.04949	.9975	.00500
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161606-B-9-A Acquired: 12/27/2021 20:39:42 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00197**	**.08115**	**.00833**	**1.002**
Stddev	.00063	.00048	.00027	.001
%RSD	32.228	.59629	3.2041	.0820
#1	.00242	.08149	.00852	1.001
#2	.00152	.08081	.00814	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3422.3**	**2707.8**	**25244.**	**2728.6**
Stddev	5.1	5.3	41.	10.0
%RSD	.14765	.19652	.16099	.36619
#1	3418.8	2704.1	25216.	2735.6
#2	3425.9	2711.6	25273.	2721.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.435%	94.236%	95.004%	101.36%
Range				

Sample Name: 240-161627-A-2-A Acquired: 12/27/2021 20:43:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.05289**	**.00697**	**.20942**	**.03992**
Stddev	.00051	.05083	.00403	.00014	.00010
%RSD	424.77	96.104	57.793	.06449	.26019
#1	.00024	.01695	.00412	.20932	.03985
#2	-.00048	.08883	.00982	.20951	.03999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**74.471**	**.00042**	**.0403**	**.00012**
Stddev	.00012	.004	.00002	.0365	.00003
%RSD	215.54	.00499	5.7185	90.44	26.596
#1	.00014	74.473	.00044	.0145	.00010
#2	-.00003	74.468	.00041	.0661	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00402**	**.60710**	**4.0694**	**.03373**
Stddev	.00013	.00091	.00520	.0279	.00080
%RSD	38.683	22.546	.85724	.68538	2.3729
#1	.00043	.00338	.60342	4.0891	.03316
#2	.00024	.00466	.61078	4.0497	.03429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161627-A-2-A Acquired: 12/27/2021 20:43:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.603**	**.07240**	**.01553**	**57.199**	**.00051**
Stddev	.034	.00019	.00006	.201	.00027
%RSD	.20371	.26384	.40612	.35077	51.545
#1	16.579	.07254	.01558	57.341	.00033
#2	16.627	.07227	.01549	57.057	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00467**	**31.386**	**.00195**	**.00605**
Stddev	.00	.00173	.092	.00076	.00298
%RSD	.0026	37.086	.29385	39.092	49.228
#1	25.03	.00345	31.320	.00249	.00394
#2	25.03	.00590	31.451	.00141	.00816
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.840**	**-.00032**	**.29949**	**.9907**	**.00029**
Stddev	.008	.00006	.00078	.0019	.00022
%RSD	.05186	19.500	.25878	.1891	76.936
#1	15.846	-.00037	.30004	.9893	.00013
#2	15.834	-.00028	.29895	.9920	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161627-A-2-A Acquired: 12/27/2021 20:43:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00155**	**.00220**	**.00515**	**1.002**
Stddev	.00097	.00003	.00004	.001
%RSD	62.818	1.4371	.68037	.0746
#1	.00224	.00222	.00513	1.001
#2	.00086	.00218	.00518	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3494.4**	**2717.5**	**25419.**	**2747.5**
Stddev	3.0	4.1	31.	2.5
%RSD	.08680	.15212	.12066	.09203
#1	3492.3	2714.6	25441.	2749.3
#2	3496.6	2720.5	25397.	2745.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.298%	94.574%	95.661%	102.06%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 20:47:06 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99675**	**49.525**	**1.0142**	**1.0181**	**.97734**
Stddev	.00100	.002	.0005	.0036	.00156
%RSD	.10042	.00388	.04786	.34852	.15942
#1	.99604	49.524	1.0138	1.0156	.97844
#2	.99745	49.527	1.0145	1.0207	.97623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97111**	**49.045**	**1.0042**	**1.069**	**.97365**
Stddev	.00156	.049	.0002	.000	.00210
%RSD	.16042	.10076	.01601	.0393	.21607
#1	.97221	49.079	1.0041	1.069	.97513
#2	.97001	49.010	1.0043	1.069	.97216
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97188**	**.99037**	**49.365**	**48.281**	**.99799**
Stddev	.00341	.00056	.078	.141	.00177
%RSD	.35087	.05667	.15860	.29192	.17730
#1	.96946	.99077	49.310	48.381	.99924
#2	.97429	.98997	49.420	48.181	.99674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 20:47:06 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.339**	**1.0139**	**.99980**	**50.024**	**.98891**
Stddev	.184	.0027	.00080	.103	.00141
%RSD	.37299	.26448	.08006	.20643	.14213
#1	49.209	1.0120	.99923	50.097	.98991
#2	49.469	1.0158	1.0004	49.951	.98792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.66**	**.97002**	**25.173**	**1.0093**	**.98622**
Stddev	.01	.00009	.048	.0004	.00141
%RSD	.0363	.00940	.19111	.03823	.14273
#1	37.65	.96996	25.139	1.0096	.98722
#2	37.67	.97009	25.207	1.0090	.98523
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8353**	**.96557**	**1.0117**	**1.492**	**.98580**
Stddev	.0014	.00101	.0030	.011	.00090
%RSD	.01383	.10413	.29768	.7196	.09147
#1	9.8363	.96486	1.0139	1.485	.98516
#2	9.8344	.96628	1.0096	1.500	.98643
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 20:47:06 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.96435**	**.97789**	**.99802**	**1.539**
Stddev	.00144	.00032	.00230	.001
%RSD	.14927	.03318	.23008	.0315
#1	.96333	.97766	.99640	1.540
#2	.96536	.97811	.99965	1.539
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3342.0**	**2742.2**	**25106.**	**2733.5**
Stddev	3.9	4.9	98.	13.9
%RSD	.11734	.17795	.38964	.50676
#1	3344.8	2745.7	25175.	2723.7
#2	3339.2	2738.8	25037.	2743.3

Sample Name: CCB-6825508 Acquired: 12/27/2021 20:50:38 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.01756**	**-.00212**	**-.00985**	**.00002**
Stddev	.00050	.04263	.00047	.00043	.00002
%RSD	598.94	242.83	22.256	4.3802	138.74
#1	.00027	.01259	-.00179	-.01015	.00003
#2	-.00044	-.04770	-.00245	-.00954	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00051**	**.00001**	**.0424**	**.00021**
Stddev	.00001	.00071	.00016	.0734	.00013
%RSD	134.26	140.74	1642.1	173.0	62.550
#1	.00000	.00101	-.00010	.0943	.00030
#2	.00001	.00000	.00012	-.0095	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00136**	**.00322**	**-.11723**	**.00290**
Stddev	.00012	.00036	.00384	.05279	.00085
%RSD	429.09	26.513	119.26	45.035	29.420
#1	-.00006	.00162	.00050	-.15456	.00230
#2	.00011	.00111	.00593	-.07990	.00351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 20:50:38 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00001**	**.00113**	**.00653**	**-.00008**
Stddev	.00118	.00008	.00034	.00473	.00038
%RSD	15063.	980.25	30.161	72.463	456.26
#1	-.00083	-.00005	.00089	.00318	-.00035
#2	.00084	.00006	.00137	.00987	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00115**	**.00628**	**.00122**	**.00249**
Stddev	.00	.00115	.00224	.00088	.00137
%RSD	.0050	100.15	35.676	71.994	55.190
#1	25.02	.00033	.00469	.00184	.00346
#2	25.02	.00196	.00786	.00060	.00152
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02178**	**-.00061**	**.00006**	**.9987**	**-.00010**
Stddev	.00302	.00052	.00003	.0009	.00001
%RSD	13.853	85.864	47.741	.0904	10.489
#1	.02391	-.00024	.00008	.9980	-.00009
#2	.01964	-.00098	.00004	.9993	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 20:50:38 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00140**	**-.00036**	**-.00018**	**1.001**
Stddev	.00055	.00014	.00010	.003
%RSD	39.621	39.652	57.485	.2637
#1	.00179	-.00026	-.00011	1.003
#2	.00100	-.00047	-.00025	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3825.6**	**2805.0**	**26426.**	**2724.7**
Stddev	3.8	2.9	52.	11.4
%RSD	.09919	.10172	.19779	.41924
#1	3822.9	2807.0	26463.	2716.6
#2	3828.3	2803.0	26389.	2732.8

Sample Name: CCVL-6825510 Acquired: 12/27/2021 20:54:26 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00514**	**.20655**	**.01220**	F **.00923**	**.00206**
Stddev	.00105	.03101	.00218	.00062	.00003
%RSD	20.416	15.015	17.889	6.6893	1.4443
#1	.00589	.22848	.01065	.00967	.00204
#2	.00440	.18462	.01374	.00880	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				-50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**.49389**	**.00212**	**.0689**	**.00360**
Stddev	.00003	.00467	.00004	.0381	.00020
%RSD	1.5659	.94592	1.7815	55.29	5.5261
#1	.00202	.49059	.00215	.0958	.00374
#2	.00198	.49719	.00209	.0420	.00346
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00389**	**.01070**	**.04772**	**.36282**	**.03050**
Stddev	.00004	.00152	.00091	.03727	.00018
%RSD	1.1006	14.233	1.8978	10.271	.58203
#1	.00392	.00962	.04836	.38917	.03063
#2	.00386	.01178	.04708	.33647	.03038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 20:54:26 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18770**	**.00294**	**.01009**	**.97039**	**.00925**
Stddev	.00186	.00002	.00023	.00273	.00005
%RSD	.98929	.70114	2.2992	.28087	.58911
#1	.18639	.00292	.00993	.97231	.00929
#2	.18902	.00295	.01026	.96846	.00921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00989**	**.19020**	**.02208**	**.02557**
Stddev	.00	.00012	.00084	.00108	.00293
%RSD	.0006	1.2214	.44220	4.8996	11.467
#1	25.00	.00998	.18960	.02285	.02765
#2	25.00	.00981	.19079	.02132	.02350
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50085**	**.00849**	**.00504**	F **.9951**	**.00449**
Stddev	.00668	.00012	.00006	.0076	.00017
%RSD	1.3339	1.4008	1.1789	.7617	3.7698
#1	.49612	.00841	.00500	.9898	.00461
#2	.50557	.00858	.00508	1.001	.00437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 20:54:26 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02070**	**.00470**	**.00927**	F **1.000**
Stddev	.00007	.00007	.00001	.001
%RSD	.35647	1.4833	.11902	.0729
#1	.02076	.00465	.00926	.9998
#2	.02065	.00474	.00928	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3821.4**	**2801.5**	**26462.**	**2707.8**
Stddev	3.6	6.1	95.	17.0
%RSD	.09407	.21881	.35831	.62946
#1	3823.9	2805.8	26529.	2695.7
#2	3818.9	2797.1	26395.	2719.8

Sample Name: 240-161627-A-2-B MS Acquired: 12/27/2021 20:58:13 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04994**	**10.084**	**.22066**	**.41333**	**.24023**
Stddev	.00066	.005	.00027	.00075	.00077
%RSD	1.3204	.04936	.12069	.18066	.31849
#1	.04947	10.080	.22048	.41386	.23969
#2	.05040	10.087	.22085	.41281	.24077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21152**	**83.831**	**.20694**	**.0436**	**.19258**
Stddev	.00044	.043	.00055	.0258	.00018
%RSD	.20671	.05182	.26345	59.13	.09544
#1	.21182	83.862	.20655	.0254	.19271
#2	.21121	83.800	.20732	.0618	.19245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19516**	**.20099**	**10.594**	**13.751**	**.23561**
Stddev	.00040	.00106	.011	.034	.00114
%RSD	.20596	.52767	.10124	.24899	.48340
#1	.19487	.20024	10.586	13.727	.23480
#2	.19544	.20174	10.601	13.776	.23641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161627-A-2-B MS Acquired: 12/27/2021 20:58:13 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.082**	**.27411**	**.22195**	**66.350**	**.19409**
Stddev	.076	.00054	.00056	.150	.00011
%RSD	.29284	.19746	.25159	.22563	.05702
#1	26.028	.27372	.22235	66.245	.19401
#2	26.136	.27449	.22156	66.456	.19417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.68**	**.19907**	**40.817**	**.22261**	**.20069**
Stddev	.00	.00067	.018	.00066	.00383
%RSD	.0027	.33846	.04439	.29586	1.9102
#1	24.68	.19954	40.830	.22215	.20340
#2	24.68	.19859	40.804	.22308	.19798
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.610**	**.18653**	**.49849**	**.9993**	**.20270**
Stddev	.063	.00024	.00080	.0015	.00000
%RSD	.24585	.12663	.16057	.1512	.00114
#1	25.565	.18670	.49793	.9982	.20270
#2	25.654	.18637	.49906	1.000	.20270
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161627-A-2-B MS Acquired: 12/27/2021 20:58:13 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19571**	**.20065**	**.19923**	**1.006**
Stddev	.00072	.00002	.00044	.000
%RSD	.36853	.01092	.21865	.0249
#1	.19622	.20066	.19892	1.006
#2	.19520	.20063	.19954	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3408.5**	**2703.6**	**25230.**	**2731.8**
Stddev	5.5	1.2	29.	3.5
%RSD	.16120	.04604	.11351	.12711
#1	3404.6	2702.7	25250.	2729.3
#2	3412.4	2704.4	25210.	2734.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.078%	94.087%	94.951%	101.48%
Range				

Sample Name: 240-161627-A-2-C MSD Acquired: 12/27/2021 21:01:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04868**	**9.8256**	**.22081**	**.41031**	**.23984**
Stddev	.00072	.0859	.00153	.00107	.00032
%RSD	1.4698	.87470	.69431	.26100	.13483
#1	.04818	9.8864	.22189	.40955	.23961
#2	.04919	9.7649	.21972	.41107	.24007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20644**	**83.943**	**.20490**	**.0207**	**.19266**
Stddev	.00069	.258	.00057	.0033	.00047
%RSD	.33518	.30761	.27693	15.86	.24394
#1	.20693	84.126	.20530	.0230	.19232
#2	.20595	83.760	.20450	.0184	.19299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19125**	**.20035**	**10.533**	**13.718**	**.23445**
Stddev	.00093	.00048	.080	.020	.00034
%RSD	.48420	.23955	.75753	.14800	.14521
#1	.19190	.20001	10.590	13.733	.23469
#2	.19059	.20069	10.477	13.704	.23421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161627-A-2-C MSD Acquired: 12/27/2021 21:01:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.452**	**.27499**	**.21954**	**66.794**	**.19481**
Stddev	.068	.00019	.00094	.335	.00011
%RSD	.25879	.06943	.43018	.50149	.05649
#1	26.403	.27485	.22021	67.031	.19473
#2	26.500	.27512	.21887	66.557	.19489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.69**	**.19873**	**41.168**	**.22065**	**.20245**
Stddev	.00	.00148	.003	.00025	.00296
%RSD	.0043	.74504	.00789	.11525	1.4629
#1	24.69	.19768	41.166	.22047	.20454
#2	24.69	.19978	41.171	.22083	.20035
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.535**	**.18842**	**.49875**	**.9938**	**.20082**
Stddev	.080	.00090	.00284	.0063	.00005
%RSD	.31474	.47984	.56917	.6369	.02586
#1	25.592	.18779	.50076	.9983	.20086
#2	25.478	.18906	.49674	.9893	.20079
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161627-A-2-C MSD Acquired: 12/27/2021 21:01:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19470**	**.19716**	**.19822**	**1.002**
Stddev	.00072	.00035	.00012	.000
%RSD	.36865	.17806	.05892	.0373
#1	.19419	.19741	.19831	1.002
#2	.19520	.19691	.19814	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3422.1**	**2731.3**	**25346.**	**2754.4**
Stddev	2.5	8.2	28.	1.8
%RSD	.07351	.30154	.11024	.06375
#1	3420.4	2725.5	25326.	2753.1
#2	3423.9	2737.1	25366.	2755.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.431%	95.054%	95.388%	102.32%
Range				

Sample Name: 240-161627-A-4-A Acquired: 12/27/2021 21:05:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.01234**	**.00463**	**.32921**	**.03154**
Stddev	.00166	.02000	.00120	.00063	.00003
%RSD	2066.2	162.14	25.910	.19209	.09069
#1	.00109	-.00181	.00378	.32966	.03152
#2	-.00125	.02648	.00548	.32877	.03156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**99.732**	**.00025**	**.0873**	**-.00007**
Stddev	.00015	.958	.00001	.0909	.00009
%RSD	199.79	.96055	2.2100	104.1	140.92
#1	.00018	100.41	.00026	.1515	-.00013
#2	-.00003	99.055	.00025	.0230	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00420**	**.00284**	**.04732**	**9.0550**	**.04624**
Stddev	.00008	.00105	.00062	.0852	.00164
%RSD	1.9223	37.013	1.3085	.94086	3.5509
#1	.00414	.00210	.04688	9.1153	.04508
#2	.00426	.00359	.04776	8.9948	.04740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161627-A-4-A Acquired: 12/27/2021 21:05:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.314**	**.00108**	**.03099**	**74.273**	**.00013**
Stddev	.012	.00000	.00030	.765	.00004
%RSD	.10314	.36201	.95762	1.0301	28.316
#1	11.322	.00109	.03078	74.814	.00016
#2	11.305	.00108	.03120	73.732	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00294**	F **106.48**	**.00165**	**.00930**
Stddev	.00	.00068	.08	.00276	.00558
%RSD	.0053	23.202	.07458	166.82	60.021
#1	25.03	.00342	106.54	.00361	.00535
#2	25.04	.00246	106.43	-.00030	.01324
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.664**	**-.00083**	**.31210**	**.9918**	**.00083**
Stddev	.098	.00003	.00237	.0036	.00003
%RSD	.71856	3.9250	.75935	.3609	4.2113
#1	13.733	-.00081	.31378	.9893	.00085
#2	13.594	-.00086	.31043	.9943	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161627-A-4-A Acquired: 12/27/2021 21:05:23 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00195**	**.01751**	**.00501**	**1.001**
Stddev	.00083	.00043	.00020	.001
%RSD	42.398	2.4574	3.9647	.0769
#1	.00253	.01781	.00487	1.0000
#2	.00136	.01720	.00515	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3469.2**	**2739.3**	**25466.**	**2800.2**
Stddev	3.9	1.0	5.	43.2
%RSD	.11298	.03744	.02129	1.5430
#1	3472.0	2740.0	25470.	2769.6
#2	3466.4	2738.6	25462.	2830.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.647%	95.332%	95.839%	104.02%
Range				

Sample Name: 240-161627-A-6-A Acquired: 12/27/2021 21:09:07 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.02754**	**-.00082**	**.22993**	**.02522**
Stddev	.00058	.02416	.00046	.00080	.00005
%RSD	125.91	87.709	56.393	.34782	.19796
#1	.00005	.04462	-.00049	.23049	.02526
#2	.00087	.01046	-.00115	.22936	.02519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**83.035**	**.00033**	**.0556**	**.00000**
Stddev	.00007	.287	.00016	.0342	.00001
%RSD	260.04	.34557	49.552	61.54	325.36
#1	.00008	83.238	.00021	.0797	.00001
#2	-.00002	82.833	.00044	.0314	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.00151**	**.11568**	**3.8462**	**.03390**
Stddev	.00041	.00028	.00176	.0103	.00042
%RSD	29.425	18.721	1.5236	.26749	1.2289
#1	.00168	.00131	.11693	3.8390	.03419
#2	.00110	.00171	.11444	3.8535	.03361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161627-A-6-A Acquired: 12/27/2021 21:09:07 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.236**	**.02400**	**.02377**	**37.907**	**.00060**
Stddev	.030	.00015	.00024	.016	.00005
%RSD	.19687	.62545	.99015	.04180	9.0708
#1	15.257	.02411	.02394	37.918	.00064
#2	15.215	.02390	.02361	37.895	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.05**	**.00437**	**44.155**	**.00566**	**.00838**
Stddev	.00	.00046	.064	.00064	.00430
%RSD	.0038	10.636	.14476	11.334	51.316
#1	25.05	.00470	44.200	.00521	.01143
#2	25.05	.00404	44.110	.00612	.00534
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.138**	**-.00076**	**.23449**	**.9881**	**.00035**
Stddev	.006	.00011	.00007	.0068	.00002
%RSD	.04157	14.185	.03134	.6877	6.1963
#1	15.134	-.00069	.23455	.9929	.00033
#2	15.143	-.00084	.23444	.9833	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 240-161627-A-6-A Acquired: 12/27/2021 21:09:07 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00189**	**.00395**	**.00716**	**1.001**
Stddev	.00059	.00000	.00049	.001
%RSD	30.905	.02415	6.8874	.0747
#1	.00231	.00395	.00751	1.002
#2	.00148	.00395	.00681	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3512.1**	**2722.1**	**25348.**	**2701.0**
Stddev	6.3	3.1	112.	19.9
%RSD	.17932	.11557	.44251	.73700
#1	3516.6	2724.3	25269.	2686.9
#2	3507.7	2719.9	25428.	2715.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.756%	94.733%	95.396%	100.33%
Range				

Sample Name: MB 480-609871/1-B Acquired: 12/27/2021 21:12:50 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.01292**	**-.00247**	F **-.01050**	**.00002**
Stddev	.00003	.01872	.00290	.00023	.00003
%RSD	6.9373	144.83	117.35	2.1897	161.26
#1	-.00053	.00031	-.00451	-.01034	.00004
#2	-.00048	-.02616	-.00042	-.01067	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.00800	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.01682**	**.00012**	**.0609**	**.00024**
Stddev	.00009	.00024	.00008	.0073	.00013
%RSD	283.88	1.4361	64.358	12.03	53.193
#1	.00003	.01699	.00018	.0557	.00015
#2	-.00009	.01665	.00007	.0661	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00143**	**.00215**	**-.05747**	**.00112**
Stddev	.00006	.00018	.00010	.01691	.00200
%RSD	20.426	12.507	4.7520	29.425	178.67
#1	.00033	.00156	.00208	-.06943	-.00030
#2	.00024	.00131	.00222	-.04552	.00254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-609871/1-B Acquired: 12/27/2021 21:12:50 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00218**	**.00009**	**-.00019**	**.02148**	**.00026**
Stddev	.00122	.00004	.00000	.01072	.00014
%RSD	55.776	43.625	2.4592	49.892	52.605
#1	-.00304	.00006	-.00020	.02906	.00016
#2	-.00132	.00011	-.00019	.01390	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00004**	**.01644**	**.00102**	**-.00211**
Stddev	.00	.00078	.00117	.00093	.00225
%RSD	.0009	1868.6	7.0983	91.797	106.83
#1	25.02	-.00059	.01561	.00036	-.00052
#2	25.02	.00051	.01726	.00168	-.00370
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00642**	**-.00035**	**.00028**	**.9948**	**-.00015**
Stddev	.00354	.00046	.00006	.0047	.00006
%RSD	55.058	132.10	22.865	.4710	39.511
#1	-.00892	-.00067	.00023	.9915	-.00011
#2	-.00392	-.00002	.00032	.9981	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-609871/1-B Acquired: 12/27/2021 21:12:50 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00148**	**.00017**	**.00242**	**1.001**
Stddev	.00016	.00031	.00010	.002
%RSD	11.028	184.46	4.1409	.2254
#1	.00160	.00038	.00249	.9995
#2	.00137	-.00005	.00235	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3861.4**	**2814.9**	**26777.**	**2749.3**
Stddev	.6	.6	14.	11.6
%RSD	.01584	.02178	.05196	.42186
#1	3861.9	2815.4	26767.	2741.1
#2	3861.0	2814.5	26787.	2757.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.782%	97.964%	100.77%	102.13%
Range				

Sample Name: LCS 480-609871/2-B Acquired: 12/27/2021 21:16:36 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04832**	**9.9323**	**.20651**	**.19130**	**.20267**
Stddev	.00026	.0115	.00251	.00016	.00060
%RSD	.52936	.11537	1.2131	.08330	.29622
#1	.04850	9.9242	.20828	.19119	.20310
#2	.04814	9.9404	.20474	.19142	.20225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20501**	**9.7489**	**.20290**	**.0525**	**.18772**
Stddev	.00025	.0018	.00066	.0164	.00006
%RSD	.12166	.01793	.32449	31.29	.03070
#1	.20519	9.7477	.20243	.0642	.18776
#2	.20483	9.7501	.20336	.0409	.18768
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19323**	**.19860**	**9.9544**	**9.3801**	**.19976**
Stddev	.00042	.00092	.0097	.0813	.00144
%RSD	.21777	.46533	.09704	.86659	.72171
#1	.19293	.19926	9.9612	9.4376	.20078
#2	.19353	.19795	9.9475	9.3227	.19874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-609871/2-B Acquired: 12/27/2021 21:16:36 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8654**	**.20534**	**.20401**	**9.7274**	**.19006**
Stddev	.0060	.00042	.00020	.0443	.00001
%RSD	.06068	.20336	.09812	.45497	.00600
#1	9.8696	.20563	.20415	9.7587	.19005
#2	9.8612	.20504	.20386	9.6961	.19006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.67**	**.19157**	**9.5317**	**.21929**	**.19265**
Stddev	.00	.00013	.0085	.00115	.00509
%RSD	.0005	.06841	.08915	.52284	2.6428
#1	24.67	.19148	9.5257	.22010	.19625
#2	24.67	.19167	9.5377	.21848	.18905
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5728**	**.17970**	**.20311**	**1.001**	**.19885**
Stddev	.0053	.00049	.00040	.009	.00065
%RSD	.05503	.27144	.19756	.9429	.32481
#1	9.5691	.18005	.20340	1.008	.19839
#2	9.5765	.17936	.20283	.9948	.19931
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-609871/2-B Acquired: 12/27/2021 21:16:36 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19115**	**.19386**	**.19858**	**1.002**
Stddev	.00073	.00030	.00105	.003
%RSD	.38435	.15350	.52866	.2890
#1	.19167	.19407	.19932	1.000
#2	.19063	.19365	.19784	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3648.4**	**2772.0**	**25987.**	**2756.5**
Stddev	2.4	1.0	40.	3.3
%RSD	.06637	.03759	.15375	.12092
#1	3646.7	2771.2	26015.	2754.2
#2	3650.1	2772.7	25959.	2758.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.278%	96.468%	97.800%	102.40%
Range				

Sample Name: 480-193573-J-1-B Acquired: 12/27/2021 21:20:11 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.02282**	**-.00077**	**.09915**	**.45280**
Stddev	.00052	.00850	.00044	.00063	.00027
%RSD	391.10	37.238	57.539	.63833	.06045
#1	.00050	.02883	-.00108	.09870	.45299
#2	-.00023	.01681	-.00046	.09959	.45260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**206.62**	**.00067**	**-.0289**	**.00250**
Stddev	.00005	.46	.00030	.0109	.00017
%RSD	787.51	.22264	45.102	37.72	6.9045
#1	-.00004	206.95	.00045	-.0212	.00262
#2	.00003	206.30	.00088	-.0366	.00238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00391**	**.00264**	**7.6263**	**.04813**
Stddev	.00001	.00098	.00511	.0332	.00088
%RSD	3.8703	25.089	193.50	.43484	1.8259
#1	.00035	.00460	.00626	7.6497	.04875
#2	.00033	.00322	-.00097	7.6029	.04751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-1-B Acquired: 12/27/2021 21:20:11 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**58.800**	**5.6087**	**.00676**	**54.457**	**.00283**
Stddev	.015	.0242	.00015	.349	.00012
%RSD	.02485	.43102	2.2291	.64080	4.0688
#1	58.810	5.6258	.00665	54.704	.00291
#2	58.789	5.5916	.00687	54.210	.00275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.13**	**.00368**	**59.760**	**-.00155**	**.00050**
Stddev	.00	.00056	.128	.00036	.00076
%RSD	.0026	15.230	.21476	23.067	152.93
#1	25.13	.00408	59.669	-.00181	.00103
#2	25.13	.00329	59.851	-.00130	-.00004
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.972**	**-.00049**	**.91285**	**.9961**	**.00109**
Stddev	.107	.00007	.00212	.0029	.00044
%RSD	.62857	14.708	.23213	.2918	40.476
#1	17.047	-.00054	.91434	.9981	.00141
#2	16.896	-.00044	.91135	.9940	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-1-B Acquired: 12/27/2021 21:20:11 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00297**	**-.00112**	**.02533**	**.9964**
Stddev	.00169	.00041	.00070	.0009
%RSD	57.048	36.618	2.7557	.0894
#1	.00416	-.00141	.02582	.9971
#2	.00177	-.00083	.02483	.9958
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3321.9**	**2650.9**	**24721.**	**2723.6**
Stddev	9.5	6.8	30.	8.7
%RSD	.28511	.25503	.12198	.32063
#1	3315.2	2646.1	24700.	2717.4
#2	3328.6	2655.7	24743.	2729.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.840%	92.254%	93.036%	101.17%
Range				

Sample Name: 480-193573-J-2-B Acquired: 12/27/2021 21:24:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.02411**	**-.00136**	**.09327**	**.16442**
Stddev	.00153	.03440	.00130	.00033	.00021
%RSD	1529.5	142.65	95.787	.35483	.12482
#1	.00118	-.00021	-.00228	.09304	.16456
#2	-.00098	.04844	-.00044	.09350	.16427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**216.40**	**.00115**	**.0086**	**.00480**
Stddev	.00001	.52	.00027	.0448	.00026
%RSD	8.3896	.24049	23.525	521.0	5.3435
#1	-.00011	216.77	.00135	.0403	.00499
#2	-.00010	216.03	.00096	-.0231	.00462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00469**	**.00129**	**6.5153**	**.03980**
Stddev	.00022	.00042	.00101	.0190	.00226
%RSD	183.01	8.9797	78.008	.29090	5.6711
#1	-.00004	.00439	.00200	6.5287	.04139
#2	.00028	.00499	.00058	6.5019	.03820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-2-B Acquired: 12/27/2021 21:24:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**72.911**	**4.1923**	**.00586**	**91.309**	**.00614**
Stddev	.073	.0034	.00006	.650	.00017
%RSD	.10058	.08205	.98427	.71187	2.7618
#1	72.963	4.1947	.00582	91.769	.00626
#2	72.859	4.1899	.00590	90.850	.00602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.13**	**.00544**	**78.486**	**-.00091**	**-.00168**
Stddev	.00	.00038	.026	.00080	.00749
%RSD	.0097	7.0427	.03263	88.420	445.12
#1	25.13	.00571	78.468	-.00034	.00361
#2	25.12	.00517	78.504	-.00147	-.00698
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.451**	**-.00048**	**.47348**	**.9866**	**.00114**
Stddev	.056	.00099	.00204	.0124	.00062
%RSD	.34110	206.33	.43017	1.260	54.254
#1	16.491	.00022	.47492	.9778	.00070
#2	16.411	-.00118	.47204	.9954	.00157
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-2-B Acquired: 12/27/2021 21:24:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00240**	**-.00007**	**.01417**	**.9982**
Stddev	.00050	.00009	.00009	.0005
%RSD	20.999	133.41	.66882	.0490
#1	.00204	-.00013	.01411	.9986
#2	.00275	-.00000	.01424	.9979
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3269.5**	**2620.2**	**24544.**	**2678.8**
Stddev	3.7	1.3	63.	6.7
%RSD	.11430	.04797	.25623	.24878
#1	3266.8	2621.1	24499.	2683.5
#2	3272.1	2619.3	24588.	2674.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.485%	91.187%	92.367%	99.508%
Range				

Sample Name: 480-193573-J-3-B Acquired: 12/27/2021 21:27:44 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.01281**	**.00220**	**.27197**	**.25017**
Stddev	.00023	.01253	.00032	.00065	.00046
%RSD	218.79	97.856	14.646	.24042	.18476
#1	-.00027	.02167	.00243	.27243	.25049
#2	.00006	.00394	.00197	.27150	.24984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**198.49**	**.00061**	**-.0090**	**.00060**
Stddev	.00008	.06	.00025	.0508	.00002
%RSD	83.649	.03088	40.571	565.8	4.1635
#1	.00004	198.44	.00079	-.0449	.00058
#2	.00015	198.53	.00044	.0269	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00194**	**.00568**	**10.493**	**.03536**
Stddev	.00027	.00085	.00067	.031	.00023
%RSD	272.61	43.877	11.838	.29676	.63635
#1	.00009	.00134	.00520	10.471	.03520
#2	-.00029	.00254	.00615	10.515	.03552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-3-B Acquired: 12/27/2021 21:27:44 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**60.242**	**1.4890**	**.00277**	**65.074**	**.00025**
Stddev	.108	.0032	.00011	.314	.00012
%RSD	.17885	.21835	3.9199	.48292	48.310
#1	60.319	1.4913	.00269	64.852	.00034
#2	60.166	1.4867	.00285	65.296	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.11**	**.00637**	**29.533**	**-.00033**	**.00315**
Stddev	.00	.00120	.076	.00206	.00102
%RSD	.0065	18.838	.25715	620.47	32.260
#1	25.11	.00721	29.587	-.00179	.00387
#2	25.11	.00552	29.479	.00112	.00243
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.817**	**-.00045**	**1.2911**	**.9968**	**.00093**
Stddev	.001	.00028	.0022	.0110	.00019
%RSD	.00242	61.224	.17298	1.106	20.035
#1	24.818	-.00026	1.2895	.9890	.00107
#2	24.817	-.00065	1.2927	1.005	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-3-B Acquired: 12/27/2021 21:27:44 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00210**	**-.00043**	**.00723**	**.9990**
Stddev	.00047	.00039	.00036	.0007
%RSD	22.413	90.669	5.0109	.0655
#1	.00243	-.00016	.00749	.9995
#2	.00177	-.00071	.00698	.9985
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3295.5**	**2636.5**	**24636.**	**2682.9**
Stddev	.9	2.0	32.	.4
%RSD	.02839	.07445	.12873	.01588
#1	3296.1	2635.1	24659.	2683.2
#2	3294.8	2637.9	24614.	2682.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.157%	91.755%	92.716%	99.662%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 21:31:28 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98700**	**49.846**	**1.0085**	**1.0192**	**.97446**
Stddev	.00108	.402	.0017	.0001	.00458
%RSD	.10926	.80565	.17204	.00921	.47034
#1	.98776	50.130	1.0098	1.0193	.97770
#2	.98624	49.562	1.0073	1.0191	.97122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98144**	**49.031**	**1.0092**	**1.103**	**.96158**
Stddev	.00503	.240	.0008	.037	.00060
%RSD	.51230	.48926	.07496	3.340	.06289
#1	.98499	49.201	1.0087	1.129	.96116
#2	.97788	48.862	1.0097	1.077	.96201
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97617**	**.98732**	**48.805**	**48.235**	**1.0033**
Stddev	.00248	.00072	.222	.246	.0047
%RSD	.25393	.07311	.45505	.51077	.47042
#1	.97792	.98681	48.962	48.409	1.0066
#2	.97441	.98783	48.648	48.061	.99996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 21:31:28 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.339**	**1.0017**	**1.0023**	**49.979**	**.97669**
Stddev	.009	.0013	.0012	.256	.00033
%RSD	.01966	.12747	.11668	.51294	.03361
#1	48.346	1.0008	1.0031	50.161	.97692
#2	48.332	1.0026	1.0015	49.798	.97646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.54**	**.95422**	**24.895**	**1.0149**	**.97561**
Stddev	.00	.00201	.021	.0003	.00506
%RSD	.0103	.21023	.08375	.02943	.51815
#1	37.54	.95280	24.910	1.0152	.97918
#2	37.54	.95563	24.880	1.0147	.97203
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8719**	**.95316**	**1.0041**	**1.502**	**.98724**
Stddev	.0278	.00017	.0054	.001	.00004
%RSD	.28107	.01753	.53607	.0535	.00388
#1	9.8916	.95328	1.0080	1.502	.98726
#2	9.8523	.95304	1.0003	1.503	.98721
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 21:31:28 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.94965**	**.98300**	**.99042**	**1.535**
Stddev	.00770	.00069	.00241	.002
%RSD	.81048	.06998	.24314	.1201
#1	.95510	.98251	.99212	1.537
#2	.94421	.98349	.98871	1.534
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3319.6**	**2694.6**	**24886.**	**2668.0**
Stddev	1.0	.2	39.	1.8
%RSD	.03006	.00570	.15622	.06586
#1	3318.9	2694.7	24858.	2666.7
#2	3320.3	2694.5	24913.	2669.2

Sample Name: CCB-6825508 Acquired: 12/27/2021 21:35:01 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00388**	**-.00085**	**-.00976**	**.00005**
Stddev	.00080	.03278	.00005	.00003	.00001
%RSD	326.96	845.48	6.2587	.28266	25.809
#1	-.00032	-.02706	-.00089	-.00978	.00006
#2	.00081	.01930	-.00081	-.00974	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00092**	**.00002**	**.0994**	**.00021**
Stddev	.00003	.00280	.00015	.0543	.00002
%RSD	120.69	303.99	956.68	54.60	10.548
#1	.00000	.00290	.00012	.0610	.00020
#2	.00005	-.00106	-.00009	.1378	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00267**	**.00205**	**-.07150**	**.00244**
Stddev	.00024	.00011	.00067	.00153	.00259
%RSD	73.781	4.2004	32.698	2.1455	106.33
#1	.00016	.00275	.00157	-.07042	.00427
#2	.00050	.00259	.00252	-.07259	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 21:35:01 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**-.00003**	**.00146**	**.00965**	**-.00002**
Stddev	.00186	.00002	.00001	.00607	.00014
%RSD	223.74	57.298	.50273	62.938	730.22
#1	.00215	-.00004	.00146	.01394	-.00012
#2	-.00048	-.00002	.00147	.00535	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00131**	**.00779**	**.00130**	**.00462**
Stddev	.00	.00022	.00303	.00166	.00278
%RSD	.0031	17.076	38.906	127.14	60.290
#1	25.02	.00116	.00994	.00013	.00265
#2	25.02	.00147	.00565	.00248	.00658
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00303**	**-.00023**	**.00020**	**.9949**	**-.00010**
Stddev	.00962	.00033	.00015	.0016	.00016
%RSD	317.40	141.99	73.049	.1577	156.00
#1	-.00984	.00000	.00010	.9960	.00001
#2	.00377	-.00047	.00030	.9938	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 21:35:01 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00150**	**-.00022**	**-.00029**	**1.003**
Stddev	.00054	.00017	.00039	.000
%RSD	35.778	75.577	132.95	.0100
#1	.00112	-.00034	-.00002	1.003
#2	.00188	-.00010	-.00057	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3835.3**	**2789.9**	**26235.**	**2697.6**
Stddev	5.1	12.6	118.	.3
%RSD	.13259	.45120	.44945	.01048
#1	3831.7	2781.0	26318.	2697.4
#2	3838.9	2798.8	26152.	2697.8

Sample Name: CCVL-6825510 Acquired: 12/27/2021 21:38:51 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00619**	**.18589**	**.01315**	F **.00897**	**.00204**
Stddev	.00035	.02165	.00105	.00021	.00003
%RSD	5.7347	11.647	7.9898	2.2901	1.3355
#1	.00594	.17058	.01241	.00912	.00202
#2	.00644	.20120	.01390	.00883	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				-50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00192**	**.49390**	**.00210**	**.0601**	**.00372**
Stddev	.00010	.00128	.00016	.0219	.00009
%RSD	5.1305	.25903	7.5356	36.41	2.5122
#1	.00185	.49300	.00221	.0446	.00378
#2	.00198	.49481	.00199	.0756	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00373**	**.01214**	**.04896**	**.41205**	**.03006**
Stddev	.00018	.00062	.00237	.02544	.00092
%RSD	4.7221	5.1100	4.8498	6.1729	3.0733
#1	.00385	.01171	.04729	.39407	.03071
#2	.00360	.01258	.05064	.43004	.02940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 21:38:51 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18763**	**.00312**	**.01024**	**.96588**	**.00981**
Stddev	.00335	.00001	.00004	.00879	.00010
%RSD	1.7841	.32433	.38501	.91005	1.0493
#1	.19000	.00311	.01021	.95966	.00974
#2	.18526	.00313	.01027	.97209	.00989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00977**	**.18983**	**.02243**	**.02586**
Stddev	.00	.00063	.00118	.00031	.00107
%RSD	.0100	6.4021	.62185	1.3639	4.1436
#1	25.00	.00933	.19067	.02221	.02661
#2	25.00	.01021	.18900	.02264	.02510
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47237**	**.00856**	**.00526**	F **.9963**	**.00436**
Stddev	.00868	.00054	.00012	.0019	.00011
%RSD	1.8372	6.3091	2.2013	.1860	2.6319
#1	.46623	.00818	.00518	.9950	.00428
#2	.47850	.00894	.00535	.9977	.00444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 21:38:51 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01978**	**.00484**	**.00959**	F **1.002**
Stddev	.00050	.00001	.00020	.002
%RSD	2.5450	.28048	2.0575	.1911
#1	.01943	.00485	.00945	1.001
#2	.02014	.00483	.00973	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3844.5**	**2842.3**	**26658.**	**2768.1**
Stddev	.9	2.8	115.	3.0
%RSD	.02397	.09762	.43190	.10758
#1	3843.9	2840.3	26577.	2770.2
#2	3845.2	2844.2	26740.	2766.0

Sample Name: 480-193573-J-4-B Acquired: 12/27/2021 21:42:38 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**-.01478**	**.03244**	**.15111**	**.41064**
Stddev	.00007	.01336	.00207	.00028	.00078
%RSD	9.9000	90.394	6.3929	.18765	.19079
#1	.00080	-.02422	.03098	.15091	.41119
#2	.00070	-.00533	.03391	.15131	.41008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**262.78**	**.00065**	**-.0100**	**.00354**
Stddev	.00002	1.49	.00009	.0410	.00003
%RSD	107.19	.56519	13.463	408.3	.79697
#1	-.00000	263.83	.00071	.0189	.00352
#2	-.00003	261.73	.00059	-.0390	.00356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00116**	**-.00005**	**10.372**	**.06075**
Stddev	.00024	.00042	.00326	.085	.00403
%RSD	496.03	36.468	7205.7	.82331	6.6300
#1	.00022	.00086	.00226	10.432	.05790
#2	-.00012	.00145	-.00235	10.311	.06360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-4-B Acquired: 12/27/2021 21:42:38 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.907**	**7.2153**	**.00470**	**65.254**	**.00307**
Stddev	.106	.0337	.00021	.155	.00048
%RSD	.16077	.46666	4.4995	.23698	15.662
#1	65.982	7.2391	.00485	65.145	.00273
#2	65.832	7.1915	.00455	65.363	.00341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.38**	**.00508**	**84.255**	**-.00136**	**.00023**
Stddev	.00	.00060	.124	.00138	.00124
%RSD	.0044	11.832	.14700	101.73	541.78
#1	25.38	.00551	84.168	-.00038	.00111
#2	25.38	.00466	84.343	-.00233	-.00065
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.367**	**-.00027**	**1.2963**	**.9890**	**.00129**
Stddev	.085	.00003	.0095	.0017	.00008
%RSD	.41558	10.069	.73507	.1729	6.3154
#1	20.427	-.00029	1.3030	.9878	.00134
#2	20.307	-.00025	1.2895	.9902	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-4-B Acquired: 12/27/2021 21:42:38 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00271**	**-.00102**	**.00455**	**.9956**
Stddev	.00064	.00014	.00055	.0018
%RSD	23.631	13.238	12.048	.1826
#1	.00226	-.00112	.00416	.9943
#2	.00316	-.00093	.00494	.9968
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3245.0**	**2597.3**	**24215.**	**2671.7**
Stddev	.0	3.2	41.	19.7
%RSD	.00008	.12150	.16756	.73614
#1	3245.0	2599.5	24186.	2657.8
#2	3245.0	2595.1	24244.	2685.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.854%	90.389%	91.131%	99.245%
Range				

Sample Name: 480-193573-J-5-B Acquired: 12/27/2021 21:46:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.01196**	**-.00054**	**.08578**	**.11139**
Stddev	.00012	.02891	.00071	.00039	.00029
%RSD	75.299	241.72	132.34	.45838	.25700
#1	-.00024	-.03240	-.00104	.08606	.11160
#2	-.00007	.00848	-.00003	.08551	.11119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**106.27**	**.00069**	**.0371**	**.00064**
Stddev	.00000	.75	.00016	.0303	.00001
%RSD	12.977	.70803	22.741	81.67	.85029
#1	-.00004	106.80	.00080	.0157	.00064
#2	-.00003	105.74	.00058	.0586	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00241**	**-.00022**	**3.6994**	**.02870**
Stddev	.00033	.00028	.00031	.0762	.00032
%RSD	597.50	11.760	140.95	2.0597	1.1202
#1	-.00018	.00261	-.00044	3.7533	.02893
#2	.00029	.00221	-.00000	3.6455	.02847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-5-B Acquired: 12/27/2021 21:46:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.114**	**1.9549**	**.00556**	**63.188**	**.00373**
Stddev	.087	.0074	.00019	.692	.00009
%RSD	.24740	.37706	3.4469	1.0959	2.4351
#1	35.176	1.9601	.00543	63.677	.00367
#2	35.053	1.9497	.00570	62.698	.00380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.14**	**.00398**	**31.197**	**-.00081**	**.00317**
Stddev	.00	.00009	.075	.00214	.00330
%RSD	.0000	2.3362	.24202	264.30	104.26
#1	25.14	.00392	31.250	-.00232	.00083
#2	25.14	.00405	31.143	.00070	.00550
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.830**	**-.00091**	**.22653**	**.9933**	**.00076**
Stddev	.134	.00042	.00074	.0048	.00066
%RSD	.74965	46.323	.32824	.4872	86.332
#1	17.924	-.00121	.22706	.9899	.00030
#2	17.735	-.00061	.22601	.9967	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-5-B Acquired: 12/27/2021 21:46:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00126**	**.00117**	**.00593**	**.9992**
Stddev	.00156	.00028	.00016	.0017
%RSD	123.88	23.658	2.6421	.1654
#1	.00016	.00097	.00582	.9980
#2	.00236	.00137	.00604	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3408.7**	**2671.5**	**25117.**	**2684.4**
Stddev	3.8	1.4	30.	27.8
%RSD	.11168	.05172	.12005	1.0348
#1	3411.4	2672.5	25096.	2664.7
#2	3406.0	2670.6	25138.	2704.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.082%	92.973%	94.525%	99.716%
Range				

Sample Name: 480-193573-J-6-B Acquired: 12/27/2021 21:50:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.03056**	**-.00230**	**.06946**	**.19423**
Stddev	.00027	.03560	.00073	.00008	.00003
%RSD	144.63	116.50	31.748	.11462	.01548
#1	-.00038	.00539	-.00282	.06940	.19421
#2	.00000	.05573	-.00179	.06951	.19426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**132.64**	**.00104**	**-.0065**	**.00044**
Stddev	.00003	.03	.00017	.0394	.00014
%RSD	90.070	.02219	16.003	607.8	30.754
#1	-.00001	132.62	.00093	-.0343	.00054
#2	-.00005	132.66	.00116	.0214	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00305**	**.00163**	**1.1967**	**.03557**
Stddev	.00002	.00080	.00012	.0629	.00078
%RSD	8.6934	26.124	7.4704	5.2573	2.1886
#1	.00020	.00361	.00155	1.1522	.03502
#2	.00022	.00248	.00172	1.2412	.03612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-6-B Acquired: 12/27/2021 21:50:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.859**	**1.2947**	**.00078**	**35.417**	**.00424**
Stddev	.010	.0010	.00004	.050	.00008
%RSD	.02840	.07900	5.2872	.14223	1.9863
#1	36.852	1.2940	.00081	35.382	.00418
#2	36.867	1.2954	.00075	35.453	.00430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.09**	**.00404**	**35.556**	**.00266**	**.00112**
Stddev	.00	.00046	.016	.00027	.00235
%RSD	.0062	11.504	.04481	10.275	210.52
#1	25.09	.00371	35.568	.00285	.00278
#2	25.09	.00437	35.545	.00246	-.00055
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.818**	**-.00004**	**.39583**	**.9925**	**.00046**
Stddev	.004	.00022	.00045	.0047	.00014
%RSD	.02599	528.76	.11331	.4778	30.844
#1	14.815	-.00020	.39551	.9892	.00056
#2	14.820	.00011	.39615	.9959	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-6-B Acquired: 12/27/2021 21:50:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00170**	**.00164**	**.00748**	**.9995**
Stddev	.00148	.00014	.00012	.0008
%RSD	87.052	8.5871	1.6258	.0783
#1	.00275	.00174	.00739	.9990
#2	.00065	.00154	.00756	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3431.7**	**2676.3**	**25060.**	**2686.3**
Stddev	2.6	2.6	3.	1.5
%RSD	.07568	.09714	.01038	.05735
#1	3433.6	2678.1	25062.	2685.2
#2	3429.9	2674.4	25058.	2687.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.678%	93.138%	94.312%	99.788%
Range				

Sample Name: 480-193573-J-6-BSD@5 Acquired: 12/27/2021 21:53:51 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**-.00573**	**-.00071**	**.00504**	**.04020**
Stddev	.00025	.01307	.00129	.00027	.00012
%RSD	64.606	228.17	181.76	5.2603	.29604
#1	-.00021	-.01496	.00020	.00486	.04028
#2	-.00057	.00351	-.00162	.00523	.04011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**27.029**	**.00027**	**.0494**	**.00020**
Stddev	.00004	.026	.00002	.0291	.00010
%RSD	83.697	.09647	7.6477	59.02	51.310
#1	.00007	27.011	.00029	.0700	.00013
#2	.00002	27.048	.00026	.0288	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00340**	**.00056**	**.15772**	**.00869**
Stddev	.00066	.00110	.00097	.03936	.00081
%RSD	1562.1	32.317	173.31	24.958	9.3409
#1	.00051	.00418	.00124	.18556	.00811
#2	-.00042	.00263	-.00013	.12989	.00926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-6-BSD@5 Acquired: 12/27/2021 21:53:51 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6935**	**.27216**	**-.00009**	**7.2285**	**.00111**
Stddev	.0444	.00122	.00015	.0419	.00014
%RSD	.57718	.44756	166.45	.57988	12.264
#1	7.7249	.27302	.00002	7.1989	.00101
#2	7.6621	.27130	-.00020	7.2582	.00120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00069**	**7.1260**	**-.00106**	**.00158**
Stddev	.00	.00061	.0298	.00014	.00242
%RSD	.0097	88.108	.41837	13.018	152.54
#1	25.03	.00113	7.1049	-.00116	-.00012
#2	25.04	.00026	7.1471	-.00096	.00329
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9878**	**-.00030**	**.08208**	**.9969**	**-.00003**
Stddev	.0014	.00044	.00040	.0036	.00024
%RSD	.04535	147.96	.48335	.3606	709.62
#1	2.9868	-.00061	.08180	.9994	.00014
#2	2.9887	.00001	.08236	.9943	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-6-BSD@5 Acquired: 12/27/2021 21:53:51 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00167**	**.00028**	**.00160**	**1.001**
Stddev	.00003	.00038	.00030	.001
%RSD	1.8830	135.13	18.513	.0590
#1	.00165	.00001	.00139	1.001
#2	.00169	.00055	.00181	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3726.1**	**2799.1**	**26195.**	**2779.4**
Stddev	3.9	7.6	34.	27.3
%RSD	.10440	.27310	.13166	.98166
#1	3723.3	2793.7	26171.	2798.7
#2	3728.9	2804.5	26219.	2760.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.285%	97.413%	98.582%	103.25%
Range				

Sample Name: 480-193573-J-6-BPDS Acquired: 12/27/2021 21:57:35 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04836**	**9.8970**	**.21050**	**.27100**	**.38327**
Stddev	.00025	.0654	.00083	.00000	.00080
%RSD	.52032	.66109	.39350	.00076	.20925
#1	.04819	9.8507	.21109	.27100	.38271
#2	.04854	9.9433	.20992	.27100	.38384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20658**	**139.69**	**.20213**	**.0261**	**.18838**
Stddev	.00042	.03	.00020	.0029	.00050
%RSD	.20151	.01913	.09669	11.24	.26695
#1	.20629	139.67	.20227	.0282	.18874
#2	.20688	139.71	.20199	.0240	.18803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19171**	**.19461**	**9.7258**	**10.782**	**.22739**
Stddev	.00104	.00018	.0066	.046	.00083
%RSD	.54087	.09405	.06775	.42873	.36351
#1	.19097	.19448	9.7211	10.814	.22681
#2	.19244	.19474	9.7305	10.749	.22798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-6-BPDS Acquired: 12/27/2021 21:57:35 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.798**	**1.4466**	**.20309**	**43.951**	**.19374**
Stddev	.039	.0026	.00028	.008	.00010
%RSD	.08571	.18029	.13834	.01805	.05199
#1	45.770	1.4447	.20328	43.946	.19381
#2	45.826	1.4484	.20289	43.957	.19367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.75**	**.19720**	**44.948**	**.21785**	**.19790**
Stddev	.00	.00304	.058	.00091	.00086
%RSD	.0027	1.5405	.12800	.41634	.43316
#1	24.75	.19935	44.989	.21849	.19850
#2	24.75	.19505	44.908	.21721	.19729
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.209**	**.19209**	**.57790**	**.9995**	**.19824**
Stddev	.020	.00042	.00117	.0049	.00057
%RSD	.08339	.22086	.20198	.4856	.28687
#1	24.223	.19179	.57873	.9961	.19784
#2	24.194	.19239	.57708	1.003	.19865
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-6-BPDS Acquired: 12/27/2021 21:57:35 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19480**	**.19549**	**.20076**	**1.004**
Stddev	.00031	.00106	.00048	.001
%RSD	.15657	.54432	.24069	.0624
#1	.19502	.19624	.20110	1.005
#2	.19459	.19474	.20042	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3355.3**	**2691.3**	**25118.**	**2731.8**
Stddev	3.8	6.7	18.	7.0
%RSD	.11187	.25035	.07360	.25613
#1	3357.9	2696.1	25105.	2736.7
#2	3352.6	2686.5	25131.	2726.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.703%	93.661%	94.530%	101.48%
Range				

Sample Name: 480-193573-J-6-C MS Acquired: 12/27/2021 22:01:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04909**	**10.028**	**.21163**	**.27246**	**.38476**
Stddev	.00105	.036	.00358	.00003	.00011
%RSD	2.1382	.35481	1.6898	.01019	.02911
#1	.04835	10.003	.20910	.27244	.38468
#2	.04983	10.053	.21415	.27248	.38483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21136**	**141.22**	**.20453**	**.0304**	**.18972**
Stddev	.00012	.04	.00008	.0678	.00002
%RSD	.05687	.02899	.04089	223.1	.00899
#1	.21144	141.19	.20447	-.0176	.18973
#2	.21127	141.25	.20459	.0784	.18971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19410**	**.19684**	**9.8392**	**10.870**	**.23126**
Stddev	.00097	.00031	.0250	.016	.00058
%RSD	.50220	.15912	.25451	.14722	.24889
#1	.19479	.19706	9.8215	10.859	.23167
#2	.19341	.19662	9.8569	10.882	.23085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-6-C MS Acquired: 12/27/2021 22:01:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.835**	**1.4535**	**.20627**	**44.472**	**.19424**
Stddev	.026	.0013	.00019	.072	.00056
%RSD	.05669	.08949	.09065	.16162	.28597
#1	45.854	1.4525	.20640	44.421	.19384
#2	45.817	1.4544	.20614	44.523	.19463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.75**	**.19764**	**44.816**	**.21802**	**.19586**
Stddev	.00	.00003	.008	.00373	.00127
%RSD	.0005	.01376	.01706	1.7103	.64627
#1	24.75	.19762	44.811	.21538	.19497
#2	24.75	.19766	44.822	.22066	.19676
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.351**	**.18881**	**.58252**	**.9962**	**.20055**
Stddev	.099	.00035	.00059	.0156	.00010
%RSD	.40738	.18312	.10109	1.567	.04773
#1	24.281	.18905	.58211	1.007	.20048
#2	24.421	.18856	.58294	.9852	.20062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-6-C MS Acquired: 12/27/2021 22:01:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19562**	**.19674**	**.20334**	**1.001**
Stddev	.00033	.00141	.00002	.000
%RSD	.16904	.71670	.01161	.0141
#1	.19585	.19773	.20336	1.001
#2	.19538	.19574	.20333	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3344.8**	**2676.6**	**24839.**	**2665.7**
Stddev	12.1	8.2	14.	10.0
%RSD	.36056	.30819	.05776	.37586
#1	3336.3	2670.8	24829.	2672.8
#2	3353.4	2682.5	24849.	2658.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.433%	93.151%	93.480%	99.022%
Range				

Sample Name: 480-193573-J-6-D MSD Acquired: 12/27/2021 22:04:44 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04963**	**9.9208**	**.21174**	**.27372**	**.39090**
Stddev	.00037	.0521	.00088	.00017	.00008
%RSD	.73774	.52494	.41645	.06178	.02053
#1	.04937	9.9576	.21237	.27384	.39085
#2	.04989	9.8840	.21112	.27360	.39096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20829**	**141.54**	**.20558**	**.0172**	**.18989**
Stddev	.00049	.56	.00006	.0423	.00041
%RSD	.23560	.39516	.02907	245.8	.21659
#1	.20864	141.93	.20562	-.0127	.19019
#2	.20794	141.14	.20554	.0471	.18960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19154**	**.19880**	**9.7997**	**10.835**	**.23597**
Stddev	.00063	.00089	.0317	.043	.00062
%RSD	.33034	.44622	.32303	.39853	.26187
#1	.19199	.19817	9.8221	10.865	.23641
#2	.19110	.19943	9.7773	10.804	.23554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-6-D MSD Acquired: 12/27/2021 22:04:44 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.267**	**1.4734**	**.20633**	**44.906**	**.19460**
Stddev	.063	.0022	.00070	.188	.00014
%RSD	.13607	.14758	.33947	.41967	.07287
#1	46.222	1.4719	.20682	45.039	.19470
#2	46.311	1.4750	.20583	44.772	.19450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.75**	**.19743**	**45.100**	**.22180**	**.19691**
Stddev	.00	.00127	.094	.00254	.00238
%RSD	.0035	.64315	.20794	1.1437	1.2094
#1	24.75	.19833	45.167	.22359	.19860
#2	24.75	.19653	45.034	.22000	.19523
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.426**	**.19889**	**.59090**	**1.002**	**.19994**
Stddev	.058	.00095	.00316	.005	.00004
%RSD	.23761	.47885	.53434	.5343	.01927
#1	24.467	.19821	.59313	.9987	.19997
#2	24.385	.19956	.58867	1.006	.19991
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-6-D MSD Acquired: 12/27/2021 22:04:44 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19267**	**.19565**	**.20254**	**1.000**
Stddev	.00001	.00022	.00060	.001
%RSD	.00460	.10994	.29625	.0759
#1	.19268	.19550	.20297	1.001
#2	.19267	.19580	.20212	.9998
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3352.0**	**2674.0**	**25036.**	**2711.4**
Stddev	.1	2.4	72.	22.0
%RSD	.00402	.09076	.28675	.81225
#1	3351.9	2672.3	25087.	2695.8
#2	3352.0	2675.7	24986.	2726.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.617%	93.058%	94.222%	100.72%
Range				

Sample Name: 480-193573-J-9-B Acquired: 12/27/2021 22:08:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00460**	**.00059**	**.39576**	**.39543**
Stddev	.00062	.04082	.00064	.00172	.00112
%RSD	1159.9	887.01	109.17	.43342	.28411
#1	.00049	.02426	.00013	.39455	.39464
#2	-.00039	-.03346	.00104	.39697	.39622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**187.35**	**.00088**	**.0179**	**.00149**
Stddev	.00005	.81	.00017	.0050	.00002
%RSD	57.650	.43486	19.737	27.82	1.6634
#1	-.00012	186.77	.00075	.0214	.00147
#2	-.00005	187.92	.00100	.0144	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00505**	**.00384**	**8.2233**	**.04592**
Stddev	.00006	.00051	.00189	.0248	.00012
%RSD	44.647	10.176	49.184	.30110	.26240
#1	.00018	.00469	.00251	8.2408	.04601
#2	.00009	.00541	.00518	8.2057	.04584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-9-B Acquired: 12/27/2021 22:08:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**63.230**	**3.3628**	**.00450**	**58.660**	**.00065**
Stddev	.192	.0096	.00025	.409	.00029
%RSD	.30407	.28614	5.4604	.69725	44.531
#1	63.094	3.3560	.00467	58.371	.00045
#2	63.366	3.3696	.00433	58.949	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00671**	**32.535**	**.00066**	**.00106**
Stddev	.00	.00025	.026	.00040	.00006
%RSD	.0010	3.6705	.07928	60.761	6.1414
#1	25.04	.00654	32.516	.00094	.00110
#2	25.04	.00689	32.553	.00038	.00101
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.368**	**-.00016**	**1.2697**	**.9919**	**.00116**
Stddev	.096	.00000	.0066	.0048	.00063
%RSD	.37874	2.4778	.52060	.4824	54.171
#1	25.300	-.00016	1.2650	.9885	.00072
#2	25.436	-.00015	1.2744	.9953	.00161
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-9-B Acquired: 12/27/2021 22:08:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00301**	**-.00022**	**.00711**	**.9982**
Stddev	.00075	.00013	.00010	.0023
%RSD	24.826	58.721	1.3970	.2265
#1	.00354	-.00031	.00718	.9998
#2	.00248	-.00013	.00704	.9966
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3325.6**	**2652.3**	**24647.**	**2703.5**
Stddev	4.5	3.1	5.	17.1
%RSD	.13505	.11523	.02116	.63176
#1	3322.4	2650.1	24650.	2715.6
#2	3328.7	2654.4	24643.	2691.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.935%	92.303%	92.755%	100.43%
Range				

Sample Name: 480-193573-J-10-B Acquired: 12/27/2021 22:12:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.02433**	**.00277**	**.11093**	**.36330**
Stddev	.00047	.00975	.00080	.00040	.00017
%RSD	549.76	40.086	28.729	.35978	.04675
#1	.00042	-.01743	.00333	.11121	.36318
#2	-.00025	-.03122	.00221	.11064	.36342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**152.29**	**.00071**	**-.0477**	**.00105**
Stddev	.00002	.35	.00002	.0498	.00010
%RSD	35.045	.23287	2.7959	104.4	9.4103
#1	-.00005	152.54	.00072	-.0125	.00112
#2	-.00003	152.04	.00069	-.0830	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00251**	**.01797**	**7.4962**	**.03333**
Stddev	.00007	.00073	.00725	.0081	.00160
%RSD	153.88	29.279	40.336	.10770	4.8138
#1	-.00000	.00303	.01285	7.5019	.03220
#2	.00009	.00199	.02310	7.4905	.03447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-10-B Acquired: 12/27/2021 22:12:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.798**	**3.8379**	**.00271**	**37.936**	**.00019**
Stddev	.048	.0111	.00021	.048	.00016
%RSD	.12336	.28912	7.8900	.12624	88.541
#1	38.764	3.8301	.00256	37.970	.00007
#2	38.832	3.8458	.00286	37.902	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00547**	**21.171**	**-.00020**	**.00340**
Stddev	.00	.00146	.007	.00063	.00179
%RSD	.0025	26.676	.03238	315.13	52.812
#1	25.02	.00650	21.166	-.00065	.00466
#2	25.02	.00444	21.176	.00025	.00213
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.604**	**-.00043**	**.74587**	**.9993**	**.00073**
Stddev	.003	.00018	.00120	.0013	.00018
%RSD	.01449	43.285	.16037	.1342	24.867
#1	23.602	-.00030	.74672	.9984	.00086
#2	23.607	-.00056	.74503	1.000	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-10-B Acquired: 12/27/2021 22:12:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00222**	**-.00089**	**.00359**	**.9982**
Stddev	.00234	.00016	.00026	.0003
%RSD	105.50	17.996	7.3169	.0304
#1	.00387	-.00101	.00341	.9980
#2	.00056	-.00078	.00378	.9984
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3415.1**	**2709.3**	**25214.**	**2747.0**
Stddev	3.8	.5	76.	21.4
%RSD	.11042	.01790	.30218	.77779
#1	3417.8	2709.6	25268.	2731.9
#2	3412.5	2708.9	25160.	2762.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.249%	94.287%	94.890%	102.04%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 22:15:46 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98354**	**50.350**	**1.0188**	**1.0276**	**.98202**
Stddev	.00439	.335	.0012	.0041	.00167
%RSD	.44625	.66448	.12193	.40336	.17003
#1	.98664	50.114	1.0180	1.0247	.98084
#2	.98044	50.587	1.0197	1.0305	.98320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0000**	**49.641**	**1.0046**	**1.058**	**.96393**
Stddev	.0083	.258	.0019	.020	.00044
%RSD	.82510	.51959	.18902	1.913	.04565
#1	.99420	49.458	1.0033	1.044	.96425
#2	1.0059	49.823	1.0060	1.072	.96362
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98923**	**.98444**	**49.435**	**48.627**	**.99895**
Stddev	.00309	.00284	.464	.159	.00025
%RSD	.31198	.28818	.93922	.32672	.02545
#1	.98705	.98243	49.107	48.515	.99912
#2	.99141	.98645	49.764	48.739	.99877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 22:15:46 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.514**	**.99721**	**1.0112**	**49.913**	**.97889**
Stddev	.108	.00051	.0025	.104	.00039
%RSD	.22263	.05143	.24949	.20910	.03985
#1	48.590	.99758	1.0094	49.839	.97862
#2	48.437	.99685	1.0130	49.987	.97917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.73**	**.96300**	**25.282**	**1.0179**	**.99142**
Stddev	.01	.00023	.039	.0039	.00207
%RSD	.0252	.02394	.15277	.38296	.20894
#1	37.73	.96316	25.254	1.0151	.99289
#2	37.74	.96283	25.309	1.0206	.98996
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9586**	**.96804**	**1.0007**	**1.517**	**.99207**
Stddev	.0326	.00047	.0009	.001	.00013
%RSD	.32705	.04820	.08579	.0752	.01328
#1	9.9356	.96837	1.0001	1.516	.99216
#2	9.9817	.96771	1.0013	1.518	.99197
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 22:15:46 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.97160**	**.99075**	**1.0080**	**1.532**
Stddev	.00152	.00142	.0030	.003
%RSD	.15603	.14311	.29475	.2179
#1	.97267	.98974	1.0059	1.529
#2	.97053	.99175	1.0101	1.534
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3333.2**	**2717.9**	**24914.**	**2689.7**
Stddev	1.0	7.4	8.	21.0
%RSD	.03027	.27342	.03087	.77981
#1	3333.9	2723.2	24920.	2704.6
#2	3332.5	2712.7	24909.	2674.9

Sample Name: CCB-6825508 Acquired: 12/27/2021 22:19:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**-.00105**	**.00089**	**-.00979**	**.00005**
Stddev	.00030	.01818	.00055	.00033	.00003
%RSD	56.944	1729.8	61.667	3.3186	63.027
#1	.00073	.01180	.00050	-.00956	.00008
#2	.00031	-.01390	.00128	-.01002	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00126**	**-.00003**	**.0678**	**.00005**
Stddev	.00001	.00407	.00005	.0263	.00003
%RSD	48.697	323.43	161.57	38.83	70.168
#1	.00004	.00413	-.00007	.0865	.00002
#2	.00002	-.00162	.00000	.0492	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00170**	**.00277**	**-.12933**	**.00415**
Stddev	.00059	.00026	.00008	.00352	.00003
%RSD	254.94	15.150	2.8279	2.7241	.62120
#1	-.00018	.00152	.00271	-.13182	.00417
#2	.00065	.00188	.00282	-.12683	.00413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 22:19:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00002**	**.00111**	**-.01202**	**-.00021**
Stddev	.00312	.00003	.00030	.00178	.00019
%RSD	488.04	170.18	26.985	14.808	91.561
#1	.00284	-.00000	.00090	-.01327	-.00035
#2	-.00157	.00003	.00133	-.01076	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00021**	**.00312**	**.00262**	**.00487**
Stddev	.00	.00074	.00096	.00089	.00123
%RSD	.0097	351.91	30.882	34.117	25.239
#1	25.02	-.00031	.00380	.00325	.00400
#2	25.02	.00073	.00244	.00199	.00574
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01442**	**-.00024**	**.00009**	**.9948**	**-.00022**
Stddev	.00605	.00013	.00008	.0080	.00056
%RSD	41.955	53.893	86.413	.8046	253.70
#1	.01014	-.00033	.00004	.9891	-.00061
#2	.01870	-.00015	.00015	1.000	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 22:19:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00124**	**-.00021**	**-.00019**	**1.001**
Stddev	.00059	.00013	.00056	.000
%RSD	47.433	64.743	289.89	.0105
#1	.00082	-.00011	.00020	1.001
#2	.00165	-.00030	-.00059	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3820.7**	**2784.1**	**26163.**	**2684.0**
Stddev	1.0	1.3	28.	1.7
%RSD	.02680	.04757	.10777	.06161
#1	3820.0	2783.2	26183.	2682.9
#2	3821.4	2785.0	26143.	2685.2

Sample Name: CCVL-6825510 Acquired: 12/27/2021 22:23:08 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00622**	**.21833**	**.01327**	F **.00950**	**.00201**
Stddev	.00184	.00598	.00159	.00063	.00002
%RSD	29.641	2.7412	11.950	6.6405	.82333
#1	.00492	.21410	.01439	.00906	.00202
#2	.00753	.22256	.01215	.00995	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				-50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**.49187**	**.00199**	**.0621**	**.00381**
Stddev	.00002	.00700	.00002	.0518	.00012
%RSD	.85623	1.4225	1.2263	83.46	3.1193
#1	.00198	.49682	.00201	.0254	.00390
#2	.00201	.48692	.00198	.0987	.00373
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00392**	**.01167**	**.05042**	**.35195**	**.03190**
Stddev	.00014	.00008	.00089	.00524	.00060
%RSD	3.5206	.64943	1.7653	1.4895	1.8774
#1	.00382	.01173	.04979	.34824	.03233
#2	.00402	.01162	.05105	.35566	.03148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 22:23:08 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18663**	**.00302**	**.01024**	**.96247**	**.00947**
Stddev	.00039	.00003	.00005	.00374	.00032
%RSD	.20728	.94105	.45311	.38893	3.3926
#1	.18690	.00300	.01028	.96511	.00924
#2	.18635	.00304	.01021	.95982	.00970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01015**	**.18295**	**.02196**	**.02297**
Stddev	.00	.00122	.00216	.00009	.00180
%RSD	.0054	12.046	1.1798	.40829	7.8539
#1	25.00	.00929	.18142	.02203	.02425
#2	25.00	.01102	.18448	.02190	.02170
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49416**	**.00831**	**.00530**	F **.9907**	**.00459**
Stddev	.00618	.00005	.00001	.0070	.00012
%RSD	1.2496	.63784	.22279	.7106	2.6945
#1	.48979	.00834	.00531	.9857	.00450
#2	.49853	.00827	.00529	.9957	.00468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 22:23:08 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01925**	**.00481**	**.00930**	F **.9997**
Stddev	.00071	.00018	.00047	.0005
%RSD	3.6624	3.7143	5.0174	.0485
#1	.01975	.00494	.00963	.9994
#2	.01876	.00469	.00897	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3796.7**	**2771.4**	**26162.**	**2689.1**
Stddev	2.8	3.3	55.	2.3
%RSD	.07380	.11803	.20935	.08618
#1	3798.7	2773.8	26201.	2690.8
#2	3794.7	2769.1	26124.	2687.5

Sample Name: 480-193573-J-7-B Acquired: 12/27/2021 22:26:55 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**.01548**	**.00409**	**.20641**	**.18287**
Stddev	.00067	.00539	.00054	.00031	.00018
%RSD	78.706	34.858	13.262	.14970	.09806
#1	.00133	.01166	.00447	.20619	.18300
#2	.00038	.01929	.00370	.20663	.18275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**146.16**	**.00061**	**.0473**	**-.00005**
Stddev	.00013	.17	.00008	.0154	.00024
%RSD	487.87	.11467	13.542	32.61	437.43
#1	.00007	146.04	.00055	.0582	-.00022
#2	-.00012	146.27	.00067	.0364	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00305**	**.04995**	**10.255**	**.03098**
Stddev	.00001	.00020	.00149	.047	.00159
%RSD	7.5567	6.5513	2.9782	.45679	5.1459
#1	.00009	.00319	.05101	10.288	.02985
#2	.00010	.00291	.04890	10.222	.03211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-7-B Acquired: 12/27/2021 22:26:55 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.967**	**.96241**	**.00183**	**44.779**	**.00036**
Stddev	.052	.00053	.00003	.094	.00012
%RSD	.12731	.05480	1.8510	.21079	32.545
#1	41.004	.96204	.00180	44.712	.00028
#2	40.930	.96278	.00185	44.845	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.11**	**.00592**	**1.5348**	**.00095**	**.00088**
Stddev	.00	.00062	.0017	.00059	.00188
%RSD	.0027	10.456	.11138	61.993	215.11
#1	25.11	.00636	1.5360	.00053	-.00046
#2	25.11	.00548	1.5336	.00137	.00221
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.156**	**-.00068**	**.86272**	**.9928**	**.00140**
Stddev	.050	.00007	.00151	.0028	.00039
%RSD	.17898	10.853	.17515	.2801	27.630
#1	28.191	-.00073	.86166	.9948	.00112
#2	28.120	-.00063	.86379	.9909	.00167
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-7-B Acquired: 12/27/2021 22:26:55 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00271**	**-.00037**	**.00452**	**1.000**
Stddev	.00083	.00019	.00005	.001
%RSD	30.781	51.000	1.0009	.0565
#1	.00212	-.00024	.00455	.9997
#2	.00330	-.00050	.00449	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3412.0**	**2713.0**	**25418.**	**2774.7**
Stddev	.4	4.0	76.	.7
%RSD	.01068	.14683	.29834	.02606
#1	3411.7	2710.2	25472.	2775.2
#2	3412.2	2715.8	25365.	2774.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.168%	94.417%	95.660%	103.07%
Range				

Sample Name: 480-193573-J-8-B Acquired: 12/27/2021 22:30:38 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.03353**	**.00186**	**.55530**	**.29472**
Stddev	.00065	.00211	.00028	.00016	.00117
%RSD	197.88	6.2792	14.888	.02892	.39851
#1	.00013	.03502	.00167	.55541	.29389
#2	-.00078	.03204	.00206	.55518	.29555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**205.28**	**.00066**	**-.0209**	**.00035**
Stddev	.00010	.76	.00004	.0352	.00012
%RSD	7795.3	.36881	5.5342	168.6	33.916
#1	-.00007	204.75	.00069	.0040	.00026
#2	.00007	205.82	.00064	-.0457	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00336**	**.01304**	**8.9778**	**.05406**
Stddev	.00024	.00079	.00001	.0091	.00231
%RSD	42.042	23.641	.04293	.10144	4.2790
#1	.00073	.00280	.01305	8.9714	.05569
#2	.00040	.00392	.01304	8.9842	.05242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-8-B Acquired: 12/27/2021 22:30:38 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**77.207**	**2.7345**	**.00397**	**136.53**	**.00040**
Stddev	.301	.0104	.00005	.29	.00013
%RSD	.38939	.37840	1.2541	.21331	33.246
#1	76.995	2.7272	.00393	136.32	.00031
#2	77.420	2.7419	.00400	136.74	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**.00446**	F **91.668**	**-.00136**	**-.00044**
Stddev	.00	.00150	.009	.00237	.00077
%RSD	.0042	33.635	.01025	173.75	175.30
#1	25.06	.00340	91.675	-.00304	.00011
#2	25.06	.00552	91.661	.00031	-.00099
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.106**	**-.00025**	**1.3471**	**1.002**	**.00157**
Stddev	.090	.00025	.0003	.003	.00024
%RSD	.37298	102.43	.01968	.3378	15.182
#1	24.042	-.00043	1.3473	1.004	.00174
#2	24.170	-.00007	1.3469	.9995	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-8-B Acquired: 12/27/2021 22:30:38 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.00036**	**.00471**	**.9986**
Stddev	.00248	.00024	.00069	.0003
%RSD	599.37	67.947	14.720	.0330
#1	-.00134	-.00019	.00422	.9988
#2	.00217	-.00053	.00520	.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3233.5**	**2611.1**	**24416.**	**2702.2**
Stddev	3.3	5.0	78.	19.8
%RSD	.10269	.19137	.31838	.73150
#1	3235.9	2614.6	24471.	2716.2
#2	3231.2	2607.5	24361.	2688.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.557%	90.869%	91.887%	100.38%
Range				

Sample Name: 480-193573-J-11-B Acquired: 12/27/2021 22:34:19 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00404**	**.00001**	**.10440**	**.32406**
Stddev	.00042	.03908	.00109	.00020	.00063
%RSD	517.89	967.28	10995.	.19579	.19425
#1	-.00038	.03167	.00078	.10454	.32451
#2	.00022	-.02359	-.00076	.10425	.32362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**225.92**	**.00120**	**-.0491**	**.00107**
Stddev	.00000	.30	.00005	.0011	.00006
%RSD	130.89	.13118	4.3472	2.317	5.3980
#1	.00000	225.71	.00116	-.0499	.00103
#2	.00001	226.13	.00123	-.0483	.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00215**	**.00435**	**8.1397**	**.05424**
Stddev	.00040	.00054	.00168	.0135	.00156
%RSD	137.73	24.901	38.574	.16627	2.8815
#1	.00058	.00253	.00554	8.1301	.05535
#2	.00001	.00177	.00316	8.1492	.05314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-11-B Acquired: 12/27/2021 22:34:19 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**66.302**	**1.8465**	**.00531**	**98.050**	**.00474**
Stddev	.125	.0019	.00036	.359	.00027
%RSD	.18816	.10405	6.6863	.36630	5.6769
#1	66.390	1.8479	.00506	97.796	.00493
#2	66.213	1.8451	.00556	98.304	.00455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.11**	**.00499**	**70.158**	**-.00251**	**.00255**
Stddev	.00	.00025	.128	.00142	.00209
%RSD	.0075	4.9752	.18182	56.430	81.753
#1	25.11	.00482	70.068	-.00352	.00403
#2	25.11	.00517	70.249	-.00151	.00108
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.826**	**-.00043**	**.59012**	**.9914**	**.00120**
Stddev	.059	.00038	.00067	.0127	.00067
%RSD	.29692	88.453	.11400	1.280	55.358
#1	19.785	-.00071	.58964	1.000	.00167
#2	19.868	-.00016	.59059	.9824	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-11-B Acquired: 12/27/2021 22:34:19 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00176**	**.00550**	**.00563**	**.9995**
Stddev	.00201	.00022	.00025	.0001
%RSD	114.09	4.0003	4.4777	.0097
#1	.00034	.00535	.00546	.9995
#2	.00318	.00566	.00581	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3243.5**	**2597.2**	**24260.**	**2638.5**
Stddev	1.4	3.9	6.	1.3
%RSD	.04445	.15112	.02472	.05029
#1	3242.5	2599.9	24256.	2639.4
#2	3244.6	2594.4	24265.	2637.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.816%	90.385%	91.302%	98.011%
Range				

Sample Name: 480-193573-J-12-B Acquired: 12/27/2021 22:38:03 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00554**	**.00189**	**.14729**	**.22712**
Stddev	.00034	.00799	.00113	.00002	.00028
%RSD	46.973	144.08	59.750	.01528	.12125
#1	.00048	-.00010	.00269	.14731	.22732
#2	.00096	.01119	.00109	.14728	.22693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**146.71**	**.00059**	**.0137**	**.00329**
Stddev	.00013	.45	.00014	.0154	.00008
%RSD	1342.1	.30487	24.205	112.2	2.4722
#1	.00008	147.03	.00049	.0028	.00323
#2	-.00010	146.40	.00070	.0246	.00335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00242**	**.00238**	**6.7944**	**.03657**
Stddev	.00020	.00013	.00352	.0317	.00182
%RSD	409.86	5.3438	147.92	.46691	4.9784
#1	-.00019	.00233	-.00011	6.7720	.03528
#2	.00009	.00252	.00487	6.8168	.03786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-12-B Acquired: 12/27/2021 22:38:03 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.346**	**5.1807**	**.00798**	**57.024**	**.00422**
Stddev	.044	.0130	.00005	.246	.00013
%RSD	.11217	.25144	.65755	.43165	3.0751
#1	39.378	5.1899	.00802	56.850	.00412
#2	39.315	5.1715	.00794	57.198	.00431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.40**	**.00453**	**42.785**	**.00008**	**.00336**
Stddev	.00	.00031	.007	.00157	.00216
%RSD	.0012	6.7553	.01532	1910.1	64.294
#1	25.40	.00475	42.789	-.00103	.00184
#2	25.40	.00431	42.780	.00119	.00489
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.413**	**-.00048**	**.60935**	**.9900**	**.00110**
Stddev	.002	.00002	.00114	.0037	.00069
%RSD	.01121	4.3823	.18630	.3746	63.101
#1	17.415	-.00046	.61015	.9874	.00159
#2	17.412	-.00049	.60855	.9926	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-12-B Acquired: 12/27/2021 22:38:03 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00166**	**-.00054**	**.00273**	**.9968**
Stddev	.00036	.00009	.00073	.0018
%RSD	21.855	17.443	26.587	.1854
#1	.00141	-.00047	.00222	.9981
#2	.00192	-.00061	.00325	.9955
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3369.1**	**2657.5**	**24808.**	**2689.1**
Stddev	13.2	15.0	60.	17.1
%RSD	.39229	.56339	.24110	.63722
#1	3359.8	2646.9	24850.	2677.0
#2	3378.5	2668.0	24765.	2701.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.061%	92.483%	93.361%	99.893%
Range				

Sample Name: 480-193573-J-13-B Acquired: 12/27/2021 22:41:50 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.03625**	**-.00071**	**.07134**	**.21950**
Stddev	.00067	.01712	.00027	.00033	.00033
%RSD	36638.	47.245	37.791	.46878	.15110
#1	-.00047	.02414	-.00090	.07158	.21927
#2	.00047	.04835	-.00052	.07111	.21973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**78.163**	**.00053**	**.0588**	**-.00002**
Stddev	.00010	.395	.00002	.0079	.00002
%RSD	576.86	.50592	3.7031	13.38	95.692
#1	.00005	78.443	.00052	.0532	-.00001
#2	-.00009	77.884	.00055	.0644	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00274**	**.01415**	**.67003**	**.02678**
Stddev	.00008	.00023	.00159	.08386	.00016
%RSD	299.48	8.4845	11.247	12.516	.61253
#1	-.00008	.00291	.01302	.61073	.02666
#2	.00003	.00258	.01527	.72933	.02689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-13-B Acquired: 12/27/2021 22:41:50 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.853**	**.29203**	**.00028**	**33.465**	**.01021**
Stddev	.054	.00067	.00017	.253	.00005
%RSD	.25777	.22851	62.051	.75726	.46863
#1	20.815	.29156	.00040	33.644	.01025
#2	20.891	.29250	.00016	33.286	.01018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00369**	**17.346**	**.00005**	**.00247**
Stddev	.00	.00043	.003	.00122	.00277
%RSD	.0053	11.607	.01951	2417.5	111.97
#1	25.07	.00399	17.343	-.00081	.00052
#2	25.07	.00338	17.348	.00091	.00443
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.009**	**-.00053**	**.24892**	**.9923**	**.00096**
Stddev	.018	.00010	.00156	.0007	.00007
%RSD	.11782	18.849	.62763	.0719	7.1992
#1	14.997	-.00060	.25003	.9918	.00101
#2	15.022	-.00046	.24782	.9928	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-13-B Acquired: 12/27/2021 22:41:50 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00134**	**.00057**	**.00297**	**1.001**
Stddev	.00071	.00021	.00022	.001
%RSD	53.377	36.231	7.5148	.1289
#1	.00185	.00042	.00281	1.000
#2	.00083	.00072	.00313	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3543.2**	**2750.5**	**25660.**	**2790.4**
Stddev	7.9	6.1	96.	13.4
%RSD	.22348	.22137	.37320	.47976
#1	3537.6	2746.1	25727.	2781.0
#2	3548.8	2754.8	25592.	2799.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.558%	95.719%	96.567%	103.66%
Range				

Sample Name: 480-193573-J-14-B Acquired: 12/27/2021 22:45:33 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.07819**	**.00047**	**.19042**	**.14362**
Stddev	.00084	.00293	.00205	.00045	.00020
%RSD	1570.2	3.7494	440.12	.23677	.13909
#1	.00054	.08027	.00191	.19074	.14376
#2	-.00064	.07612	-.00098	.19010	.14348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**418.58**	**.00062**	**-.0615**	**.00247**
Stddev	.00001	4.58	.00014	.1389	.00016
%RSD	10.296	1.0936	22.079	225.7	6.6701
#1	-.00013	415.35	.00052	-.1597	.00259
#2	-.00015	421.82	.00071	.0367	.00235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00307**	**.49391**	**11.012**	**.06971**
Stddev	.00045	.00015	.00435	.046	.00068
%RSD	2937.0	4.9876	.88128	.41926	.97225
#1	-.00030	.00318	.49083	10.979	.07018
#2	.00033	.00297	.49699	11.044	.06923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-14-B Acquired: 12/27/2021 22:45:33 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**103.36**	**7.5362**	**.00240**	**126.59**	**.00174**
Stddev	.07	.0230	.00025	.04	.00020
%RSD	.06769	.30501	10.399	.03207	11.546
#1	103.41	7.5524	.00222	126.62	.00160
#2	103.31	7.5199	.00258	126.56	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00644**	F **263.75**	**-.00002**	**.00268**
Stddev	.00	.00023	.65	.00156	.00077
%RSD	.0060	3.5270	.24639	6521.3	28.574
#1	25.04	.00660	264.21	.00108	.00322
#2	25.04	.00628	263.29	-.00112	.00214
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.731**	**-.00107**	**1.6701**	**.9981**	**.00293**
Stddev	.032	.00008	.0071	.0042	.00041
%RSD	.15488	7.8780	.42625	.4245	14.022
#1	20.708	-.00113	1.6651	.9952	.00322
#2	20.754	-.00101	1.6751	1.001	.00264
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-14-B Acquired: 12/27/2021 22:45:33 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00049**	**-.00146**	**.00478**	**.9955**
Stddev	.00062	.00004	.00009	.0008
%RSD	127.08	2.5675	1.8520	.0785
#1	.00005	-.00144	.00472	.9950
#2	.00092	-.00149	.00485	.9961
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3125.1**	**2561.0**	**23988.**	**2677.9**
Stddev	2.8	1.2	32.	8.3
%RSD	.08876	.04493	.13513	.30920
#1	3127.0	2560.2	23965.	2683.8
#2	3123.1	2561.8	24011.	2672.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.754%	89.127%	90.278%	99.476%
Range				

Sample Name: 480-193573-J-15-B Acquired: 12/27/2021 22:49:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.02368**	**.00750**	**.29426**	**.34909**
Stddev	.00058	.03287	.00126	.00027	.00024
%RSD	5258.9	138.83	16.749	.09294	.06959
#1	-.00042	-.00043	.00839	.29445	.34891
#2	.00040	-.04692	.00661	.29407	.34926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**139.49**	**.00387**	**.0550**	**.00407**
Stddev	.00014	.54	.00006	.0247	.00021
%RSD	251.55	.38937	1.4656	45.00	5.1987
#1	.00015	139.87	.00383	.0375	.00392
#2	-.00004	139.10	.00391	.0725	.00422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00411**	**.00254**	**3.7733**	**.02799**
Stddev	.00039	.00064	.00016	.0282	.00089
%RSD	135.79	15.599	6.4684	.74710	3.1684
#1	.00001	.00366	.00242	3.7533	.02861
#2	.00057	.00457	.00265	3.7932	.02736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-15-B Acquired: 12/27/2021 22:49:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.936**	**4.8426**	**.00739**	**78.181**	**.01550**
Stddev	.069	.0324	.00002	.234	.00013
%RSD	.15349	.66841	.29084	.29910	.85422
#1	44.985	4.8654	.00737	78.346	.01540
#2	44.887	4.8197	.00740	78.015	.01559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.22**	**.00524**	**24.450**	**.00015**	**.00065**
Stddev	.00	.00038	.020	.00049	.00152
%RSD	.0045	7.2263	.08054	317.58	234.53
#1	25.22	.00497	24.464	-.00019	-.00043
#2	25.22	.00551	24.436	.00050	.00173
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.553**	**-.00033**	**.49577**	**.9965**	**.00079**
Stddev	.123	.00009	.00240	.0048	.00018
%RSD	.74141	27.530	.48487	.4855	22.907
#1	16.640	-.00039	.49747	.9999	.00092
#2	16.466	-.00027	.49407	.9931	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-J-15-B Acquired: 12/27/2021 22:49:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00183**	**.00215**	**.00377**	**.9991**
Stddev	.00069	.00018	.00012	.0008
%RSD	37.770	8.5529	3.1986	.0755
#1	.00134	.00202	.00369	.9986
#2	.00231	.00228	.00386	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3355.6**	**2673.1**	**25046.**	**2701.9**
Stddev	4.4	2.3	79.	16.3
%RSD	.12991	.08546	.31680	.60325
#1	3358.7	2674.7	24990.	2690.3
#2	3352.5	2671.5	25102.	2713.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.711%	93.027%	94.258%	100.37%
Range				

Sample Name: 480-193573-A-16-B Acquired: 12/27/2021 22:53:14 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.02911**	**.03236**	**1.1024**	**.57492**
Stddev	.00026	.00510	.00000	.0022	.00184
%RSD	103.63	17.520	.01464	.19942	.31936
#1	-.00007	.03272	.03236	1.1039	.57622
#2	-.00043	.02550	.03236	1.1008	.57362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**197.68**	**.00078**	**-.0066**	**.00530**
Stddev	.00015	.70	.00006	.0085	.00014
%RSD	1054.6	.35329	7.6112	129.1	2.7062
#1	-.00012	198.17	.00083	-.0125	.00520
#2	.00009	197.18	.00074	-.0006	.00540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00227**	**.03898**	**6.4517**	**.03063**
Stddev	.00015	.00040	.00004	.0317	.00048
%RSD	25.323	17.661	.09100	.49163	1.5754
#1	.00048	.00198	.03896	6.4293	.03029
#2	.00069	.00255	.03901	6.4742	.03097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-A-16-B Acquired: 12/27/2021 22:53:14 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**109.75**	**3.1527**	**.03325**	**297.74**	**.02087**
Stddev	.27	.0053	.00001	1.95	.00035
%RSD	.25044	.16645	.03131	.65593	1.7008
#1	109.55	3.1490	.03326	299.12	.02062
#2	109.94	3.1564	.03324	296.35	.02112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00460**	**1.0144**	**-.00033**	**.00414**
Stddev	.00	.00163	.0061	.00098	.00090
%RSD	.0011	35.387	.60392	295.55	21.646
#1	25.03	.00345	1.0187	-.00103	.00477
#2	25.03	.00575	1.0101	.00036	.00350
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.252**	**-.00068**	**1.1955**	**.9970**	**.00144**
Stddev	.048	.00041	.0038	.0032	.00007
%RSD	.24815	61.393	.32046	.3177	5.0799
#1	19.286	-.00097	1.1982	.9992	.00138
#2	19.218	-.00038	1.1927	.9947	.00149
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-A-16-B Acquired: 12/27/2021 22:53:14 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00058**	**-.00093**	**.00434**	**.9978**
Stddev	.00039	.00014	.00020	.0004
%RSD	66.649	14.753	4.5557	.0383
#1	.00085	-.00083	.00420	.9976
#2	.00031	-.00102	.00448	.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3120.0**	**2572.8**	**23994.**	**2697.4**
Stddev	2.4	3.0	47.	11.1
%RSD	.07705	.11492	.19576	.40994
#1	3118.3	2570.7	23960.	2689.6
#2	3121.7	2574.9	24027.	2705.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.623%	89.537%	90.297%	100.20%
Range				

Sample Name: 480-193573-A-17-B Acquired: 12/27/2021 22:57:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**-.00087**	**-.00051**	**.07662**	**.05759**
Stddev	.00125	.03168	.00185	.00029	.00027
%RSD	261.01	3639.8	361.98	.37968	.46364
#1	-.00136	-.02327	.00080	.07682	.05778
#2	.00040	.02153	-.00182	.07641	.05740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**261.94**	**.00131**	**-.0275**	**.00143**
Stddev	.00011	.31	.00001	.0368	.00007
%RSD	68.401	.11758	.79323	133.6	4.7011
#1	-.00008	261.72	.00130	-.0535	.00138
#2	-.00024	262.16	.00132	-.0015	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00444**	**-.00451**	**3.2106**	**.04388**
Stddev	.00013	.00043	.00326	.0304	.00068
%RSD	48.039	9.6480	72.344	.94608	1.5403
#1	.00018	.00474	-.00220	3.1891	.04436
#2	.00037	.00413	-.00682	3.2321	.04340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-A-17-B Acquired: 12/27/2021 22:57:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**100.55**	**5.2308**	**.00658**	**109.85**	**.00681**
Stddev	.26	.0204	.00019	.18	.00024
%RSD	.26339	.38950	2.8952	.16049	3.5291
#1	100.74	5.2452	.00671	109.98	.00698
#2	100.36	5.2164	.00644	109.73	.00664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.24**	**.00460**	F **239.61**	**-.00036**	**-.00139**
Stddev	.00	.00344	.16	.00217	.00042
%RSD	.0014	74.653	.06770	606.04	30.030
#1	25.24	.00217	239.49	-.00189	-.00168
#2	25.24	.00704	239.72	.00118	-.00109
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.280**	**-.00049**	**.70149**	**.9883**	**.00212**
Stddev	.034	.00023	.00092	.0007	.00009
%RSD	.25910	46.946	.13138	.0688	4.2053
#1	13.256	-.00032	.70084	.9888	.00218
#2	13.304	-.00065	.70215	.9878	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-A-17-B Acquired: 12/27/2021 22:57:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00272**	**.00177**	**.00503**	**.9971**
Stddev	.00094	.00048	.00011	.0008
%RSD	34.526	26.942	2.2755	.0841
#1	.00205	.00143	.00495	.9977
#2	.00338	.00211	.00511	.9965
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3222.9**	**2602.9**	**24391.**	**2692.4**
Stddev	.6	3.7	89.	4.1
%RSD	.01728	.14380	.36373	.15331
#1	3222.5	2600.2	24329.	2689.5
#2	3223.3	2605.5	24454.	2695.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.282%	90.584%	91.795%	100.01%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 23:00:59 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99686**	**49.675**	**1.0165**	**1.0265**	**.97896**
Stddev	.00305	.330	.0002	.0004	.00279
%RSD	.30567	.66396	.01527	.03999	.28531
#1	.99901	49.909	1.0166	1.0263	.98094
#2	.99470	49.442	1.0164	1.0268	.97699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98194**	**49.098**	**1.0042**	**1.107**	**.97535**
Stddev	.00606	.239	.0008	.020	.00033
%RSD	.61681	.48686	.08128	1.814	.03396
#1	.98622	49.268	1.0047	1.092	.97511
#2	.97766	48.929	1.0036	1.121	.97558
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98527**	**.99574**	**49.437**	**48.292**	**.99437**
Stddev	.00014	.00302	.032	.200	.00833
%RSD	.01457	.30294	.06539	.41430	.83736
#1	.98538	.99787	49.460	48.434	1.0003
#2	.98517	.99361	49.414	48.151	.98848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 23:00:59 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.992**	**1.0057**	**1.0084**	**49.795**	**.98827**
Stddev	.131	.0035	.0006	.420	.00230
%RSD	.26839	.34862	.05788	.84388	.23323
#1	49.085	1.0082	1.0080	50.092	.98990
#2	48.899	1.0032	1.0088	49.498	.98664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.73**	**.97508**	**25.363**	**1.0148**	**.99724**
Stddev	.01	.00076	.009	.0045	.00834
%RSD	.0193	.07799	.03535	.43946	.83620
#1	37.74	.97454	25.357	1.0180	1.0031
#2	37.73	.97562	25.370	1.0116	.99134
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8536**	**.97337**	**1.0033**	**1.505**	**.99418**
Stddev	.0295	.00149	.0067	.006	.00012
%RSD	.29956	.15268	.67015	.4288	.01164
#1	9.8327	.97232	1.0081	1.510	.99426
#2	9.8744	.97442	.99857	1.500	.99410
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 23:00:59 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.97745**	**.98651**	**1.0026**	**1.533**
Stddev	.00241	.00043	.0005	.001
%RSD	.24677	.04317	.05417	.0381
#1	.97575	.98681	1.0022	1.534
#2	.97916	.98621	1.0030	1.533
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3356.6**	**2761.4**	**25241.**	**2759.4**
Stddev	1.7	1.6	23.	12.9
%RSD	.05154	.05818	.09122	.46680
#1	3357.8	2760.2	25257.	2750.2
#2	3355.4	2762.5	25225.	2768.5

Sample Name: CCB-6825508 Acquired: 12/27/2021 23:04:31 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.01080**	**-.00116**	**-.00994**	**.00007**
Stddev	.00075	.02813	.00042	.00028	.00000
%RSD	92.920	260.53	36.121	2.8215	1.2030
#1	.00028	.03069	-.00146	-.01014	.00007
#2	.00134	-.00909	-.00086	-.00975	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00659**	**.00010**	**.0262**	**-.00001**
Stddev	.00004	.00105	.00024	.0357	.00002
%RSD	47.857	15.923	235.28	136.1	149.95
#1	.00006	.00734	-.00007	.0010	.00000
#2	.00011	.00585	.00028	.0514	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00154**	**-.00055**	**-.15284**	**.00211**
Stddev	.00032	.00038	.00176	.02047	.00036
%RSD	461.29	24.808	322.40	13.395	16.996
#1	-.00016	.00127	.00070	-.13837	.00186
#2	.00030	.00180	-.00179	-.16732	.00236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 23:04:31 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00011**	**.00136**	**.02132**	**-.00024**
Stddev	.00488	.00007	.00043	.00895	.00007
%RSD	5075.6	64.527	31.508	41.998	27.887
#1	.00336	.00016	.00106	.02765	-.00019
#2	-.00355	.00006	.00166	.01499	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00030**	**.01440**	**-.00050**	**.00208**
Stddev	.00	.00087	.00312	.00077	.00217
%RSD	.0041	292.51	21.632	152.27	104.15
#1	25.02	.00091	.01660	.00004	.00055
#2	25.02	-.00032	.01220	-.00104	.00361
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01288**	**-.00057**	**.00008**	**.9992**	**-.00006**
Stddev	.00433	.00032	.00003	.0021	.00025
%RSD	33.609	56.565	35.250	.2058	387.18
#1	.00982	-.00034	.00010	.9977	.00011
#2	.01594	-.00080	.00006	1.001	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 23:04:31 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00001**	**-.00061**	**1.000**
Stddev	.00067	.00020	.00001	.001
%RSD	160.33	2688.6	1.2794	.1093
#1	.00089	.00015	-.00061	1.001
#2	-.00006	-.00013	-.00060	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3818.9**	**2803.5**	**26141.**	**2702.2**
Stddev	3.7	1.2	10.	17.3
%RSD	.09648	.04161	.03862	.64062
#1	3816.3	2804.3	26148.	2714.5
#2	3821.5	2802.6	26134.	2690.0

Sample Name: CCVL-6825510 Acquired: 12/27/2021 23:08:20 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00606**	**.23351**	**.01167**	F **.00900**	**.00202**
Stddev	.00015	.00322	.00069	.00007	.00002
%RSD	2.4293	1.3774	5.9295	.80367	.74467
#1	.00616	.23124	.01118	.00895	.00203
#2	.00595	.23579	.01216	.00906	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				-50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.49673**	**.00202**	**.0167**	**.00359**
Stddev	.00008	.00499	.00004	.0050	.00015
%RSD	3.6322	1.0038	2.1943	30.16	4.2491
#1	.00204	.49320	.00205	.0131	.00348
#2	.00215	.50025	.00199	.0203	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00399**	**.01133**	**.04584**	**.35714**	**.03125**
Stddev	.00003	.00194	.00147	.05251	.00020
%RSD	.83427	17.090	3.2123	14.703	.64596
#1	.00397	.00996	.04480	.32001	.03111
#2	.00402	.01270	.04688	.39427	.03139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 23:08:20 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18436**	**.00296**	**.01020**	**.96797**	**.00926**
Stddev	.00476	.00002	.00006	.00494	.00005
%RSD	2.5845	.68614	.60324	.51021	.55351
#1	.18772	.00294	.01015	.97146	.00930
#2	.18099	.00297	.01024	.96448	.00923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00938**	**.19600**	**.01979**	**.02365**
Stddev	.00	.00116	.00032	.00054	.00084
%RSD	.0060	12.394	.16453	2.7425	3.5305
#1	25.00	.00855	.19623	.01941	.02425
#2	25.00	.01020	.19577	.02018	.02306
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49009**	**.00845**	**.00497**	F **.9830**	**.00447**
Stddev	.00480	.00039	.00017	.0090	.00061
%RSD	.98019	4.5935	3.4095	.9137	13.642
#1	.49349	.00872	.00509	.9766	.00403
#2	.48669	.00817	.00485	.9893	.00490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 23:08:20 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02040**	**.00459**	**.00961**	F **1.001**
Stddev	.00029	.00077	.00045	.000
%RSD	1.3971	16.823	4.6602	.0096
#1	.02060	.00404	.00992	1.001
#2	.02020	.00514	.00929	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3803.5**	**2790.5**	**26210.**	**2673.3**
Stddev	3.9	.2	45.	16.1
%RSD	.10260	.00719	.16987	.60254
#1	3800.8	2790.6	26241.	2684.7
#2	3806.3	2790.4	26178.	2661.9

Sample Name: 480-193573-A-18-B Acquired: 12/27/2021 23:12:06 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00706**	**-.00284**	**.27795**	**.02216**
Stddev	.00128	.00851	.00085	.00115	.00008
%RSD	428.20	120.47	29.764	.41449	.37202
#1	-.00121	.01308	-.00344	.27713	.02222
#2	.00061	.00105	-.00224	.27876	.02210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**329.72**	**.00091**	**-.0603**	**.00049**
Stddev	.00012	1.97	.00023	.0498	.00015
%RSD	98.650	.59823	25.551	82.63	30.939
#1	-.00021	331.12	.00107	-.0955	.00038
#2	-.00004	328.33	.00074	-.0251	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00396**	**.01579**	**7.0341**	**.10288**
Stddev	.00012	.00009	.00498	.0181	.00338
%RSD	64.825	2.3537	31.567	.25715	3.2839
#1	-.00010	.00390	.01227	7.0213	.10049
#2	-.00027	.00403	.01931	7.0469	.10527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-A-18-B Acquired: 12/27/2021 23:12:06 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**107.22**	**7.2264**	**.00063**	**109.42**	**.00015**
Stddev	.27	.0282	.00026	.02	.00042
%RSD	.25266	.39035	41.894	.02185	287.49
#1	107.41	7.2464	.00044	109.40	.00044
#2	107.02	7.2065	.00082	109.43	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00543**	F **224.30**	**-.00022**	**-.00150**
Stddev	.00	.00136	.18	.00145	.00486
%RSD	.0007	24.972	.08192	648.13	324.28
#1	25.02	.00639	224.17	.00080	.00194
#2	25.02	.00447	224.43	-.00125	-.00493
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.142**	**-.00104**	**1.3629**	**.9972**	**.00163**
Stddev	.060	.00061	.0041	.0111	.00007
%RSD	.27133	58.166	.29887	1.113	4.4072
#1	22.184	-.00061	1.3658	.9893	.00158
#2	22.099	-.00147	1.3600	1.005	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-A-18-B Acquired: 12/27/2021 23:12:06 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00107**	**-.00136**	**.00182**	**.9948**
Stddev	.00019	.00074	.00046	.0027
%RSD	18.080	54.300	25.565	.2679
#1	.00093	-.00189	.00215	.9967
#2	.00121	-.00084	.00149	.9929
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3179.6**	**2569.7**	**23951.**	**2657.6**
Stddev	9.6	10.0	7.	13.7
%RSD	.30335	.38777	.02832	.51571
#1	3172.8	2562.6	23947.	2647.9
#2	3186.4	2576.7	23956.	2667.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.163%	89.427%	90.139%	98.723%
Range				

Sample Name: 480-193573-P-20-B Acquired: 12/27/2021 23:16:00 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.00081**	**.00147**	**.14535**	**.22629**
Stddev	.00055	.03439	.00132	.00032	.00020
%RSD	192.64	4243.9	89.869	.22286	.08698
#1	-.00010	-.02513	.00053	.14512	.22616
#2	.00067	.02351	.00240	.14558	.22643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**144.27**	**.00040**	**.0100**	**.00317**
Stddev	.00004	.06	.00011	.0317	.00010
%RSD	78.406	.04238	26.480	315.9	3.0918
#1	-.00008	144.31	.00033	.0324	.00310
#2	-.00002	144.22	.00048	-.0124	.00324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00264**	**.00123**	**6.6222**	**.03662**
Stddev	.00035	.00129	.00393	.0485	.00223
%RSD	339.14	48.910	319.01	.73218	6.1000
#1	-.00035	.00355	.00401	6.5880	.03820
#2	.00014	.00173	-.00155	6.6565	.03504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-P-20-B Acquired: 12/27/2021 23:16:00 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.105**	**5.2039**	**.00814**	**55.299**	**.00371**
Stddev	.084	.0291	.00014	.107	.00026
%RSD	.21362	.55941	1.6676	.19383	6.9008
#1	39.046	5.1833	.00824	55.374	.00353
#2	39.164	5.2245	.00804	55.223	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.40**	**.00523**	**42.308**	**-.00091**	**.00362**
Stddev	.00	.00162	.066	.00094	.00207
%RSD	.0001	30.934	.15553	103.27	57.317
#1	25.40	.00637	42.355	-.00025	.00508
#2	25.40	.00408	42.262	-.00158	.00215
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.238**	**-.00085**	**.60099**	**1.000**	**.00072**
Stddev	.038	.00052	.00103	.006	.00021
%RSD	.22184	60.659	.17120	.6393	28.493
#1	17.265	-.00049	.60172	1.005	.00087
#2	17.211	-.00122	.60026	.9957	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-P-20-B Acquired: 12/27/2021 23:16:00 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00096**	**-.00060**	**.00351**	**.9964**
Stddev	.00166	.00039	.00032	.0007
%RSD	173.74	65.128	9.0845	.0673
#1	.00213	-.00032	.00329	.9959
#2	-.00022	-.00088	.00374	.9969
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3408.3**	**2706.5**	**25304.**	**2783.3**
Stddev	2.3	1.7	8.	10.9
%RSD	.06887	.06205	.03249	.39131
#1	3406.7	2705.3	25310.	2791.0
#2	3410.0	2707.7	25298.	2775.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.073%	94.190%	95.230%	103.39%
Range				

Sample Name: 480-193573-A-22-B Acquired: 12/27/2021 23:19:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.02368**	**-.00072**	**.04396**	**.09994**
Stddev	.00060	.00254	.00069	.00001	.00005
%RSD	6847.8	10.714	95.987	.02940	.05254
#1	.00044	.02547	-.00121	.04397	.09998
#2	-.00042	.02188	-.00023	.04395	.09990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**60.503**	**.00023**	**.0594**	**.00011**
Stddev	.00007	.073	.00010	.0176	.00001
%RSD	288.77	.12138	41.650	29.57	4.5204
#1	-.00002	60.451	.00016	.0470	.00012
#2	.00007	60.555	.00030	.0718	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00257**	**.02282**	**.78128**	**.01796**
Stddev	.00004	.00004	.00028	.05065	.00042
%RSD	11.857	1.3745	1.2067	6.4827	2.3117
#1	.00036	.00260	.02263	.74547	.01826
#2	.00030	.00255	.02302	.81710	.01767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-A-22-B Acquired: 12/27/2021 23:19:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.485**	**.01835**	**.00370**	**39.007**	**.00198**
Stddev	.043	.00001	.00025	.100	.00032
%RSD	.23257	.06094	6.7927	.25706	16.208
#1	18.516	.01834	.00352	38.936	.00175
#2	18.455	.01836	.00388	39.078	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.08**	**.00273**	**13.308**	**.00131**	**.00189**
Stddev	.00	.00080	.032	.00098	.00251
%RSD	.0037	29.091	.24362	75.300	132.42
#1	25.08	.00330	13.331	.00061	.00012
#2	25.08	.00217	13.286	.00200	.00367
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.018**	**.00412**	**.21606**	**.9950**	**.00079**
Stddev	.016	.00053	.00113	.0034	.00002
%RSD	.16340	12.831	.52267	.3459	2.6212
#1	10.029	.00450	.21526	.9926	.00077
#2	10.006	.00375	.21686	.9975	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193573-A-22-B Acquired: 12/27/2021 23:19:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00259**	**.00550**	**.00419**	**1.001**
Stddev	.00073	.00037	.00009	.000
%RSD	28.185	6.7452	2.2587	.0234
#1	.00310	.00576	.00413	1.002
#2	.00207	.00524	.00426	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3516.8**	**2738.6**	**25496.**	**2748.3**
Stddev	.6	1.6	5.	14.5
%RSD	.01605	.05835	.01920	.52687
#1	3517.2	2739.7	25492.	2738.1
#2	3516.4	2737.4	25499.	2758.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.877%	95.305%	95.951%	102.09%
Range				

Sample Name: MB 480-610028/1-A Acquired: 12/27/2021 23:23:32 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00132**	**.01137**	**-.00189**	F **-.01054**	**-.00001**
Stddev	.00004	.04430	.00176	.00003	.00002
%RSD	3.0237	389.68	93.261	.26796	157.64
#1	.00130	.04269	-.00313	-.01056	.00000
#2	.00135	-.01996	-.00064	-.01052	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.00800	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00740**	**-.00002**	**.0998**	**.00006**
Stddev	.00000	.00243	.00023	.0248	.00012
%RSD	20.885	32.902	1278.8	24.82	201.28
#1	.00001	.00912	.00015	.0823	-.00003
#2	.00001	.00567	-.00018	.1173	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00129**	**.00380**	**-.16772**	**.00309**
Stddev	.00027	.00088	.00021	.02002	.00080
%RSD	118.60	68.026	5.4467	11.939	25.915
#1	.00004	.00067	.00366	-.15356	.00365
#2	.00042	.00191	.00395	-.18188	.00252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-610028/1-A Acquired: 12/27/2021 23:23:32 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.00014**	**-.00012**	**.00672**	**.00003**
Stddev	.00264	.00007	.00001	.00671	.00011
%RSD	325.29	46.055	9.3350	99.898	418.69
#1	.00106	.00010	-.00011	.01147	.00010
#2	-.00268	.00019	-.00012	.00197	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00076**	**.01173**	**.00237**	**.00121**
Stddev	.00	.00007	.00091	.00112	.00084
%RSD	.0012	9.6840	7.7249	47.126	69.270
#1	25.02	.00081	.01237	.00316	.00180
#2	25.02	.00070	.01109	.00158	.00062
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01420**	**-.00074**	**.00015**	**.9957**	**-.00084**
Stddev	.00685	.00035	.00003	.0048	.00034
%RSD	48.257	47.274	19.630	.4824	40.786
#1	.01905	-.00049	.00013	.9923	-.00060
#2	.00935	-.00099	.00017	.9991	-.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-610028/1-A Acquired: 12/27/2021 23:23:32 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00132**	**-.00007**	**-.00021**	**1.000**
Stddev	.00010	.00023	.00031	.000
%RSD	7.6141	336.57	146.02	.0364
#1	.00139	.00010	.00001	1.000
#2	.00125	-.00023	-.00043	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3846.6**	**2817.0**	**26476.**	**2730.7**
Stddev	25.7	16.1	46.	.6
%RSD	.66921	.57106	.17272	.02342
#1	3828.4	2805.6	26508.	2731.2
#2	3864.8	2828.3	26444.	2730.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.399%	98.034%	99.639%	101.44%
Range				

Sample Name: LCS 480-610028/2-A Acquired: 12/27/2021 23:27:19 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04863**	**9.9748**	**.20722**	**.19262**	**.20288**
Stddev	.00074	.0001	.00315	.00065	.00021
%RSD	1.5206	.00074	1.5211	.33637	.10532
#1	.04916	9.9747	.20499	.19308	.20273
#2	.04811	9.9748	.20945	.19216	.20303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20941**	**9.8106**	**.20278**	**.0167**	**.18822**
Stddev	.00052	.0192	.00045	.0540	.00040
%RSD	.24779	.19542	.22166	322.6	.21102
#1	.20978	9.7971	.20246	.0549	.18794
#2	.20905	9.8242	.20309	-.0214	.18850
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19429**	**.19996**	**10.014**	**9.5307**	**.20046**
Stddev	.00097	.00182	.009	.0633	.00208
%RSD	.49778	.91039	.09079	.66360	1.0392
#1	.19497	.20125	10.021	9.4859	.20194
#2	.19361	.19868	10.008	9.5754	.19899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-610028/2-A Acquired: 12/27/2021 23:27:19 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8642**	**.20369**	**.20501**	**9.6891**	**.18976**
Stddev	.0128	.00008	.00092	.0256	.00046
%RSD	.12956	.03937	.44813	.26416	.24073
#1	9.8551	.20363	.20566	9.7072	.19008
#2	9.8732	.20375	.20436	9.6710	.18944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.67**	**.19227**	**9.5926**	**.21757**	**.19485**
Stddev	.00	.00096	.0079	.00036	.00419
%RSD	.0036	.49720	.08190	.16474	2.1506
#1	24.66	.19159	9.5870	.21732	.19781
#2	24.67	.19294	9.5982	.21782	.19189
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6774**	**.18057**	**.20117**	**.9998**	**.19964**
Stddev	.0108	.00046	.00090	.0034	.00015
%RSD	.11175	.25223	.44974	.3440	.07663
#1	9.6851	.18089	.20181	1.002	.19975
#2	9.6698	.18025	.20053	.9974	.19954
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-610028/2-A Acquired: 12/27/2021 23:27:19 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19773**	**.19505**	**.19729**	**1.006**
Stddev	.00125	.00024	.00203	.002
%RSD	.63178	.12315	1.0310	.1740
#1	.19861	.19488	.19585	1.008
#2	.19684	.19522	.19873	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3652.2**	**2782.3**	**26101.**	**2763.1**
Stddev	2.2	3.1	85.	23.3
%RSD	.06093	.11112	.32404	.84359
#1	3653.8	2784.5	26161.	2746.6
#2	3650.6	2780.1	26041.	2779.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.375%	96.828%	98.229%	102.64%
Range				

Sample Name: 190-27600-G-1-A Acquired: 12/27/2021 23:30:54 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00617**	**-.00053**	**.52688**	**.32422**
Stddev	.00077	.00688	.00016	.00022	.00080
%RSD	160.06	111.57	29.434	.04083	.24600
#1	-.00006	.01103	-.00065	.52673	.32366
#2	.00102	.00130	-.00042	.52703	.32479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**104.87**	**.00053**	**.0545**	**.00003**
Stddev	.00012	.63	.00001	.0082	.00014
%RSD	322.15	.59841	1.7864	15.11	502.94
#1	-.00005	104.43	.00053	.0487	-.00007
#2	.00012	105.31	.00054	.0603	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00192**	**4.2997**	**2.0479**	**.02051**
Stddev	.00031	.00027	.0257	.0218	.00122
%RSD	86.931	14.292	.59865	1.0640	5.9654
#1	.00057	.00211	4.2815	2.0633	.02137
#2	.00014	.00173	4.3179	2.0325	.01964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-1-A Acquired: 12/27/2021 23:30:54 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.052**	**.03518**	**.01365**	**84.880**	**.01274**
Stddev	.223	.00013	.00006	.160	.00021
%RSD	.52934	.36678	.42712	.18880	1.6632
#1	41.895	.03509	.01369	84.993	.01289
#2	42.210	.03527	.01361	84.767	.01259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00238**	**17.835**	**-.00060**	**.00525**
Stddev	.00	.00005	.038	.00233	.00170
%RSD	.0005	1.9215	.21235	390.16	32.443
#1	25.03	.00241	17.809	-.00224	.00646
#2	25.03	.00234	17.862	.00105	.00405
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8254**	**-.00049**	**1.0998**	**.9974**	**.00118**
Stddev	.0032	.00033	.0070	.0000	.00012
%RSD	.03645	67.431	.64130	.0008	9.9509
#1	8.8277	-.00072	1.0949	.9974	.00109
#2	8.8231	-.00026	1.1048	.9974	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-1-A Acquired: 12/27/2021 23:30:54 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00029**	**-.00099**	**.10408**	**1.001**
Stddev	.00028	.00020	.00098	.000
%RSD	99.375	19.928	.93736	.0147
#1	.00049	-.00113	.10477	1.001
#2	.00008	-.00085	.10339	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3388.5**	**2701.3**	**25242.**	**2768.2**
Stddev	2.2	2.3	49.	.7
%RSD	.06500	.08698	.19467	.02491
#1	3390.1	2703.0	25277.	2767.7
#2	3387.0	2699.7	25208.	2768.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.562%	94.010%	94.997%	102.83%
Range				

Sample Name: 190-27600-G-1-ASD@5 Acquired: 12/27/2021 23:34:36 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.01180**	**-.00115**	**.09525**	**.06453**
Stddev	.00108	.02014	.00070	.00018	.00003
%RSD	227.94	170.73	60.224	.18787	.04254
#1	-.00029	-.00244	-.00066	.09512	.06451
#2	.00124	.02604	-.00165	.09537	.06455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**21.245**	**.00005**	**.0470**	**.00015**
Stddev	.00010	.086	.00001	.0295	.00005
%RSD	178.56	.40525	12.157	62.68	34.690
#1	.00002	21.184	.00005	.0262	.00018
#2	-.00013	21.306	.00005	.0679	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00119**	**.87234**	**.28041**	**.00505**
Stddev	.00006	.00037	.00695	.04766	.00130
%RSD	32.937	30.831	.79682	16.996	25.623
#1	-.00015	.00093	.86742	.31411	.00597
#2	-.00024	.00145	.87725	.24671	.00414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-1-ASD@5 Acquired: 12/27/2021 23:34:36 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3954**	**.00701**	**.00253**	**16.937**	**.00278**
Stddev	.0003	.00004	.00002	.076	.00005
%RSD	.00334	.55708	.65313	.44669	1.9620
#1	8.3956	.00704	.00252	16.883	.00282
#2	8.3952	.00698	.00254	16.990	.00274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00064**	**3.4623**	**.00268**	**.00271**
Stddev	.00	.00072	.0146	.00203	.00105
%RSD	.0040	112.24	.42026	75.695	38.573
#1	25.02	.00114	3.4520	.00125	.00197
#2	25.02	.00013	3.4726	.00412	.00345
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7751**	**-.00016**	**.21947**	**.9967**	**-.00030**
Stddev	.0147	.00019	.00064	.0146	.00026
%RSD	.83067	118.71	.28945	1.467	88.628
#1	1.7855	-.00030	.21902	.9863	-.00048
#2	1.7646	-.00003	.21992	1.007	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-1-ASD@5 Acquired: 12/27/2021 23:34:36 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00164**	**-.00051**	**.02113**	**1.001**
Stddev	.00031	.00034	.00032	.001
%RSD	18.838	66.068	1.5192	.0774
#1	.00185	-.00027	.02136	1.001
#2	.00142	-.00075	.02090	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3660.9**	**2794.7**	**25966.**	**2736.7**
Stddev	11.2	7.7	32.	7.6
%RSD	.30557	.27695	.12396	.27932
#1	3653.0	2789.3	25988.	2742.2
#2	3668.8	2800.2	25943.	2731.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.600%	97.260%	97.719%	101.66%
Range				

Sample Name: 190-27600-G-1-APDS Acquired: 12/27/2021 23:38:21 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04925**	**9.9472**	**.21305**	**.71882**	**.50343**
Stddev	.00082	.0738	.00032	.00090	.00146
%RSD	1.6720	.74156	.15102	.12488	.28966
#1	.04983	9.9994	.21328	.71818	.50240
#2	.04867	9.8951	.21282	.71945	.50446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21403**	**112.93**	**.20219**	**-.0325**	**.19098**
Stddev	.00031	.30	.00003	.0605	.00007
%RSD	.14289	.26353	.01676	186.1	.03609
#1	.21425	113.14	.20217	.0103	.19102
#2	.21381	112.72	.20222	-.0752	.19093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19410**	**.19435**	**13.917**	**11.752**	**.21436**
Stddev	.00032	.00030	.001	.004	.00036
%RSD	.16558	.15418	.00606	.03540	.17001
#1	.19433	.19413	13.916	11.755	.21410
#2	.19388	.19456	13.917	11.749	.21461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-1-APDS Acquired: 12/27/2021 23:38:21 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.068**	**.22921**	**.21829**	**95.102**	**.20429**
Stddev	.038	.00034	.00052	.322	.00002
%RSD	.07581	.14848	.23826	.33856	.01043
#1	50.041	.22897	.21866	95.330	.20430
#2	50.094	.22945	.21792	94.875	.20427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.65**	**.19697**	**27.296**	**.21684**	**.20069**
Stddev	.00	.00100	.048	.00131	.00091
%RSD	.0038	.50803	.17765	.60637	.45247
#1	24.65	.19768	27.330	.21777	.20133
#2	24.65	.19627	27.261	.21591	.20005
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.270**	**.19398**	**1.2445**	**1.006**	**.20089**
Stddev	.048	.00039	.0019	.001	.00088
%RSD	.22381	.20300	.15234	.1350	.43659
#1	21.303	.19370	1.2458	1.007	.20027
#2	21.236	.19426	1.2431	1.005	.20151
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-1-APDS Acquired: 12/27/2021 23:38:21 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19833**	**.19664**	**.29887**	**1.003**
Stddev	.00027	.00051	.00126	.002
%RSD	.13646	.26079	.42192	.1597
#1	.19814	.19700	.29797	1.004
#2	.19852	.19627	.29976	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3316.1**	**2693.1**	**24936.**	**2733.5**
Stddev	1.3	3.6	48.	11.5
%RSD	.03821	.13384	.19298	.41967
#1	3317.0	2695.6	24970.	2725.4
#2	3315.2	2690.5	24902.	2741.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.690%	93.722%	93.843%	101.54%
Range				

Sample Name: 190-27600-G-1-B MS Acquired: 12/27/2021 23:41:56 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04825**	**9.8329**	**.20888**	**.71602**	**.50476**
Stddev	.00004	.0548	.00240	.00164	.00041
%RSD	.07764	.55732	1.1507	.22968	.08099
#1	.04828	9.7942	.20718	.71718	.50505
#2	.04822	9.8717	.21058	.71486	.50447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20976**	**112.20**	**.20241**	**-.0119**	**.19083**
Stddev	.00015	.19	.00001	.0330	.00007
%RSD	.07380	.16682	.00404	277.0	.03840
#1	.20965	112.34	.20241	.0114	.19078
#2	.20987	112.07	.20240	-.0353	.19088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19171**	**.19408**	**13.853**	**11.611**	**.21366**
Stddev	.00071	.00024	.028	.019	.00091
%RSD	.36790	.12356	.20481	.16229	.42570
#1	.19121	.19425	13.833	11.598	.21302
#2	.19221	.19391	13.873	11.625	.21431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-1-B MS Acquired: 12/27/2021 23:41:56 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.070**	**.22884**	**.21686**	**93.825**	**.20295**
Stddev	.000	.00003	.00122	.453	.00045
%RSD	.00002	.01128	.56453	.48314	.22124
#1	50.070	.22886	.21773	94.145	.20263
#2	50.070	.22882	.21599	93.504	.20326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.69**	**.19630**	**26.972**	**.21509**	**.19294**
Stddev	.00	.00127	.087	.00040	.00207
%RSD	.0020	.64714	.32112	.18623	1.0744
#1	24.69	.19720	27.033	.21537	.19147
#2	24.69	.19540	26.910	.21481	.19441
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.814**	**.18785**	**1.2508**	**1.003**	**.19924**
Stddev	.055	.00046	.0025	.000	.00015
%RSD	.31079	.24498	.20317	.0261	.07644
#1	17.775	.18818	1.2526	1.002	.19913
#2	17.853	.18753	1.2490	1.003	.19934
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-1-B MS Acquired: 12/27/2021 23:41:56 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19412**	**.19526**	**.29691**	**1.002**
Stddev	.00081	.00031	.00277	.003
%RSD	.41611	.16000	.93275	.2774
#1	.19469	.19503	.29495	.9996
#2	.19355	.19548	.29887	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3315.7**	**2681.3**	**24850.**	**2711.8**
Stddev	3.4	1.8	55.	7.5
%RSD	.10364	.06695	.22204	.27755
#1	3318.1	2682.6	24889.	2717.1
#2	3313.2	2680.1	24811.	2706.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.679%	93.314%	93.520%	100.74%
Range				

Sample Name: CCV-6824595 Acquired: 12/27/2021 23:45:33 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0053**	**50.394**	**1.0186**	**1.0342**	**.99084**
Stddev	.0015	.125	.0026	.0004	.00197
%RSD	.15023	.24787	.25415	.03669	.19884
#1	1.0063	50.306	1.0167	1.0339	.98945
#2	1.0042	50.482	1.0204	1.0345	.99224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99781**	**49.516**	**1.0207**	**1.065**	**.97461**
Stddev	.00126	.135	.0003	.044	.00013
%RSD	.12647	.27333	.02815	4.110	.01314
#1	.99692	49.420	1.0205	1.096	.97470
#2	.99871	49.612	1.0209	1.034	.97452
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98782**	**1.0021**	**49.841**	**48.872**	**1.0123**
Stddev	.00099	.0010	.045	.067	.0064
%RSD	.10031	.09558	.09095	.13680	.63025
#1	.98712	1.0014	49.809	48.824	1.0078
#2	.98852	1.0027	49.873	48.919	1.0168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 23:45:33 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.974**	**1.0132**	**1.0176**	**50.343**	**.98674**
Stddev	.039	.0003	.0005	.179	.00079
%RSD	.08048	.02591	.04736	.35500	.08013
#1	48.947	1.0130	1.0180	50.216	.98730
#2	49.002	1.0134	1.0173	50.469	.98618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.65**	**.96883**	**25.076**	**1.0223**	**.98595**
Stddev	.01	.00250	.006	.0030	.00709
%RSD	.0220	.25825	.02380	.28956	.71934
#1	37.66	.97060	25.080	1.0202	.99096
#2	37.64	.96706	25.072	1.0244	.98093
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.096**	**.96488**	**1.0124**	**1.516**	**.99892**
Stddev	.023	.00041	.0027	.000	.00109
%RSD	.22398	.04282	.26585	.0276	.10891
#1	10.112	.96458	1.0105	1.515	.99815
#2	10.080	.96517	1.0143	1.516	.99969
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/27/2021 23:45:33 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.96504**	**.99230**	**1.0047**	**1.538**
Stddev	.00314	.00129	.0022	.004
%RSD	.32584	.12993	.22382	.2496
#1	.96726	.99138	1.0063	1.535
#2	.96281	.99321	1.0031	1.541
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3305.0**	**2690.0**	**24761.**	**2680.5**
Stddev	3.1	.6	40.	6.5
%RSD	.09505	.02157	.16255	.24214
#1	3302.7	2690.4	24732.	2675.9
#2	3307.2	2689.5	24789.	2685.1

Sample Name: CCB-6825508 Acquired: 12/27/2021 23:49:06 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**-.03062**	**-.00047**	**-.00926**	**.00002**
Stddev	.00101	.01973	.00148	.00052	.00000
%RSD	174.22	64.444	316.96	5.5601	13.817
#1	-.00013	-.01667	-.00152	-.00890	.00002
#2	.00129	-.04457	.00058	-.00963	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00057**	**.00009**	**.0496**	**.00007**
Stddev	.00016	.00011	.00006	.0442	.00013
%RSD	1346.0	19.084	71.729	89.11	188.81
#1	.00010	-.00064	.00004	.0184	-.00002
#2	-.00012	-.00049	.00014	.0809	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00255**	**-.00071**	**-.08366**	**.00290**
Stddev	.00028	.00059	.00144	.01013	.00049
%RSD	121.01	23.344	201.55	12.112	16.759
#1	.00003	.00213	.00030	-.07649	.00324
#2	.00042	.00297	-.00173	-.09082	.00255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 23:49:06 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00302**	**-.00011**	**.00142**	**.00361**	**.00008**
Stddev	.00603	.00000	.00015	.01011	.00014
%RSD	199.74	1.6286	10.777	280.18	183.94
#1	.00728	-.00011	.00131	.01076	-.00002
#2	-.00124	-.00011	.00153	-.00354	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00085**	**.00677**	**.00162**	**.00398**
Stddev	.00	.00124	.00072	.00215	.00091
%RSD	.0020	145.76	10.607	132.60	22.894
#1	25.02	.00173	.00728	.00314	.00333
#2	25.02	-.00003	.00626	.00010	.00462
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00558**	**-.00036**	**.00023**	**.9945**	**-.00038**
Stddev	.01048	.00042	.00000	.0007	.00015
%RSD	187.99	116.25	1.7963	.0659	39.942
#1	-.00184	-.00065	.00024	.9949	-.00027
#2	.01299	-.00006	.00023	.9940	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/27/2021 23:49:06 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00179**	**-.00018**	**-.00037**	**.9998**
Stddev	.00096	.00050	.00041	.0005
%RSD	53.538	277.34	111.54	.0489
#1	.00111	.00017	-.00008	1.000
#2	.00246	-.00053	-.00066	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3867.2**	**2844.5**	**26697.**	**2737.8**
Stddev	3.9	3.2	34.	18.0
%RSD	.10104	.11232	.12673	.65607
#1	3870.0	2842.3	26721.	2750.5
#2	3864.5	2846.8	26673.	2725.1

Sample Name: CCVL-6825510 Acquired: 12/27/2021 23:52:54 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00594**	**.18753**	**.01342**	F **.00926**	**.00205**
Stddev	.00020	.00340	.00117	.00014	.00005
%RSD	3.4242	1.8129	8.7311	1.5419	2.3585
#1	.00609	.18513	.01424	.00937	.00201
#2	.00580	.18994	.01259	.00916	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				-50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.49900**	**.00198**	**.0239**	**.00380**
Stddev	.00005	.00424	.00005	.0675	.00010
%RSD	2.3935	.84950	2.5218	282.3	2.7193
#1	.00194	.49600	.00194	-.0238	.00387
#2	.00201	.50200	.00201	.0716	.00372
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00403**	**.01026**	**.05080**	**.36225**	**.03163**
Stddev	.00009	.00005	.00019	.04653	.00031
%RSD	2.3219	.48862	.37055	12.844	.99115
#1	.00397	.01029	.05067	.39515	.03141
#2	.00410	.01022	.05093	.32935	.03185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/27/2021 23:52:54 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18652**	**.00296**	**.01018**	**.96366**	**.00906**
Stddev	.00063	.00002	.00016	.02089	.00006
%RSD	.33623	.73905	1.5991	2.1673	.64816
#1	.18608	.00298	.01006	.97843	.00910
#2	.18696	.00295	.01029	.94889	.00902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01003**	**.18692**	**.02025**	**.02814**
Stddev	.00	.00032	.00101	.00242	.00027
%RSD	.0044	3.2146	.53881	11.967	.95216
#1	25.00	.01026	.18764	.01854	.02795
#2	25.00	.00980	.18621	.02196	.02833
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51005**	**.00849**	**.00498**	F **.9992**	**.00427**
Stddev	.02244	.00018	.00025	.0093	.00043
%RSD	4.3995	2.0813	4.9731	.9308	10.109
#1	.49418	.00862	.00515	1.006	.00458
#2	.52591	.00837	.00480	.9926	.00397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/27/2021 23:52:54 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02042**	**.00459**	**.01006**	F **1.003**
Stddev	.00115	.00009	.00040	.001
%RSD	5.6225	1.9620	3.9658	.0702
#1	.01961	.00465	.01035	1.003
#2	.02123	.00452	.00978	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3816.4**	**2822.9**	**26322.**	**2709.4**
Stddev	1.1	4.0	121.	5.2
%RSD	.02911	.14330	.45911	.19052
#1	3817.1	2825.8	26407.	2713.1
#2	3815.6	2820.1	26236.	2705.8

Sample Name: 190-27600-G-1-C MSD Acquired: 12/27/2021 23:56:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04826**	**9.9773**	**.21171**	**.72030**	**.50625**
Stddev	.00025	.0078	.00073	.00077	.00024
%RSD	.51437	.07842	.34478	.10707	.04720
#1	.04808	9.9828	.21222	.72085	.50642
#2	.04844	9.9717	.21119	.71976	.50608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21392**	**113.20**	**.20375**	**-.0005**	**.19253**
Stddev	.00111	.54	.00020	.0335	.00031
%RSD	.51838	.47691	.09617	6630.	.16025
#1	.21313	112.82	.20389	-.0242	.19275
#2	.21470	113.58	.20361	.0232	.19231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19490**	**.19667**	**14.005**	**11.779**	**.21473**
Stddev	.00117	.00045	.052	.079	.00282
%RSD	.60188	.22749	.36846	.67462	1.3146
#1	.19407	.19635	13.968	11.723	.21274
#2	.19573	.19698	14.041	11.835	.21673
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-1-C MSD Acquired: 12/27/2021 23:56:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.180**	**.22968**	**.22027**	**94.874**	**.20495**
Stddev	.068	.00007	.00042	.301	.00087
%RSD	.13649	.02977	.19095	.31751	.42450
#1	50.228	.22963	.22057	94.661	.20556
#2	50.131	.22973	.21997	95.087	.20433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.64**	**.19951**	**27.221**	**.21928**	**.19897**
Stddev	.00	.00012	.037	.00078	.00742
%RSD	.0052	.06177	.13757	.35612	3.7295
#1	24.64	.19960	27.247	.21983	.20421
#2	24.65	.19943	27.194	.21872	.19372
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.972**	**.19059**	**1.2515**	**1.003**	**.20277**
Stddev	.080	.00084	.0037	.002	.00057
%RSD	.44664	.44029	.30005	.1446	.28246
#1	17.916	.19118	1.2488	1.002	.20237
#2	18.029	.18999	1.2541	1.004	.20318
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-1-C MSD Acquired: 12/27/2021 23:56:40 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19932**	**.19763**	**.30129**	**1.008**
Stddev	.00203	.00015	.00213	.001
%RSD	1.0197	.07735	.70591	.0619
#1	.19789	.19753	.30279	1.007
#2	.20076	.19774	.29978	1.008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3317.8**	**2692.9**	**24909.**	**2721.6**
Stddev	4.4	5.3	33.	18.8
%RSD	.13280	.19691	.13169	.69229
#1	3320.9	2696.6	24932.	2735.0
#2	3314.7	2689.1	24886.	2708.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.735%	93.715%	93.742%	101.10%
Range				

Sample Name: 190-27600-G-2-A Acquired: 12/28/2021 0:00:15 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00785**	**.02341**	**.06178**	**.14392**
Stddev	.00047	.00508	.00063	.00051	.00014
%RSD	84.418	64.710	2.6749	.82476	.09970
#1	.00088	.01144	.02385	.06214	.14382
#2	.00022	.00426	.02297	.06142	.14402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**70.217**	**.00037**	**.0382**	**.00020**
Stddev	.00014	.245	.00034	.0435	.00044
%RSD	129.03	.34955	92.300	114.1	215.11
#1	.00001	70.391	.00013	.0074	.00051
#2	.00020	70.043	.00061	.0689	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00134**	**.51964**	**1.3010**	**.01769**
Stddev	.00006	.00084	.00763	.0165	.00238
%RSD	33.881	63.146	1.4675	1.2676	13.476
#1	.00021	.00074	.52503	1.3127	.01937
#2	.00013	.00194	.51424	1.2894	.01600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-2-A Acquired: 12/28/2021 0:00:15 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.743**	**.01397**	**.01636**	**10.075**	**-.00003**
Stddev	.070	.00011	.00023	.027	.00014
%RSD	.20869	.81991	1.3966	.26643	420.12
#1	33.693	.01389	.01652	10.094	.00007
#2	33.792	.01405	.01620	10.056	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00292**	**13.516**	**-.00253**	**.00394**
Stddev	.00	.00047	.009	.00228	.00291
%RSD	.0001	16.022	.06947	89.863	74.057
#1	25.02	.00325	13.523	-.00414	.00600
#2	25.02	.00259	13.510	-.00092	.00187
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.0024**	**-.00052**	**.78846**	**.9989**	**.00044**
Stddev	.0308	.00015	.00061	.0037	.00069
%RSD	.38497	29.837	.07704	.3656	156.73
#1	8.0242	-.00063	.78889	.9963	-.00005
#2	7.9806	-.00041	.78803	1.001	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-2-A Acquired: 12/28/2021 0:00:15 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00144**	**-.00109**	**1.4961**	**1.001**
Stddev	.00170	.00059	.0042	.001
%RSD	118.10	54.028	.27735	.0461
#1	.00264	-.00068	1.4932	1.001
#2	.00024	-.00151	1.4991	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3518.8**	**2715.1**	**25387.**	**2683.0**
Stddev	3.3	1.7	26.	16.2
%RSD	.09346	.06126	.10131	.60534
#1	3516.5	2713.9	25405.	2671.5
#2	3521.1	2716.2	25369.	2694.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.928%	94.488%	95.542%	99.663%
Range				

Sample Name: 190-27600-G-3-A Acquired: 12/28/2021 0:03:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**-.02848**	**.03548**	**.07780**	**.15604**
Stddev	.00057	.01402	.00090	.00044	.00044
%RSD	148.47	49.225	2.5233	.56242	.28427
#1	.00078	-.01857	.03485	.07749	.15573
#2	-.00002	-.03840	.03611	.07811	.15636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**65.463**	**.00033**	**.0234**	**.00012**
Stddev	.00020	.306	.00009	.0216	.00010
%RSD	567.68	.46786	28.257	92.36	82.051
#1	-.00018	65.246	.00040	.0081	.00005
#2	.00011	65.679	.00026	.0387	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00310**	**1.0672**	**1.3536**	**.01901**
Stddev	.00005	.00038	.0034	.0015	.00147
%RSD	37.490	12.098	.31947	.11476	7.7580
#1	.00016	.00337	1.0647	1.3547	.01796
#2	.00009	.00283	1.0696	1.3525	.02005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-3-A Acquired: 12/28/2021 0:03:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.916**	**.01051**	**.02030**	**12.293**	**-.00018**
Stddev	.110	.00004	.00023	.059	.00041
%RSD	.34560	.35412	1.1505	.47633	232.40
#1	31.838	.01054	.02047	12.251	-.00047
#2	31.994	.01049	.02014	12.334	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00157**	**11.266**	**.00146**	**-.00113**
Stddev	.00	.00000	.008	.00000	.00213
%RSD	.0002	.25337	.06709	.25664	187.77
#1	25.02	.00157	11.272	.00146	-.00264
#2	25.02	.00157	11.261	.00146	.00037
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3926**	**-.00057**	**.75714**	**.9961**	**.00028**
Stddev	.0322	.00045	.00493	.0064	.00004
%RSD	.38321	79.454	.65064	.6445	13.034
#1	8.3699	-.00089	.75365	.9916	.00026
#2	8.4154	-.00025	.76062	1.001	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-3-A Acquired: 12/28/2021 0:03:59 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00188**	**-.00080**	**.05996**	**1.001**
Stddev	.00014	.00046	.00008	.003
%RSD	7.4314	57.005	.14071	.2618
#1	.00198	-.00048	.05990	1.002
#2	.00179	-.00112	.06002	.9987
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3568.3**	**2757.8**	**25945.**	**2759.3**
Stddev	5.0	6.8	4.	18.7
%RSD	.14112	.24757	.01575	.67794
#1	3564.7	2753.0	25948.	2772.5
#2	3571.8	2762.6	25942.	2746.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.207%	95.976%	97.642%	102.50%
Range				

Sample Name: 190-27600-G-4-A Acquired: 12/28/2021 0:07:43 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00784**	**-.00085**	**.15381**	**.03745**
Stddev	.00008	.00236	.00141	.00001	.00020
%RSD	21.357	30.160	165.56	.00733	.53883
#1	.00030	.00951	.00015	.15382	.03731
#2	.00041	.00616	-.00186	.15380	.03760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**175.57**	**.00067**	**-.0215**	**.00290**
Stddev	.00002	.25	.00016	.0158	.00015
%RSD	280.84	.14012	23.771	73.73	5.0618
#1	.00001	175.40	.00079	-.0326	.00301
#2	-.00002	175.74	.00056	-.0103	.00280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00502**	**.15996**	**1.1567**	**.01104**
Stddev	.00001	.00134	.00168	.0257	.00092
%RSD	5.2448	26.639	1.0485	2.2264	8.2951
#1	.00020	.00597	.15877	1.1385	.01169
#2	.00019	.00408	.16114	1.1750	.01040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-4-A Acquired: 12/28/2021 0:07:43 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.386**	**.34818**	**.00028**	**66.919**	**.00501**
Stddev	.096	.00125	.00039	.174	.00026
%RSD	.28665	.35826	139.96	.25946	5.1146
#1	33.318	.34730	.00000	66.796	.00519
#2	33.454	.34906	.00055	67.042	.00483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00296**	**30.640**	**.00160**	**.00084**
Stddev	.00	.00073	.009	.00048	.00688
%RSD	.0061	24.564	.02885	30.301	820.94
#1	25.01	.00245	30.646	.00194	.00571
#2	25.02	.00348	30.634	.00126	-.00403
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6439**	**-.00036**	**.24301**	**.9947**	**.00069**
Stddev	.0623	.00077	.00027	.0002	.00031
%RSD	.93726	211.64	.11099	.0183	45.516
#1	6.5999	-.00091	.24320	.9949	.00047
#2	6.6879	.00018	.24282	.9946	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-4-A Acquired: 12/28/2021 0:07:43 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00146**	**-.00077**	**.78117**	**1.001**
Stddev	.00013	.00042	.00097	.001
%RSD	8.6660	54.629	.12375	.1255
#1	.00137	-.00106	.78049	1.002
#2	.00155	-.00047	.78185	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3375.5**	**2703.5**	**25171.**	**2763.5**
Stddev	7.7	3.2	9.	.8
%RSD	.22788	.11679	.03540	.03023
#1	3381.0	2705.8	25164.	2764.1
#2	3370.1	2701.3	25177.	2762.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.227%	94.086%	94.727%	102.66%
Range				

Sample Name: 190-27600-G-5-A Acquired: 12/28/2021 0:11:25 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.01762**	**.00761**	**.95472**	**.03597**
Stddev	.00091	.02686	.00094	.00128	.00004
%RSD	247.16	152.46	12.315	.13364	.10289
#1	-.00101	.03661	.00828	.95562	.03599
#2	.00027	-.00137	.00695	.95381	.03594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**53.225**	**.00088**	**-.0286**	**.00043**
Stddev	.00000	.180	.00009	.0377	.00007
%RSD	23.664	.33810	10.561	131.9	15.545
#1	.00002	53.352	.00081	-.0552	.00048
#2	.00002	53.097	.00094	-.0019	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.00020**	**1.1467**	**6.2567**	**.00445**
Stddev	.00013	.00031	.0134	.0268	.00007
%RSD	27.212	152.39	1.1670	.42800	1.4743
#1	.00037	.00042	1.1562	6.2377	.00450
#2	.00055	-.00002	1.1373	6.2756	.00441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-5-A Acquired: 12/28/2021 0:11:25 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.393**	**.40256**	**.01878**	**78.999**	**.00203**
Stddev	.001	.00015	.00008	.332	.00013
%RSD	.00562	.03624	.41780	.42011	6.3042
#1	10.393	.40246	.01884	79.233	.00194
#2	10.394	.40266	.01873	78.764	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00422**	**7.4468**	**.00106**	**-.00090**
Stddev	.00	.00118	.0246	.00015	.00019
%RSD	.0043	28.026	.33001	14.347	21.475
#1	25.04	.00506	7.4642	.00117	-.00077
#2	25.04	.00338	7.4294	.00095	-.00104
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8999**	**-.00035**	**.63586**	**.9861**	**.00025**
Stddev	.0319	.00009	.00117	.0098	.00020
%RSD	.46259	25.744	.18376	.9919	81.386
#1	6.9225	-.00041	.63669	.9792	.00039
#2	6.8773	-.00029	.63503	.9930	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-5-A Acquired: 12/28/2021 0:11:25 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00152**	**.00030**	**.32592**	**1.000**
Stddev	.00048	.00058	.00112	.001
%RSD	31.582	193.94	.34308	.1277
#1	.00186	-.00011	.32671	1.001
#2	.00118	.00071	.32513	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3484.3**	**2740.7**	**25424.**	**2716.6**
Stddev	7.4	6.9	26.	34.2
%RSD	.21345	.25196	.10038	1.2599
#1	3489.5	2745.6	25442.	2692.4
#2	3479.0	2735.8	25406.	2740.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.036%	95.380%	95.681%	100.91%
Range				

Sample Name: 190-27600-G-6-A Acquired: 12/28/2021 0:15:07 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.01377**	**.02302**	**.08968**	**.16194**
Stddev	.00024	.01249	.00161	.00043	.00030
%RSD	124.12	90.709	6.9852	.48340	.18486
#1	.00036	.02261	.02188	.08937	.16173
#2	.00002	.00494	.02416	.08999	.16215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**70.585**	**.00047**	**.0245**	**.00014**
Stddev	.00007	.272	.00004	.0475	.00011
%RSD	508.84	.38564	7.7165	194.0	75.557
#1	-.00006	70.392	.00044	-.0091	.00021
#2	.00003	70.777	.00049	.0581	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00072**	**1.0973**	**1.2749**	**.01681**
Stddev	.00020	.00056	.0084	.0486	.00159
%RSD	315.51	77.624	.76366	3.8146	9.4409
#1	-.00020	.00033	1.0914	1.2405	.01794
#2	.00008	.00112	1.1033	1.3093	.01569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-6-A Acquired: 12/28/2021 0:15:07 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.333**	**.01555**	**.01872**	**16.871**	**.00008**
Stddev	.067	.00003	.00054	.084	.00015
%RSD	.23554	.20239	2.8621	.50040	197.56
#1	28.286	.01553	.01834	16.811	.00018
#2	28.380	.01558	.01910	16.931	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00322**	**7.2768**	**.00070**	**.00108**
Stddev	.00	.00013	.0028	.00104	.00075
%RSD	.0013	3.9303	.03788	148.82	68.939
#1	25.02	.00331	7.2788	.00144	.00161
#2	25.02	.00313	7.2749	-.00004	.00056
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8134**	**-.00038**	**.55674**	**.9947**	**.00048**
Stddev	.0086	.00008	.00283	.0089	.00003
%RSD	.09786	20.908	.50829	.8975	6.3234
#1	8.8073	-.00032	.55474	1.001	.00046
#2	8.8195	-.00044	.55874	.9884	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-6-A Acquired: 12/28/2021 0:15:07 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00141**	**-.00074**	**.00092**	**1.001**
Stddev	.00059	.00044	.00006	.000
%RSD	42.024	59.753	6.6755	.0282
#1	.00099	-.00042	.00088	1.001
#2	.00183	-.00105	.00096	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3518.4**	**2728.2**	**25631.**	**2716.2**
Stddev	5.9	3.1	105.	4.0
%RSD	.16892	.11252	.40886	.14769
#1	3514.2	2726.1	25705.	2713.4
#2	3522.6	2730.4	25557.	2719.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.918%	94.946%	96.459%	100.90%
Range				

Sample Name: 190-27600-G-7-A Acquired: 12/28/2021 0:18:51 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.01472**	**.00109**	**.12776**	**.02837**
Stddev	.00026	.01669	.00004	.00016	.00005
%RSD	133.54	113.39	3.9118	.12173	.15932
#1	-.00037	.00292	.00106	.12787	.02834
#2	-.00001	.02652	.00112	.12765	.02841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**97.380**	**.00024**	**.0160**	**.00016**
Stddev	.00002	.275	.00022	.0460	.00019
%RSD	30.200	.28210	91.933	287.4	120.18
#1	.00007	97.574	.00008	.0485	.00030
#2	.00005	97.185	.00040	-.0165	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00630**	**.00756**	**3.8753**	**.00960**
Stddev	.00015	.00079	.00184	.1073	.00110
%RSD	76.000	12.549	24.320	2.7694	11.427
#1	.00009	.00574	.00886	3.7994	.01037
#2	.00031	.00686	.00626	3.9512	.00882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-7-A Acquired: 12/28/2021 0:18:51 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.921**	**.02298**	**.00125**	**28.777**	**.00246**
Stddev	.005	.00011	.00013	.120	.00019
%RSD	.03170	.46840	10.710	.41759	7.8599
#1	15.918	.02290	.00115	28.862	.00260
#2	15.925	.02306	.00134	28.692	.00233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.01**	**.00229**	**13.209**	**.00052**	**.00268**
Stddev	.00	.00030	.010	.00222	.00491
%RSD	.0019	13.008	.07850	423.65	183.21
#1	25.01	.00208	13.216	-.00105	-.00079
#2	25.01	.00250	13.202	.00210	.00615
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4448**	**-.00063**	**1.0949**	**.9918**	**.00068**
Stddev	.0086	.00023	.0043	.0018	.00005
%RSD	.15824	36.215	.39766	.1775	7.0485
#1	5.4509	-.00047	1.0980	.9906	.00064
#2	5.4387	-.00079	1.0919	.9930	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-7-A Acquired: 12/28/2021 0:18:51 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00056**	**.00109**	**1.001**
Stddev	.00134	.00055	.00021	.001
%RSD	840.73	97.105	19.607	.0633
#1	-.00079	-.00018	.00093	1.002
#2	.00111	-.00095	.00124	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3479.6**	**2700.8**	**25311.**	**2710.8**
Stddev	9.7	8.0	14.	1.9
%RSD	.27822	.29724	.05480	.06990
#1	3472.7	2695.1	25301.	2709.4
#2	3486.4	2706.4	25321.	2712.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.914%	93.990%	95.255%	100.70%
Range				

Sample Name: 190-27600-G-8-A Acquired: 12/28/2021 0:22:34 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00797**	**.00518**	**.12365**	**.12598**
Stddev	.00119	.02008	.00223	.00031	.00012
%RSD	163.52	252.08	42.979	.25151	.09374
#1	-.00011	-.00623	.00675	.12343	.12607
#2	.00156	.02216	.00361	.12387	.12590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**44.464**	**.00286**	**.0692**	**.00016**
Stddev	.00001	.200	.00018	.0494	.00019
%RSD	6.1040	.44984	6.4632	71.46	120.29
#1	-.00010	44.606	.00299	.0342	.00002
#2	-.00009	44.323	.00273	.1041	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.00406**	**.59671**	**1.6648**	**.01417**
Stddev	.00026	.00039	.00674	.0442	.00025
%RSD	32.440	9.5760	1.1292	2.6519	1.7691
#1	.00100	.00434	.60148	1.6336	.01435
#2	.00063	.00379	.59195	1.6960	.01399
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-8-A Acquired: 12/28/2021 0:22:34 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.391**	**.03835**	**.01908**	**20.020**	**-.00014**
Stddev	.048	.00003	.00001	.130	.00001
%RSD	.21603	.08435	.04604	.64773	9.2400
#1	22.425	.03833	.01909	20.112	-.00015
#2	22.356	.03837	.01907	19.929	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.08422**	**1.9324**	**.00243**	**.00426**
Stddev	.00	.00109	.0067	.00013	.00084
%RSD	.0046	1.2899	.34469	5.5389	19.751
#1	25.02	.08345	1.9277	.00253	.00366
#2	25.02	.08498	1.9371	.00234	.00485
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6446**	**-.00025**	**.46639**	**.9919**	**.00120**
Stddev	.0489	.00042	.00366	.0004	.00001
%RSD	1.0532	168.69	.78574	.0431	.65638
#1	4.6792	-.00055	.46898	.9922	.00121
#2	4.6101	.00005	.46380	.9916	.00120
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-8-A Acquired: 12/28/2021 0:22:34 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00089**	**-.00049**	**12.377**	**1.001**
Stddev	.00029	.00024	.027	.000
%RSD	33.151	47.915	.22141	.0325
#1	-.00110	-.00032	12.396	1.001
#2	-.00068	-.00066	12.358	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3603.0**	**2789.8**	**26074.**	**2790.5**
Stddev	4.9	6.6	29.	3.3
%RSD	.13500	.23584	.11266	.11964
#1	3599.5	2785.1	26053.	2788.2
#2	3606.4	2794.4	26095.	2792.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.103%	97.088%	98.127%	103.66%
Range				

Sample Name: 190-27600-G-9-A Acquired: 12/28/2021 0:26:17 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**.04337**	**-.00098**	**.13731**	**.27965**
Stddev	.00015	.02841	.00004	.00025	.00000
%RSD	20.597	65.506	4.5571	.18302	.00074
#1	.00084	.06346	-.00101	.13749	.27965
#2	.00063	.02328	-.00095	.13713	.27965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**118.51**	**.00079**	**.0537**	**.00020**
Stddev	.00006	.53	.00010	.0478	.00009
%RSD	113.80	.44405	12.298	88.94	45.125
#1	.00001	118.88	.00086	.0199	.00026
#2	.00009	118.14	.00072	.0875	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.00466**	**2.6217**	**2.5365**	**.01550**
Stddev	.00013	.00071	.0067	.0285	.00074
%RSD	25.886	15.307	.25497	1.1241	4.7939
#1	.00042	.00415	2.6264	2.5164	.01497
#2	.00060	.00516	2.6169	2.5567	.01602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-9-A Acquired: 12/28/2021 0:26:17 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.008**	**.09232**	**.00237**	**130.74**	**.00089**
Stddev	.009	.00004	.00000	.32	.00007
%RSD	.02607	.04561	.06309	.24227	7.7567
#1	34.001	.09235	.00237	130.96	.00084
#2	34.014	.09229	.00237	130.51	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00775**	**7.0157**	**-.00071**	**.00082**
Stddev	.00	.00049	.0039	.00068	.00341
%RSD	.0045	6.3488	.05487	96.850	417.63
#1	25.02	.00809	7.0184	-.00119	.00323
#2	25.02	.00740	7.0130	-.00022	-.00159
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8401**	**-.00031**	**.74848**	**.9894**	**.00161**
Stddev	.0153	.00061	.00066	.0082	.00013
%RSD	.22312	196.47	.08854	.8282	8.2952
#1	6.8509	.00012	.74895	.9836	.00170
#2	6.8293	-.00074	.74801	.9952	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-9-A Acquired: 12/28/2021 0:26:17 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00257**	**-.00101**	**1.5984**	**.9990**
Stddev	.00089	.00006	.0004	.0006
%RSD	34.667	5.5288	.02348	.0605
#1	.00194	-.00104	1.5987	.9995
#2	.00319	-.00097	1.5982	.9986
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3330.8**	**2687.1**	**24971.**	**2746.8**
Stddev	1.3	4.9	117.	17.5
%RSD	.03991	.18286	.46810	.63852
#1	3331.7	2690.6	25053.	2734.4
#2	3329.8	2683.6	24888.	2759.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.069%	93.514%	93.975%	102.04%
Range				

Sample Name: CCV-6824595 Acquired: 12/28/2021 0:29:59 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99587**	**51.093**	**1.0160**	**1.0391**	**.99508**
Stddev	.00083	.164	.0045	.0001	.00091
%RSD	.08346	.32010	.44190	.00560	.09181
#1	.99528	50.977	1.0192	1.0392	.99572
#2	.99646	51.208	1.0128	1.0391	.99443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0229**	**50.230**	**1.0080**	**1.080**	**.97405**
Stddev	.0006	.087	.0004	.068	.00124
%RSD	.06287	.17257	.03431	6.300	.12744
#1	1.0224	50.169	1.0083	1.128	.97493
#2	1.0234	50.291	1.0078	1.032	.97318
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0089**	**.99249**	**50.106**	**49.324**	**1.0053**
Stddev	.0022	.00351	.271	.041	.0006
%RSD	.21662	.35337	.54024	.08321	.05624
#1	1.0074	.99001	49.915	49.353	1.0049
#2	1.0105	.99497	50.298	49.295	1.0057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/28/2021 0:29:59 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.537**	**.99579**	**1.0264**	**49.989**	**.98388**
Stddev	.176	.00386	.0018	.015	.00056
%RSD	.36311	.38745	.17315	.02920	.05719
#1	48.413	.99306	1.0276	49.979	.98427
#2	48.662	.99852	1.0251	49.999	.98348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.80**	**.97359**	**25.308**	**1.0200**	**1.0004**
Stddev	.01	.00269	.017	.0022	.0010
%RSD	.0263	.27622	.06544	.21547	.09696
#1	37.81	.97549	25.320	1.0216	1.0010
#2	37.79	.97169	25.296	1.0185	.99966
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.138**	**.98318**	**1.0001**	**1.515**	**1.0069**
Stddev	.100	.00059	.0011	.003	.0051
%RSD	.98283	.06012	.10916	.2103	.50302
#1	10.067	.98360	1.0009	1.517	1.0033
#2	10.208	.98276	.99937	1.513	1.0105
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/28/2021 0:29:59 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99593**	**1.0076**	**1.0241**	**1.534**
Stddev	.00179	.0033	.0027	.003
%RSD	.17988	.32598	.26841	.1772
#1	.99720	1.0052	1.0222	1.532
#2	.99466	1.0099	1.0261	1.536
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3305.4**	**2710.4**	**24713.**	**2651.2**
Stddev	7.8	6.0	80.	13.6
%RSD	.23708	.22085	.32425	.51306
#1	3299.9	2706.1	24769.	2660.8
#2	3311.0	2714.6	24656.	2641.6

Sample Name: CCB-6825508 Acquired: 12/28/2021 0:33:32 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.02217**	**-.00033**	**-.00992**	**.00003**
Stddev	.00091	.00192	.00130	.00040	.00002
%RSD	144.33	8.6739	391.93	3.9915	96.730
#1	.00127	.02081	-.00125	-.00964	.00004
#2	-.00001	.02353	.00059	-.01020	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00432**	**.00017**	**.0397**	**.00018**
Stddev	.00000	.00108	.00006	.0378	.00000
%RSD	4.4664	24.986	36.023	95.06	1.2215
#1	.00008	.00508	.00021	.0130	.00018
#2	.00008	.00356	.00013	.0664	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00014**	**.00277**	**-.15057**	**.00047**
Stddev	.00008	.00040	.00224	.04690	.00014
%RSD	77.791	289.91	80.837	31.147	30.061
#1	.00004	-.00042	.00118	-.11741	.00057
#2	.00015	.00014	.00435	-.18373	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/28/2021 0:33:32 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00225**	**-.00007**	**.00133**	**-.00713**	**.00001**
Stddev	.00102	.00008	.00020	.00700	.00017
%RSD	45.287	113.65	15.149	98.099	3493.8
#1	-.00153	-.00001	.00119	-.00218	.00013
#2	-.00297	-.00013	.00147	-.01208	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00028**	**-.00030**	**-.00156**	**.00026**
Stddev	.00	.00035	.00413	.00240	.00533
%RSD	.0002	127.13	1395.4	153.18	2074.9
#1	25.02	.00052	.00263	-.00326	-.00351
#2	25.02	.00003	-.00322	.00013	.00403
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**-.00065**	**-.00000**	**1.002**	**.00009**
Stddev	.00420	.00014	.00020	.002	.00024
%RSD	621.81	21.397	5282.4	.1550	260.99
#1	-.00364	-.00075	-.00014	1.003	.00027
#2	.00229	-.00055	.00014	1.001	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/28/2021 0:33:32 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00089**	**-.00004**	**-.00024**	**1.001**
Stddev	.00112	.00009	.00002	.002
%RSD	126.15	229.81	8.0672	.1673
#1	.00168	-.00011	-.00026	.9998
#2	.00010	.00003	-.00023	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3824.1**	**2793.6**	**26228.**	**2680.3**
Stddev	12.0	4.8	80.	16.7
%RSD	.31330	.17207	.30515	.62177
#1	3815.6	2790.2	26172.	2692.1
#2	3832.6	2797.0	26285.	2668.5

Sample Name: CCVL-6825510 Acquired: 12/28/2021 0:37:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00601**	**.20426**	**.01295**	F **.00870**	**.00205**
Stddev	.00078	.01069	.00012	.00027	.00004
%RSD	13.013	5.2318	.91004	3.0501	1.9047
#1	.00656	.19670	.01304	.00852	.00202
#2	.00545	.21181	.01287	.00889	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				-50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.49099**	**.00202**	**.0634**	**.00366**
Stddev	.00001	.00373	.00007	.0207	.00013
%RSD	.66424	.76064	3.4670	32.71	3.5792
#1	.00206	.48835	.00207	.0781	.00357
#2	.00204	.49363	.00197	.0488	.00376
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00432**	**.01182**	**.04811**	W **.31868**	**.03405**
Stddev	.00003	.00053	.00059	.00076	.00124
%RSD	.60595	4.4936	1.2222	.24005	3.6564
#1	.00430	.01220	.04769	.31814	.03493
#2	.00433	.01144	.04853	.31922	.03317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.50000	
Range				-30.000%	

Sample Name: CCVL-6825510 Acquired: 12/28/2021 0:37:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18397**	**.00292**	**.01042**	**.96363**	**.00929**
Stddev	.00225	.00014	.00026	.00413	.00002
%RSD	1.2248	4.9629	2.4704	.42865	.22990
#1	.18237	.00282	.01024	.96071	.00928
#2	.18556	.00302	.01060	.96655	.00931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.01069**	**.18191**	**.02297**	**.02417**
Stddev	.00	.00054	.00261	.00269	.00268
%RSD	.0064	5.0102	1.4373	11.700	11.100
#1	25.00	.01031	.18375	.02107	.02228
#2	25.00	.01106	.18006	.02487	.02607
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47399**	**.00874**	**.00520**	F **.9936**	**.00472**
Stddev	.00193	.00082	.00001	.0030	.00016
%RSD	.40677	9.3912	.22841	.3060	3.4779
#1	.47263	.00932	.00521	.9915	.00484
#2	.47535	.00816	.00519	.9958	.00460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/28/2021 0:37:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01939**	**.00508**	**.01000**	F **1.001**
Stddev	.00015	.00036	.00054	.000
%RSD	.77313	7.1290	5.4239	.0418
#1	.01928	.00533	.00961	1.001
#2	.01949	.00482	.01038	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3839.8**	**2816.6**	**26401.**	**2698.6**
Stddev	7.2	7.0	42.	6.7
%RSD	.18788	.24843	.15979	.24696
#1	3834.7	2811.6	26431.	2693.9
#2	3844.9	2821.5	26371.	2703.3

Sample Name: 190-27600-G-10-A Acquired: 12/28/2021 0:41:06 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00664**	**-.00271**	**.24432**	**.23830**
Stddev	.00021	.01250	.00030	.00052	.00031
%RSD	61.270	188.22	11.225	.21422	.13200
#1	.00048	.00220	-.00292	.24395	.23808
#2	.00019	-.01547	-.00249	.24469	.23852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**147.06**	**.00043**	**-.0309**	**.00001**
Stddev	.00006	.30	.00002	.0368	.00002
%RSD	72.375	.20537	4.4567	119.0	154.40
#1	.00013	146.84	.00044	-.0049	.00003
#2	.00004	147.27	.00041	-.0570	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00293**	**1.5110**	**2.0651**	**.01411**
Stddev	.00011	.00019	.0018	.0014	.00008
%RSD	23.484	6.4172	.12184	.06734	.56129
#1	.00040	.00279	1.5097	2.0641	.01417
#2	.00056	.00306	1.5123	2.0661	.01405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-10-A Acquired: 12/28/2021 0:41:06 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.071**	**.05077**	**.00216**	**125.03**	**.00115**
Stddev	.047	.00012	.00022	.06	.00001
%RSD	.12653	.22766	10.269	.04492	1.0362
#1	37.038	.05069	.00200	125.07	.00114
#2	37.105	.05086	.00232	124.99	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00760**	**19.911**	**.00077**	**-.00004**
Stddev	.00	.00034	.021	.00104	.00126
%RSD	.0013	4.4426	.10728	135.99	3255.6
#1	25.02	.00736	19.896	.00003	-.00093
#2	25.02	.00784	19.926	.00150	.00085
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.2446**	**.00014**	**.26399**	**1.005**	**.00125**
Stddev	.0237	.00001	.00027	.003	.00023
%RSD	.37960	5.2548	.10340	.2992	18.438
#1	6.2279	.00013	.26419	1.007	.00109
#2	6.2614	.00014	.26380	1.003	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-10-A Acquired: 12/28/2021 0:41:06 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00159**	**-.00102**	**3.3883**	**1.001**
Stddev	.00132	.00004	.0046	.001
%RSD	83.001	4.2331	.13640	.1256
#1	.00252	-.00099	3.3850	1.002
#2	.00065	-.00105	3.3915	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3316.9**	**2679.9**	**24884.**	**2740.5**
Stddev	2.5	2.1	42.	5.6
%RSD	.07482	.07935	.16850	.20254
#1	3318.7	2681.4	24914.	2744.4
#2	3315.2	2678.3	24855.	2736.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.712%	93.262%	93.649%	101.80%
Range				

Sample Name: 190-27600-G-11-A Acquired: 12/28/2021 0:44:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**.00482**	**.05070**	**.27216**	**.40451**
Stddev	.00069	.00316	.00032	.00080	.00039
%RSD	102.65	65.435	.63135	.29481	.09640
#1	.00116	.00259	.05092	.27159	.40423
#2	.00018	.00706	.05047	.27272	.40478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**150.29**	**.00050**	**.0770**	**.00262**
Stddev	.00004	.29	.00008	.0350	.00023
%RSD	76.121	.19097	15.433	45.48	8.8943
#1	.00002	150.09	.00055	.1017	.00278
#2	.00007	150.49	.00044	.0522	.00245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00104**	**9.2011**	**15.575**	**.01501**
Stddev	.00061	.00041	.0048	.074	.00053
%RSD	300.33	39.658	.05262	.47196	3.5485
#1	.00063	.00075	9.1977	15.523	.01539
#2	-.00023	.00133	9.2045	15.627	.01463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-11-A Acquired: 12/28/2021 0:44:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.762**	**.08078**	**.00188**	**110.19**	**.00764**
Stddev	.019	.00016	.00014	.29	.00003
%RSD	.03763	.19877	7.2085	.26438	.35362
#1	50.775	.08066	.00178	109.99	.00762
#2	50.748	.08089	.00197	110.40	.00766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00373**	**2.5679**	**.00149**	**-.00049**
Stddev	.00	.00080	.0047	.00057	.00409
%RSD	.0010	21.458	.18453	38.397	839.68
#1	25.02	.00316	2.5713	.00189	-.00338
#2	25.02	.00429	2.5646	.00108	.00241
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.027**	**-.00067**	**.36819**	**.9977**	**.00049**
Stddev	.017	.00008	.00158	.0063	.00012
%RSD	.13970	12.598	.42962	.6333	25.240
#1	12.016	-.00061	.36707	1.002	.00041
#2	12.039	-.00073	.36930	.9933	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-11-A Acquired: 12/28/2021 0:44:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00347**	**-.00082**	**.00635**	**.9995**
Stddev	.00074	.00025	.00007	.0015
%RSD	21.288	30.553	1.1025	.1463
#1	.00295	-.00064	.00630	.9985
#2	.00399	-.00099	.00640	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3287.4**	**2664.0**	**24733.**	**2696.9**
Stddev	7.4	5.3	135.	8.5
%RSD	.22639	.19858	.54584	.31395
#1	3292.7	2667.7	24638.	2702.9
#2	3282.1	2660.2	24829.	2690.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.949%	92.710%	93.081%	100.18%
Range				

Sample Name: 190-27600-G-12-A Acquired: 12/28/2021 0:48:30 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.02652**	**-.00127**	**.10993**	**.26041**
Stddev	.00081	.03958	.00080	.00007	.00048
%RSD	302.41	149.22	63.427	.05934	.18458
#1	-.00085	-.00146	-.00070	.10989	.26075
#2	.00031	.05451	-.00183	.10998	.26007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**213.25**	**.00036**	**.0259**	**.00094**
Stddev	.00002	.00	.00012	.0405	.00008
%RSD	44.190	.00036	33.652	156.7	8.4984
#1	.00007	213.25	.00045	-.0028	.00088
#2	.00004	213.25	.00028	.0545	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**-.00041**	**.85435**	**5.5785**	**.02046**
Stddev	.00013	.00001	.01087	.0486	.00166
%RSD	35.618	2.5764	1.2727	.87141	8.1208
#1	.00028	-.00042	.86204	5.6129	.01928
#2	.00046	-.00041	.84666	5.5442	.02163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-12-A Acquired: 12/28/2021 0:48:30 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.738**	**.48163**	**.00039**	**352.87**	**.00243**
Stddev	.082	.00132	.00013	.21	.00017
%RSD	.18784	.27349	32.037	.05950	6.8184
#1	43.796	.48256	.00048	352.72	.00254
#2	43.680	.48069	.00030	353.02	.00231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00330**	**28.934**	**.00082**	**.00457**
Stddev	.00	.00060	.009	.00021	.00026
%RSD	.0059	18.128	.02946	25.945	5.6038
#1	25.02	.00372	28.940	.00097	.00439
#2	25.02	.00288	28.928	.00067	.00475
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.0695**	**-.00025**	**1.2465**	**.9965**	**.00168**
Stddev	.0186	.00021	.0023	.0086	.00037
%RSD	.30693	86.326	.18293	.8636	21.949
#1	6.0563	-.00040	1.2481	1.003	.00195
#2	6.0827	-.00010	1.2449	.9904	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-12-A Acquired: 12/28/2021 0:48:30 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00193**	**-.00036**	**.43526**	**1.000**
Stddev	.00029	.00010	.00015	.000
%RSD	15.001	28.924	.03461	.0237
#1	.00173	-.00029	.43537	1.000
#2	.00214	-.00043	.43516	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3120.2**	**2577.4**	**23945.**	**2644.3**
Stddev	2.1	.1	9.	17.5
%RSD	.06824	.00461	.03698	.66208
#1	3118.7	2577.5	23951.	2656.7
#2	3121.7	2577.3	23938.	2631.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.627%	89.696%	90.113%	98.227%
Range				

Sample Name: 190-27600-G-13-A Acquired: 12/28/2021 0:52:19 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00918**	**.02828**	**.14706**	**.18029**
Stddev	.00047	.00534	.00134	.00038	.00045
%RSD	327.81	58.151	4.7517	.25576	.24725
#1	-.00048	.00541	.02923	.14680	.18060
#2	.00019	.01296	.02733	.14733	.17997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**69.546**	**.00049**	**.0030**	**-.00000**
Stddev	.00003	.052	.00015	.0089	.00019
%RSD	114.35	.07482	31.408	293.7	4544.3
#1	-.00001	69.509	.00059	-.0033	-.00014
#2	-.00005	69.582	.00038	.0093	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00102**	**1.4724**	**1.6964**	**.01705**
Stddev	.00000	.00011	.0003	.0362	.00299
%RSD	.12405	11.301	.01997	2.1309	17.529
#1	.00027	.00110	1.4726	1.6708	.01916
#2	.00028	.00093	1.4722	1.7219	.01494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-13-A Acquired: 12/28/2021 0:52:19 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.420**	**.01634**	**.02206**	**28.048**	**.00029**
Stddev	.025	.00002	.00002	.051	.00027
%RSD	.08305	.11869	.09279	.18333	91.150
#1	30.437	.01633	.02208	28.012	.00048
#2	30.402	.01635	.02205	28.084	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00289**	**5.0965**	**.00062**	**-.00099**
Stddev	.00	.00001	.0012	.00314	.00018
%RSD	.0073	.35106	.02379	505.01	18.289
#1	25.02	.00288	5.0957	-.00160	-.00087
#2	25.02	.00290	5.0974	.00285	-.00112
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4851**	**-.00031**	**.66613**	**.9912**	**.00043**
Stddev	.0183	.00029	.00077	.0011	.00056
%RSD	.19253	93.225	.11500	.1121	128.18
#1	9.4981	-.00052	.66668	.9905	.00004
#2	9.4722	-.00011	.66559	.9920	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-13-A Acquired: 12/28/2021 0:52:19 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00093**	**-.00023**	**.23312**	**1.000**
Stddev	.00107	.00012	.00037	.000
%RSD	115.68	53.041	.16083	.0191
#1	.00169	-.00014	.23338	.9999
#2	.00017	-.00031	.23285	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3487.5**	**2716.9**	**25489.**	**2703.7**
Stddev	1.1	4.5	102.	31.7
%RSD	.03098	.16664	.40042	1.1733
#1	3486.8	2720.1	25561.	2726.2
#2	3488.3	2713.7	25417.	2681.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.121%	94.553%	95.925%	100.44%
Range				

Sample Name: 190-27600-G-14-A Acquired: 12/28/2021 0:56:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**-.02282**	**-.00161**	**.02799**	**.16836**
Stddev	.00125	.02294	.00107	.00023	.00017
%RSD	434.64	100.53	66.291	.80743	.10300
#1	.00117	-.00660	-.00236	.02815	.16848
#2	-.00060	-.03903	-.00086	.02783	.16824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**93.688**	**.00036**	**.0533**	**.00004**
Stddev	.00012	.267	.00010	.0114	.00011
%RSD	293.74	.28481	28.818	21.47	248.05
#1	.00004	93.499	.00029	.0614	-.00003
#2	-.00012	93.877	.00044	.0452	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00196**	**.97136**	**1.0812**	**.01269**
Stddev	.00047	.00084	.00021	.0011	.00045
%RSD	200.32	42.631	.02112	.10429	3.5597
#1	.00057	.00255	.97150	1.0819	.01237
#2	-.00010	.00137	.97121	1.0804	.01301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-14-A Acquired: 12/28/2021 0:56:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.600**	**.01943**	**.00353**	**13.165**	**-.00040**
Stddev	.042	.00012	.00026	.023	.00029
%RSD	.14079	.62295	7.2453	.17547	73.785
#1	29.630	.01935	.00335	13.149	-.00061
#2	29.571	.01952	.00371	13.182	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00256**	**6.8737**	**-.00037**	**.00082**
Stddev	.00	.00115	.0013	.00023	.00118
%RSD	.0032	45.124	.01893	60.370	144.37
#1	25.02	.00337	6.8746	-.00053	.00165
#2	25.02	.00174	6.8728	-.00021	-.00002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1591**	**-.00063**	**.34186**	**.9971**	**.00058**
Stddev	.0082	.00004	.00131	.0053	.00044
%RSD	.11454	6.3076	.38389	.5356	75.410
#1	7.1533	-.00066	.34093	.9933	.00027
#2	7.1649	-.00060	.34278	1.001	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-14-A Acquired: 12/28/2021 0:56:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00049**	**.08457**	**1.000**
Stddev	.00018	.00009	.00117	.001
%RSD	89.952	18.318	1.3806	.1233
#1	-.00033	-.00042	.08539	.9995
#2	-.00007	-.00055	.08374	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3532.3**	**2766.1**	**25807.**	**2801.9**
Stddev	1.8	4.5	72.	8.1
%RSD	.04985	.16203	.28060	.28969
#1	3531.0	2762.9	25756.	2807.7
#2	3533.5	2769.3	25858.	2796.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.276%	96.264%	97.122%	104.08%
Range				

Sample Name: 190-27600-G-15-A Acquired: 12/28/2021 0:59:45 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.01970**	**-.00080**	**.09255**	**.05169**
Stddev	.00019	.02429	.00251	.00004	.00003
%RSD	38.329	123.30	311.58	.04361	.06148
#1	-.00036	.00252	-.00258	.09252	.05171
#2	-.00063	.03687	.00097	.09258	.05167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**193.20**	**.00005**	**.0151**	**.00020**
Stddev	.00007	.41	.00011	.0012	.00002
%RSD	653.48	.20975	225.41	7.859	12.204
#1	.00004	193.49	.00013	.0143	.00022
#2	-.00006	192.92	-.00003	.0159	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00147**	**.06854**	**5.5774**	**.01129**
Stddev	.00001	.00051	.00199	.0253	.00058
%RSD	.56221	34.789	2.8973	.45271	5.1453
#1	.00092	.00111	.06714	5.5953	.01088
#2	.00091	.00183	.06995	5.5596	.01171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-15-A Acquired: 12/28/2021 0:59:45 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.918**	**.00473**	**-.00007**	**238.61**	**.00078**
Stddev	.009	.00008	.00009	.79	.00004
%RSD	.04908	1.6475	134.08	.32902	5.3012
#1	17.924	.00479	-.00014	239.16	.00075
#2	17.912	.00468	-.00000	238.05	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00411**	**5.6794**	**.00130**	**-.00080**
Stddev	.00	.00054	.0031	.00058	.00145
%RSD	.0054	13.198	.05422	44.578	182.15
#1	25.02	.00372	5.6772	.00171	.00023
#2	25.02	.00449	5.6815	.00089	-.00182
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2119**	**-.00061**	**2.2666**	**.9887**	**.00260**
Stddev	.0119	.00058	.0046	.0086	.00017
%RSD	.22897	95.173	.20080	.8668	6.5426
#1	5.2035	-.00101	2.2698	.9826	.00248
#2	5.2204	-.00020	2.2633	.9948	.00272
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-15-A Acquired: 12/28/2021 0:59:45 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00258**	**-.00011**	**.00343**	**1.000**
Stddev	.00024	.00024	.00041	.000
%RSD	9.2856	224.97	12.013	.0439
#1	.00275	-.00028	.00314	1.001
#2	.00241	.00006	.00372	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3203.3**	**2630.9**	**24405.**	**2684.1**
Stddev	.6	1.5	100.	6.2
%RSD	.01807	.05676	.41163	.23142
#1	3202.9	2629.9	24334.	2679.7
#2	3203.7	2632.0	24476.	2688.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.776%	91.560%	91.847%	99.705%
Range				

Sample Name: 190-27600-G-16-A Acquired: 12/28/2021 1:03:30 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.01774**	**.01292**	**.25767**	**.25108**
Stddev	.00080	.02256	.00120	.00057	.00004
%RSD	892.06	127.18	9.3085	.22072	.01685
#1	.00065	.03369	.01377	.25807	.25105
#2	-.00047	.00179	.01207	.25727	.25111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**136.22**	**.00027**	**.0347**	**-.00023**
Stddev	.00018	.48	.00017	.0493	.00004
%RSD	1056.3	.35536	63.538	141.9	16.755
#1	-.00015	136.56	.00015	-.0001	-.00020
#2	.00011	135.88	.00039	.0696	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00050**	**3.3119**	**2.1612**	**.01297**
Stddev	.00008	.00015	.0054	.0051	.00064
%RSD	19.515	30.465	.16338	.23634	4.9092
#1	.00046	.00061	3.3157	2.1576	.01252
#2	.00035	.00039	3.3080	2.1648	.01342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-16-A Acquired: 12/28/2021 1:03:30 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.051**	**.25083**	**.00169**	**203.81**	**.00052**
Stddev	.022	.00040	.00030	.28	.00011
%RSD	.07756	.15809	17.426	.13741	21.911
#1	28.036	.25054	.00149	204.01	.00060
#2	28.066	.25111	.00190	203.61	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00282**	**24.152**	**-.00007**	**.00120**
Stddev	.00	.00019	.007	.00048	.00168
%RSD	.0004	6.6087	.02916	658.24	140.22
#1	25.02	.00269	24.147	.00027	.00001
#2	25.02	.00296	24.157	-.00042	.00239
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.4095**	**-.00026**	**.29780**	**.9978**	**.00021**
Stddev	.0392	.00012	.00141	.0069	.00005
%RSD	.46658	46.604	.47427	.6916	22.505
#1	8.4373	-.00035	.29879	.9930	.00025
#2	8.3818	-.00018	.29680	1.003	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-27600-G-16-A Acquired: 12/28/2021 1:03:30 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00214**	**-.00105**	**1.1290**	**1.001**
Stddev	.00051	.00009	.0029	.001
%RSD	23.883	8.3312	.25368	.1214
#1	.00178	-.00099	1.1310	1.001
#2	.00250	-.00111	1.1270	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3261.5**	**2638.8**	**24469.**	**2665.7**
Stddev	.2	4.2	19.	4.4
%RSD	.00526	.15773	.07590	.16346
#1	3261.4	2641.7	24456.	2662.7
#2	3261.6	2635.8	24483.	2668.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.280%	91.833%	92.088%	99.024%
Range				

Sample Name: MB 480-610022/1-A Acquired: 12/28/2021 1:07:11 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.00138**	**-.00096**	F **-.01134**	**.00001**
Stddev	.00029	.02515	.00074	.00006	.00001
%RSD	122.50	1822.0	76.220	.48848	122.94
#1	.00044	.01640	-.00044	-.01130	.00000
#2	.00003	-.01916	-.00148	-.01138	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.00800	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.01326**	**-.00008**	**.0468**	**.00006**
Stddev	.00011	.00306	.00018	.0142	.00008
%RSD	148.33	23.038	231.49	30.42	128.40
#1	.00015	.01542	.00005	.0569	.00001
#2	-.00000	.01110	-.00021	.0368	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00162**	**-.00002**	**-.12374**	**.00160**
Stddev	.00044	.00064	.00045	.04732	.00005
%RSD	197.40	39.735	2974.3	38.245	2.8848
#1	-.00009	.00207	-.00033	-.15720	.00163
#2	.00054	.00116	.00030	-.09027	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-610022/1-A Acquired: 12/28/2021 1:07:11 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00080**	**-.00003**	**-.00027**	**-.00272**	**-.00026**
Stddev	.00036	.00008	.00010	.00695	.00007
%RSD	44.746	251.58	38.585	255.45	27.236
#1	-.00055	-.00009	-.00019	.00219	-.00031
#2	-.00106	.00003	-.00034	-.00763	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00064**	**.00331**	**.00110**	**.00282**
Stddev	.00	.00062	.00310	.00177	.00102
%RSD	.0047	97.635	93.545	160.24	36.267
#1	25.02	.00108	.00550	-.00015	.00210
#2	25.02	.00020	.00112	.00235	.00354
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.00044**	**.00020**	**.9948**	**-.00020**
Stddev	.00424	.00018	.00004	.0091	.00015
%RSD	1794.2	41.087	18.783	.9179	75.390
#1	.00324	-.00056	.00017	1.001	-.00009
#2	-.00276	-.00031	.00023	.9883	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-610022/1-A Acquired: 12/28/2021 1:07:11 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00144**	**.00013**	**-.00011**	**.9994**
Stddev	.00076	.00012	.00037	.0012
%RSD	52.410	95.794	344.62	.1177
#1	.00198	.00004	-.00037	.9986
#2	.00091	.00022	.00015	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3856.4**	**2819.9**	**26604.**	**2707.1**
Stddev	13.3	6.4	47.	2.2
%RSD	.34539	.22865	.17776	.08246
#1	3847.0	2815.4	26637.	2708.7
#2	3865.8	2824.5	26571.	2705.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.652%	98.137%	100.12%	100.56%
Range				

Sample Name: LCS 480-610022/2-A Acquired: 12/28/2021 1:10:58 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04870**	**9.7343**	**.20291**	**.19008**	**.20150**
Stddev	.00083	.0493	.00190	.00024	.00044
%RSD	1.7054	.50645	.93880	.12419	.21718
#1	.04929	9.6994	.20156	.18991	.20119
#2	.04811	9.7691	.20426	.19025	.20181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20247**	**9.6155**	**.19874**	**.0173**	**.18636**
Stddev	.00057	.0454	.00030	.0437	.00016
%RSD	.28390	.47254	.15030	252.3	.08712
#1	.20206	9.5834	.19895	-.0136	.18625
#2	.20287	9.6476	.19853	.0483	.18648
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19042**	**.19693**	**9.8369**	**9.3606**	**.19440**
Stddev	.00032	.00110	.0578	.0066	.00098
%RSD	.16825	.56016	.58740	.07025	.50473
#1	.19065	.19615	9.7961	9.3560	.19510
#2	.19020	.19771	9.8778	9.3653	.19371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-610022/2-A Acquired: 12/28/2021 1:10:58 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7863**	**.20131**	**.20113**	**9.5675**	**.18735**
Stddev	.0330	.00023	.00042	.0378	.00071
%RSD	.33682	.11350	.21030	.39476	.37771
#1	9.7630	.20115	.20143	9.5408	.18685
#2	9.8096	.20147	.20083	9.5942	.18785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.67**	**.19188**	**9.5265**	**.21294**	**.19321**
Stddev	.00	.00063	.0130	.00331	.00067
%RSD	.0024	.32715	.13613	1.5555	.34753
#1	24.67	.19233	9.5174	.21060	.19273
#2	24.67	.19144	9.5357	.21528	.19368
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4390**	**.18034**	**.19964**	**.9948**	**.19604**
Stddev	.0538	.00072	.00059	.0022	.00003
%RSD	.57044	.40070	.29503	.2226	.01514
#1	9.4009	.17983	.19922	.9964	.19602
#2	9.4771	.18085	.20005	.9933	.19606
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-610022/2-A Acquired: 12/28/2021 1:10:58 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19478**	**.19083**	**.19417**	**1.007**
Stddev	.00062	.00123	.00013	.001
%RSD	.31747	.64199	.06616	.0627
#1	.19434	.19170	.19408	1.007
#2	.19522	.18997	.19426	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3696.6**	**2842.2**	**26562.**	**2814.5**
Stddev	2.6	2.0	13.	17.1
%RSD	.07125	.06867	.04918	.60727
#1	3698.5	2840.8	26553.	2826.6
#2	3694.8	2843.6	26571.	2802.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.523%	98.913%	99.963%	104.55%
Range				

Sample Name: CCV-6824595 Acquired: 12/28/2021 1:14:35 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0023**	**50.761**	**1.0194**	**1.0393**	**1.0008**
Stddev	.0019	.002	.0002	.0005	.0026
%RSD	.19358	.00389	.01753	.04625	.26256
#1	1.0037	50.763	1.0193	1.0397	1.0027
#2	1.0010	50.760	1.0195	1.0390	.99897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0152**	**50.183**	**1.0108**	**1.061**	**.98251**
Stddev	.0007	.083	.0012	.045	.00012
%RSD	.07108	.16448	.12004	4.231	.01259
#1	1.0157	50.242	1.0117	1.029	.98260
#2	1.0146	50.125	1.0099	1.093	.98243
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0094**	**.99898**	**50.308**	**49.437**	**1.0025**
Stddev	.0039	.00012	.273	.149	.0013
%RSD	.38574	.01230	.54258	.30132	.12930
#1	1.0121	.99889	50.501	49.542	1.0016
#2	1.0066	.99907	50.115	49.332	1.0034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/28/2021 1:14:35 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.908**	**.99867**	**1.0270**	**50.053**	**.99099**
Stddev	.067	.00004	.0005	.006	.00276
%RSD	.13642	.00421	.05138	.01222	.27817
#1	48.955	.99870	1.0266	50.057	.99294
#2	48.861	.99864	1.0273	50.048	.98904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.86**	**.98436**	**25.467**	**1.0210**	**1.0130**
Stddev	.01	.00124	.024	.0070	.0008
%RSD	.0323	.12557	.09302	.68686	.07823
#1	37.87	.98523	25.483	1.0259	1.0124
#2	37.85	.98348	25.450	1.0160	1.0135
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.128**	**.98713**	**1.0073**	**1.514**	**1.0064**
Stddev	.034	.00234	.0012	.007	.0011
%RSD	.33561	.23655	.12062	.4649	.11155
#1	10.104	.98548	1.0082	1.509	1.0072
#2	10.152	.98878	1.0065	1.519	1.0056
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/28/2021 1:14:35 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99897**	**1.0079**	**1.0292**	**1.532**
Stddev	.00154	.0008	.0023	.003
%RSD	.15366	.08201	.22588	.1775
#1	.99789	1.0085	1.0308	1.534
#2	1.0001	1.0074	1.0276	1.530
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3315.9**	**2728.9**	**24938.**	**2706.3**
Stddev	9.4	7.2	85.	13.4
%RSD	.28402	.26270	.34126	.49327
#1	3322.5	2734.0	24878.	2696.9
#2	3309.2	2723.9	24999.	2715.8

Sample Name: CCB-6825508 Acquired: 12/28/2021 1:18:08 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00222**	**.00029**	**-.00984**	**.00005**
Stddev	.00008	.02825	.00026	.00018	.00003
%RSD	30.539	1273.8	89.537	1.8002	56.498
#1	.00033	-.01776	.00048	-.00996	.00003
#2	.00021	.02220	.00011	-.00971	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00277**	**.00001**	**.0348**	**.00020**
Stddev	.00000	.00001	.00020	.0105	.00004
%RSD	67.761	.45256	2812.7	30.09	20.410
#1	.00000	.00278	.00015	.0274	.00017
#2	.00001	.00276	-.00013	.0422	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00019**	**.00085**	**-.08755**	**.00051**
Stddev	.00001	.00017	.00070	.02937	.00301
%RSD	4.4253	89.179	82.476	33.550	590.73
#1	.00023	.00007	.00134	-.10832	-.00162
#2	.00025	.00031	.00035	-.06678	.00264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/28/2021 1:18:08 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00134**	**-.00007**	**.00128**	**-.00848**	**.00015**
Stddev	.00155	.00000	.00020	.01435	.00006
%RSD	115.76	3.8113	15.539	169.18	38.920
#1	-.00024	-.00007	.00114	.00166	.00019
#2	-.00244	-.00007	.00142	-.01862	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00033**	**-.00305**	**.00075**	**.00489**
Stddev	.00	.00092	.00148	.00138	.00055
%RSD	.0005	278.67	48.467	183.83	11.235
#1	25.02	-.00032	-.00200	.00172	.00450
#2	25.02	.00098	-.00409	-.00022	.00528
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00393**	**-.00030**	**.00023**	**.9994**	**-.00047**
Stddev	.00417	.00009	.00005	.0034	.00025
%RSD	106.18	31.636	23.183	.3395	52.163
#1	.00098	-.00023	.00019	1.002	-.00065
#2	.00688	-.00036	.00026	.9970	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/28/2021 1:18:08 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00134**	**.00006**	**-.00032**	**1.000**
Stddev	.00008	.00031	.00002	.001
%RSD	6.1410	528.46	6.3971	.0869
#1	.00140	-.00016	-.00031	1.001
#2	.00128	.00028	-.00034	.9997
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3802.6**	**2793.3**	**26261.**	**2643.8**
Stddev	7.8	.5	87.	4.8
%RSD	.20495	.01810	.33019	.18084
#1	3797.1	2793.7	26322.	2647.2
#2	3808.1	2793.0	26199.	2640.4

Sample Name: CCVL-6825510 Acquired: 12/28/2021 1:21:56 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00538**	**.17891**	**.01354**	F **.00923**	**.00203**
Stddev	.00007	.00106	.00050	.00011	.00003
%RSD	1.2130	.59279	3.7067	1.2040	1.6346
#1	.00543	.17816	.01389	.00931	.00205
#2	.00534	.17966	.01318	.00915	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				-50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.50003**	**.00199**	**.0422**	**.00372**
Stddev	.00008	.00845	.00006	.0358	.00020
%RSD	3.7916	1.6900	3.1046	84.79	5.3314
#1	.00200	.49405	.00204	.0675	.00386
#2	.00211	.50600	.00195	.0169	.00358
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00382**	**.01036**	**.05050**	W **.34879**	**.03171**
Stddev	.00038	.00031	.00158	.02373	.00019
%RSD	9.9757	2.9534	3.1311	6.8027	.58541
#1	.00409	.01058	.04938	.33201	.03158
#2	.00355	.01015	.05162	.36557	.03184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.50000	
Range				-30.000%	

Sample Name: CCVL-6825510 Acquired: 12/28/2021 1:21:56 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18040**	**.00296**	**.01045**	**.93980**	**.00944**
Stddev	.00189	.00003	.00017	.02103	.00049
%RSD	1.0461	.84751	1.5898	2.2374	5.2185
#1	.18173	.00295	.01057	.95466	.00909
#2	.17906	.00298	.01033	.92493	.00978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00974**	**.18340**	**.02180**	**.02372**
Stddev	.00	.00017	.00153	.00078	.00132
%RSD	.0003	1.7279	.83572	3.5609	5.5551
#1	25.00	.00962	.18231	.02125	.02465
#2	25.00	.00986	.18448	.02234	.02278
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49726**	**.00862**	**.00512**	F **.9942**	**.00439**
Stddev	.01589	.00010	.00001	.0078	.00058
%RSD	3.1965	1.1908	.23214	.7858	13.244
#1	.50850	.00869	.00513	.9886	.00480
#2	.48602	.00855	.00511	.9997	.00398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/28/2021 1:21:56 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.01876**	**.00453**	**.00916**	F **1.001**
Stddev	.00092	.00006	.00011	.001
%RSD	4.9245	1.2446	1.1524	.1144
#1	.01811	.00449	.00923	1.002
#2	.01942	.00457	.00909	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3830.5**	**2819.0**	**26534.**	**2708.2**
Stddev	7.3	1.1	14.	.5
%RSD	.19033	.04019	.05384	.01733
#1	3825.3	2818.2	26524.	2707.9
#2	3835.7	2819.8	26544.	2708.6

Sample Name: LCSD 480-610022/3-A Acquired: 12/28/2021 1:25:43 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04909**	**10.051**	**.20854**	**.19550**	**.20675**
Stddev	.00062	.011	.00009	.00030	.00030
%RSD	1.2620	.10444	.04380	.15310	.14702
#1	.04866	10.059	.20861	.19529	.20654
#2	.04953	10.044	.20848	.19571	.20697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20959**	**9.8935**	**.20524**	**.0124**	**.19123**
Stddev	.00026	.0063	.00000	.0442	.00092
%RSD	.12445	.06403	.00030	356.7	.48366
#1	.20941	9.8980	.20524	-.0189	.19057
#2	.20978	9.8890	.20524	.0437	.19188
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19522**	**.20284**	**10.137**	**9.5923**	**.19965**
Stddev	.00059	.00013	.026	.0583	.00000
%RSD	.30369	.06222	.25555	.60742	.00042
#1	.19480	.20275	10.155	9.6335	.19965
#2	.19564	.20293	10.118	9.5511	.19965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-610022/3-A Acquired: 12/28/2021 1:25:43 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.013**	**.20653**	**.20800**	**9.7747**	**.19257**
Stddev	.024	.00047	.00016	.0147	.00119
%RSD	.23711	.22972	.07916	.15024	.62033
#1	9.9959	.20619	.20788	9.7851	.19172
#2	10.029	.20686	.20812	9.7643	.19341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.66**	**.19566**	**9.7206**	**.22162**	**.19833**
Stddev	.00	.00191	.0018	.00212	.00223
%RSD	.0062	.97664	.01850	.95463	1.1259
#1	24.66	.19431	9.7219	.22013	.19991
#2	24.66	.19701	9.7193	.22312	.19675
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7103**	**.18345**	**.20376**	**.9987**	**.20121**
Stddev	.0275	.00054	.00077	.0007	.00043
%RSD	.28361	.29511	.37960	.0672	.21318
#1	9.7298	.18306	.20430	.9982	.20090
#2	9.6909	.18383	.20321	.9992	.20151
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-610022/3-A Acquired: 12/28/2021 1:25:43 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19960**	**.19607**	**.19873**	**1.007**
Stddev	.00124	.00074	.00084	.000
%RSD	.62181	.37539	.42073	.0403
#1	.20048	.19555	.19814	1.006
#2	.19872	.19659	.19933	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3689.3**	**2825.5**	**26391.**	**2776.1**
Stddev	5.3	11.8	38.	14.6
%RSD	.14444	.41857	.14218	.52460
#1	3685.6	2817.1	26418.	2765.9
#2	3693.1	2833.8	26365.	2786.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.335%	98.330%	99.321%	103.13%
Range				

Sample Name: 480-193739-A-1-A Acquired: 12/28/2021 1:29:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**.01825**	**-.00170**	**.15012**	**.01644**
Stddev	.00059	.05739	.00024	.00027	.00001
%RSD	59.106	314.56	14.141	.18190	.05155
#1	.00058	.05883	-.00153	.14992	.01643
#2	.00141	-.02234	-.00187	.15031	.01645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**23.736**	**.00060**	**.0623**	**.00008**
Stddev	.00015	.107	.00006	.0114	.00016
%RSD	110.59	.45122	10.102	18.32	210.06
#1	.00025	23.660	.00065	.0542	.00019
#2	.00003	23.812	.00056	.0704	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00165**	**.01411**	**7.5201**	**.01208**
Stddev	.00007	.00033	.00076	.0664	.00108
%RSD	28.249	20.042	5.3634	.88305	8.9130
#1	.00019	.00188	.01357	7.4731	.01284
#2	.00029	.00142	.01464	7.5671	.01132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-1-A Acquired: 12/28/2021 1:29:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.340**	**.00195**	**.00260**	**93.836**	**.00002**
Stddev	.075	.00002	.00054	.425	.00006
%RSD	.13266	1.0513	20.605	.45277	241.79
#1	56.392	.00193	.00222	93.535	.00006
#2	56.287	.00196	.00298	94.136	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00027**	**37.251**	**.00178**	**.03955**
Stddev	.00	.00022	.028	.00078	.00169
%RSD	.0081	79.359	.07608	43.528	4.2779
#1	25.02	.00042	37.271	.00233	.04074
#2	25.02	.00012	37.231	.00123	.03835
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5396**	**-.00042**	**.39192**	**.9946**	**.00042**
Stddev	.0219	.00046	.00090	.0041	.00070
%RSD	1.4230	109.02	.23010	.4079	166.07
#1	1.5550	-.00075	.39129	.9974	-.00007
#2	1.5241	-.00010	.39256	.9917	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-1-A Acquired: 12/28/2021 1:29:18 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00186**	**-.00104**	**.04263**	**1.001**
Stddev	.00020	.00018	.00051	.001
%RSD	10.966	17.683	1.2031	.0922
#1	.00201	-.00117	.04299	1.002
#2	.00172	-.00091	.04227	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3452.2**	**2740.7**	**25426.**	**2754.1**
Stddev	6.4	3.5	71.	3.8
%RSD	.18489	.12628	.27827	.13703
#1	3456.7	2743.2	25476.	2756.8
#2	3447.7	2738.3	25376.	2751.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.207%	95.381%	95.687%	102.31%
Range				

Sample Name: 480-193739-A-1-ASD@5 Acquired: 12/28/2021 1:33:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00285**	**-.00111**	**.02080**	**.00338**
Stddev	.00035	.02493	.00116	.00018	.00001
%RSD	452.36	876.11	104.80	.85889	.16775
#1	.00017	.01478	-.00193	.02067	.00338
#2	-.00032	-.02047	-.00029	.02092	.00337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**4.8871**	**.00010**	**.0276**	**.00017**
Stddev	.00001	.0323	.00023	.0289	.00013
%RSD	99.037	.66083	224.51	104.9	77.855
#1	-.00002	4.8643	-.00006	.0071	.00008
#2	-.00000	4.9100	.00027	.0480	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00120**	**.00226**	**1.3548**	**.00599**
Stddev	.00013	.00065	.00246	.0472	.00045
%RSD	234.31	54.027	108.89	3.4811	7.4400
#1	-.00004	.00074	.00052	1.3215	.00567
#2	.00015	.00166	.00401	1.3882	.00630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-1-ASD@5 Acquired: 12/28/2021 1:33:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.967**	**.00043**	**.00045**	**18.557**	**.00003**
Stddev	.017	.00002	.00002	.125	.00005
%RSD	.15310	5.4652	3.5918	.67563	138.00
#1	10.956	.00045	.00046	18.469	.00000
#2	10.979	.00042	.00044	18.646	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00113**	**7.2247**	**.00059**	**.01056**
Stddev	.00	.00059	.0091	.00045	.00134
%RSD	.0009	52.038	.12642	75.901	12.663
#1	25.02	.00155	7.2182	.00091	.01150
#2	25.02	.00071	7.2311	.00027	.00961
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.31536**	**-.00017**	**.07887**	**.9891**	**-.00049**
Stddev	.01243	.00005	.00066	.0049	.00000
%RSD	3.9429	27.405	.84156	.4989	.03186
#1	.30657	-.00014	.07840	.9926	-.00049
#2	.32416	-.00020	.07933	.9856	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-1-ASD@5 Acquired: 12/28/2021 1:33:01 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00274**	**-.00041**	**.00833**	**1.001**
Stddev	.00134	.00002	.00046	.002
%RSD	49.142	4.2426	5.5745	.1485
#1	.00178	-.00042	.00800	.9998
#2	.00369	-.00039	.00866	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3671.8**	**2777.1**	**25788.**	**2679.6**
Stddev	23.0	12.4	33.	27.3
%RSD	.62730	.44776	.12814	1.0195
#1	3655.6	2768.3	25811.	2698.9
#2	3688.1	2785.9	25764.	2660.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.883%	96.647%	97.050%	99.538%
Range				

Sample Name: 480-193739-A-1-APDS Acquired: 12/28/2021 1:36:45 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04745**	**9.8590**	**.20774**	**.34670**	**.20980**
Stddev	.00041	.0474	.00085	.00046	.00108
%RSD	.87178	.48125	.40834	.13167	.51707
#1	.04774	9.8925	.20834	.34702	.20903
#2	.04716	9.8254	.20714	.34637	.21057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21217**	**32.739**	**.20136**	**.0685**	**.18984**
Stddev	.00004	.021	.00008	.0142	.00003
%RSD	.01665	.06524	.04190	20.73	.01726
#1	.21214	32.754	.20142	.0785	.18986
#2	.21219	32.724	.20130	.0585	.18981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19354**	**.19270**	**9.8102**	**17.011**	**.20886**
Stddev	.00116	.00120	.0319	.082	.00261
%RSD	.60109	.62208	.32507	.48270	1.2495
#1	.19272	.19185	9.7876	16.953	.21071
#2	.19437	.19355	9.8327	17.069	.20702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-1-APDS Acquired: 12/28/2021 1:36:45 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**63.432**	**.19773**	**.20757**	**102.68**	**.18982**
Stddev	.368	.00095	.00083	.74	.00005
%RSD	.58054	.48188	.39785	.72448	.02470
#1	63.171	.19706	.20816	102.15	.18986
#2	63.692	.19841	.20699	103.20	.18979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.64**	**.19486**	**45.512**	**.21069**	**.23062**
Stddev	.00	.00014	.050	.00140	.00025
%RSD	.0056	.07300	.10941	.66498	.10655
#1	24.64	.19496	45.548	.20970	.23045
#2	24.64	.19476	45.477	.21169	.23080
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.352**	**.19159**	**.57315**	**1.001**	**.19915**
Stddev	.037	.00130	.00027	.001	.00131
%RSD	.32628	.67798	.04740	.1254	.65961
#1	11.326	.19251	.57296	1.002	.19822
#2	11.378	.19067	.57334	1.000	.20008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-1-APDS Acquired: 12/28/2021 1:36:45 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19733**	**.19593**	**.23848**	**1.003**
Stddev	.00060	.00179	.00276	.003
%RSD	.30658	.91575	1.1554	.2532
#1	.19776	.19466	.23653	1.005
#2	.19691	.19719	.24043	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3381.9**	**2717.4**	**25223.**	**2706.2**
Stddev	2.1	5.5	145.	7.7
%RSD	.06220	.20137	.57672	.28303
#1	3380.4	2713.6	25326.	2700.8
#2	3383.4	2721.3	25120.	2711.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.392%	94.570%	94.924%	100.53%
Range				

Sample Name: 480-193739-A-2-A Acquired: 12/28/2021 1:40:20 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.01906**	**-.00141**	**.01819**	**.00650**
Stddev	.00019	.01652	.00106	.00003	.00000
%RSD	735.71	86.659	75.041	.14358	.05127
#1	.00011	-.00738	-.00216	.01817	.00650
#2	-.00016	-.03074	-.00066	.01821	.00650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**15.116**	**.00019**	**.0317**	**.00006**
Stddev	.00010	.050	.00012	.0051	.00010
%RSD	3061.6	.32913	63.077	16.21	159.00
#1	.00007	15.152	.00011	.0353	.00013
#2	-.00007	15.081	.00028	.0281	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00124**	**.34260**	**1.2342**	**.00428**
Stddev	.00017	.00049	.00363	.0534	.00105
%RSD	46.745	39.337	1.0590	4.3264	24.635
#1	.00024	.00159	.34517	1.2719	.00503
#2	.00048	.00090	.34004	1.1964	.00354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-2-A Acquired: 12/28/2021 1:40:20 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9852**	**.04607**	**.00061**	**16.476**	**.00049**
Stddev	.0138	.00022	.00004	.007	.00013
%RSD	.19736	.46832	6.1325	.04496	26.977
#1	6.9754	.04592	.00064	16.481	.00040
#2	6.9949	.04622	.00059	16.470	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00119**	**4.8344**	**.00122**	**.00241**
Stddev	.00	.00046	.0007	.00025	.00091
%RSD	.0017	38.425	.01477	20.816	37.763
#1	25.02	.00151	4.8339	.00104	.00306
#2	25.02	.00087	4.8349	.00139	.00177
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3817**	**-.00023**	**.04475**	**.9900**	**.00078**
Stddev	.0156	.00008	.00014	.0050	.00027
%RSD	.46209	33.220	.32234	.5078	34.572
#1	3.3706	-.00029	.04485	.9865	.00097
#2	3.3927	-.00018	.04465	.9936	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-2-A Acquired: 12/28/2021 1:40:20 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00160**	**-.00012**	**.04837**	**1.001**
Stddev	.00122	.00090	.00038	.000
%RSD	76.173	778.09	.79223	.0078
#1	.00074	.00052	.04864	1.001
#2	.00246	-.00076	.04810	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3679.9**	**2774.8**	**26196.**	**2735.7**
Stddev	7.0	4.1	34.	3.7
%RSD	.18957	.14886	.12972	.13438
#1	3675.0	2771.9	26220.	2733.1
#2	3684.9	2777.8	26172.	2738.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.092%	96.568%	98.585%	101.62%
Range				

Sample Name: 480-193739-A-3-A Acquired: 12/28/2021 1:44:04 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.02074**	**.00102**	**.03258**	**.01617**
Stddev	.00060	.02199	.00053	.00044	.00007
%RSD	77.230	106.05	51.980	1.3562	.40921
#1	.00035	.00519	.00140	.03227	.01622
#2	.00120	.03629	.00065	.03289	.01612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**53.635**	**.00066**	**.0678**	**.00015**
Stddev	.00006	.174	.00021	.0648	.00020
%RSD	161.26	.32507	32.061	95.67	131.23
#1	.00008	53.758	.00081	.0219	.00029
#2	-.00001	53.512	.00051	.1136	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00299**	**.16019**	**7.8046**	**.00946**
Stddev	.00011	.00071	.00328	.0762	.00224
%RSD	18.876	23.928	2.0501	.97643	23.671
#1	.00067	.00349	.16251	7.8585	.00788
#2	.00051	.00248	.15787	7.7507	.01104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-3-A Acquired: 12/28/2021 1:44:04 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**75.056**	**.07415**	**.00113**	**151.37**	**-.00014**
Stddev	.227	.00022	.00001	.37	.00018
%RSD	.30201	.30006	.68583	.24235	133.32
#1	75.216	.07431	.00113	151.63	-.00001
#2	74.896	.07400	.00112	151.11	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00210**	**61.550**	**.00023**	**.04882**
Stddev	.00	.00040	.002	.00004	.00085
%RSD	.0061	19.033	.00306	16.560	1.7417
#1	25.02	.00182	61.549	.00025	.04942
#2	25.02	.00238	61.551	.00020	.04822
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1742**	**-.00064**	**.19046**	**.9922**	**.00081**
Stddev	.0166	.00095	.00010	.0049	.00032
%RSD	.39795	148.06	.05080	.4951	39.714
#1	4.1624	-.00131	.19053	.9888	.00104
#2	4.1859	.00003	.19039	.9957	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-3-A Acquired: 12/28/2021 1:44:04 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00223**	**-.00101**	**.04381**	**1.001**
Stddev	.00020	.00019	.00053	.002
%RSD	8.9146	18.604	1.2087	.1550
#1	.00237	-.00114	.04344	1.002
#2	.00209	-.00087	.04419	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3357.3**	**2699.8**	**24771.**	**2714.6**
Stddev	5.3	4.7	16.	8.2
%RSD	.15875	.17449	.06628	.30280
#1	3353.6	2696.4	24783.	2708.7
#2	3361.1	2703.1	24760.	2720.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.756%	93.956%	93.225%	100.84%
Range				

Sample Name: 480-193739-A-4-A Acquired: 12/28/2021 1:47:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.01217**	**-.00251**	**.01966**	**.01228**
Stddev	.00024	.00178	.00021	.00037	.00007
%RSD	415.08	14.588	8.2197	1.8601	.56958
#1	.00011	-.01342	-.00236	.01992	.01233
#2	-.00022	-.01091	-.00265	.01941	.01223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**59.289**	**.00074**	**-.0062**	**.00072**
Stddev	.00002	.141	.00001	.0064	.00009
%RSD	251.99	.23819	1.3178	102.9	12.132
#1	.00002	59.189	.00075	-.0108	.00066
#2	-.00001	59.389	.00073	-.0017	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00121**	**.03013**	**5.3200**	**.00981**
Stddev	.00037	.00075	.00499	.0297	.00264
%RSD	69.162	61.886	16.545	.55756	26.884
#1	.00081	.00175	.03366	5.2990	.00794
#2	.00028	.00068	.02661	5.3410	.01167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-4-A Acquired: 12/28/2021 1:47:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**79.279**	**.12234**	**.00019**	**71.993**	**-.00042**
Stddev	.057	.00018	.00006	.258	.00018
%RSD	.07242	.15061	34.728	.35870	43.924
#1	79.238	.12221	.00014	71.810	-.00029
#2	79.319	.12247	.00023	72.175	-.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00164**	**86.377**	**.00093**	**.33891**
Stddev	.00	.00102	.006	.00166	.00040
%RSD	.0039	62.045	.00653	178.81	.11779
#1	25.02	.00236	86.381	-.00025	.33919
#2	25.02	.00092	86.373	.00210	.33862
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1276**	**-.00040**	**.30247**	**.9911**	**.00096**
Stddev	.0018	.00015	.00051	.0015	.00024
%RSD	.04468	35.911	.16979	.1476	24.539
#1	4.1289	-.00051	.30210	.9921	.00113
#2	4.1263	-.00030	.30283	.9901	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-4-A Acquired: 12/28/2021 1:47:48 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00190**	**-.00114**	**.05177**	**1.002**
Stddev	.00126	.00014	.00091	.001
%RSD	66.726	12.035	1.7523	.1370
#1	.00100	-.00124	.05241	1.003
#2	.00279	-.00105	.05112	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3395.5**	**2703.0**	**25108.**	**2715.4**
Stddev	5.2	3.2	53.	15.2
%RSD	.15445	.11948	.20988	.55818
#1	3399.2	2705.3	25145.	2726.2
#2	3391.8	2700.7	25070.	2704.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.742%	94.068%	94.490%	100.87%
Range				

Sample Name: 480-193739-A-5-A Acquired: 12/28/2021 1:51:32 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.03797**	**-.00060**	**.04270**	**.02200**
Stddev	.00010	.00224	.00051	.00022	.00006
%RSD	129.46	5.8991	84.892	.51286	.25510
#1	-.00015	.03956	-.00095	.04286	.02204
#2	-.00001	.03639	-.00024	.04255	.02196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**111.76**	**.00121**	**.0338**	**.00070**
Stddev	.00011	.13	.00016	.0389	.00008
%RSD	227.66	.11559	13.203	115.2	11.100
#1	-.00003	111.67	.00133	.0063	.00064
#2	.00013	111.85	.00110	.0612	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**.00255**	**.02673**	**20.006**	**.01550**
Stddev	.00039	.00015	.00040	.064	.00287
%RSD	44.737	6.0316	1.5044	.32042	18.513
#1	.00114	.00244	.02644	20.051	.01347
#2	.00059	.00266	.02701	19.961	.01753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-5-A Acquired: 12/28/2021 1:51:32 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**318.20**	**.01522**	**.00606**	**33.648**	**-.00011**
Stddev	1.85	.00009	.00002	.014	.00008
%RSD	.58169	.59040	.28836	.04024	77.994
#1	316.89	.01515	.00604	33.639	-.00005
#2	319.51	.01528	.00607	33.658	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00090**	F **363.17**	**.00172**	**.33191**
Stddev	.00	.00079	.21	.00053	.00205
%RSD	.0056	88.096	.05861	30.776	.61909
#1	25.03	.00146	363.32	.00209	.33337
#2	25.03	.00034	363.02	.00134	.33046
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.7489**	**-.00088**	**.42414**	**.9933**	**.00059**
Stddev	.0149	.00037	.00121	.0108	.00040
%RSD	.39619	42.549	.28500	1.090	68.603
#1	3.7594	-.00061	.42329	.9856	.00088
#2	3.7384	-.00114	.42500	1.001	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-5-A Acquired: 12/28/2021 1:51:32 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00157**	**-.00225**	**.05876**	**1.000**
Stddev	.00136	.00043	.00007	.002
%RSD	86.932	19.085	.11334	.1696
#1	.00253	-.00195	.05872	.9992
#2	.00060	-.00256	.05881	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3223.5**	**2605.5**	**24390.**	**2633.0**
Stddev	1.9	6.7	96.	8.5
%RSD	.05822	.25601	.39202	.32263
#1	3224.8	2610.2	24458.	2639.0
#2	3222.2	2600.8	24323.	2627.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.298%	90.675%	91.790%	97.807%
Range				

Sample Name: 480-193739-A-6-A Acquired: 12/28/2021 1:55:21 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.02608**	**-.00062**	**.10706**	**.00590**
Stddev	.00042	.00775	.00145	.00017	.00001
%RSD	39.914	29.707	235.27	.15744	.13278
#1	.00135	.03156	.00041	.10695	.00591
#2	.00076	.02060	-.00164	.10718	.00590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**37.221**	**.00064**	**.0316**	**.00010**
Stddev	.00001	.104	.00019	.0006	.00004
%RSD	157.75	.27940	30.338	1.995	40.630
#1	.00000	37.295	.00050	.0312	.00007
#2	-.00001	37.148	.00078	.0321	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00127**	**.02175**	**9.9657**	**.00888**
Stddev	.00007	.00066	.00080	.0572	.00255
%RSD	29.572	51.971	3.6798	.57399	28.739
#1	.00028	.00080	.02118	9.9252	.01068
#2	.00018	.00174	.02232	10.006	.00707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-6-A Acquired: 12/28/2021 1:55:21 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.828**	**.00227**	**.00232**	**335.62**	**-.00042**
Stddev	.154	.00001	.00024	1.12	.00024
%RSD	.22322	.23805	10.211	.33452	56.133
#1	68.720	.00227	.00215	336.41	-.00059
#2	68.937	.00226	.00249	334.83	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00103**	F **97.549**	**.00083**	**.06295**
Stddev	.00	.00010	.073	.00266	.00410
%RSD	.0018	10.086	.07466	319.75	6.5203
#1	25.04	.00110	97.601	-.00105	.06005
#2	25.04	.00096	97.498	.00271	.06585
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5991**	**-.00055**	**.22141**	**.9897**	**.00029**
Stddev	.0159	.00005	.00018	.0100	.00035
%RSD	.61084	8.2024	.08000	1.011	119.88
#1	2.5878	-.00058	.22154	.9968	.00054
#2	2.6103	-.00052	.22129	.9827	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-6-A Acquired: 12/28/2021 1:55:21 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.00056**	**.00574**	**1.001**
Stddev	.00248	.00022	.00047	.001
%RSD	374.79	38.306	8.2288	.1114
#1	-.00109	-.00041	.00608	1.001
#2	.00241	-.00072	.00541	.9999
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3231.2**	**2631.6**	**24460.**	**2640.1**
Stddev	.9	2.3	37.	24.5
%RSD	.02802	.08592	.15020	.92872
#1	3230.6	2633.2	24434.	2622.8
#2	3231.9	2630.0	24486.	2657.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.497%	91.583%	92.052%	98.073%
Range				

Sample Name: CCV-6824595 Acquired: 12/28/2021 1:59:15 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0119**	**50.625**	**1.0242**	**1.0420**	**1.0063**
Stddev	.0001	.132	.0069	.0018	.0006
%RSD	.01386	.26030	.67502	.17317	.05689
#1	1.0118	50.718	1.0193	1.0407	1.0067
#2	1.0120	50.532	1.0291	1.0433	1.0059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0105**	**50.096**	**1.0184**	**1.085**	**.99068**
Stddev	.0009	.046	.0006	.034	.00050
%RSD	.08974	.09234	.06066	3.140	.05081
#1	1.0112	50.129	1.0179	1.061	.99032
#2	1.0099	50.064	1.0188	1.109	.99104
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0020**	**1.0066**	**50.266**	**49.594**	**1.0134**
Stddev	.0001	.0025	.009	.020	.0012
%RSD	.01298	.24782	.01797	.03953	.11938
#1	1.0019	1.0084	50.272	49.608	1.0143
#2	1.0021	1.0048	50.259	49.580	1.0126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/28/2021 1:59:15 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.325**	**1.0108**	**1.0288**	**50.477**	**.99927**
Stddev	.005	.0008	.0002	.101	.00051
%RSD	.01095	.07474	.02361	.19989	.05146
#1	49.321	1.0113	1.0286	50.549	.99964
#2	49.329	1.0103	1.0289	50.406	.99891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.88**	**.98962**	**25.540**	**1.0244**	**1.0157**
Stddev	.03	.00251	.038	.0010	.0035
%RSD	.0856	.25373	.14905	.09429	.34867
#1	37.86	.98784	25.513	1.0251	1.0132
#2	37.90	.99140	25.567	1.0238	1.0182
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.060**	**.98693**	**1.0178**	**1.517**	**1.0063**
Stddev	.056	.00180	.0005	.011	.0001
%RSD	.55880	.18243	.04814	.6906	.00923
#1	10.100	.98566	1.0181	1.509	1.0062
#2	10.020	.98821	1.0175	1.524	1.0063
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/28/2021 1:59:15 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.99733**	**1.0033**	**1.0173**	**1.532**
Stddev	.00021	.0009	.0014	.003
%RSD	.02090	.08883	.13361	.1828
#1	.99718	1.0040	1.0164	1.534
#2	.99748	1.0027	1.0183	1.530
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3347.6**	**2757.9**	**25173.**	**2724.0**
Stddev	4.1	2.6	89.	5.6
%RSD	.12323	.09467	.35301	.20466
#1	3344.7	2756.1	25110.	2720.0
#2	3350.5	2759.8	25236.	2727.9

Sample Name: CCB-6825508 Acquired: 12/28/2021 2:02:48 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.01427**	**-.00195**	**-.01026**	**.00002**
Stddev	.00042	.01660	.00239	.00014	.00003
%RSD	93.100	116.28	122.87	1.3966	153.88
#1	-.00075	-.00254	-.00364	-.01036	.00003
#2	-.00016	-.02601	-.00026	-.01016	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00057**	**.00010**	**.0013**	**.00016**
Stddev	.00009	.00137	.00012	.0048	.00016
%RSD	60.876	239.81	122.45	376.4	96.336
#1	.00009	.00154	.00018	-.0021	.00027
#2	.00022	-.00040	.00001	.0046	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00049**	**.00385**	**-.15301**	**.00034**
Stddev	.00000	.00042	.00019	.04703	.00069
%RSD	.42099	85.843	4.9879	30.737	204.50
#1	.00029	.00079	.00399	-.18626	.00083
#2	.00029	.00019	.00372	-.11975	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/28/2021 2:02:48 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.00006**	**.00134**	**-.00756**	**-.00006**
Stddev	.00376	.00001	.00025	.01721	.00026
%RSD	674.35	8.3092	18.921	227.52	424.11
#1	-.00322	-.00006	.00116	.00460	.00012
#2	.00210	-.00006	.00152	-.01973	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00058**	**.01591**	**.00178**	**.00293**
Stddev	.00	.00133	.00308	.00275	.00341
%RSD	.0068	228.69	19.373	154.40	116.13
#1	25.02	.00152	.01809	-.00016	.00534
#2	25.02	-.00036	.01373	.00373	.00052
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00347**	**.00009**	**-.00002**	**.9924**	**-.00032**
Stddev	.00982	.00002	.00001	.0042	.00016
%RSD	283.04	21.060	23.779	.4250	49.319
#1	-.00348	.00007	-.00002	.9894	-.00021
#2	.01042	.00010	-.00003	.9954	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/28/2021 2:02:48 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00121**	**.00015**	**-.00023**	**.9995**
Stddev	.00028	.00039	.00033	.0010
%RSD	22.876	258.94	142.65	.0961
#1	.00141	.00042	-.00047	.9988
#2	.00102	-.00012	.00000	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3817.6**	**2817.9**	**26417.**	**2702.1**
Stddev	13.2	12.6	3.	20.3
%RSD	.34538	.44754	.01130	.75276
#1	3826.9	2826.8	26415.	2687.8
#2	3808.2	2809.0	26419.	2716.5

Sample Name: CCVL-6825510 Acquired: 12/28/2021 2:06:38 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00547**	**.18115**	**.01155**	F **.00858**	**.00199**
Stddev	.00017	.01046	.00245	.00053	.00002
%RSD	3.0190	5.7727	21.185	6.1528	1.2214
#1	.00536	.17375	.01328	.00896	.00198
#2	.00559	.18854	.00982	.00821	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				-50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.50309**	**.00202**	**.0340**	**.00367**
Stddev	.00017	.00321	.00007	.0450	.00012
%RSD	8.4997	.63756	3.2590	132.1	3.3940
#1	.00191	.50536	.00198	.0658	.00376
#2	.00216	.50083	.00207	.0023	.00358
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00442**	**.01002**	**.04965**	**.38925**	**.03106**
Stddev	.00038	.00070	.00100	.03080	.00359
%RSD	8.6389	7.0350	2.0090	7.9139	11.546
#1	.00469	.01051	.05036	.41103	.03360
#2	.00415	.00952	.04895	.36747	.02852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-6825510 Acquired: 12/28/2021 2:06:38 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18537**	**.00287**	**.01015**	**.96477**	**.00937**
Stddev	.00348	.00000	.00005	.01431	.00025
%RSD	1.8790	.14598	.48931	1.4831	2.6625
#1	.18783	.00287	.01011	.97489	.00955
#2	.18290	.00288	.01018	.95465	.00919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00988**	**.19409**	**.02206**	**.02609**
Stddev	.00	.00011	.00076	.00219	.00045
%RSD	.0034	1.0678	.39391	9.9351	1.7227
#1	25.00	.00996	.19355	.02051	.02640
#2	25.00	.00981	.19463	.02361	.02577
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49810**	**.00849**	**.00494**	F **.9986**	**.00454**
Stddev	.00538	.00018	.00003	.0020	.00001
%RSD	1.0799	2.0694	.57771	.2011	.30952
#1	.49430	.00836	.00496	.9972	.00455
#2	.50191	.00861	.00492	1.000	.00453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/28/2021 2:06:38 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02042**	**.00464**	**.01003**	F **1.000**
Stddev	.00004	.00026	.00018	.001
%RSD	.18267	5.6368	1.7999	.0764
#1	.02045	.00482	.01016	1.001
#2	.02040	.00445	.00990	.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3791.8**	**2797.9**	**26204.**	**2646.0**
Stddev	2.7	1.4	158.	5.2
%RSD	.07010	.04840	.60391	.19502
#1	3789.9	2798.8	26316.	2642.3
#2	3793.7	2796.9	26092.	2649.6

Sample Name: 480-193739-A-7-A Acquired: 12/28/2021 2:10:25 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**-.03684**	**.00101**	**.07951**	**.01790**
Stddev	.00062	.05490	.00028	.00014	.00001
%RSD	126.72	149.04	27.781	.16999	.07904
#1	.00092	.00199	.00081	.07941	.01791
#2	.00005	-.07566	.00121	.07961	.01789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**51.211**	**.00063**	**.0479**	**.00018**
Stddev	.00009	.152	.00017	.0095	.00003
%RSD	112.27	.29619	27.406	19.76	17.358
#1	.00002	51.103	.00051	.0412	.00020
#2	.00015	51.318	.00076	.0546	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00223**	**.11266**	**9.4279**	**.00848**
Stddev	.00038	.00038	.00098	.0908	.00219
%RSD	71.194	16.885	.87366	.96269	25.813
#1	.00027	.00197	.11335	9.4921	.01002
#2	.00081	.00250	.11196	9.3638	.00693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-7-A Acquired: 12/28/2021 2:10:25 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**76.293**	**.01575**	**.00302**	**232.86**	**.00009**
Stddev	.059	.00019	.00012	.81	.00018
%RSD	.07787	1.2096	4.0858	.34652	199.02
#1	76.335	.01562	.00293	232.29	.00022
#2	76.251	.01589	.00311	233.43	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00026**	**79.437**	**.00023**	**.04508**
Stddev	.00	.00086	.048	.00020	.00475
%RSD	.0031	338.54	.06075	83.613	10.526
#1	25.02	.00087	79.471	.00037	.04173
#2	25.02	-.00036	79.403	.00010	.04844
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.0639**	**-.00093**	**.20798**	**.9928**	**.00105**
Stddev	.0058	.00029	.00019	.0119	.00019
%RSD	.14238	30.803	.08985	1.198	18.459
#1	4.0598	-.00114	.20812	1.001	.00092
#2	4.0679	-.00073	.20785	.9844	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193739-A-7-A Acquired: 12/28/2021 2:10:25 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00223**	**-.00080**	**.00633**	**1.000**
Stddev	.00101	.00080	.00009	.001
%RSD	45.560	99.222	1.3433	.0490
#1	.00295	-.00137	.00627	1.001
#2	.00151	-.00024	.00639	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3280.0**	**2649.4**	**24474.**	**2642.6**
Stddev	3.9	5.3	49.	10.2
%RSD	.11869	.19998	.20183	.38703
#1	3282.7	2653.2	24509.	2649.8
#2	3277.2	2645.7	24439.	2635.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.756%	92.204%	92.106%	98.163%
Range				

Sample Name: 480-193759-A-1-A Acquired: 12/28/2021 2:14:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00647**	**.00110**	**.05051**	**.01406**
Stddev	.00004	.01733	.00033	.00007	.00009
%RSD	18.807	267.85	29.876	.13589	.66034
#1	.00018	.01872	.00087	.05056	.01400
#2	.00024	-.00578	.00134	.05046	.01413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**60.924**	**.00090**	**.0574**	**.00027**
Stddev	.00003	.016	.00016	.0431	.00009
%RSD	93.398	.02611	18.230	75.03	31.850
#1	.00001	60.913	.00079	.0270	.00033
#2	.00006	60.935	.00102	.0879	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00313**	**.03090**	**13.871**	**.01025**
Stddev	.00002	.00001	.00141	.016	.00246
%RSD	4.9041	.41083	4.5483	.11535	23.976
#1	.00047	.00314	.02991	13.883	.00851
#2	.00050	.00312	.03189	13.860	.01198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193759-A-1-A Acquired: 12/28/2021 2:14:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**161.30**	**.00527**	**.00303**	**13.505**	**-.00018**
Stddev	.00	.00011	.00037	.042	.00037
%RSD	.00216	2.0345	12.339	.30785	211.58
#1	161.30	.00534	.00276	13.535	-.00044
#2	161.30	.00519	.00329	13.476	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00052**	F **131.59**	**.00143**	**.07509**
Stddev	.00	.00012	.29	.00130	.00179
%RSD	.0011	23.238	.21919	91.337	2.3812
#1	25.03	.00061	131.38	.00235	.07383
#2	25.02	.00044	131.79	.00050	.07636
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8349**	**-.00026**	**.28708**	**.9945**	**.00116**
Stddev	.0180	.00053	.00060	.0127	.00011
%RSD	.63318	206.87	.20909	1.275	9.1615
#1	2.8222	.00012	.28751	1.004	.00124
#2	2.8476	-.00063	.28666	.9856	.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193759-A-1-A Acquired: 12/28/2021 2:14:09 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00097**	**-.00051**	**.00394**	**1.002**
Stddev	.00097	.00069	.00013	.002
%RSD	100.08	134.07	3.2776	.1664
#1	.00028	-.00100	.00385	1.003
#2	.00165	-.00003	.00404	1.000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3394.7**	**2706.2**	**25320.**	**2722.5**
Stddev	8.2	8.0	105.	13.6
%RSD	.24136	.29480	.41272	.49847
#1	3388.9	2700.6	25247.	2732.1
#2	3400.5	2711.9	25394.	2712.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.722%	94.180%	95.291%	101.13%
Range				

Sample Name: 480-193759-A-2-A Acquired: 12/28/2021 2:17:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.10829**	**-.00115**	**.00488**	**.01329**
Stddev	.00023	.00593	.00016	.00036	.00001
%RSD	141.72	5.4725	14.323	7.3194	.09080
#1	.00032	.10410	-.00103	.00514	.01328
#2	-.00000	.11248	-.00126	.00463	.01330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**39.962**	**.00022**	**-.0006**	**.00016**
Stddev	.00021	.175	.00012	.0526	.00023
%RSD	283.43	.43680	53.905	9109.	147.87
#1	.00022	40.085	.00013	.0366	.00032
#2	-.00007	39.838	.00030	-.0377	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00159**	**.59663**	**1.9212**	**.00567**
Stddev	.00044	.00136	.00037	.1012	.00149
%RSD	125.85	85.141	.06262	5.2662	26.354
#1	.00004	.00255	.59637	1.8497	.00461
#2	.00066	.00063	.59690	1.9927	.00673
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193759-A-2-A Acquired: 12/28/2021 2:17:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.386**	**.13859**	**-.00040**	**6.3961**	**.00017**
Stddev	.030	.00034	.00006	.0326	.00009
%RSD	.14859	.24399	15.487	.50995	54.206
#1	20.407	.13882	-.00044	6.4191	.00011
#2	20.364	.13835	-.00035	6.3730	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00386**	**27.431**	**.00001**	**.00455**
Stddev	.00	.00126	.023	.00190	.00018
%RSD	.0116	32.612	.08519	24928.	3.8673
#1	25.03	.00475	27.447	-.00134	.00467
#2	25.02	.00297	27.414	.00135	.00442
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4290**	**-.00044**	**.11463**	**.9975**	**.00414**
Stddev	.0102	.00047	.00019	.0025	.00026
%RSD	.15845	108.23	.17009	.2514	6.3686
#1	6.4218	-.00077	.11449	.9957	.00395
#2	6.4362	-.00010	.11477	.9992	.00433
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193759-A-2-A Acquired: 12/28/2021 2:17:53 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00221**	**-.00032**	**.00797**	**1.002**
Stddev	.00189	.00008	.00016	.002
%RSD	85.709	23.677	2.0022	.1489
#1	.00355	-.00038	.00808	1.001
#2	.00087	-.00027	.00786	1.003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3624.5**	**2785.4**	**25967.**	**2756.7**
Stddev	2.3	.3	11.	8.2
%RSD	.06353	.01227	.04407	.29573
#1	3622.9	2785.7	25975.	2750.9
#2	3626.1	2785.2	25959.	2762.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.660%	96.937%	97.725%	102.40%
Range				

Sample Name: 480-193759-A-3-A Acquired: 12/28/2021 2:21:37 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.63458**	**-.00169**	**.01115**	**.03342**
Stddev	.00045	.01946	.00041	.00021	.00003
%RSD	177.05	3.0666	24.486	1.8487	.08113
#1	.00058	.62082	-.00140	.01130	.03344
#2	-.00006	.64834	-.00199	.01101	.03341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**57.277**	**.00045**	**-.0067**	**.00166**
Stddev	.00008	.084	.00002	.0435	.00017
%RSD	126.52	.14670	4.0488	653.3	10.046
#1	.00012	57.218	.00046	.0241	.00154
#2	.00001	57.337	.00044	-.0374	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00036**	**6.3279**	**5.4699**	**.00836**
Stddev	.00049	.00004	.0070	.0381	.00001
%RSD	1044.7	10.854	.11079	.69657	.11403
#1	.00030	.00033	6.3229	5.4968	.00835
#2	-.00039	.00038	6.3328	5.4429	.00837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193759-A-3-A Acquired: 12/28/2021 2:21:37 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.053**	**2.3690**	**-.00026**	**5.4406**	**.00136**
Stddev	.077	.0041	.00014	.0121	.00012
%RSD	.24895	.17124	51.684	.22200	9.1017
#1	31.108	2.3719	-.00036	5.4321	.00127
#2	30.998	2.3661	-.00017	5.4491	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00210**	**55.302**	**.00045**	**-.00002**
Stddev	.00	.00066	.041	.00076	.00472
%RSD	.0038	31.243	.07467	168.60	27135.
#1	25.02	.00257	55.331	-.00009	.00332
#2	25.02	.00164	55.273	.00099	-.00335
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9070**	**-.00062**	**.14833**	**.9981**	**.00368**
Stddev	.0216	.00030	.00019	.0038	.00007
%RSD	.43959	48.881	.12912	.3771	1.8152
#1	4.8918	-.00040	.14819	.9955	.00372
#2	4.9223	-.00083	.14846	1.001	.00363
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193759-A-3-A Acquired: 12/28/2021 2:21:37 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00119**	**-.00056**	**.02483**	**.9975**
Stddev	.00007	.00006	.00071	.0010
%RSD	5.9985	10.876	2.8724	.1000
#1	.00124	-.00052	.02432	.9982
#2	.00114	-.00061	.02533	.9968
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3578.2**	**2766.7**	**25842.**	**2699.9**
Stddev	5.8	2.3	40.	4.9
%RSD	.16274	.08245	.15448	.18073
#1	3582.3	2768.3	25814.	2696.5
#2	3574.1	2765.0	25870.	2703.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.463%	96.283%	97.254%	100.29%
Range				

Sample Name: 480-193759-A-4-A Acquired: 12/28/2021 2:25:20 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**1.6132**	**-.00202**	**.00672**	**.04487**
Stddev	.00040	.0082	.00113	.00008	.00004
%RSD	94.229	.50814	56.194	1.1246	.09247
#1	.00014	1.6190	-.00121	.00667	.04490
#2	.00070	1.6074	-.00282	.00678	.04484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**25.589**	**.00013**	**.0925**	**.00140**
Stddev	.00002	.088	.00021	.0204	.00002
%RSD	1208.6	.34235	163.81	22.01	1.7263
#1	-.00001	25.650	-.00002	.0781	.00141
#2	.00002	25.527	.00028	.1069	.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00446**	**.00494**	**4.4902**	**8.7281**	**.00488**
Stddev	.00024	.00023	.0032	.0654	.00327
%RSD	5.4846	4.5851	.07186	.74973	66.929
#1	.00429	.00478	4.4925	8.6818	.00719
#2	.00463	.00510	4.4879	8.7743	.00257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193759-A-4-A Acquired: 12/28/2021 2:25:20 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.912**	**.13929**	**.00072**	**3.6782**	**.00186**
Stddev	.020	.00018	.00012	.0208	.00008
%RSD	.14366	.12973	17.312	.56471	4.4723
#1	13.926	.13941	.00063	3.6929	.00192
#2	13.898	.13916	.00081	3.6635	.00180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00114**	**11.043**	**.00024**	**.00173**
Stddev	.00	.00005	.031	.00005	.00071
%RSD	.0000	4.4176	.27912	19.539	41.301
#1	25.03	.00118	11.065	.00021	.00122
#2	25.03	.00111	11.021	.00027	.00223
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6203**	**-.00017**	**.07259**	**1.004**	**.09775**
Stddev	.0420	.00035	.00066	.004	.00418
%RSD	.90800	204.76	.90576	.4035	4.2755
#1	4.6500	-.00041	.07306	1.007	.10070
#2	4.5907	.00008	.07213	1.001	.09479
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193759-A-4-A Acquired: 12/28/2021 2:25:20 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00090**	**.00542**	**.00897**	**1.000**
Stddev	.00174	.00025	.00032	.001
%RSD	192.87	4.6288	3.5908	.1027
#1	.00213	.00560	.00920	1.001
#2	-.00033	.00525	.00874	.9995
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3649.2**	**2789.9**	**26177.**	**2727.8**
Stddev	.1	1.5	56.	10.1
%RSD	.00396	.05373	.21269	.36842
#1	3649.3	2788.9	26138.	2734.9
#2	3649.1	2791.0	26217.	2720.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.298%	97.093%	98.516%	101.33%
Range				

Sample Name: 480-193759-A-5-A Acquired: 12/28/2021 2:29:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00945**	**.00184**	**.04807**	**.02135**
Stddev	.00036	.03846	.00053	.00016	.00003
%RSD	92.442	406.86	28.634	.32612	.14807
#1	.00014	-.01774	.00147	.04796	.02133
#2	.00065	.03665	.00221	.04818	.02137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**75.357**	**.00099**	**-.0243**	**.00014**
Stddev	.00003	.370	.00010	.0093	.00006
%RSD	417.65	.49078	10.520	38.03	43.947
#1	.00002	75.618	.00091	-.0178	.00009
#2	-.00003	75.095	.00106	-.0309	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00163**	**.26346**	**6.7565**	**.00849**
Stddev	.00005	.00087	.00288	.0135	.00185
%RSD	10.876	52.917	1.0930	.20038	21.773
#1	.00053	.00102	.26550	6.7469	.00718
#2	.00045	.00225	.26143	6.7661	.00980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193759-A-5-A Acquired: 12/28/2021 2:29:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**118.82**	**.34925**	**.00159**	**14.213**	**.00033**
Stddev	.20	.00004	.00010	.093	.00018
%RSD	.16936	.01245	6.0320	.65526	55.173
#1	118.68	.34922	.00166	14.279	.00020
#2	118.96	.34928	.00152	14.147	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00085**	F **157.88**	**.00152**	**.15939**
Stddev	.00	.00033	.10	.00097	.00355
%RSD	.0040	38.860	.06515	63.608	2.2254
#1	25.02	.00108	157.81	.00084	.16190
#2	25.02	.00061	157.95	.00220	.15688
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		
Low Limit			-.20000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5771**	**-.00086**	**.33461**	**.9904**	**.00123**
Stddev	.0382	.00030	.00190	.0037	.00054
%RSD	1.0694	34.720	.56826	.3712	43.957
#1	3.6042	-.00065	.33596	.9878	.00085
#2	3.5501	-.00107	.33327	.9930	.00161
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193759-A-5-A Acquired: 12/28/2021 2:29:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.00178**	**.01044**	**.9990**
Stddev	.00159	.00016	.00001	.0017
%RSD	349.50	8.9759	.11314	.1660
#1	-.00158	-.00189	.01045	1.000
#2	.00067	-.00167	.01043	.9978
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3427.1**	**2693.6**	**25300.**	**2680.0**
Stddev	6.7	11.6	41.	5.9
%RSD	.19571	.42998	.16381	.22135
#1	3422.3	2685.4	25329.	2675.8
#2	3431.8	2701.8	25271.	2684.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.558%	93.742%	95.214%	99.554%
Range				

Sample Name: MB 480-610024/1-A Acquired: 12/28/2021 2:32:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.01877**	**-.00069**	**-.01156**	**-.00000**
Stddev	.00075	.00078	.00144	.00012	.00004
%RSD	375.21	4.1757	208.19	1.0090	6816.9
#1	-.00033	-.01933	-.00171	-.01148	.00003
#2	.00073	-.01822	.00033	-.01164	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00640**	**-.00001**	**.0275**	**.00016**
Stddev	.00002	.00407	.00007	.0298	.00005
%RSD	70.595	63.634	438.85	108.5	32.859
#1	.00005	.00352	.00003	.0064	.00019
#2	.00002	.00928	-.00006	.0486	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00146**	**.00600**	**-.14790**	**.00377**
Stddev	.00046	.00024	.00420	.01308	.00123
%RSD	161.60	16.713	70.017	8.8458	32.754
#1	-.00004	.00129	.00897	-.13865	.00290
#2	.00061	.00163	.00303	-.15715	.00464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-610024/1-A Acquired: 12/28/2021 2:32:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00450**	**.00020**	**-.00029**	**-.01207**	**.00004**
Stddev	.00527	.00004	.00012	.00220	.00035
%RSD	117.09	17.687	41.444	18.188	948.27
#1	.00078	.00023	-.00021	-.01052	.00028
#2	.00823	.00018	-.00038	-.01362	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**-.00009**	**.01911**	**-.00153**	**.00248**
Stddev	.00	.00109	.00016	.00046	.00386
%RSD	.0001	1203.8	.83622	30.239	155.37
#1	25.02	-.00086	.01922	-.00185	-.00024
#2	25.02	.00068	.01899	-.00120	.00521
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02536**	**-.00029**	**.00013**	**1.001**	**-.00043**
Stddev	.01396	.00008	.00008	.014	.00019
%RSD	55.045	28.515	59.595	1.394	44.017
#1	.01549	-.00023	.00008	.9913	-.00056
#2	.03522	-.00035	.00019	1.011	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-610024/1-A Acquired: 12/28/2021 2:32:46 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00091**	**-.00025**	**.00070**	**1.002**
Stddev	.00094	.00005	.00007	.001
%RSD	102.92	18.880	10.447	.0944
#1	.00025	-.00028	.00075	1.002
#2	.00158	-.00022	.00065	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3910.3**	**2894.2**	**26902.**	**2755.8**
Stddev	2.9	.3	79.	4.8
%RSD	.07534	.00894	.29491	.17524
#1	3912.4	2894.0	26958.	2759.3
#2	3908.2	2894.4	26846.	2752.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.04%	100.72%	101.24%	102.37%
Range				

Sample Name: LCS 480-610024/2-A Acquired: 12/28/2021 2:36:33 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04708**	**9.9648**	**.19967**	**.18875**	**.19752**
Stddev	.00024	.1102	.00175	.00109	.00063
%RSD	.51386	1.1056	.87598	.57598	.32019
#1	.04691	9.8869	.19843	.18798	.19707
#2	.04725	10.043	.20091	.18952	.19797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21103**	**9.7653**	**.19588**	**-.0029**	**.18414**
Stddev	.00109	.0179	.00008	.0372	.00013
%RSD	.51502	.18319	.03956	1303.	.07240
#1	.21026	9.7526	.19582	-.0291	.18423
#2	.21180	9.7779	.19593	.0234	.18404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19528**	**.19080**	**9.8347**	**9.4281**	**.19682**
Stddev	.00046	.00068	.0123	.0368	.00214
%RSD	.23315	.35717	.12506	.39039	1.0894
#1	.19496	.19129	9.8260	9.4020	.19530
#2	.19560	.19032	9.8434	9.4541	.19834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-610024/2-A Acquired: 12/28/2021 2:36:33 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6274**	**.19559**	**.20209**	**9.4451**	**.18448**
Stddev	.0404	.00049	.00021	.0136	.00062
%RSD	.41957	.25216	.10241	.14418	.33693
#1	9.5989	.19525	.20223	9.4354	.18404
#2	9.6560	.19594	.20194	9.4547	.18492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.63**	**.18969**	**9.4892**	**.21038**	**.19097**
Stddev	.00	.00222	.0002	.00126	.00236
%RSD	.0020	1.1719	.00208	.59864	1.2368
#1	24.63	.18812	9.4893	.20949	.19264
#2	24.63	.19126	9.4890	.21127	.18930
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5492**	**.18154**	**.19584**	**.9989**	**.19608**
Stddev	.0148	.00052	.00074	.0007	.00095
%RSD	.15517	.28786	.37844	.0692	.48456
#1	9.5387	.18191	.19532	.9984	.19541
#2	9.5597	.18117	.19637	.9994	.19676
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-610024/2-A Acquired: 12/28/2021 2:36:33 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19814**	**.19238**	**.19853**	**1.004**
Stddev	.00043	.00053	.00027	.001
%RSD	.21507	.27774	.13664	.0692
#1	.19784	.19201	.19834	1.004
#2	.19844	.19276	.19873	1.005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3677.3**	**2829.6**	**26230.**	**2724.7**
Stddev	.2	4.7	92.	.6
%RSD	.00492	.16489	.34917	.02043
#1	3677.2	2832.9	26295.	2724.3
#2	3677.5	2826.3	26165.	2725.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.025%	98.475%	98.714%	101.21%
Range				

Sample Name: 480-193697-F-1-A Acquired: 12/28/2021 2:40:08 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.08233**	**.00412**	**-.00846**	**.01048**
Stddev	.00034	.01615	.00054	.00038	.00008
%RSD	120.68	19.621	13.020	4.5150	.74428
#1	-.00004	.09375	.00374	-.00873	.01042
#2	-.00053	.07091	.00450	-.00819	.01053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**29.438**	**.00011**	**.0137**	**.00027**
Stddev	.00003	.015	.00008	.0903	.00007
%RSD	24.684	.05024	77.038	661.2	24.232
#1	.00010	29.449	.00016	.0775	.00022
#2	.00015	29.428	.00005	-.0502	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00079**	**.14518**	**4.6273**	**.00727**
Stddev	.00041	.00042	.00285	.0297	.00091
%RSD	78.154	53.158	1.9605	.64253	12.502
#1	.00024	.00049	.14317	4.6062	.00663
#2	.00082	.00108	.14719	4.6483	.00792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193697-F-1-A Acquired: 12/28/2021 2:40:08 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5661**	**.04049**	**.00045**	**3.3254**	**.00099**
Stddev	.0027	.00031	.00011	.0032	.00019
%RSD	.17548	.77065	25.110	.09709	18.890
#1	1.5641	.04027	.00037	3.3277	.00086
#2	1.5680	.04071	.00053	3.3231	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.03**	**.00151**	**1.6232**	**.00042**	**.00211**
Stddev	.00	.00115	.0001	.00262	.00185
%RSD	.0010	76.231	.00790	624.94	87.777
#1	25.03	.00070	1.6233	-.00143	.00080
#2	25.03	.00232	1.6231	.00227	.00342
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9263**	**-.00044**	**.09740**	**.9996**	**.00432**
Stddev	.0084	.00031	.00040	.0072	.00003
%RSD	.17097	69.975	.41050	.7199	.74387
#1	4.9322	-.00022	.09768	1.005	.00430
#2	4.9203	-.00066	.09712	.9945	.00434
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193697-F-1-A Acquired: 12/28/2021 2:40:08 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	.00262	.00055	.00119	1.001
Stddev	.00179	.00020	.00003	.000
%RSD	68.275	36.765	2.6479	.0446
#1	.00388	.00070	.00117	1.001
#2	.00136	.00041	.00122	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3767.8	2829.4	26344.	2731.0
Stddev	5.7	2.5	186.	4.7
%RSD	.15015	.08888	.70640	.17069
#1	3763.8	2827.6	26475.	2734.3
#2	3771.8	2831.2	26212.	2727.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.363%	98.467%	99.142%	101.45%
Range				

Sample Name: CCV-6824595 Acquired: 12/28/2021 2:43:56 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0097**	**50.852**	**1.0078**	**1.0392**	**1.0086**
Stddev	.0032	.047	.0054	.0005	.0005
%RSD	.31334	.09175	.53708	.05142	.05216
#1	1.0075	50.885	1.0116	1.0388	1.0090
#2	1.0119	50.819	1.0040	1.0396	1.0082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0195**	**50.144**	**1.0145**	**1.065**	**.97967**
Stddev	.0005	.089	.0006	.054	.00070
%RSD	.04702	.17659	.06406	5.063	.07129
#1	1.0199	50.207	1.0140	1.026	.97917
#2	1.0192	50.082	1.0150	1.103	.98016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0047**	**1.0009**	**50.353**	**49.746**	**1.0075**
Stddev	.0001	.0014	.182	.114	.0003
%RSD	.00606	.14366	.36222	.23011	.03220
#1	1.0048	.99987	50.482	49.827	1.0073
#2	1.0047	1.0019	50.224	49.665	1.0078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/28/2021 2:43:56 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.733**	**.99914**	**1.0288**	**50.149**	**.98661**
Stddev	.151	.00325	.0007	.084	.00140
%RSD	.30888	.32532	.06714	.16803	.14195
#1	48.627	.99684	1.0293	50.209	.98562
#2	48.839	1.0014	1.0283	50.090	.98760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.73**	**.97888**	**25.141**	**1.0178**	**1.0008**
Stddev	.00	.00086	.008	.0048	.0026
%RSD	.0116	.08786	.03212	.47293	.25710
#1	37.73	.97949	25.147	1.0144	.99902
#2	37.72	.97827	25.135	1.0212	1.0027
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.100**	**.97775**	**1.0105**	**1.508**	**1.0052**
Stddev	.085	.00082	.0005	.013	.0035
%RSD	.84460	.08428	.05160	.8461	.35211
#1	10.039	.97717	1.0109	1.499	1.0027
#2	10.160	.97833	1.0102	1.517	1.0077
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/28/2021 2:43:56 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	.98925	1.0052	1.0187	1.530
Stddev	.00208	.0012	.0014	.000
%RSD	.21051	.11826	.14282	.0114
#1	.99073	1.0043	1.0176	1.530
#2	.98778	1.0060	1.0197	1.530
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3304.6	2711.5	24755.	2653.9
Stddev	.9	2.6	20.	3.6
%RSD	.02663	.09679	.08072	.13745
#1	3305.3	2713.4	24769.	2656.5
#2	3304.0	2709.7	24741.	2651.3

Sample Name: CCB-6825508 Acquired: 12/28/2021 2:47:29 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.02105**	**-.00075**	**-.01052**	**.00006**
Stddev	.00093	.02925	.00248	.00034	.00006
%RSD	312.03	138.96	332.47	3.2467	105.29
#1	-.00036	-.04174	.00101	-.01028	.00010
#2	.00095	-.00037	-.00250	-.01076	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00186**	**.00016**	**.0641**	**.00005**
Stddev	.00002	.00025	.00011	.0151	.00011
%RSD	25.600	13.383	71.242	23.60	233.54
#1	-.00007	.00168	.00024	.0748	.00012
#2	-.00005	.00203	.00008	.0534	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00190**	**.00263**	**-.07380**	**.00279**
Stddev	.00000	.00006	.00280	.02077	.00130
%RSD	2.2990	2.9794	106.37	28.147	46.539
#1	-.00009	.00186	.00065	-.05911	.00371
#2	-.00008	.00194	.00461	-.08848	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/28/2021 2:47:29 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00260**	**-.00006**	**.00137**	**-.01488**	**-.00009**
Stddev	.00078	.00001	.00003	.00615	.00020
%RSD	30.041	15.211	2.4304	41.356	225.28
#1	-.00316	-.00007	.00135	-.01053	-.00023
#2	-.00205	-.00005	.00139	-.01923	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00085**	**.00577**	**.00077**	**.00629**
Stddev	.00	.00025	.00013	.00051	.00338
%RSD	.0026	29.491	2.1956	65.903	53.753
#1	25.02	.00067	.00586	.00113	.00868
#2	25.02	.00102	.00568	.00041	.00390
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00762**	**-.00044**	**.00012**	**.9997**	**.00000**
Stddev	.01332	.00008	.00027	.0040	.00014
%RSD	174.71	19.043	229.80	.4049	13755.
#1	-.00179	-.00038	-.00007	1.003	-.00010
#2	.01704	-.00050	.00031	.9968	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/28/2021 2:47:29 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00058**	**-.00026**	**-.00048**	**1.000**
Stddev	.00049	.00016	.00038	.001
%RSD	84.081	62.865	79.521	.0628
#1	.00092	-.00014	-.00021	1.000
#2	.00023	-.00038	-.00074	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3853.3**	**2847.7**	**26480.**	**2711.7**
Stddev	10.9	7.8	55.	20.3
%RSD	.28305	.27441	.20903	.74950
#1	3845.6	2842.1	26519.	2697.4
#2	3861.0	2853.2	26441.	2726.1

Sample Name: CCVL-6825510 Acquired: 12/28/2021 2:51:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00571**	**.19045**	**.01271**	F **.00849**	**.00200**
Stddev	.00096	.02703	.00138	.00008	.00000
%RSD	16.778	14.195	10.892	.90127	.08657
#1	.00639	.20957	.01173	.00844	.00201
#2	.00503	.17133	.01369	.00854	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				-50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.50325**	**.00202**	**.0839**	**.00373**
Stddev	.00002	.00006	.00008	.0356	.00005
%RSD	1.1325	.01100	4.0219	42.50	1.3637
#1	.00204	.50329	.00208	.1091	.00377
#2	.00207	.50321	.00196	.0587	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00378**	**.00955**	**.05153**	W **.32395**	**.02869**
Stddev	.00023	.00043	.00181	.03484	.00078
%RSD	6.0830	4.5188	3.5145	10.755	2.7247
#1	.00394	.00986	.05025	.34859	.02814
#2	.00362	.00925	.05281	.29931	.02925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.50000	
Range				-30.000%	

Sample Name: CCVL-6825510 Acquired: 12/28/2021 2:51:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18421**	**.00288**	**.01042**	**.93627**	**.00911**
Stddev	.00313	.00007	.00014	.00901	.00038
%RSD	1.6995	2.4610	1.3036	.96218	4.1510
#1	.18200	.00293	.01051	.92990	.00937
#2	.18642	.00283	.01032	.94264	.00884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **25.00**	**.00943**	**.18606**	**.02146**	**.02407**
Stddev	.00	.00087	.00420	.00128	.00149
%RSD	.0016	9.2120	2.2564	5.9766	6.1706
#1	25.00	.00882	.18902	.02055	.02302
#2	25.00	.01005	.18309	.02236	.02512
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0060				
Range	50.00%				

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49488**	**.00918**	**.00493**	F **.9937**	**.00452**
Stddev	.02222	.00026	.00008	.0070	.00039
%RSD	4.4901	2.8681	1.6242	.7074	8.5625
#1	.47917	.00937	.00487	.9987	.00480
#2	.51059	.00899	.00498	.9888	.00425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.0060	
Range				50.00%	

Sample Name: CCVL-6825510 Acquired: 12/28/2021 2:51:19 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.02110**	**.00498**	**.01014**	F **1.001**
Stddev	.00055	.00043	.00012	.002
%RSD	2.6255	8.5493	1.2260	.2361
#1	.02149	.00468	.01005	1.002
#2	.02071	.00529	.01023	.9989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				.0060
Range				50.00%
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3819.4**	**2842.8**	**26586.**	**2711.5**
Stddev	6.0	4.6	82.	2.8
%RSD	.15741	.16142	.30868	.10319
#1	3823.6	2846.0	26528.	2709.6
#2	3815.1	2839.5	26644.	2713.5

Sample Name: 480-193697-F-1-ASD@5 Acquired: 12/28/2021 2:55:06 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.02041**	**-.00175**	**-.01079**	**.00208**
Stddev	.00042	.03215	.00230	.00027	.00002
%RSD	77.330	157.50	131.75	2.4607	1.0753
#1	-.00083	-.00232	-.00012	-.01060	.00209
#2	-.00024	.04314	-.00338	-.01098	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**5.9203**	**.00030**	**.0422**	**.00014**
Stddev	.00003	.0127	.00003	.0052	.00013
%RSD	27.650	.21526	10.581	12.36	94.587
#1	.00013	5.9293	.00032	.0385	.00005
#2	.00009	5.9113	.00028	.0458	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00037**	**.02781**	**.79310**	**.00446**
Stddev	.00018	.00025	.00470	.00350	.00041
%RSD	107.73	69.670	16.883	.44125	9.2204
#1	.00004	.00055	.02449	.79063	.00475
#2	.00030	.00019	.03113	.79558	.00417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193697-F-1-ASD@5 Acquired: 12/28/2021 2:55:06 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30513**	**.00817**	**.00002**	**.63831**	**.00021**
Stddev	.00407	.00009	.00023	.01363	.00012
%RSD	1.3336	1.1173	1004.2	2.1349	54.613
#1	.30800	.00824	-.00014	.64795	.00029
#2	.30225	.00811	.00019	.62867	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00042**	**.31294**	**.00072**	**.00221**
Stddev	.00	.00017	.00053	.00213	.00071
%RSD	.0029	40.760	.16943	294.46	32.234
#1	25.02	.00054	.31256	.00223	.00171
#2	25.02	.00030	.31331	-.00078	.00272
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99044**	**-.00051**	**.01936**	**.9999**	**.00080**
Stddev	.00207	.00024	.00024	.0028	.00019
%RSD	.20887	47.360	1.2430	.2753	23.043
#1	.99190	-.00068	.01919	1.002	.00067
#2	.98898	-.00034	.01953	.9980	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193697-F-1-ASD@5 Acquired: 12/28/2021 2:55:06 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00176**	**-.00026**	**.00016**	**1.001**
Stddev	.00198	.00047	.00001	.001
%RSD	111.99	181.92	6.0902	.0889
#1	.00316	.00007	.00016	1.000
#2	.00037	-.00059	.00015	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3808.9**	**2823.7**	**26290.**	**2686.7**
Stddev	.9	2.7	109.	.9
%RSD	.02395	.09452	.41532	.03260
#1	3808.2	2825.6	26213.	2686.1
#2	3809.5	2821.8	26367.	2687.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.424%	98.269%	98.941%	99.804%
Range				

Sample Name: 480-193697-F-1-APDS Acquired: 12/28/2021 2:58:52 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04779**	**10.120**	**.20867**	**.19603**	**.20752**
Stddev	.00090	.066	.00311	.00048	.00023
%RSD	1.8735	.65657	1.4920	.24611	.11002
#1	.04842	10.167	.21088	.19569	.20736
#2	.04716	10.073	.20647	.19637	.20768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21417**	**38.418**	**.19877**	**.0139**	**.18578**
Stddev	.00082	.036	.00020	.0290	.00023
%RSD	.38192	.09301	.09920	208.4	.12582
#1	.21475	38.444	.19863	.0344	.18562
#2	.21359	38.393	.19891	-.0066	.18595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19681**	**.19371**	**10.007**	**14.124**	**.19698**
Stddev	.00013	.00105	.000	.044	.00515
%RSD	.06609	.54037	.00242	.31117	2.6122
#1	.19690	.19297	10.007	14.155	.20062
#2	.19672	.19445	10.007	14.093	.19334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193697-F-1-APDS Acquired: 12/28/2021 2:58:52 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.078**	**.23384**	**.20429**	**12.685**	**.18599**
Stddev	.038	.00046	.00113	.003	.00062
%RSD	.34009	.19523	.55168	.02049	.33469
#1	11.051	.23351	.20508	12.687	.18555
#2	11.104	.23416	.20349	12.683	.18643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.64**	**.19273**	**11.317**	**.20160**	**.19295**
Stddev	.00	.00074	.014	.00144	.00420
%RSD	.0068	.38478	.12382	.71449	2.1744
#1	24.64	.19325	11.307	.20058	.19591
#2	24.64	.19220	11.327	.20262	.18998
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.782**	**.18822**	**.28896**	**1.004**	**.20285**
Stddev	.003	.00034	.00007	.002	.00006
%RSD	.01800	.18149	.02348	.2028	.02839
#1	14.784	.18846	.28901	1.006	.20281
#2	14.780	.18798	.28891	1.003	.20289
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193697-F-1-APDS Acquired: 12/28/2021 2:58:52 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19961**	**.19696**	**.20097**	**1.007**
Stddev	.00021	.00043	.00070	.001
%RSD	.10742	.22054	.34898	.1329
#1	.19946	.19726	.20048	1.008
#2	.19976	.19665	.20147	1.006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3608.7**	**2800.0**	**25880.**	**2683.7**
Stddev	10.7	9.9	6.	5.0
%RSD	.29756	.35475	.02396	.18525
#1	3601.1	2793.0	25884.	2680.2
#2	3616.3	2807.0	25875.	2687.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.252%	97.444%	97.396%	99.692%
Range				

Sample Name: 480-193697-F-1-B MS Acquired: 12/28/2021 3:02:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04984**	**10.118**	**.20976**	**.19603**	**.21357**
Stddev	.00017	.033	.00057	.00093	.00033
%RSD	.34126	.32329	.27015	.47244	.15641
#1	.04996	10.095	.20936	.19669	.21380
#2	.04972	10.141	.21017	.19538	.21333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21237**	**38.341**	**.20197**	**.0480**	**.18942**
Stddev	.00009	.032	.00002	.0250	.00046
%RSD	.04245	.08387	.00817	52.13	.24441
#1	.21231	38.318	.20196	.0303	.18909
#2	.21244	38.364	.20199	.0657	.18975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19734**	**.19912**	**10.172**	**14.260**	**.20386**
Stddev	.00115	.00076	.033	.014	.00088
%RSD	.58506	.38115	.32761	.10161	.43047
#1	.19815	.19965	10.148	14.271	.20324
#2	.19652	.19858	10.195	14.250	.20448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193697-F-1-B MS Acquired: 12/28/2021 3:02:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.333**	**.24040**	**.20689**	**12.883**	**.19062**
Stddev	.028	.00032	.00038	.023	.00004
%RSD	.25056	.13472	.18581	.18128	.02065
#1	11.353	.24063	.20717	12.900	.19060
#2	11.313	.24017	.20662	12.867	.19065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.64**	**.19646**	**11.339**	**.21664**	**.19138**
Stddev	.00	.00157	.005	.00125	.00493
%RSD	.0005	.79870	.04440	.57633	2.5742
#1	24.64	.19535	11.335	.21576	.19486
#2	24.64	.19757	11.342	.21753	.18789
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.314**	**.18634**	**.29621**	**1.002**	**.20596**
Stddev	.010	.00014	.00022	.000	.00092
%RSD	.06773	.07653	.07550	.0427	.44632
#1	14.307	.18644	.29637	1.002	.20661
#2	14.320	.18624	.29605	1.002	.20531
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193697-F-1-B MS Acquired: 12/28/2021 3:02:26 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.20024**	**.19611**	**.20073**	**1.001**
Stddev	.00050	.00037	.00027	.000
%RSD	.25054	.18985	.13364	.0312
#1	.20060	.19637	.20054	1.001
#2	.19989	.19584	.20092	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3624.5**	**2820.8**	**26083.**	**2751.7**
Stddev	.3	2.4	16.	.4
%RSD	.00762	.08401	.06166	.01516
#1	3624.7	2819.1	26071.	2752.0
#2	3624.3	2822.5	26094.	2751.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.659%	98.167%	98.160%	102.22%
Range				

Sample Name: 480-193697-F-1-C MSD Acquired: 12/28/2021 3:06:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04773**	**9.9218**	**.20711**	**.19322**	**.21013**
Stddev	.00036	.0214	.00063	.00001	.00022
%RSD	.75124	.21552	.30377	.00605	.10580
#1	.04747	9.9067	.20666	.19321	.20997
#2	.04798	9.9369	.20755	.19322	.21028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20844**	**38.178**	**.19698**	**.0238**	**.18680**
Stddev	.00032	.027	.00025	.0461	.00012
%RSD	.15485	.07162	.12660	193.5	.06259
#1	.20821	38.158	.19716	-.0088	.18689
#2	.20867	38.197	.19681	.0564	.18672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19352**	**.19511**	**10.006**	**14.133**	**.19904**
Stddev	.00015	.00153	.040	.035	.00194
%RSD	.07788	.78537	.40300	.24491	.97415
#1	.19362	.19403	9.9777	14.157	.19766
#2	.19341	.19620	10.035	14.108	.20041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193697-F-1-C MSD Acquired: 12/28/2021 3:06:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.264**	**.23664**	**.20359**	**12.647**	**.18749**
Stddev	.009	.00088	.00110	.003	.00059
%RSD	.08023	.37327	.54169	.02713	.31522
#1	11.257	.23601	.20437	12.649	.18791
#2	11.270	.23726	.20281	12.644	.18708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.64**	**.19499**	**11.267**	**.21121**	**.19447**
Stddev	.00	.00097	.028	.00049	.00528
%RSD	.0098	.49796	.24764	.23195	2.7165
#1	24.64	.19430	11.287	.21087	.19820
#2	24.64	.19567	11.248	.21156	.19073
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.219**	**.18506**	**.29084**	**1.005**	**.20099**
Stddev	.016	.00017	.00025	.002	.00009
%RSD	.11541	.09368	.08609	.2289	.04578
#1	14.230	.18494	.29066	1.007	.20105
#2	14.207	.18518	.29102	1.004	.20092
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193697-F-1-C MSD Acquired: 12/28/2021 3:06:02 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.19757**	**.19269**	**.20035**	**1.002**
Stddev	.00035	.00154	.00010	.000
%RSD	.17508	.80054	.05232	.0383
#1	.19732	.19160	.20028	1.002
#2	.19781	.19378	.20043	1.001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3627.5**	**2842.8**	**26122.**	**2794.5**
Stddev	1.0	.7	22.	21.1
%RSD	.02802	.02350	.08570	.75474
#1	3628.2	2842.3	26106.	2779.6
#2	3626.8	2843.2	26138.	2809.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.737%	98.932%	98.307%	103.81%
Range				

Sample Name: 480-193697-F-4-A Acquired: 12/28/2021 3:09:37 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**.54926**	**-.00092**	**-.00393**	**.02121**
Stddev	.00085	.02707	.00168	.00030	.00014
%RSD	115.94	4.9291	181.57	7.5919	.66070
#1	.00013	.53012	-.00211	-.00414	.02111
#2	.00133	.56840	.00026	-.00372	.02131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**16.162**	**.00028**	**.0286**	**.00035**
Stddev	.00004	.013	.00008	.0263	.00006
%RSD	39.222	.08318	27.269	91.73	17.634
#1	.00007	16.153	.00033	.0472	.00040
#2	.00013	16.172	.00022	.0101	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00111**	**.00112**	**.56960**	**1.6917**	**.00546**
Stddev	.00025	.00070	.00258	.0395	.00205
%RSD	22.842	62.850	.45231	2.3350	37.588
#1	.00129	.00161	.56778	1.6638	.00401
#2	.00093	.00062	.57142	1.7197	.00691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193697-F-4-A Acquired: 12/28/2021 3:09:37 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.4390**	**.04668**	**.00378**	**10.464**	**.00130**
Stddev	.0371	.00002	.00018	.046	.00006
%RSD	.43924	.04959	4.7252	.43909	4.9280
#1	8.4128	.04670	.00366	10.496	.00126
#2	8.4652	.04667	.00391	10.431	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**.00318**	**4.9061**	**-.00152**	**.00214**
Stddev	.00	.00006	.0030	.00207	.00049
%RSD	.0011	1.8824	.06199	136.34	22.778
#1	25.07	.00322	4.9083	-.00299	.00248
#2	25.07	.00314	4.9040	-.00005	.00180
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5642**	**.00009**	**.08126**	**.9954**	**.02481**
Stddev	.0253	.00025	.00055	.0079	.00063
%RSD	.29514	270.19	.67493	.7900	2.5370
#1	8.5821	.00027	.08165	1.001	.02525
#2	8.5464	-.00008	.08087	.9898	.02436
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193697-F-4-A Acquired: 12/28/2021 3:09:37 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00140**	**.00093**	**.00442**	**.9999**
Stddev	.00087	.00002	.00047	.0007
%RSD	62.107	1.9602	10.734	.0742
#1	.00079	.00092	.00409	1.000
#2	.00202	.00094	.00476	.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3699.1**	**2817.4**	**26160.**	**2727.6**
Stddev	.7	3.9	201.	5.1
%RSD	.01998	.13706	.76762	.18630
#1	3698.5	2820.1	26302.	2731.2
#2	3699.6	2814.6	26018.	2724.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.586%	98.048%	98.451%	101.32%
Range				

Sample Name: 480-193643-B-21-B Acquired: 12/28/2021 3:13:22 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.02457**	**.01420**	**1.6466**	**.43183**
Stddev	.00066	.02315	.00096	.0001	.00023
%RSD	207.63	94.219	6.7358	.00845	.05323
#1	.00015	.04094	.01352	1.6467	.43199
#2	-.00079	.00820	.01488	1.6465	.43166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**183.31**	**.00092**	**.0055**	**.00667**
Stddev	.00000	.29	.00010	.0120	.00014
%RSD	380.84	.15953	10.672	218.9	2.1249
#1	.00000	183.51	.00085	.0140	.00657
#2	-.00000	183.10	.00099	-.0030	.00678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00810**	**-.00075**	**16.698**	**63.933**	**.02765**
Stddev	.00006	.00018	.003	.002	.00147
%RSD	.76276	24.162	.02070	.00257	5.2985
#1	.00806	-.00088	16.701	63.934	.02869
#2	.00815	-.00062	16.696	63.932	.02662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193643-B-21-B Acquired: 12/28/2021 3:13:22 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**144.14**	**.13014**	**.00147**	**406.50**	**.07620**
Stddev	.30	.00057	.00003	1.56	.00075
%RSD	.20766	.43971	2.0870	.38473	.98428
#1	144.35	.13055	.00149	407.60	.07567
#2	143.93	.12974	.00145	405.39	.07673
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.04**	**.00542**	**4.3837**	**.00152**	**.00634**
Stddev	.00	.00038	.0065	.00179	.00101
%RSD	.0026	7.0559	.14727	117.73	15.966
#1	25.04	.00569	4.3883	.00279	.00705
#2	25.04	.00515	4.3791	.00025	.00562
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.329**	**-.00037**	**.96010**	**.9929**	**.00194**
Stddev	.015	.00030	.00027	.0017	.00005
%RSD	.08245	80.619	.02805	.1701	2.4643
#1	18.340	-.00059	.95991	.9941	.00197
#2	18.319	-.00016	.96029	.9917	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-193643-B-21-B Acquired: 12/28/2021 3:13:22 Type: Unk
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)
Units	ppm	ppm	ppm	ppm
Avg	**.00084**	**.00035**	**.00473**	**1.004**
Stddev	.00213	.00013	.00021	.000
%RSD	253.28	37.538	4.3429	.0093
#1	.00235	.00025	.00487	1.004
#2	-.00067	.00044	.00458	1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3065.0**	**2575.5**	**23821.**	**2652.2**
Stddev	2.4	7.6	155.	8.9
%RSD	.07983	.29420	.64863	.33489
#1	3063.3	2570.1	23712.	2645.9
#2	3066.7	2580.8	23930.	2658.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.201%	89.630%	89.648%	98.520%
Range				

Sample Name: CCVL-6825510 Acquired: 12/28/2021 3:17:10 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00627**	F **.21406**	F **.01202**	F **.00970**	F **.00201**
Stddev	.00008	.02261	.00076	.00053	.00003
%RSD	1.2603	10.561	6.2965	5.4228	1.6655
#1	.00633	.19808	.01148	.01008	.00204
#2	.00622	.23005	.01255	.00933	.00199
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.75000	37.500	.75000	.75000	.75000
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00208**	F **.49079**	F **.00200**	**.1014**	F **.00374**
Stddev	.00001	.00083	.00009	.0049	.00003
%RSD	.38670	.16922	4.6574	4.829	.89437
#1	.00207	.49138	.00193	.1048	.00372
#2	.00209	.49021	.00207	.0979	.00377
Check ?	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail
Value	.75000	37.500	.75000		.75000
Range	-10.000%	-10.000%	-10.000%		-10.000%

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00392**	F **.01011**	F **.04900**	F **.41085**	F **.03055**
Stddev	.00020	.00057	.00145	.05847	.00022
%RSD	5.0460	5.5941	2.9517	14.231	.73248
#1	.00378	.01051	.05002	.45219	.03040
#2	.00406	.00971	.04797	.36950	.03071
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.75000	.75000	37.500	37.519	.75000
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%

Sample Name: CCVL-6825510 Acquired: 12/28/2021 3:17:10 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.18447**	F **.00294**	F **.00988**	F **.95284**	F **.00909**
Stddev	.00271	.00009	.00015	.00598	.00000
%RSD	1.4690	2.9769	1.5206	.62785	.01869
#1	.18255	.00300	.00978	.95707	.00908
#2	.18638	.00288	.00999	.94861	.00909
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	37.500	.75000	.75000	37.519	.75000
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.00**	F **.00941**	F **.18379**	F **.01881**	F **.02373**
Stddev	.00	.00023	.00224	.00202	.00259
%RSD	.0025	2.4098	1.2188	10.746	10.916
#1	25.00	.00957	.18221	.02024	.02190
#2	25.00	.00925	.18538	.01738	.02556
Check ?	None	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value		.75000	18.750	.75000	.75000
Range		-10.000%	-10.000%	-10.000%	-10.000%

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.50986**	F **.00839**	F **.00503**	**.9990**	F **.00425**
Stddev	.00054	.00047	.00003	.0038	.00029
%RSD	.10570	5.5902	.49817	.3786	6.7563
#1	.51024	.00873	.00505	.9964	.00405
#2	.50948	.00806	.00502	1.002	.00445
Check ?	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail
Value	7.5000	.75000	.75000		.75000
Range	-10.000%	-10.000%	-10.000%		-10.000%

Sample Name: CCVL-6825510 Acquired: 12/28/2021 3:17:10 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	F .02103	F .00500	F .00961	1.001
Stddev	.00088	.00035	.00009	.000
%RSD	4.1718	7.0232	.96519	.0362
#1	.02041	.00475	.00967	1.001
#2	.02165	.00525	.00954	1.001
Check ?	Chk Fail	Chk Fail	Chk Fail	None
Value	.75000	.75000	.75000	
Range	-10.000%	-10.000%	-10.000%	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3828.8	2819.9	26538.	2694.0
Stddev	11.2	9.7	3.	13.4
%RSD	.29136	.34429	.01287	.49822
#1	3820.9	2813.0	26540.	2684.5
#2	3836.7	2826.7	26535.	2703.5

Sample Name: CCV-6824595 Acquired: 12/28/2021 3:20:59 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0129**	**50.596**	**1.0195**	**1.0439**	**1.0060**
Stddev	.0021	.321	.0032	.0013	.0069
%RSD	.20723	.63459	.31760	.11986	.68616
#1	1.0144	50.823	1.0172	1.0430	1.0109
#2	1.0114	50.369	1.0218	1.0448	1.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0120**	**49.998**	**1.0124**	**1.065**	**.98936**
Stddev	.0089	.288	.0008	.108	.00244
%RSD	.87604	.57611	.07778	10.11	.24633
#1	1.0182	50.202	1.0119	.9889	.98764
#2	1.0057	49.795	1.0130	1.141	.99109
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0054**	**1.0029**	**50.244**	**49.544**	**1.0036**
Stddev	.0026	.0016	.115	.310	.0073
%RSD	.25711	.16221	.22968	.62550	.72606
#1	1.0072	1.0040	50.326	49.763	1.0088
#2	1.0036	1.0017	50.163	49.325	.99848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/28/2021 3:20:59 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.200**	**1.0032**	**1.0291**	**50.009**	**.99553**
Stddev	.091	.0015	.0002	.284	.00263
%RSD	.18561	.15125	.01971	.56809	.26439
#1	49.264	1.0043	1.0293	50.210	.99367
#2	49.135	1.0021	1.0290	49.808	.99739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.68**	**.98795**	**25.504**	**1.0204**	**1.0159**
Stddev	.02	.00052	.067	.0028	.0020
%RSD	.0659	.05305	.26277	.27614	.19528
#1	37.67	.98758	25.456	1.0184	1.0173
#2	37.70	.98832	25.551	1.0224	1.0144
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.076**	**.98989**	**1.0079**	**1.517**	**1.0061**
Stddev	.052	.00185	.0064	.003	.0018
%RSD	.51740	.18733	.63421	.2044	.17810
#1	10.113	.98858	1.0124	1.519	1.0074
#2	10.039	.99120	1.0033	1.514	1.0048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Sample Name: CCV-6824595 Acquired: 12/28/2021 3:20:59 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**1.0042**	**1.0059**	**1.0232**	**1.526**
Stddev	.0039	.0022	.0006	.004
%RSD	.38905	.21587	.05846	.2713
#1	1.0014	1.0075	1.0237	1.529
#2	1.0070	1.0044	1.0228	1.523
Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3349.9**	**2767.1**	**25271.**	**2718.8**
Stddev	.8	1.4	60.	5.5
%RSD	.02339	.05125	.23913	.20085
#1	3349.4	2766.1	25228.	2714.9
#2	3350.5	2768.1	25314.	2722.7

Sample Name: CCB-6825508 Acquired: 12/28/2021 3:24:32 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.04452**	**-.00103**	**-.00976**	**.00003**
Stddev	.00040	.02637	.00016	.00053	.00000
%RSD	121.68	59.219	15.630	5.4144	9.6190
#1	-.00061	-.06317	-.00115	-.01014	.00002
#2	-.00005	-.02588	-.00092	-.00939	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00269**	**.00017**	**-.0184**	**.00011**
Stddev	.00002	.00086	.00011	.0279	.00000
%RSD	10.831	31.876	63.330	151.1	4.1714
#1	.00025	.00209	.00009	-.0381	.00010
#2	.00021	.00330	.00025	.0013	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00055**	**-.00032**	**-.13478**	**.00120**
Stddev	.00019	.00045	.00119	.05620	.00004
%RSD	8738.5	81.639	375.82	41.698	3.1568
#1	.00014	.00023	-.00116	-.17452	.00123
#2	-.00013	.00087	.00052	-.09504	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/28/2021 3:24:32 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.00004**	**.00123**	**-.00428**	**.00007**
Stddev	.00077	.00001	.00044	.02894	.00003
%RSD	169.60	31.241	35.945	676.93	48.786
#1	.00009	-.00003	.00092	.01619	.00009
#2	-.00100	-.00005	.00155	-.02474	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.02**	**.00025**	**.00020**	**-.00036**	**.00176**
Stddev	.00	.00122	.00103	.00151	.00191
%RSD	.0031	487.45	505.09	415.41	108.29
#1	25.02	.00111	.00093	.00070	.00041
#2	25.02	-.00061	-.00052	-.00143	.00311
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01965**	**-.00008**	**.00002**	**.9964**	**-.00033**
Stddev	.00072	.00024	.00002	.0036	.00012
%RSD	3.6463	292.25	109.28	.3573	37.049
#1	.02015	-.00025	.00001	.9989	-.00042
#2	.01914	.00009	.00004	.9938	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-6825508 Acquired: 12/28/2021 3:24:32 Type: QC
Method: ICAP2 New stds DEC2019(v794) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
Units	ppm	ppm	ppm	ppm
Avg	**.00148**	**-.00001**	**-.00004**	**1.002**
Stddev	.00093	.00076	.00030	.000
%RSD	63.194	9683.7	711.99	.0239
#1	.00082	-.00054	.00017	1.002
#2	.00213	.00053	-.00025	1.002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3806.1**	**2818.5**	**26274.**	**2669.9**
Stddev	9.6	6.1	26.	8.9
%RSD	.25150	.21729	.09732	.33406
#1	3812.9	2822.8	26256.	2676.2
#2	3799.3	2814.1	26292.	2663.6

Report Generated By Teledyne Leeman QuickTrace

Analyst: BufHG5

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\L20211216B.wszf

Creation Date: 12/16/2021 4:37:09 PM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank	STD	12/16/21 04:38:51 pm	0.00	738	1.92	-3.79		1.0000	N/A
Replicates	755.1	743.0	728.0	724.5					
Standard #1 (0.1 ug/L)	STD	12/16/21 04:40:09 pm	0.10	2080	2.07	-7.78		1.0000	N/A
Replicates	2125.9	2100.5	2069.0	2026.0					
Standard #2 (0.5 ug/L)	STD	12/16/21 04:41:28 pm	0.50	8125	1.68	24.47		1.0000	N/A
Replicates	8219.2	8223.5	8126.5	7932.5					
Standard #3 (2.0 ug/L)	STD	12/16/21 04:42:46 pm	2.00	30439	1.66	120.00		1.0000	N/A
Replicates	30776.6	30826.6	30422.6	29731.3					
Standard #4 (10. ug/L)	STD	12/16/21 04:44:05 pm	10.00	144715	1.70	291.21		1.0000	N/A
Replicates	146438.3	146544.3	144611.3	141266.1					
Standard #5 (20. ug/L)	STD	12/16/21 04:45:25 pm	20.00	275078	1.63	-387.26		1.0000	N/A
Replicates	278544.7	278131.1	274788.4	268848.4					

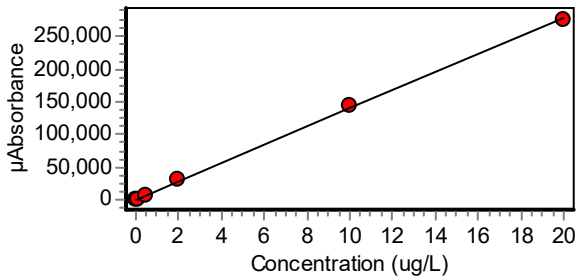
Calibration

Equation: Abs = 13985.172x + 790.644

R2: 0.99921

SEE: 3495.2580

Flags:



ICV	ICV	12/16/21 04:46:49 pm	3.15	44815	1.73			1.0000	104.93
Replicates	45349.7	45376.3	44782.3	43749.8					
ICB	ICB	12/16/21 04:48:07 pm	-0.01	674	23.22			1.0000	N/A
Replicates	704.5	685.2	662.4	641.9					
ICVL	CRDL	12/16/21 04:49:27 pm	0.21	3711	1.46			1.0000	104.39
Replicates	3724.9	3750.5	3716.5	3650.3					
CCV	CCV	12/16/21 04:50:47 pm	2.10	30127	1.89			1.0000	104.88
Replicates	30522.3	30534.8	30097.8	29353.1					
CCB	CCB	12/16/21 04:52:05 pm	-0.01	710	27.65			1.0000	N/A
Replicates	732.5	711.8	717.1	679.6					
MB 480-609143/1-A	UNK	12/16/21 04:53:22 pm	-0.03	385	5.99			1.0000	N/A
Replicates	419.8	377.3	377.5	363.8					
LCS 480-609143/2-A	UNK	12/16/21 04:54:40 pm	4.10	58133	2.13			1.0000	N/A
Replicates	59037.3	59013.9	58038.4	56443.1					

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-193290-D-2-G				UNK	12/16/21 04:55:57 pm	-0.05	125	2.48			1.0000	N/A
Replicates	144.2	105.5	131.7	120.2								
480-193290-D-2-Gsd@5				UNK	12/16/21 04:57:15 pm	-0.05	57	3.41			1.0000	N/A
Replicates	88.8	65.9	38.4	35.9								
480-193290-D-2-H MS				UNK	12/16/21 04:58:33 pm	4.17	59139	2.03			1.0000	N/A
Replicates	59993.6	60003.8	59076.8	57482.5								
480-193290-D-2-I MSD				UNK	12/16/21 04:59:51 pm	4.13	58537	1.95			1.0000	N/A
Replicates	59263.8	59417.1	58507.3	56958.6								
480-193290-C-3-C				UNK	12/16/21 05:01:09 pm	-0.03	387	1.50			1.0000	N/A
Replicates	392.0	393.0	382.7	381.5								
480-193290-D-4-C				UNK	12/16/21 05:02:28 pm	-0.04	269	5.45			1.0000	N/A
Replicates	299.9	286.8	242.0	248.5								
480-193290-D-5-C				UNK	12/16/21 05:03:46 pm	-0.04	273	3.85			1.0000	N/A
Replicates	288.1	289.2	269.7	246.7								
480-193290-C-6-C				UNK	12/16/21 05:05:05 pm	-0.03	314	6.37			1.0000	N/A
Replicates	272.3	320.7	345.4	315.7								
CCV				CCV	12/16/21 05:06:24 pm	2.11	30242	2.03			1.0000	105.29
Replicates	30665.0	30706.8	30175.8	29418.8								
CCB				CCB	12/16/21 05:07:42 pm	-0.01	717	26.00			1.0000	N/A
Replicates	729.7	725.6	725.6	689.1								
480-193290-D-7-C				UNK	12/16/21 05:09:01 pm	-0.03	367	2.80			1.0000	N/A
Replicates	376.3	361.8	377.3	352.8								
480-193290-D-8-C				UNK	12/16/21 05:10:20 pm	-0.03	346	5.47			1.0000	N/A
Replicates	377.1	354.2	327.2	326.5								
480-193290-C-9-C				UNK	12/16/21 05:11:37 pm	-0.04	301	1.28			1.0000	N/A
Replicates	308.8	298.3	294.0	302.3								
480-193331-C-1-C				UNK	12/16/21 05:12:55 pm	-0.04	242	3.11			1.0000	N/A
Replicates	265.5	242.4	230.1	228.4								
480-193331-D-2-C				UNK	12/16/21 05:14:12 pm	-0.04	214	3.46			1.0000	N/A
Replicates	202.0	226.8	192.3	234.3								
480-193444-C-1-B				UNK	12/16/21 05:15:30 pm	-0.04	203	2.59			1.0000	N/A
Replicates	218.1	214.0	186.7	194.0								
480-193444-C-2-B				UNK	12/16/21 05:16:48 pm	-0.04	229	3.04			1.0000	N/A
Replicates	233.6	240.3	237.8	203.6								
480-193444-C-3-B				UNK	12/16/21 05:18:06 pm	-0.04	297	8.06			1.0000	N/A
Replicates	338.7	308.9	243.4	296.1								
480-193444-C-5-B				UNK	12/16/21 05:19:24 pm	-0.04	299	5.32			1.0000	N/A
Replicates	302.4	331.1	267.6	293.6								

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
480-193444-C-6-B		UNK	12/16/21 05:20:42 pm	-0.03	354	4.96		1.0000	N/A
Replicates	342.9	352.8	384.5	335.3					
CCV		CCV	12/16/21 05:22:02 pm	2.11	30265	2.04		1.0000	105.38
Replicates	30566.0	30721.7	30381.2	29389.4					
CCB		CCB	12/16/21 05:23:20 pm	-0.01	712	28.80		1.0000	N/A
Replicates	716.6	734.8	715.6	680.6					
480-193378-B-1-E		UNK	12/16/21 05:24:38 pm	-0.04	245	3.07		1.0000	N/A
Replicates	221.5	246.9	253.9	259.4					
480-193382-E-1-C		UNK	12/16/21 05:25:57 pm	0.00	802	115.07		1.0000	N/A
Replicates	802.7	785.6	817.1	801.9					
480-193388-E-1-B		UNK	12/16/21 05:27:16 pm	-0.02	511	6.11		1.0000	N/A
Replicates	528.1	523.6	497.3	495.6					
480-193383-B-1-C		UNK	12/16/21 05:28:34 pm	-0.02	522	12.54		1.0000	N/A
Replicates	559.3	498.0	541.8	489.8					
480-193383-B-2-C		UNK	12/16/21 05:29:52 pm	-0.02	453	3.64		1.0000	N/A
Replicates	436.7	452.1	465.6	458.4					
MB 480-609144/1-A		UNK	12/16/21 05:31:10 pm	-0.01	651	25.43		1.0000	N/A
Replicates	668.6	678.9	657.6	599.6					
LCS 480-609144/2-A		UNK	12/16/21 05:32:27 pm	3.90	55355	2.16		1.0000	N/A
Replicates	56236.0	56189.6	55276.8	53718.6					
480-193383-B-3-C		UNK	12/16/21 05:33:45 pm	-0.05	156	2.05		1.0000	N/A
Replicates	173.2	154.4	152.9	141.9					
480-193444-C-4-B		UNK	12/16/21 05:35:03 pm	-0.04	238	5.66		1.0000	N/A
Replicates	278.7	222.1	206.4	243.1					
480-193449-F-1-A		UNK	12/16/21 05:36:21 pm	-0.03	320	2.33		1.0000	N/A
Replicates	334.5	321.0	308.5	315.8					
CCV		CCV	12/16/21 05:37:41 pm	2.11	30324	1.96		1.0000	105.59
Replicates	30773.9	30714.1	30294.8	29515.1					
CCB		CCB	12/16/21 05:38:59 pm	-0.01	702	22.89		1.0000	N/A
Replicates	689.9	706.9	728.2	682.4					
480-193413-H-1-B		UNK	12/16/21 05:40:17 pm	0.21	3704	2.37		1.0000	N/A
Replicates	3754.9	3758.4	3692.1	3611.1					
480-193412-F-1-B		UNK	12/16/21 05:41:35 pm	-0.04	281	4.41		1.0000	N/A
Replicates	291.4	297.9	287.1	248.1					
480-193436-D-2-B		UNK	12/16/21 05:42:53 pm	-0.04	220	1.52		1.0000	N/A
Replicates	208.6	229.1	218.1	223.3					
480-193436-D-3-D		UNK	12/16/21 05:44:12 pm	-0.05	161	1.31		1.0000	N/A
Replicates	159.6	164.3	169.8	150.3					

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
480-193436-D-4-B		UNK	12/16/21 05:45:31 pm	-0.04	163	3.29		1.0000	N/A
Replicates	150.4	176.9	182.9	139.9					
480-193436-D-4-Bsd@5		UNK	12/16/21 05:46:50 pm	-0.05	104	2.49		1.0000	N/A
Replicates	118.0	109.3	78.8	108.3					
480-193436-D-4-C MS		UNK	12/16/21 05:48:07 pm	4.12	58350	1.95		1.0000	N/A
Replicates	59045.0	59217.6	58377.6	56758.8					
480-193436-D-4-D MSD		UNK	12/16/21 05:49:25 pm	4.07	57642	1.87		1.0000	N/A
Replicates	58310.6	58480.0	57629.2	56149.5					
480-193436-D-5-B		UNK	12/16/21 05:50:43 pm	-0.04	233	1.30		1.0000	N/A
Replicates	226.4	240.7	226.4	236.7					
480-193436-D-6-B		UNK	12/16/21 05:52:00 pm	-0.03	370	7.31		1.0000	N/A
Replicates	401.0	369.8	381.5	328.3					
CCV		CCV	12/16/21 05:53:20 pm	2.09	29953	1.51		1.0000	104.26
Replicates	30128.1	30343.7	30017.2	29324.2					
CCB		CCB	12/16/21 05:54:38 pm	-0.01	712	18.13		1.0000	N/A
Replicates	727.8	702.1	719.1	697.1					
480-193436-D-7-B		UNK	12/16/21 05:55:56 pm	-0.04	258	4.35		1.0000	N/A
Replicates	240.7	291.4	244.4	254.4					
480-193436-D-8-B		UNK	12/16/21 05:57:14 pm	-0.03	334	4.15		1.0000	N/A
Replicates	335.1	321.0	360.3	319.3					
480-193443-D-1-A		UNK	12/16/21 05:58:32 pm	-0.03	323	1.72		1.0000	N/A
Replicates	325.6	312.7	331.9	321.9					
480-193443-D-2-A		UNK	12/16/21 05:59:50 pm	-0.02	535	12.01		1.0000	N/A
Replicates	524.8	516.1	518.8	580.8					
480-193443-D-3-A		UNK	12/16/21 06:01:09 pm	-0.01	658	21.18		1.0000	N/A
Replicates	657.4	674.8	619.5	682.3					
LB 480-608962/1-E		UNK	12/16/21 06:02:27 pm	-0.02	506	2.12		1.0000	N/A
Replicates	503.6	497.9	511.4	509.1					
MB 480-609149/2-A		UNK	12/16/21 06:03:46 pm	-0.02	575	3.14		1.0000	N/A
Replicates	579.9	580.8	566.0	574.8					
LCS 480-609149/3-A		UNK	12/16/21 06:05:05 pm	3.88	55031	1.40		1.0000	N/A
Replicates	55437.1	55633.2	55111.0	53943.0					
480-193421-A-1-H		UNK	12/16/21 06:06:23 pm	-0.03	330	8.00		1.0000	N/A
Replicates	311.4	356.8	363.6	286.6					
480-193421-A-1-Hsd@5		UNK	12/16/21 06:07:41 pm	-0.05	111	2.78		1.0000	N/A
Replicates	121.6	95.0	133.0	96.2					
CCV		CCV	12/16/21 06:09:00 pm	2.06	29585	1.96		1.0000	102.95
Replicates	29847.8	30040.3	29685.3	28767.0					

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
CCB				CCB	12/16/21 06:10:18 pm	-0.01	714	27.91			1.0000	N/A
Replicates	732.2	726.1	684.1	713.6								
480-193421-A-1-I MS				UNK	12/16/21 06:11:36 pm	3.29	46795	1.40			1.0000	N/A
Replicates	47088.4	47327.0	46904.0	45862.3								
480-193421-A-1-J MSD				UNK	12/16/21 06:12:54 pm	3.27	46545	1.44			1.0000	N/A
Replicates	46822.6	47118.1	46639.6	45599.6								
480-193421-A-2-F				UNK	12/16/21 06:14:12 pm	-0.03	338	1.58			1.0000	N/A
Replicates	336.3	343.6	328.1	342.6								
480-193421-B-3-F				UNK	12/16/21 06:15:30 pm	-0.04	293	2.90			1.0000	N/A
Replicates	271.9	305.3	298.5	294.3								
480-193421-A-4-F				UNK	12/16/21 06:16:48 pm	-0.03	331	4.25			1.0000	N/A
Replicates	346.2	307.9	321.7	348.2								
480-193395-A-1-D				UNK	12/16/21 06:18:07 pm	-0.03	347	4.20			1.0000	N/A
Replicates	343.3	362.0	321.5	359.5								
LB 480-609105/1-D				UNK	12/16/21 06:19:25 pm	-0.03	356	3.87			1.0000	N/A
Replicates	351.8	334.6	374.1	362.8								
MB 480-609150/2-A				UNK	12/16/21 06:20:44 pm	-0.04	163	1.69			1.0000	N/A
Replicates	176.8	166.3	153.8	155.8								
LCS 480-609150/3-A				UNK	12/16/21 06:22:02 pm	3.89	55137	1.70			1.0000	N/A
Replicates	55707.7	55872.0	55128.8	53839.5								
LCSD 480-609150/4-A				UNK	12/16/21 06:23:21 pm	3.80	53880	1.69			1.0000	N/A
Replicates	54401.0	54617.0	53885.0	52618.5								
CCV				CCV	12/16/21 06:24:41 pm	2.07	29798	1.82			1.0000	103.71
Replicates	30110.6	30227.9	29795.9	29056.1								
CCB				CCB	12/16/21 06:25:59 pm	-0.01	678	22.88			1.0000	N/A
Replicates	691.3	645.6	704.6	670.4								
240-161335-B-1-G				UNK	12/16/21 06:27:17 pm	-0.03	331	3.14			1.0000	N/A
Replicates	349.3	328.3	314.3	331.8								
480-193163-I-1-D				UNK	12/16/21 06:28:35 pm	-0.04	296	3.41			1.0000	N/A
Replicates	308.2	277.2	311.4	285.4								
480-193163-I-1-Dsd@5				UNK	12/16/21 06:29:54 pm	-0.05	93	2.16			1.0000	N/A
Replicates	83.5	109.0	101.8	77.0								
CCV				CCV	12/16/21 06:31:13 pm	2.04	29321	2.32			1.0000	102.00
Replicates	29682.1	29840.9	29392.4	28367.1								
CCB				CCB	12/16/21 06:32:31 pm	-0.01	678	43.52			1.0000	N/A
Replicates	713.8	726.5	631.0	641.3								
CCVL				CRDL	12/16/21 06:33:51 pm	0.20	3613	3.15			1.0000	100.91
Replicates	3674.7	3665.9	3628.4	3483.1								

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609016 Batch Start Date: 12/16/21 08:40 Batch Analyst: Stone, Natalie B

Batch Method: 3005A Batch End Date: 12/16/21 12:11

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00159	MED_01_W1 00069	MED_02_W2 00067	MED_03_Ag 00174
MB 480-609016/1		3005A, 6010C		50 mL	50 mL				
LCS 480-609016/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-193436-D-2	MW-3A	3005A, 6010C	T	50 mL	50 mL				
480-193436-D-3	MW-3B	3005A, 6010C	T	50 mL	50 mL				
480-193436-D-3 MS	MW-3B	3005A, 6010C	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-193436-D-3 MSD	MW-3B	3005A, 6010C	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-193436-D-4	MW-4A	3005A, 6010C	T	50 mL	50 mL				
480-193436-D-5	MW-5A	3005A, 6010C	T	50 mL	50 mL				
480-193436-D-6	MW-6A	3005A, 6010C	T	50 mL	50 mL				
480-193436-D-7	MW-6B	3005A, 6010C	T	50 mL	50 mL				
480-193436-D-8	MW-7A	3005A, 6010C	T	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00162	MED_05_S 00119				
MB 480-609016/1		3005A, 6010C							
LCS 480-609016/2		3005A, 6010C		0.25 mL	0.25 mL				
480-193436-D-2	MW-3A	3005A, 6010C	T						
480-193436-D-3	MW-3B	3005A, 6010C	T						
480-193436-D-3 MS	MW-3B	3005A, 6010C	T	0.25 mL	0.25 mL				
480-193436-D-3 MSD	MW-3B	3005A, 6010C	T	0.25 mL	0.25 mL				
480-193436-D-4	MW-4A	3005A, 6010C	T						
480-193436-D-5	MW-5A	3005A, 6010C	T						
480-193436-D-6	MW-6A	3005A, 6010C	T						
480-193436-D-7	MW-6B	3005A, 6010C	T						
480-193436-D-8	MW-7A	3005A, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609016 Batch Start Date: 12/16/21 08:40 Batch Analyst: Stone, Natalie B

Batch Method: 3005A Batch End Date: 12/16/21 12:11

Batch Notes	
pH Indicator ID	HC911298
Digestion Tube/Cup ID	2106023
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	KP
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	6795030
Nitric Acid ID	6814356
Digestion Unit ID	B
Thermometer ID	210702965
Thermometer Location ID	A6
Temperature - Uncorrected - Start	96.1 Degrees C
Temperature - Corrected - Start	96.1 Degrees C
Digestion Start Time	12/16/2021 08:40
Digestion End Time	12/16/2021 12:11
Temperature - Uncorrected - End	93.0 Degrees C
Temperature - Corrected - End	93.0 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 610008 Batch Start Date: 12/27/21 08:36 Batch Analyst: Stone, Natalie B

Batch Method: 3005A Batch End Date: 12/27/21 12:09

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00159	MED_01_W1 00069	MED_02_W2 00067	MED_03_Ag 00174
MB 480-609873/1-A		3005A, 6010C		50 mL	50 mL				
LCS 480-609873/2-A		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-193436-R-6-A	MW-6A	3005A, 6010C	D	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00162	MED_05_S 00119				
MB 480-609873/1-A		3005A, 6010C							
LCS 480-609873/2-A		3005A, 6010C		0.25 mL	0.25 mL				
480-193436-R-6-A	MW-6A	3005A, 6010C	D						

Batch Notes	
pH Indicator ID	HC911298
Digestion Tube/Cup ID	2108282
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	AM
Sufficient Volume for Batch QC	YES
Hydrochloric Acid ID	6818587
Nitric Acid ID	6819139
Digestion Unit ID	C
Thermometer ID	210702965
Thermometer Location ID	B6
Temperature - Uncorrected - Start	95.6 Degrees C
Temperature - Corrected - Start	95.6 Degrees C
Digestion Start Time	12/27/2021 08:36
Digestion End Time	12/27/2021 12:09
Temperature - Uncorrected - End	93.1 Degrees C
Temperature - Corrected - End	93.1 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 610008 Batch Start Date: 12/27/21 08:36 Batch Analyst: Stone, Natalie B

Batch Method: 3005A Batch End Date: 12/27/21 12:09

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609144 Batch Start Date: 12/16/21 13:46 Batch Analyst: Booth, Bryan M

Batch Method: 7470A Batch End Date: 12/16/21 15:46

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG1_WKG 02732	AnalysisComment		
MB 480-609144/1		7470A, 7470A		30 mL	50 mL		KMnO4 x2		
LCS 480-609144/2		7470A, 7470A		30 mL	50 mL	2 mL	KMnO4 x2		
480-193436-D-2	MW-3A	7470A, 7470A	T	30 mL	50 mL				
480-193436-D-3	MW-3B	7470A, 7470A	T	30 mL	50 mL				
480-193436-D-4	MW-4A	7470A, 7470A	T	30 mL	50 mL				
480-193436-D-4 MS	MW-4A	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-193436-D-4 MSD	MW-4A	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-193436-D-5	MW-5A	7470A, 7470A	T	30 mL	50 mL				
480-193436-D-6	MW-6A	7470A, 7470A	T	30 mL	50 mL				
480-193436-D-7	MW-6B	7470A, 7470A	T	30 mL	50 mL				
480-193436-D-8	MW-7A	7470A, 7470A	T	30 mL	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609144 Batch Start Date: 12/16/21 13:46 Batch Analyst: Booth, Bryan M

Batch Method: 7470A Batch End Date: 12/16/21 15:46

Batch Notes	
Digestion Tube/Cup ID	2008043
Pipette/Syringe/Dispenser ID	Hg 8
Analyst ID - Spike Analyst	BB
Nitric Acid ID	6763740
Sulfuric Acid ID	6759394
Potassium Permanganate ID	6773789
Potassium Persulfate ID	6774849
Digestion Unit ID	HG-B
Thermometer ID	170435802
Temperature - Uncorrected - Start	93.4 Degrees C
Temperature - Corrected - Start	94.4 Degrees C
Digestion Start Time	1346
Digestion End Time	1546
Temperature - Uncorrected - End	93.4 Degrees C
Temperature - Corrected - End	94.4 Degrees C
Hydroxylamine ID	6770557
Batch Comment	1 & 2 Prep 1310

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG No.: 193337

Project: Towslee Landfill - Baseline

Client Sample ID	Lab Sample ID
MW-3A	480-193436-2
MW-3B	480-193436-3
MW-4A	480-193436-4
MW-5A	480-193436-5
MW-6A	480-193436-6
MW-6B	480-193436-7
MW-7A	480-193436-8

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3A
Lab Sample ID: 480-193436-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 08:45
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	85.4	20.0		mg/L			2	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.53	0.20		mg/L		F1	1	351.2
	Chemical Oxygen Demand	14.1	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	124	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	ND	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L		H	1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	4.3	1.0		mg/L			1	SM 5310C
	TOC Result 1	4.4	1.0		mg/L			1	SM 5310C
	TOC Result 2	4.2	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3A
Lab Sample ID: 480-193436-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 08:45
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	40.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3B
Lab Sample ID: 480-193436-3
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 09:00
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	158	30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	0.010	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	10.3	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	10.9	5.0		mg/L			1	9038
	Total Dissolved Solids	264	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	21.3	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3B
Lab Sample ID: 480-193436-3
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 09:00
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	10.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-4A
Lab Sample ID: 480-193436-4
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 09:30
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	429	50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.23	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	468	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	9.9	1.0		mg/L		F1	1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	2.1	1.0		mg/L			1	SM 5310C
	TOC Result 1	2.2	1.0		mg/L			1	SM 5310C
	TOC Result 2	1.9	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-4A
Lab Sample ID: 480-193436-4
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 09:30
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	15.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-5A
Lab Sample ID: 480-193436-5
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 09:50
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	156	30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	0.013	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.25	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	11.2	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	ND	0.050		mg/L			1	353.2
14808-79-8	Sulfate	16.5	5.0		mg/L			1	9038
	Total Dissolved Solids	183	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	4.8	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-5A
Lab Sample ID: 480-193436-5
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 09:50
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	15.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6A
Lab Sample ID: 480-193436-6
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 10:20
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	221	30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	2.4	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	26.1	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H H3	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	0.43	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	259	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	2.1	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	4.2	1.0		mg/L			1	SM 5310C
	TOC Result 1	4.3	1.0		mg/L			1	SM 5310C
	TOC Result 2	4.2	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6A
Lab Sample ID: 480-193436-6
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 10:20
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	20.0	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6B
Lab Sample ID: 480-193436-7
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 10:45
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	142	30.0		mg/L			3	310.2
57-12-5	Cyanide, Total	ND	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	ND	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	ND	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H	1	7196A
24959-67-9	Bromide	ND	0.20		mg/L			1	300.0
14797-55-8	Nitrate as N	0.063	0.050		mg/L			1	353.2
14808-79-8	Sulfate	23.5	5.0		mg/L			1	9038
	Total Dissolved Solids	180	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	18.3	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	ND	1.0		mg/L			1	SM 5310C
	TOC Result 1	ND	1.0		mg/L			1	SM 5310C
	TOC Result 2	ND	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-6B
Lab Sample ID: 480-193436-7
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 10:45
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	5.00	5.00		Color Units			1	SM 2120B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-7A
Lab Sample ID: 480-193436-8
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 11:15
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Alkalinity, Total	279	50.0		mg/L			5	310.2
57-12-5	Cyanide, Total	0.011	0.010		mg/L			1	335.4
7664-41-7	Ammonia	ND	0.020		mg/L			1	350.1
	Total Kjeldahl Nitrogen	0.49	0.20		mg/L			1	351.2
	Chemical Oxygen Demand	20.1	10.0		mg/L			1	410.4
	Phenolics, Total Recoverable	ND	0.010		mg/L			1	420.4
18540-29-9	Chromium, hexavalent	ND	0.010		mg/L		H	1	7196A
24959-67-9	Bromide	ND	0.40		mg/L			2	300.0
14797-55-8	Nitrate as N	0.12	0.050		mg/L			1	353.2
14808-79-8	Sulfate	ND	5.0		mg/L			1	9038
	Total Dissolved Solids	295	10.0		mg/L			1	SM 2540C
16887-00-6	Chloride	9.8	1.0		mg/L			1	SM 4500 Cl- E
	Biochemical Oxygen Demand	ND	2.0		mg/L			1	SM 5210B
7440-44-0	Total Organic Carbon - Duplicates	6.4	1.0		mg/L			1	SM 5310C
	TOC Result 1	6.5	1.0		mg/L			1	SM 5310C
	TOC Result 2	6.3	1.0		mg/L			1	SM 5310C

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-7A
Lab Sample ID: 480-193436-8
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-193436-1
SDG ID.: 193337
Matrix: Water
Date Sampled: 12/14/2021 11:15
Reporting Basis: WET
Date Received: 12/15/2021 10:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Color	15.0	5.00		Color Units			1	SM 2120B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Analyst: SRW Batch Start Date: 12/21/2021

Reporting Units: mg/L Analytical Batch No.: 609594

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	01:31	Alkalinity, Total	29.88	32.3	93	90-110		Minerals_00024
8	ICB	01:31	Alkalinity, Total	ND					
17	CCB	01:56	Alkalinity, Total	ND					
18	CCV	01:56	Alkalinity, Total	53.53	50.0	107	90-110		WC_50ppmALK_00180
29	CCB	01:59	Alkalinity, Total	ND					
30	CCV	01:59	Alkalinity, Total	51.43	50.0	103	90-110		WC_50ppmALK_00180
60	CCB	02:07	Alkalinity, Total	ND					
61	CCV	02:08	Alkalinity, Total	52.25	50.0	104	90-110		WC_50ppmALK_00180
72	CCB	02:13	Alkalinity, Total	ND					
73	CCV	02:13	Alkalinity, Total	51.01	50.0	102	90-110		WC_50ppmALK_00180
84	CCB	02:15	Alkalinity, Total	ND					
85	CCV	02:16	Alkalinity, Total	49.30	50.0	99	90-110		WC_50ppmALK_00180
123	CCB	02:27	Alkalinity, Total	ND					
124	CCV	02:27	Alkalinity, Total	52.21	50.0	104	90-110		WC_50ppmALK_00180
128	CCB	02:39	Alkalinity, Total	ND					
129	CCV	02:39	Alkalinity, Total	53.14	50.0	106	90-110		WC_50ppmALK_00180
140	CCB	02:42	Alkalinity, Total	ND					
141	CCV	02:42	Alkalinity, Total	51.25	50.0	103	90-110		WC_50ppmALK_00180
150	CCB	02:48	Alkalinity, Total	ND					
151	CCV	02:48	Alkalinity, Total	52.68	50.0	105	90-110		WC_50ppmALK_00180

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Analyst: JGO Batch Start Date: 12/20/2021

Reporting Units: mg/L Analytical Batch No.: 609504

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	11:21	Cyanide, Total	0.243	0.250	97	90-110		CN CCV_01615
2	CCB	11:23	Cyanide, Total	ND					
13	CCV	11:39	Cyanide, Total	0.252	0.250	101	90-110		CN CCV_01615
14	CCB	11:40	Cyanide, Total	ND					
25	CCV	11:56	Cyanide, Total	0.250	0.250	100	90-110		CN CCV_01615
26	CCB	11:58	Cyanide, Total	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Analyst: CLT Batch Start Date: 12/16/2021

Reporting Units: mg/L Analytical Batch No.: 609112

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	09:27	Ammonia	1.04	1.00	104	90-110		NH3 CCV_01460
2	CCB	09:29	Ammonia	ND					
13	CCV	09:41	Ammonia	1.05	1.00	105	90-110		NH3 CCV_01460
14	CCB	09:42	Ammonia	ND					
25	CCV	09:54	Ammonia	1.04	1.00	104	90-110		NH3 CCV_01460
26	CCB	09:55	Ammonia	ND					
37	CCV	10:07	Ammonia	1.05	1.00	105	90-110		NH3 CCV_01460
38	CCB	10:08	Ammonia	ND					
49	CCV	10:20	Ammonia	1.05	1.00	105	90-110		NH3 CCV_01460
50	CCB	10:21	Ammonia	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Analyst: CLT Batch Start Date: 12/17/2021

Reporting Units: mg/L Analytical Batch No.: 609250

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	06:12	Total Kjeldahl Nitrogen	2.48	2.50	99	90-110		TKN CCV_01308
2	CCB	06:12	Total Kjeldahl Nitrogen	ND					
6	CCV	06:15	Total Kjeldahl Nitrogen	2.51	2.50	100	90-110		TKN CCV_01308
7	CCB	06:15	Total Kjeldahl Nitrogen	ND					
18	CCV	07:11	Total Kjeldahl Nitrogen	2.47	2.50	99	90-110		TKN CCV_01308
19	CCB	07:11	Total Kjeldahl Nitrogen	ND					
31	CCV	07:31	Total Kjeldahl Nitrogen	2.45	2.50	98	90-110		TKN CCV_01308
32	CCB	07:31	Total Kjeldahl Nitrogen	ND					
43	CCV	08:03	Total Kjeldahl Nitrogen	2.50	2.50	100	90-110		TKN CCV_01308
44	CCB	08:03	Total Kjeldahl Nitrogen	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Analyst: CSS Batch Start Date: 12/17/2021

Reporting Units: mg/L Analytical Batch No.: 609392

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	19:30	Chemical Oxygen Demand	76.72	75.0	102	90-110		COD 75 PPM_00045
3	CCB	19:30	Chemical Oxygen Demand	ND					
14	CCV	19:30	Chemical Oxygen Demand	73.07	75.0	97	90-110		COD 75 PPM_00045
15	CCB	19:30	Chemical Oxygen Demand	ND					
26	CCV	19:30	Chemical Oxygen Demand	77.21	75.0	103	90-110		COD 75 PPM_00045
27	CCB	19:30	Chemical Oxygen Demand	ND					
38	CCV	19:30	Chemical Oxygen Demand	75.95	75.0	101	90-110		COD 75 PPM_00045
39	CCB	19:30	Chemical Oxygen Demand	ND					
50	CCV	19:30	Chemical Oxygen Demand	76.93	75.0	103	90-110		COD 75 PPM_00045
51	CCB	19:30	Chemical Oxygen Demand	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Analyst: CLT Batch Start Date: 12/16/2021

Reporting Units: mg/L Analytical Batch No.: 609155

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	ICV	07:50	Phenolics, Total Recoverable	0.0928	0.100	93	90-110		Phenol ICV_00337
11	ICB	07:54	Phenolics, Total Recoverable	ND					
14	CCV	08:06	Phenolics, Total Recoverable	0.0954	0.100	95	90-110		WC_Phenol_CCV_00470
15	CCB	08:09	Phenolics, Total Recoverable	ND					
26	CCV	08:49	Phenolics, Total Recoverable	0.0942	0.100	94	90-110		WC_Phenol_CCV_00470
27	CCB	08:53	Phenolics, Total Recoverable	ND					
40	CCV	09:40	Phenolics, Total Recoverable	0.0940	0.100	94	90-110		WC_Phenol_CCV_00470
41	CCB	09:44	Phenolics, Total Recoverable	ND					
54	CCV	10:32	Phenolics, Total Recoverable	0.0931	0.100	93	90-110		WC_Phenol_CCV_00470
55	CCB	10:35	Phenolics, Total Recoverable	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Analyst: RJM Batch Start Date: 12/15/2021

Reporting Units: mg/L Analytical Batch No.: 609017

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:28	Chromium, hexavalent	0.0525	0.0500	105	85-115		HEX INT STD_00109
2	CCB	13:28	Chromium, hexavalent	ND					
13	CCV	13:28	Chromium, hexavalent	0.0525	0.0500	105	85-115		HEX INT STD_00109
14	CCB	13:28	Chromium, hexavalent	ND					
24	CCV	13:28	Chromium, hexavalent	0.0539	0.0500	108	85-115		HEX INT STD_00109
25	CCB	13:28	Chromium, hexavalent	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Analyst: MJB Batch Start Date: 12/15/2021

Reporting Units: Color Units Analytical Batch No.: 609043

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	16:48	Color	30.00	30.0	100	90-110		Color Std-2_00020
2	CCB	16:48	Color	ND					
13	CCV	16:48	Color	30.00	30.0	100	90-110		Color Std-2_00020
14	CCB	16:48	Color	ND					
25	CCV	16:48	Color	30.00	30.0	100	90-110		Color Std-2_00020
26	CCB	16:48	Color	ND					
33	CCV	16:48	Color	30.00	30.0	100	90-110		Color Std-2_00020
34	CCB	16:48	Color	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Analyst: IMZ Batch Start Date: 12/21/2021

Reporting Units: mg/L Analytical Batch No.: 609673

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	13:55	Bromide	4.92	5.00	98	90-110		IC_ANION_LCS__00396
3	CCB	14:14	Bromide	ND					
14	CCV	17:43	Bromide	4.88	5.00	98	90-110		IC_ANION_LCS__00396
15	CCB	18:02	Bromide	ND					
26	CCV	21:31	Bromide	4.91	5.00	98	90-110		IC_ANION_LCS__00396
27	CCB	21:50	Bromide	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Analyst: SRW Batch Start Date: 12/16/2021

Reporting Units: mg/L Analytical Batch No.: 609236

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
9	ICB	19:01	Sulfate	ND					
10	ICV	19:01	Sulfate	31.04	30.0	103	90-110		Sulf 30ppm_00185
160	CCB	21:14	Sulfate	ND					
161	CCV	21:14	Sulfate	29.50	30.0	98	90-110		Sulf 30ppm_00184
164	CCB	01:46	Sulfate	ND					
165	CCV	01:46	Sulfate	28.36	30.0	95	90-110		Sulf 30ppm_00184
208	CCB	02:59	Sulfate	ND					
209	CCV	03:00	Sulfate	27.81	30.0	93	90-110		Sulf 30ppm_00184
213	CCB	03:01	Sulfate	ND					
214	CCV	03:01	Sulfate	27.72	30.0	92	90-110		Sulf 30ppm_00184
219	CCB	03:04	Sulfate	ND					
220	CCV	03:04	Sulfate	27.49	30.0	92	90-110		Sulf 30ppm_00184
225	CCB	03:06	Sulfate	ND					
226	CCV	03:06	Sulfate	30.69	30.0	102	90-110		Sulf 30ppm_00184
231	CCB	03:07	Sulfate	ND					
232	CCV	03:08	Sulfate	27.27	30.0	91	90-110		Sulf 30ppm_00184
237	CCB	03:09	Sulfate	ND					
238	CCV	03:09	Sulfate	27.94	30.0	93	90-110		Sulf 30ppm_00184

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Analyst: SRW Batch Start Date: 12/13/2021

Reporting Units: mg/L Analytical Batch No.: 609377

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICB	17:59	Chloride	ND					
9	ICV	18:07	Chloride	58.21	61.9	94	90-110		Minerals_00024
21	CCB	18:49	Chloride	ND					
22	CCV	18:49	Chloride	26.30	25.0	105	90-110		WC25ppmChlInt_00155
29	CCB	18:56	Chloride	ND					
30	CCV	18:56	Chloride	26.36	25.0	105	90-110		WC25ppmChlInt_00155
41	CCB	19:00	Chloride	ND					
42	CCV	19:01	Chloride	26.19	25.0	105	90-110		WC25ppmChlInt_00155
53	CCB	19:13	Chloride	ND					
54	CCV	19:14	Chloride	26.22	25.0	105	90-110		WC25ppmChlInt_00155

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Analyst: IMZ Batch Start Date: 12/20/2021

Reporting Units: mg/L Analytical Batch No.: 609655

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	13:11	Total Organic Carbon - Duplicates	59.18	60.0	99	90-110		TOC_CCV_00191
			TOC Result 1	60.23	60.0	100	90-110		TOC_CCV_00191
			TOC Result 2	58.13	60.0	97	90-110		TOC_CCV_00191
3	CCB	13:26	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
14	CCV	16:19	Total Organic Carbon - Duplicates	58.88	60.0	98	90-110		TOC_CCV_00191
			TOC Result 1	59.13	60.0	99	90-110		TOC_CCV_00191
			TOC Result 2	58.63	60.0	98	90-110		TOC_CCV_00191
15	CCB	16:34	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					
26	CCV	19:22	Total Organic Carbon - Duplicates	58.09	60.0	97	90-110		TOC_CCV_00191
			TOC Result 1	57.82	60.0	96	90-110		TOC_CCV_00191
			TOC Result 2	58.37	60.0	97	90-110		TOC_CCV_00191
27	CCB	19:37	Total Organic Carbon - Duplicates	ND					
			TOC Result 1	ND					
			TOC Result 2	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 609673 Date: 12/21/2021 14:52							
300.0	MB 480-609673/5	Bromide	ND		mg/L	0.20	1
Batch ID: 609594 Date: 12/21/2021 01:56							
310.2	MB 480-609594/20	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609594 Date: 12/21/2021 02:08							
310.2	MB 480-609594/63	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609594 Date: 12/21/2021 02:13							
310.2	MB 480-609594/75	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609594 Date: 12/21/2021 02:27							
310.2	MB 480-609594/126	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609594 Date: 12/21/2021 02:39							
310.2	MB 480-609594/131	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609594 Date: 12/21/2021 02:42							
310.2	MB 480-609594/143	Alkalinity, Total	ND		mg/L	10.0	1
Batch ID: 609504 Date: 12/20/2021 11:24 Prep Batch: 609491 Date: 12/20/2021 10:38							
335.4	MB 480-609491/1-A	Cyanide, Total	ND		mg/L	0.010	1
Batch ID: 609112 Date: 12/16/2021 09:30							
350.1	MB 480-609112/3	Ammonia	ND		mg/L	0.020	1
Batch ID: 609112 Date: 12/16/2021 09:56							
350.1	MB 480-609112/27	Ammonia	ND		mg/L	0.020	1
Batch ID: 609250 Date: 12/17/2021 07:02 Prep Batch: 609130 Date: 12/16/2021 11:28							
351.2	MB 480-609130/1-A	Total Kjeldahl Nitrogen	ND		mg/L	0.20	1
Batch ID: 609392 Date: 12/17/2021 19:30							
410.4	MB 480-609392/4	Chemical Oxygen Demand	ND		mg/L	10.0	1
Batch ID: 609392 Date: 12/17/2021 19:30							
410.4	MB 480-609392/28	Chemical Oxygen Demand	ND		mg/L	10.0	1
Batch ID: 609155 Date: 12/16/2021 08:12							
420.4	MB 480-609155/16	Phenolics, Total Recoverable	ND		mg/L	0.010	1
Batch ID: 609155 Date: 12/16/2021 09:56							
420.4	MB 480-609155/44	Phenolics, Total Recoverable	ND		mg/L	0.010	1
Batch ID: 609017 Date: 12/15/2021 13:28							
7196A	MB 480-609017/3	Chromium, hexavalent	ND		mg/L	0.010	1
Batch ID: 609236 Date: 12/16/2021 21:16							
9038	MB 480-609236/162	Sulfate	ND		mg/L	5.0	1
Batch ID: 609043 Date: 12/15/2021 16:48							
SM 2120B	MB 480-609043/3	Color	ND		Color Units	5.00	1
Batch ID: 609043 Date: 12/15/2021 16:48							
SM 2120B	MB 480-609043/27	Color	ND		Color Units	5.00	1
Batch ID: 609137 Date: 12/16/2021 11:55							
SM 2540C	MB 480-609137/1	Total Dissolved Solids	ND		mg/L	10.0	1
Batch ID: 609158 Date: 12/16/2021 13:25							
SM 2540C	MB 480-609158/1	Total Dissolved Solids	ND		mg/L	10.0	1
Batch ID: 609377 Date: 12/17/2021 18:49							
SM 4500 Cl- E	MB 480-609377/24	Chloride	ND		mg/L	1.0	1

FORM III-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 609377 Date: 12/17/2021 18:57							
SM 4500 Cl- E	MB 480-609377/32	Chloride	ND		mg/L	1.0	1
Batch ID: 609377 Date: 12/17/2021 19:01							
SM 4500 Cl- E	MB 480-609377/44	Chloride	ND		mg/L	1.0	1
Batch ID: 609214 Date: 12/16/2021 08:54							
SM 5210B	MB 480-609214/1	Biochemical Oxygen Demand	ND		mg/L	2.0	1
Batch ID: 609214 Date: 12/16/2021 08:54							
SM 5210B	MB 480-609214/24	Biochemical Oxygen Demand	ND		mg/L	2.0	1
Batch ID: 609655 Date: 12/20/2021 13:42							
SM 5310C	MB 480-609655/4	Total Organic Carbon - Duplicates	ND		mg/L	1.0	1
SM 5310C	MB 480-609655/4	TOC Result 1	ND		mg/L	1.0	1
SM 5310C	MB 480-609655/4	TOC Result 2	ND		mg/L	1.0	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 609673	Date: 12/21/2021 17:05										
300.0	480-193436-2	Bromide	ND		mg/L						
300.0	480-193436-2 MS	Bromide	4.49		mg/L	5.00	90	80-120			
Batch ID: 609504	Date: 12/20/2021 11:35	Prep Batch: 609491	Date: 12/20/2021 10:38								
335.4	480-193436-3	Cyanide, Total	0.010		mg/L						
335.4	480-193436-3 MS	Cyanide, Total	0.111		mg/L	0.100	101	90-110			
Batch ID: 609250	Date: 12/17/2021 07:54	Prep Batch: 609130	Date: 12/16/2021 11:28								
351.2	480-193436-2	Total Kjeldahl Nitrogen	0.53		mg/L						F1
351.2	480-193436-2 MS	Total Kjeldahl Nitrogen	1.77		mg/L	1.00	123	90-110			F1
Batch ID: 609155	Date: 12/16/2021 10:06										
420.4	480-193436-8	Phenolics, Total Recoverable	ND		mg/L						
420.4	480-193436-8 MS	Phenolics, Total Recoverable	0.0897		mg/L	0.100	90	90-110			
Batch ID: 609236	Date: 12/17/2021 03:03										
9038	480-193436-3	Sulfate	10.9		mg/L						
9038	480-193436-3 MS	Sulfate	33.25		mg/L	20.0	112	60-128			
Batch ID: 609236	Date: 12/17/2021 03:06										
9038	480-193436-5	Sulfate	16.5		mg/L						
9038	480-193436-5 MS	Sulfate	36.09		mg/L	20.0	98	60-128			
Batch ID: 609377	Date: 12/17/2021 19:00										
SM 4500 Cl- E	480-193436-4	Chloride	9.9		mg/L						F1
SM 4500 Cl- E	480-193436-4 MS	Chloride	31.59		mg/L	20.0	109	74-131			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 609673 Date: 12/21/2021 17:24											
300.0	480-193436-2 MSD	Bromide	4.47		mg/L	5.00	89	80-120	0	15	
Batch ID: 609236 Date: 12/17/2021 03:04											
9038	480-193436-3 MSD	Sulfate	36.07		mg/L	20.0	126	60-128	8	20	
Batch ID: 609236 Date: 12/17/2021 03:07											
9038	480-193436-5 MSD	Sulfate	39.57		mg/L	20.0	115	60-128	9	20	
Batch ID: 609377 Date: 12/17/2021 19:00											
SM 4500 Cl- E	480-193436-4 MSD	Chloride	31.79		mg/L	20.0	110	74-131	1	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 609504	Date: 12/20/2021 11:32		Prep Batch: 609491	Date: 12/20/2021 10:38				
335.4	MW-3A	480-193436-2	Cyanide, Total	ND	mg/L			
335.4	MW-3A	480-193436-2 DU	Cyanide, Total	ND	mg/L	NC	15	
Batch ID: 609043	Date: 12/15/2021 16:48							
SM 2120B	MW-4A	480-193436-4	Color	15.0	Color Units			
SM 2120B	MW-4A	480-193436-4 DU	Color	15.00	Color Units	0	20	
Batch ID: 609043	Date: 12/15/2021 16:48							
SM 2120B	MW-5A	480-193436-5	Color	15.0	Color Units			
SM 2120B	MW-5A	480-193436-5 DU	Color	15.00	Color Units	0	20	
Batch ID: 609043	Date: 12/15/2021 16:48							
SM 2120B	MW-7A	480-193436-8	Color	15.0	Color Units			
SM 2120B	MW-7A	480-193436-8 DU	Color	15.00	Color Units	0	20	
Batch ID: 609137	Date: 12/16/2021 11:55							
SM 2540C	MW-3B	480-193436-3	Total Dissolved Solids	264	mg/L			
SM 2540C	MW-3B	480-193436-3 DU	Total Dissolved Solids	278.0	mg/L	5	10	
Batch ID: 609158	Date: 12/16/2021 13:25							
SM 2540C	MW-4A	480-193436-4	Total Dissolved Solids	468	mg/L			
SM 2540C	MW-4A	480-193436-4 DU	Total Dissolved Solids	463.0	mg/L	1	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 609673	Date: 12/21/2021 14:33										
						LCS Source: IC_ANION_LCS__00396					
300.0	LCS 480-609673/4	Bromide	4.83		mg/L	5.00	97	90-110			
Batch ID: 609594	Date: 12/21/2021 01:56										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609594/19	Alkalinity, Total	53.10		mg/L	50.0	106	90-110			
Batch ID: 609594	Date: 12/21/2021 02:13										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609594/74	Alkalinity, Total	52.35		mg/L	50.0	105	90-110			
Batch ID: 609594	Date: 12/21/2021 02:39										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609594/130	Alkalinity, Total	50.39		mg/L	50.0	101	90-110			
Batch ID: 609594	Date: 12/21/2021 02:42										
						LCS Source: WC_50ppmALK_00180					
310.2	LCS 480-609594/142	Alkalinity, Total	54.25		mg/L	50.0	108	90-110			
Batch ID: 609504	Date: 12/20/2021 11:26	Prep Batch: 609491	Date: 12/20/2021 10:38								
						LCS Source: LCS 400_00224					
335.4	LCS 480-609491/2-A	Cyanide, Total	0.440		mg/L	0.400	110	90-110			
Batch ID: 609504	Date: 12/20/2021 11:27	Prep Batch: 609491	Date: 12/20/2021 10:38								
						LCS Source: CN LCS 250_00234					
335.4	LCS 480-609491/3-A	Cyanide, Total	0.269		mg/L	0.250	108	90-110			
Batch ID: 609112	Date: 12/16/2021 09:31										
						LCS Source: NH3 CCV_01460					
350.1	LCS 480-609112/4	Ammonia	1.05		mg/L	1.00	105	90-110			
Batch ID: 609112	Date: 12/16/2021 09:57										
						LCS Source: NH3 CCV_01460					
350.1	LCS 480-609112/28	Ammonia	1.05		mg/L	1.00	105	90-110			
Batch ID: 609250	Date: 12/17/2021 06:12	Prep Batch: 609130	Date: 12/16/2021 11:28								
						LCS Source: TKN1000ppmSTD_00016					
351.2	LCS 480-609130/2-A	Total Kjeldahl Nitrogen	2.36		mg/L	2.50	94	90-110			
Batch ID: 609392	Date: 12/17/2021 19:30										
						LCS Source: COD 25 PPM_00082					
410.4	LCS 480-609392/5	Chemical Oxygen Demand	26.35		mg/L	25.0	105	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 609392	Date: 12/17/2021 19:30										
						LCS Source: COD 25 PPM_00082					
410.4	LCS 480-609392/29	Chemical Oxygen Demand	26.77		mg/L	25.0	107	90-110			
Batch ID: 609155	Date: 12/16/2021 08:16										
						LCS Source: WC_Phenol_CCV_00470					
420.4	LCS 480-609155/17	Phenolics, Total Recoverable	0.0947		mg/L	0.100	95	90-110			
Batch ID: 609155	Date: 12/16/2021 09:58										
						LCS Source: WC_Phenol_CCV_00470					
420.4	LCS 480-609155/45	Phenolics, Total Recoverable	0.0930		mg/L	0.100	93	90-110			
Batch ID: 609017	Date: 12/15/2021 13:28										
						LCS Source: HEX INT STD_00109					
7196A	LCS 480-609017/4	Chromium, hexavalent	0.0539		mg/L	0.0500	108	85-115			
Batch ID: 609236	Date: 12/16/2021 21:16										
						LCS Source: Sulf 30ppm_00184					
9038	LCS 480-609236/163	Sulfate	29.34		mg/L	30.0	98	90-110			
Batch ID: 609043	Date: 12/15/2021 16:48										
						LCS Source: Color Std-2_00020					
SM 2120B	LCS 480-609043/4	Color	30.00		Color Units	30.0	100	90-110			
Batch ID: 609043	Date: 12/15/2021 16:48										
						LCS Source: Color Std-2_00020					
SM 2120B	LCS 480-609043/28	Color	30.00		Color Units	30.0	100	90-110			
Batch ID: 609137	Date: 12/16/2021 11:55										
						LCS Source: NaCl Std 02_00420					
SM 2540C	LCS 480-609137/2	Total Dissolved Solids	452.0		mg/L	504	90	85-115			
Batch ID: 609158	Date: 12/16/2021 13:25										
						LCS Source: NaCl Std 02_00420					
SM 2540C	LCS 480-609158/2	Total Dissolved Solids	485.0		mg/L	504	96	85-115			
Batch ID: 609377	Date: 12/17/2021 18:56										
						LCS Source: WC25ppmChlInt_00155					
SM 4500 Cl- E	LCS 480-609377/31	Chloride	26.25		mg/L	25.0	105	90-110			
Batch ID: 609377	Date: 12/17/2021 19:01										
						LCS Source: WC25ppmChlInt_00155					
SM 4500 Cl- E	LCS 480-609377/43	Chloride	26.11		mg/L	25.0	104	90-110			
Batch ID: 609214	Date: 12/16/2021 08:54										
						LCS Source: GGA_00014					
SM 5210B	LCS 480-609214/2	Biochemical Oxygen Demand	9230		mg/L	9900	93	85-115			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 609214	Date: 12/16/2021 08:54										
						LCS Source: GGA_00014					
SM 5210B	LCS 480-609214/25	Biochemical Oxygen Demand	8846		mg/L	9900	89	85-115			
Batch ID: 609655	Date: 12/20/2021 13:57										
						LCS Source: TOC_LCS_00188					
SM 5310C	LCS 480-609655/5	Total Organic Carbon - Duplicates	60.21		mg/L	60.0	100	90-110			
SM 5310C	LCS 480-609655/5	TOC Result 1	60.69		mg/L	60.0	101	90-110			
SM 5310C	LCS 480-609655/5	TOC Result 2	59.72		mg/L	60.0	100	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: 310.2 MDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity, Total		10	4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: 310.2 XMDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity, Total		10	4

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT2

Method: 335.4 MDL Date: 01/29/2010 00:00

Prep Method: Distill/CN

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cyanide, Total		0.01	0.005

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT2

Method: 335.4 XMDL Date: 01/29/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.005

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT1

Method: 350.1 MDL Date: 01/12/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ammonia		0.02	0.009

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT1

Method: 350.1 XMDL Date: 01/12/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ammonia		0.02	0.009

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: KONE1

Method: 351.2 MDL Date: 01/19/2021 13:21

Prep Method: 351.2

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Kjeldahl Nitrogen		0.2	0.187

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: KONE1

Method: 351.2 XMDL Date: 01/19/2021 13:21

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Kjeldahl Nitrogen		0.2	0.187

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: COD Robot

Method: 410.4 MDL Date: 11/08/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chemical Oxygen Demand		10	5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: COD Robot

Method: 410.4 XMDL Date: 11/08/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chemical Oxygen Demand		10	5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: Skalar_San+

Method: 420.4 MDL Date: 07/30/2019 13:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Phenolics, Total Recoverable		0.01	0.0035

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: Skalar_San+

Method: 420.4 XMDL Date: 07/30/2019 13:21

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Phenolics, Total Recoverable		0.01	0.0035

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: Genesys Spec 30

Method: 7196A MDL Date: 09/30/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chromium, hexavalent		0.01	0.005

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: Genesys Spec 30

Method: 7196A XMDL Date: 09/30/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chromium, hexavalent		0.01	0.005

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2120B RL Date: 06/25/2014 09:48

Analyte	Wavelength/ Mass	RL (Color Units)	
Color		5	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2120B XRL Date: 08/17/2009 09:56

Analyte	Wavelength/ Mass	XRL (Color Units)	
Color		5	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: IC-5

Method: 300.0 MDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Bromide		0.2	0.073

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: IC-5

Method: 300.0 XMDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Bromide		0.2	0.073

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT3

Method: 353.2 MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate as N		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: LACHAT3

Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate as N		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: 9038 MDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		5	1.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: 9038 XMDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		5	1.5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: Balance-3

Method: SM 2540C MDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Dissolved Solids		10	4

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: Balance-3

Method: SM 2540C XMDL Date: 08/17/2009 10:52

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Dissolved Solids		10	4

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: SM 4500 Cl- E MDL Date: 08/17/2009 10:18

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		1	0.46

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: Gallery 1

Method: SM 4500 Cl- E XMDL Date: 08/17/2009 10:18

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		1	0.46

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 5210B MDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: NOEQUIP

Method: SM 5210B XMDL Date: 08/17/2009 10:51

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: TOC10305

Method: SM 5310C MDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
TOC Result 1		1	0.434
TOC Result 2		1	0.434
Total Organic Carbon - Duplicates		1	0.434

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-193436-1

SDG Number: 193337

Matrix: Water Instrument ID: TOC10305

Method: SM 5310C XMDL Date: 04/13/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
TOC Result 1		1	0.434
TOC Result 2		1	0.434
Total Organic Carbon - Duplicates		1	0.434

11-IN
LINEAR RANGES
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-193436-1

SDG No.: 193337

Instrument ID: Genesys Spec 30 Date: 03/12/2020 10:22

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Chromium, hexavalent		0.4	7196A

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Prep Method: 351.2

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-609130/1-A	12/16/2021 11:28	609130		25	25
LCS 480-609130/2-A	12/16/2021 11:28	609130		25	25
480-193436-2	12/16/2021 11:28	609130		25	25
480-193436-2 MS	12/16/2021 11:28	609130		25	25
480-193436-3	12/16/2021 11:28	609130		25	25
480-193436-4	12/16/2021 11:28	609130		25	25
480-193436-5	12/16/2021 11:28	609130		25	25
480-193436-6	12/16/2021 11:28	609130		25	25
480-193436-7	12/16/2021 11:28	609130		25	25
480-193436-8	12/16/2021 11:28	609130		25	25

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Prep Method: Distill/CN

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-609491/1-A	12/20/2021 10:38	609491		6	6
LCS 480-609491/2-A	12/20/2021 10:38	609491		6	6
LCS 480-609491/3-A	12/20/2021 10:38	609491		6	6
480-193436-2	12/20/2021 10:38	609491		6	6
480-193436-2 DU	12/20/2021 10:38	609491		6	6
480-193436-3	12/20/2021 10:38	609491		6	6
480-193436-3 MS	12/20/2021 10:38	609491		6	6
480-193436-4	12/20/2021 10:38	609491		6	6
480-193436-5	12/20/2021 10:38	609491		6	6
480-193436-6	12/20/2021 10:38	609491		6	6
480-193436-7	12/20/2021 10:38	609491		6	6
480-193436-8	12/20/2021 10:38	609491		6	6

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 12/21/2021 01:30 End Date: 12/21/2021 02:48

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
IC 480-609594/1			01:30	X																			
IC 480-609594/2			01:30	X																			
IC 480-609594/3			01:30	X																			
IC 480-609594/4			01:30	X																			
IC 480-609594/5			01:31	X																			
IC 480-609594/6			01:31	X																			
ICV 480-609594/7	1		01:31	X																			
ICB 480-609594/8	1		01:31	X																			
CCB 480-609594/9			01:53																				
CCV 480-609594/10			01:53																				
ZZZZZZ			01:54																				
ZZZZZZ			01:54																				
ZZZZZZ			01:55																				
ZZZZZZ			01:55																				
ZZZZZZ			01:56																				
ZZZZZZ			01:56																				
CCB 480-609594/17	1		01:56	X																			
CCV 480-609594/18	1		01:56	X																			
LCS 480-609594/19	1	T	01:56	X																			
MB 480-609594/20	1	T	01:56	X																			
ZZZZZZ			01:57																				
ZZZZZZ			01:57																				
ZZZZZZ			01:57																				
ZZZZZZ			01:58																				
ZZZZZZ			01:58																				
ZZZZZZ			01:58																				
ZZZZZZ			01:58																				
ZZZZZZ			01:58																				
CCB 480-609594/29	1		01:59	X																			
CCV 480-609594/30	1		01:59	X																			
ZZZZZZ			01:59																				
ZZZZZZ			01:59																				
ZZZZZZ			02:00																				
ZZZZZZ			02:00																				
ZZZZZZ			02:00																				
ZZZZZZ			02:00																				
ZZZZZZ			02:01																				
ZZZZZZ			02:01																				
ZZZZZZ			02:01																				
CCB 480-609594/40			02:02																				
CCV 480-609594/41			02:02																				
ZZZZZZ			02:02																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 12/21/2021 01:30 End Date: 12/21/2021 02:48

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			02:02																				
ZZZZZZ			02:02																				
ZZZZZZ			02:03																				
ZZZZZZ			02:03																				
ZZZZZZ			02:03																				
ZZZZZZ			02:03																				
CCB 480-609594/49			02:04																				
CCV 480-609594/50			02:04																				
ZZZZZZ			02:04																				
ZZZZZZ			02:05																				
ZZZZZZ			02:06																				
ZZZZZZ			02:06																				
ZZZZZZ			02:06																				
ZZZZZZ			02:06																				
ZZZZZZ			02:07																				
ZZZZZZ			02:07																				
ZZZZZZ			02:07																				
CCB 480-609594/60	1		02:07	X																			
CCV 480-609594/61	1		02:08	X																			
ZZZZZZ			02:08																				
MB 480-609594/63	1	T	02:08	X																			
ZZZZZZ			02:08																				
ZZZZZZ			02:08																				
ZZZZZZ			02:09																				
ZZZZZZ			02:09																				
ZZZZZZ			02:09																				
ZZZZZZ			02:10																				
ZZZZZZ			02:10																				
ZZZZZZ			02:11																				
CCB 480-609594/72	1		02:13	X																			
CCV 480-609594/73	1		02:13	X																			
LCS 480-609594/74	1	T	02:13	X																			
MB 480-609594/75	1	T	02:13	X																			
480-193436-4	5	T	02:14	X																			
480-193436-5	3	T	02:14	X																			
480-193436-6	3	T	02:14	X																			
480-193436-7	3	T	02:15	X																			
480-193436-8	5	T	02:15	X																			
ZZZZZZ			02:15																				
ZZZZZZ			02:15																				
ZZZZZZ			02:15																				
CCB 480-609594/84	1		02:15	X																			

ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 12/21/2021 01:30 End Date: 12/21/2021 02:48

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
CCV 480-609594/85	1		02:16	X																			
ZZZZZZ			02:16																				
ZZZZZZ			02:16																				
ZZZZZZ			02:16																				
ZZZZZZ			02:17																				
ZZZZZZ			02:17																				
ZZZZZZ			02:17																				
ZZZZZZ			02:18																				
CCB 480-609594/93			02:18																				
CCV 480-609594/94			02:18																				
ZZZZZZ			02:18																				
ZZZZZZ			02:19																				
ZZZZZZ			02:20																				
ZZZZZZ			02:20																				
ZZZZZZ			02:20																				
ZZZZZZ			02:20																				
ZZZZZZ			02:21																				
CCB 480-609594/102			02:21																				
CCV 480-609594/103			02:21																				
ZZZZZZ			02:21																				
ZZZZZZ			02:22																				
ZZZZZZ			02:22																				
ZZZZZZ			02:23																				
ZZZZZZ			02:23																				
ZZZZZZ			02:23																				
ZZZZZZ			02:24																				
CCB 480-609594/111			02:24																				
CCV 480-609594/112			02:24																				
ZZZZZZ			02:24																				
ZZZZZZ			02:24																				
ZZZZZZ			02:24																				
ZZZZZZ			02:25																				
ZZZZZZ			02:25																				
ZZZZZZ			02:25																				
ZZZZZZ			02:25																				
ZZZZZZ			02:26																				
ZZZZZZ			02:26																				
ZZZZZZ			02:26																				
CCB 480-609594/123	1		02:27	X																			
CCV 480-609594/124	1		02:27	X																			
ZZZZZZ			02:27																				
MB 480-609594/126	1	T	02:27	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 310.2

Start Date: 12/21/2021 01:30 End Date: 12/21/2021 02:48

Lab Sample ID	D / F	Type	Time	Analytes																			
				Alk																			
ZZZZZZ			02:39																				
CCB 480-609594/128	1		02:39	X																			
CCV 480-609594/129	1		02:39	X																			
LCS 480-609594/130	1	T	02:39	X																			
MB 480-609594/131	1	T	02:39	X																			
ZZZZZZ			02:40																				
ZZZZZZ			02:40																				
ZZZZZZ			02:40																				
ZZZZZZ			02:41																				
ZZZZZZ			02:41																				
ZZZZZZ			02:41																				
ZZZZZZ			02:41																				
ZZZZZZ			02:41																				
CCB 480-609594/140	1		02:42	X																			
CCV 480-609594/141	1		02:42	X																			
LCS 480-609594/142	1	T	02:42	X																			
MB 480-609594/143	1	T	02:42	X																			
480-193436-2	2	T	02:42	X																			
480-193436-3	3	T	02:43	X																			
ZZZZZZ			02:43																				
ZZZZZZ			02:43																				
ZZZZZZ			02:44																				
ZZZZZZ			02:48																				
CCB 480-609594/150	1		02:48	X																			
CCV 480-609594/151	1		02:48	X																			
ZZZZZZ			02:48																				
ZZZZZZ			02:48																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: LACHAT2 Method: 335.4

Start Date: 12/20/2021 11:21 End Date: 12/20/2021 12:05

Lab Sample ID	D/F	Type	Time	Analytes																			
				CN																			
CCV 480-609504/1	1		11:21	X																			
CCB 480-609504/2	1		11:23	X																			
MB 480-609491/1-A	1	T	11:24	X																			
LCS 480-609491/2-A	1	T	11:26	X																			
LCS 480-609491/3-A	1	T	11:27	X																			
ZZZZZZ			11:29																				
480-193436-2	1	T	11:30	X																			
480-193436-2 DU	1	T	11:32	X																			
480-193436-3	1	T	11:33	X																			
480-193436-3 MS	1	T	11:35	X																			
480-193436-4	1	T	11:36	X																			
480-193436-5	1	T	11:37	X																			
CCV 480-609504/13	1		11:39	X																			
CCB 480-609504/14	1		11:40	X																			
480-193436-6	1	T	11:42	X																			
480-193436-7	1	T	11:43	X																			
480-193436-8	1	T	11:45	X																			
ZZZZZZ			11:46																				
ZZZZZZ			11:47																				
ZZZZZZ			11:49																				
ZZZZZZ			11:50																				
ZZZZZZ			11:52																				
ZZZZZZ			11:53																				
ZZZZZZ			11:55																				
CCV 480-609504/25	1		11:56	X																			
CCB 480-609504/26	1		11:58	X																			
ZZZZZZ			11:59																				
ZZZZZZ			12:00																				
ZZZZZZ			12:02																				
CCV 480-609504/30			12:03																				
CCB 480-609504/31			12:05																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: LACHAT1 Method: 350.1

Start Date: 12/16/2021 09:27 End Date: 12/16/2021 10:59

Lab Sample ID	D/F	Type	Time	Analytes																			
				NH3																			
CCV 480-609112/1	1		09:27	X																			
CCB 480-609112/2	1		09:29	X																			
MB 480-609112/3	1	T	09:30	X																			
LCS 480-609112/4	1	T	09:31	X																			
ZZZZZZ			09:32																				
ZZZZZZ			09:33																				
ZZZZZZ			09:34																				
ZZZZZZ			09:35																				
ZZZZZZ			09:36																				
ZZZZZZ			09:37																				
ZZZZZZ			09:38																				
480-193436-2	1	T	09:40	X																			
CCV 480-609112/13	1		09:41	X																			
CCB 480-609112/14	1		09:42	X																			
ZZZZZZ			09:43																				
ZZZZZZ			09:44																				
ZZZZZZ			09:45																				
480-193436-3	1	T	09:46	X																			
480-193436-4	1	T	09:47	X																			
480-193436-5	1	T	09:48	X																			
480-193436-6	1	T	09:49	X																			
480-193436-7	1	T	09:51	X																			
480-193436-8	1	T	09:52	X																			
ZZZZZZ			09:53																				
CCV 480-609112/25	1		09:54	X																			
CCB 480-609112/26	1		09:55	X																			
MB 480-609112/27	1	T	09:56	X																			
LCS 480-609112/28	1	T	09:57	X																			
ZZZZZZ			09:58																				
ZZZZZZ			09:59																				
ZZZZZZ			10:01																				
ZZZZZZ			10:02																				
ZZZZZZ			10:03																				
ZZZZZZ			10:04																				
ZZZZZZ			10:05																				
ZZZZZZ			10:06																				
CCV 480-609112/37	1		10:07	X																			
CCB 480-609112/38	1		10:08	X																			
ZZZZZZ			10:09																				
ZZZZZZ			10:10																				
ZZZZZZ			10:11																				
ZZZZZZ			10:13																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: LACHAT1 Method: 350.1

Start Date: 12/16/2021 09:27 End Date: 12/16/2021 10:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				NH3																			
ZZZZZZ			10:14																				
ZZZZZZ			10:15																				
ZZZZZZ			10:16																				
ZZZZZZ			10:17																				
ZZZZZZ			10:18																				
ZZZZZZ			10:19																				
CCV 480-609112/49	1		10:20	X																			
CCB 480-609112/50	1		10:21	X																			
ZZZZZZ			10:23																				
ZZZZZZ			10:24																				
ZZZZZZ			10:25																				
ZZZZZZ			10:26																				
ZZZZZZ			10:27																				
ZZZZZZ			10:28																				
ZZZZZZ			10:29																				
ZZZZZZ			10:30																				
ZZZZZZ			10:31																				
ZZZZZZ			10:32																				
CCV 480-609112/61			10:34																				
CCB 480-609112/62			10:35																				
ZZZZZZ			10:36																				
ZZZZZZ			10:37																				
ZZZZZZ			10:38																				
ZZZZZZ			10:39																				
ZZZZZZ			10:40																				
ZZZZZZ			10:41																				
ZZZZZZ			10:42																				
ZZZZZZ			10:43																				
ZZZZZZ			10:45																				
ZZZZZZ			10:46																				
CCV 480-609112/73			10:47																				
CCB 480-609112/74			10:48																				
ZZZZZZ			10:49																				
ZZZZZZ			10:50																				
ZZZZZZ			10:51																				
ZZZZZZ			10:52																				
ZZZZZZ			10:53																				
ZZZZZZ			10:54																				
ZZZZZZ			10:56																				
CCV 480-609112/82			10:57																				
CCB 480-609112/83			10:58																				
ZZZZZZ			10:59																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: LACHAT1 Method: 350.1

Start Date: 12/16/2021 09:27 End Date: 12/16/2021 10:59

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: KONE1 Method: 351.2

Start Date: 12/17/2021 06:12 End Date: 12/17/2021 08:09

Lab Sample ID	D / F	Type	Time	Analytes																			
				TKN																			
CCV 480-609250/1	1		06:12	X																			
CCB 480-609250/2	1		06:12	X																			
LCS 480-609130/2-A	1	T	06:12	X																			
ZZZZZZ			06:12																				
ZZZZZZ			06:12																				
CCV 480-609250/6	1		06:15	X																			
CCB 480-609250/7	1		06:15	X																			
MB 480-609130/1-A	1	T	07:02	X																			
ZZZZZZ			07:02																				
ZZZZZZ			07:02																				
ZZZZZZ			07:02																				
ZZZZZZ			07:02																				
ZZZZZZ			07:02																				
ZZZZZZ			07:02																				
ZZZZZZ			07:02																				
ZZZZZZ			07:02																				
ZZZZZZ			07:02																				
CCV 480-609250/18	1		07:11	X																			
CCB 480-609250/19	1		07:11	X																			
CCV 480-609250/20			07:29																				
CCB 480-609250/21			07:29																				
ZZZZZZ			07:29																				
ZZZZZZ			07:29																				
ZZZZZZ			07:29																				
ZZZZZZ			07:29																				
ZZZZZZ			07:29																				
ZZZZZZ			07:29																				
ZZZZZZ			07:29																				
ZZZZZZ			07:29																				
ZZZZZZ			07:29																				
CCV 480-609250/31	1		07:31	X																			
CCB 480-609250/32	1		07:31	X																			
ZZZZZZ			07:54																				
ZZZZZZ			07:54																				
480-193436-2	1	T	07:54	X																			
480-193436-2 MS	1	T	07:54	X																			
480-193436-3	1	T	07:54	X																			
480-193436-4	1	T	07:54	X																			
480-193436-5	1	T	07:54	X																			
480-193436-6	1	T	07:54	X																			
480-193436-7	1	T	07:54	X																			
480-193436-8	1	T	07:54	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: KONE1 Method: 351.2

Start Date: 12/17/2021 06:12 End Date: 12/17/2021 08:09

Lab Sample ID	D / F	Type	Time	Analytes																				
				TKN																				
CCV 480-609250/43	1		08:03	X																				
CCB 480-609250/44	1		08:03	X																				
ZZZZZZ			08:03																					
ZZZZZZ			08:03																					
ZZZZZZ			08:03																					
ZZZZZZ			08:03																					
ZZZZZZ			08:03																					
ZZZZZZ			08:03																					
ZZZZZZ			08:03																					
ZZZZZZ			08:03																					
ZZZZZZ			08:03																					
ZZZZZZ			08:07																					
CCV 480-609250/55			08:09																					
CCB 480-609250/56			08:09																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: COD Robot Method: 410.4

Start Date: 12/17/2021 19:30 End Date: 12/17/2021 19:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				COD																			
ZZZZZZ			19:30																				
CCV 480-609392/2	1		19:30	X																			
CCB 480-609392/3	1		19:30	X																			
MB 480-609392/4	1	T	19:30	X																			
LCS 480-609392/5	1	T	19:30	X																			
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
CCV 480-609392/14	1		19:30	X																			
CCB 480-609392/15	1		19:30	X																			
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
480-193436-2	1	T	19:30	X																			
480-193436-3	1	T	19:30	X																			
CCV 480-609392/26	1		19:30	X																			
CCB 480-609392/27	1		19:30	X																			
MB 480-609392/28	1	T	19:30	X																			
LCS 480-609392/29	1	T	19:30	X																			
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
CCV 480-609392/38	1		19:30	X																			
CCB 480-609392/39	1		19:30	X																			
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: COD Robot Method: 410.4

Start Date: 12/17/2021 19:30 End Date: 12/17/2021 19:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				COD																			
480-193436-4	1	T	19:30	X																			
480-193436-5	1	T	19:30	X																			
480-193436-6	1	T	19:30	X																			
480-193436-7	1	T	19:30	X																			
480-193436-8	1	T	19:30	X																			
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
CCV 480-609392/50	1		19:30	X																			
CCB 480-609392/51	1		19:30	X																			
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
CCV 480-609392/62			19:30																				
CCB 480-609392/63			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
CCV 480-609392/74			19:30																				
CCB 480-609392/75			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: COD Robot Method: 410.4

Start Date: 12/17/2021 19:30 End Date: 12/17/2021 19:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				COD																			
ZZZZZZ			19:30																				
CCV 480-609392/86			19:30																				
CCB 480-609392/87			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
ZZZZZZ			19:30																				
CCV 480-609392/95			19:30																				
CCB 480-609392/96			19:30																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 12/16/2021 07:17 End Date: 12/16/2021 12:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				PhenT																			
ZZZZZZ			07:17																				
ZZZZZZ			07:19																				
ZZZZZZ			07:25																				
IC 480-609155/4			07:29	X																			
IC 480-609155/5			07:33	X																			
IC 480-609155/6			07:36	X																			
IC 480-609155/7			07:39	X																			
IC 480-609155/8			07:43	X																			
IC 480-609155/9			07:47	X																			
ICV 480-609155/10	1		07:50	X																			
ICB 480-609155/11	1		07:54	X																			
ZZZZZZ			07:57																				
ZZZZZZ			08:01																				
CCV 480-609155/14	1		08:06	X																			
CCB 480-609155/15	1		08:09	X																			
MB 480-609155/16	1	T	08:12	X																			
LCS 480-609155/17	1	T	08:16	X																			
ZZZZZZ			08:20																				
ZZZZZZ			08:23																				
ZZZZZZ			08:27																				
ZZZZZZ			08:31																				
ZZZZZZ			08:34																				
ZZZZZZ			08:38																				
ZZZZZZ			08:41																				
ZZZZZZ			08:44																				
CCV 480-609155/26	1		08:49	X																			
CCB 480-609155/27	1		08:53	X																			
ZZZZZZ			08:56																				
ZZZZZZ			09:00																				
ZZZZZZ			09:05																				
ZZZZZZ			09:07																				
ZZZZZZ			09:11																				
ZZZZZZ			09:15																				
480-193436-2	1	T	09:18	X																			
480-193436-3	1	T	09:22	X																			
480-193436-4	1	T	09:26	X																			
480-193436-5	1	T	09:29	X																			
480-193436-6	1	T	09:33	X																			
480-193436-7	1	T	09:36	X																			
CCV 480-609155/40	1		09:40	X																			
CCB 480-609155/41	1		09:44	X																			
ZZZZZZ			09:48																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 12/16/2021 07:17 End Date: 12/16/2021 12:56

Lab Sample ID	D / F	Type	Time	Analytes																				
				PhenT																				
ZZZZZZ			09:51																					
MB 480-609155/44	1	T	09:56	X																				
LCS 480-609155/45	1	T	09:58	X																				
480-193436-8	1	T	10:02	X																				
480-193436-8 MS	1	T	10:06	X																				
ZZZZZZ			10:10																					
ZZZZZZ			10:13																					
ZZZZZZ			10:17																					
ZZZZZZ			10:21																					
ZZZZZZ			10:24																					
ZZZZZZ			10:28																					
CCV 480-609155/54	1		10:32	X																				
CCB 480-609155/55	1		10:35	X																				
ZZZZZZ			10:38																					
ZZZZZZ			10:43																					
ZZZZZZ			10:48																					
ZZZZZZ			10:50																					
ZZZZZZ			10:54																					
ZZZZZZ			10:57																					
ZZZZZZ			11:01																					
ZZZZZZ			11:05																					
ZZZZZZ			11:08																					
ZZZZZZ			11:12																					
ZZZZZZ			11:16																					
ZZZZZZ			11:19																					
CCV 480-609155/68			11:23																					
CCB 480-609155/69			11:27																					
ZZZZZZ			11:30																					
ZZZZZZ			11:34																					
ZZZZZZ			11:38																					
ZZZZZZ			11:41																					
ZZZZZZ			11:45																					
ZZZZZZ			11:49																					
ZZZZZZ			11:53																					
ZZZZZZ			11:56																					
ZZZZZZ			12:00																					
ZZZZZZ			12:03																					
ZZZZZZ			12:07																					
ZZZZZZ			12:11																					
CCV 480-609155/82			12:14																					
CCB 480-609155/83			12:18																					
ZZZZZZ			12:22																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 12/16/2021 07:17 End Date: 12/16/2021 12:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				PhenT																			
ZZZZZZ			12:25																				
ZZZZZZ			12:30																				
ZZZZZZ			12:33																				
ZZZZZZ			12:36																				
CCV 480-609155/89			12:40																				
CCB 480-609155/90			12:44																				
ZZZZZZ			12:47																				
ZZZZZZ			12:51																				
ZZZZZZ			12:56																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Genesys Spec 30 Method: 7196A

Start Date: 12/15/2021 13:28 End Date: 12/15/2021 13:28

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cr6																			
CCV 480-609017/1	1		13:28	X																			
CCB 480-609017/2	1		13:28	X																			
MB 480-609017/3	1	T	13:28	X																			
LCS 480-609017/4	1	T	13:28	X																			
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
480-193436-2	1	T	13:28	X																			
480-193436-3	1	T	13:28	X																			
CCV 480-609017/13	1		13:28	X																			
CCB 480-609017/14	1		13:28	X																			
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
480-193436-4	1	T	13:28	X																			
480-193436-5	1	T	13:28	X																			
480-193436-6	1	T	13:28	X																			
480-193436-7	1	T	13:28	X																			
480-193436-8	1	T	13:28	X																			
CCV 480-609017/24	1		13:28	X																			
CCB 480-609017/25	1		13:28	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: NOEQUIP Method: SM 2120B

Start Date: 12/15/2021 16:48 End Date: 12/15/2021 16:48

Lab Sample ID	D / F	Type	Time	Analytes																			
				Color																			
CCV 480-609043/1	1		16:48	X																			
CCB 480-609043/2	1		16:48	X																			
MB 480-609043/3	1	T	16:48	X																			
LCS 480-609043/4	1	T	16:48	X																			
ZZZZZZ			16:48																				
ZZZZZZ			16:48																				
ZZZZZZ			16:48																				
ZZZZZZ			16:48																				
ZZZZZZ			16:48																				
ZZZZZZ			16:48																				
ZZZZZZ			16:48																				
ZZZZZZ			16:48																				
CCV 480-609043/13	1		16:48	X																			
CCB 480-609043/14	1		16:48	X																			
ZZZZZZ			16:48																				
ZZZZZZ			16:48																				
ZZZZZZ			16:48																				
ZZZZZZ			16:48																				
480-193436-2	1	T	16:48	X																			
480-193436-3	1	T	16:48	X																			
480-193436-4	1	T	16:48	X																			
480-193436-4 DU	1	T	16:48	X																			
480-193436-5	1	T	16:48	X																			
480-193436-5 DU	1	T	16:48	X																			
CCV 480-609043/25	1		16:48	X																			
CCB 480-609043/26	1		16:48	X																			
MB 480-609043/27	1	T	16:48	X																			
LCS 480-609043/28	1	T	16:48	X																			
480-193436-6	1	T	16:48	X																			
480-193436-7	1	T	16:48	X																			
480-193436-8	1	T	16:48	X																			
480-193436-8 DU	1	T	16:48	X																			
CCV 480-609043/33	1		16:48	X																			
CCB 480-609043/34	1		16:48	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: IC-5 Method: 300.0

Start Date: 12/21/2021 13:55 End Date: 12/22/2021 05:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Br																			
CCV 480-609673/2	1		13:55	X																			
CCB 480-609673/3	1		14:14	X																			
LCS 480-609673/4	1	T	14:33	X																			
MB 480-609673/5	1	T	14:52	X																			
ZZZZZZ			15:11																				
ZZZZZZ			15:30																				
ZZZZZZ			15:49																				
ZZZZZZ			16:08																				
480-193436-2	1	T	16:46	X																			
480-193436-2 MS	1	T	17:05	X																			
480-193436-2 MSD	1	T	17:24	X																			
CCV 480-609673/14	1		17:43	X																			
CCB 480-609673/15	1		18:02	X																			
480-193436-3	1	T	18:21	X																			
480-193436-4	2	T	18:40	X																			
480-193436-5	1	T	18:59	X																			
480-193436-6	1	T	19:18	X																			
480-193436-7	1	T	19:37	X																			
480-193436-8	2	T	19:56	X																			
ZZZZZZ			20:53																				
ZZZZZZ			21:12																				
CCV 480-609673/26	1		21:31	X																			
CCB 480-609673/27	1		21:50	X																			
ZZZZZZ			22:09																				
ZZZZZZ			22:28																				
ZZZZZZ			22:47																				
ZZZZZZ			23:06																				
ZZZZZZ			23:25																				
ZZZZZZ			23:44																				
ZZZZZZ			00:03																				
ZZZZZZ			00:22																				
ZZZZZZ			00:41																				
ZZZZZZ			01:00																				
CCV 480-609673/38			01:19																				
CCB 480-609673/39			01:38																				
ZZZZZZ			01:57																				
ZZZZZZ			02:16																				
ZZZZZZ			02:35																				
ZZZZZZ			02:54																				
ZZZZZZ			03:13																				
ZZZZZZ			03:33																				
ZZZZZZ			03:52																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: IC-5 Method: 300.0

Start Date: 12/21/2021 13:55 End Date: 12/22/2021 05:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Br																			
ZZZZZZ			04:11																				
ZZZZZZ			04:30																				
ZZZZZZ			04:49																				
CCV 480-609673/50			05:08																				
CCB 480-609673/51			05:27																				
ZZZZZZ			05:46																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: LACHAT3 Method: 353.2

Start Date: 12/15/2021 02:14 End Date: 12/15/2021 22:35

Lab Sample ID	D / F	Type	Time	Analytes																			
				NO3																			
ZZZZZZ			02:14																				
ZZZZZZ			17:11																				
ZZZZZZ			17:13																				
ZZZZZZ			17:16																				
ZZZZZZ			17:24																				
ZZZZZZ			17:27																				
ZZZZZZ			17:30																				
ZZZZZZ			17:31																				
ZZZZZZ			17:34																				
ZZZZZZ			17:44																				
480-193436-2	1	T	17:53	X																			
ZZZZZZ			17:59																				
ZZZZZZ			18:00																				
480-193436-3	1	T	18:01	X																			
480-193436-4	1	T	18:03	X																			
480-193436-5	1	T	18:04	X																			
ZZZZZZ			18:25																				
ZZZZZZ			18:26																				
ZZZZZZ			18:55																				
ZZZZZZ			18:56																				
ZZZZZZ			18:58																				
ZZZZZZ			19:14																				
ZZZZZZ			19:25																				
ZZZZZZ			19:30																				
ZZZZZZ			19:31																				
ZZZZZZ			19:45																				
ZZZZZZ			21:03																				
ZZZZZZ			21:06																				
ZZZZZZ			21:08																				
ZZZZZZ			21:10																				
ZZZZZZ			21:13																				
ZZZZZZ			21:17																				
ZZZZZZ			21:19																				
ZZZZZZ			21:22																				
ZZZZZZ			21:23																				
480-193436-6	1	T	21:25	X																			
480-193436-7	1	T	21:26	X																			
480-193436-8	1	T	21:28	X																			
ZZZZZZ			21:29																				
ZZZZZZ			21:36																				
ZZZZZZ			21:40																				
ZZZZZZ			21:41																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: LACHAT3 Method: 353.2

Start Date: 12/15/2021 02:14 End Date: 12/15/2021 22:35

Lab Sample ID	D / F	Type	Time	Analytes																			
				NO3																			
ZZZZZZ			21:43																				
ZZZZZZ			21:45																				
ZZZZZZ			21:50																				
ZZZZZZ			21:52																				
ZZZZZZ			21:55																				
ZZZZZZ			21:56																				
ZZZZZZ			21:58																				
ZZZZZZ			21:59																				
ZZZZZZ			22:01																				
ZZZZZZ			22:02																				
ZZZZZZ			22:06																				
ZZZZZZ			22:09																				
ZZZZZZ			22:12																				
ZZZZZZ			22:13																				
ZZZZZZ			22:14																				
ZZZZZZ			22:17																				
ZZZZZZ			22:18																				
ZZZZZZ			22:21																				
ZZZZZZ			22:24																				
ZZZZZZ			22:27																				
ZZZZZZ			22:29																				
ZZZZZZ			22:29																				
ZZZZZZ			22:31																				
ZZZZZZ			22:32																				
ZZZZZZ			22:33																				
ZZZZZZ			22:35																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
IC 480-609236/1			19:00	X																			
IC 480-609236/2			19:00	X																			
IC 480-609236/3			19:00	X																			
IC 480-609236/4			19:00	X																			
IC 480-609236/5			19:00	X																			
IC 480-609236/6			19:00	X																			
IC 480-609236/7			19:00	X																			
IC 480-609236/8			19:01	X																			
ICB 480-609236/9	1		19:01	X																			
ICV 480-609236/10	1		19:01	X																			
CCB 480-609236/11			19:53																				
CCV 480-609236/12			19:53																				
ZZZZZZ			19:56																				
ZZZZZZ			19:56																				
ZZZZZZ			19:57																				
ZZZZZZ			19:57																				
CCB 480-609236/17			19:57																				
CCV 480-609236/18			19:58																				
ZZZZZZ			19:58																				
ZZZZZZ			19:58																				
ZZZZZZ			19:59																				
ZZZZZZ			19:59																				
CCB 480-609236/23			19:59																				
CCV 480-609236/24			19:59																				
ZZZZZZ			20:00																				
ZZZZZZ			20:00																				
ZZZZZZ			20:00																				
CCB 480-609236/28			20:01																				
CCV 480-609236/29			20:01																				
ZZZZZZ			20:01																				
ZZZZZZ			20:02																				
ZZZZZZ			20:03																				
CCB 480-609236/33			20:06																				
CCV 480-609236/34			20:06																				
ZZZZZZ			20:07																				
ZZZZZZ			20:07																				
ZZZZZZ			20:07																				
ZZZZZZ			20:08																				
CCB 480-609236/39			20:09																				
CCV 480-609236/40			20:09																				
ZZZZZZ			20:09																				
ZZZZZZ			20:10																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			20:10																				
ZZZZZZ			20:10																				
CCB 480-609236/45			20:11																				
CCV 480-609236/46			20:11																				
ZZZZZZ			20:11																				
ZZZZZZ			20:11																				
ZZZZZZ			20:13																				
ZZZZZZ			20:13																				
CCB 480-609236/51			20:14																				
CCV 480-609236/52			20:14																				
ZZZZZZ			20:15																				
ZZZZZZ			20:16																				
ZZZZZZ			20:17																				
CCB 480-609236/56			20:17																				
CCV 480-609236/57			20:17																				
ZZZZZZ			20:20																				
ZZZZZZ			20:20																				
ZZZZZZ			20:21																				
ZZZZZZ			20:21																				
CCB 480-609236/62			20:22																				
CCV 480-609236/63			20:22																				
ZZZZZZ			20:24																				
ZZZZZZ			20:24																				
ZZZZZZ			20:24																				
ZZZZZZ			20:25																				
CCB 480-609236/68			20:25																				
CCV 480-609236/69			20:26																				
ZZZZZZ			20:28																				
ZZZZZZ			20:29																				
ZZZZZZ			20:30																				
ZZZZZZ			20:31																				
CCB 480-609236/74			20:31																				
CCV 480-609236/75			20:32																				
ZZZZZZ			20:33																				
ZZZZZZ			20:34																				
ZZZZZZ			20:34																				
ZZZZZZ			20:34																				
CCB 480-609236/80			20:34																				
CCV 480-609236/81			20:35																				
ZZZZZZ			20:35																				
ZZZZZZ			20:35																				
ZZZZZZ			20:35																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			20:36																				
CCB 480-609236/86			20:36																				
CCV 480-609236/87			20:36																				
ZZZZZZ			20:36																				
ZZZZZZ			20:37																				
ZZZZZZ			20:37																				
ZZZZZZ			20:37																				
CCB 480-609236/92			20:38																				
CCV 480-609236/93			20:38																				
ZZZZZZ			20:38																				
ZZZZZZ			20:38																				
ZZZZZZ			20:39																				
CCB 480-609236/97			20:39																				
CCV 480-609236/98			20:39																				
ZZZZZZ			20:41																				
ZZZZZZ			20:41																				
ZZZZZZ			20:42																				
ZZZZZZ			20:43																				
CCB 480-609236/103			20:43																				
CCV 480-609236/104			20:44																				
ZZZZZZ			20:44																				
ZZZZZZ			20:44																				
ZZZZZZ			20:45																				
CCB 480-609236/108			20:45																				
CCV 480-609236/109			20:46																				
ZZZZZZ			20:46																				
ZZZZZZ			20:47																				
ZZZZZZ			20:47																				
ZZZZZZ			20:48																				
CCB 480-609236/114			20:50																				
CCV 480-609236/115			20:50																				
ZZZZZZ			21:01																				
ZZZZZZ			21:02																				
ZZZZZZ			21:02																				
ZZZZZZ			21:02																				
CCB 480-609236/120			21:03																				
CCV 480-609236/121			21:03																				
ZZZZZZ			21:03																				
ZZZZZZ			21:03																				
ZZZZZZ			21:04																				
ZZZZZZ			21:04																				
CCB 480-609236/126			21:04																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
CCV 480-609236/127			21:04																				
ZZZZZZ			21:04																				
ZZZZZZ			21:05																				
ZZZZZZ			21:05																				
CCB 480-609236/131			21:05																				
CCV 480-609236/132			21:05																				
ZZZZZZ			21:05																				
ZZZZZZ			21:06																				
ZZZZZZ			21:06																				
ZZZZZZ			21:06																				
CCB 480-609236/137			21:06																				
CCV 480-609236/138			21:07																				
ZZZZZZ			21:07																				
ZZZZZZ			21:07																				
ZZZZZZ			21:07																				
ZZZZZZ			21:08																				
CCB 480-609236/143			21:08																				
CCV 480-609236/144			21:08																				
ZZZZZZ			21:08																				
ZZZZZZ			21:09																				
ZZZZZZ			21:09																				
ZZZZZZ			21:09																				
CCB 480-609236/149			21:09																				
CCV 480-609236/150			21:09																				
ZZZZZZ			21:10																				
ZZZZZZ			21:11																				
ZZZZZZ			21:12																				
ZZZZZZ			21:12																				
CCB 480-609236/155			21:12																				
CCV 480-609236/156			21:12																				
ZZZZZZ			21:12																				
ZZZZZZ			21:13																				
ZZZZZZ			21:14																				
CCB 480-609236/160	1		21:14	X																			
CCV 480-609236/161	1		21:14	X																			
MB 480-609236/162	1	T	21:16	X																			
LCS 480-609236/163	1	T	21:16	X																			
CCB 480-609236/164	1		01:46	X																			
CCV 480-609236/165	1		01:46	X																			
ZZZZZZ			01:47																				
ZZZZZZ			01:47																				
ZZZZZZ			01:47																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
CCB 480-609236/169			01:48																				
CCV 480-609236/170			01:48																				
ZZZZZZ			01:48																				
ZZZZZZ			01:48																				
ZZZZZZ			01:49																				
ZZZZZZ			01:49																				
CCB 480-609236/175			02:03																				
CCV 480-609236/176			02:03																				
ZZZZZZ			02:04																				
ZZZZZZ			02:04																				
CCB 480-609236/179			02:47																				
CCV 480-609236/180			02:47																				
ZZZZZZ			02:47																				
ZZZZZZ			02:48																				
ZZZZZZ			02:48																				
CCB 480-609236/184			02:48																				
CCV 480-609236/185			02:48																				
ZZZZZZ			02:49																				
ZZZZZZ			02:50																				
ZZZZZZ			02:50																				
CCB 480-609236/189			02:50																				
CCV 480-609236/190			02:51																				
ZZZZZZ			02:51																				
ZZZZZZ			02:52																				
ZZZZZZ			02:52																				
CCB 480-609236/194			02:53																				
CCV 480-609236/195			02:53																				
ZZZZZZ			02:55																				
ZZZZZZ			02:55																				
ZZZZZZ			02:55																				
CCB 480-609236/199			02:55																				
CCV 480-609236/200			02:56																				
ZZZZZZ			02:56																				
ZZZZZZ			02:56																				
ZZZZZZ			02:56																				
CCB 480-609236/204			02:57																				
CCV 480-609236/205			02:57																				
ZZZZZZ			02:57																				
ZZZZZZ			02:59																				
CCB 480-609236/208	1		02:59	X																			
CCV 480-609236/209	1		03:00	X																			
ZZZZZZ			03:00																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																				
				SO4																				
ZZZZZZ			03:00																					
480-193436-2	1	T	03:01	X																				
CCB 480-609236/213	1		03:01	X																				
CCV 480-609236/214	1		03:01	X																				
480-193436-3	1	T	03:01	X																				
480-193436-3 MS	2	T	03:03	X																				
ZZZZZZ			03:03																					
ZZZZZZ			03:03																					
CCB 480-609236/219	1		03:04	X																				
CCV 480-609236/220	1		03:04	X																				
480-193436-3 MSD	2	T	03:04	X																				
480-193436-4	1	T	03:05	X																				
ZZZZZZ			03:05																					
480-193436-5	1	T	03:05	X																				
CCB 480-609236/225	1		03:06	X																				
CCV 480-609236/226	1		03:06	X																				
480-193436-5 MS	2	T	03:06	X																				
480-193436-5 MSD	1	T	03:07	X																				
480-193436-6	1	T	03:07	X																				
ZZZZZZ			03:07																					
CCB 480-609236/231	1		03:07	X																				
CCV 480-609236/232	1		03:08	X																				
480-193436-7	1	T	03:08	X																				
480-193436-8	1	T	03:08	X																				
ZZZZZZ			03:08																					
ZZZZZZ			03:09																					
CCB 480-609236/237	1		03:09	X																				
CCV 480-609236/238	1		03:09	X																				
ZZZZZZ			03:09																					
ZZZZZZ			03:10																					
ZZZZZZ			03:10																					
ZZZZZZ			03:10																					
CCB 480-609236/243			03:11																					
CCV 480-609236/244			03:11																					
ZZZZZZ			03:11																					
ZZZZZZ			03:12																					
CCB 480-609236/247			03:12																					
CCV 480-609236/248			03:13																					
ZZZZZZ			03:13																					
ZZZZZZ			03:13																					
ZZZZZZ			03:13																					
ZZZZZZ			03:14																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
CCB 480-609236/253			03:14																				
CCV 480-609236/254			03:14																				
ZZZZZZ			03:15																				
ZZZZZZ			03:16																				
ZZZZZZ			03:19																				
ZZZZZZ			03:20																				
CCB 480-609236/259			03:20																				
CCV 480-609236/260			03:20																				
ZZZZZZ			03:21																				
ZZZZZZ			03:21																				
ZZZZZZ			03:21																				
CCB 480-609236/264			03:22																				
CCV 480-609236/265			03:22																				
ZZZZZZ			03:22																				
ZZZZZZ			03:23																				
ZZZZZZ			03:24																				
ZZZZZZ			03:24																				
CCB 480-609236/270			03:24																				
CCV 480-609236/271			03:24																				
ZZZZZZ			03:25																				
ZZZZZZ			03:26																				
ZZZZZZ			03:27																				
CCB 480-609236/275			03:27																				
CCV 480-609236/276			03:27																				
ZZZZZZ			03:27																				
ZZZZZZ			03:28																				
ZZZZZZ			03:29																				
ZZZZZZ			03:30																				
CCB 480-609236/281			03:30																				
CCV 480-609236/282			03:31																				
ZZZZZZ			03:31																				
ZZZZZZ			03:31																				
ZZZZZZ			03:32																				
ZZZZZZ			03:32																				
CCB 480-609236/287			03:33																				
CCV 480-609236/288			03:33																				
ZZZZZZ			03:33																				
ZZZZZZ			03:34																				
ZZZZZZ			03:34																				
ZZZZZZ			03:35																				
CCB 480-609236/293			03:36																				
CCV 480-609236/294			03:36																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: 9038

Start Date: 12/16/2021 19:00 End Date: 12/17/2021 03:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			03:36																				
ZZZZZZ			03:37																				
ZZZZZZ			03:38																				
ZZZZZZ			03:38																				
CCB 480-609236/299			03:38																				
CCV 480-609236/300			03:38																				
ZZZZZZ			03:39																				
ZZZZZZ			03:39																				
ZZZZZZ			03:39																				
CCB 480-609236/304			03:40																				
CCV 480-609236/305			03:40																				
ZZZZZZ			03:40																				
ZZZZZZ			03:41																				
ZZZZZZ			03:43																				
ZZZZZZ			03:45																				
CCB 480-609236/310			03:45																				
CCV 480-609236/311			03:46																				
ZZZZZZ			03:46																				
ZZZZZZ			03:47																				
CCB 480-609236/314			03:47																				
CCV 480-609236/315			03:47																				
ZZZZZZ			03:48																				
ZZZZZZ			03:48																				
ZZZZZZ			03:48																				
ZZZZZZ			03:49																				
CCB 480-609236/320			03:58																				
CCV 480-609236/321			03:58																				
ZZZZZZ			03:59																				
CCB 480-609236/323			03:59																				
CCV 480-609236/324			03:59																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Balance-3 Method: SM 2540C

Start Date: 12/16/2021 11:55 End Date: 12/16/2021 11:55

Lab Sample ID	D / F	Type	Time	Analytes																			
				TDS																			
MB 480-609137/1	1	T	11:55	X																			
LCS 480-609137/2	1	T	11:55	X																			
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
ZZZZZZ			11:55																				
480-193436-2	1	T	11:55	X																			
480-193436-3	1	T	11:55	X																			
480-193436-3 DU	1	T	11:55	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Balance-3 Method: SM 2540C

Start Date: 12/16/2021 13:25 End Date: 12/16/2021 13:25

Lab Sample ID	D / F	Type	Time	Analytes																			
				TDS																			
MB 480-609158/1	1	T	13:25	X																			
LCS 480-609158/2	1	T	13:25	X																			
480-193436-4	1	T	13:25	X																			
480-193436-4 DU	1	T	13:25	X																			
480-193436-5	1	T	13:25	X																			
480-193436-6	1	T	13:25	X																			
480-193436-7	1	T	13:25	X																			
480-193436-8	1	T	13:25	X																			
ZZZZZZ			13:25																				
ZZZZZZ			13:25																				
ZZZZZZ			13:25																				
ZZZZZZ			13:25																				
ZZZZZZ			13:25																				
ZZZZZZ			13:25																				
ZZZZZZ			13:25																				
ZZZZZZ			13:25																				
ZZZZZZ			13:25																				
ZZZZZZ			13:25																				
ZZZZZZ			13:25																				
ZZZZZZ			13:25																				
ZZZZZZ			13:25																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/17/2021 21:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				CL-																			
ZZZZZZ			17:57																				
ZZZZZZ			17:57																				
ZZZZZZ			17:57																				
ZZZZZZ			17:58																				
ZZZZZZ			17:58																				
ZZZZZZ			17:58																				
ZZZZZZ			17:58																				
ICB 480-609377/8	1		17:59	X																			
ICV 480-609377/9	2		18:07	X																			
CCB 480-609377/10			18:45																				
CCV 480-609377/11			18:45																				
ZZZZZZ			18:46																				
ZZZZZZ			18:46																				
ZZZZZZ			18:46																				
ZZZZZZ			18:46																				
ZZZZZZ			18:47																				
ZZZZZZ			18:47																				
ZZZZZZ			18:48																				
ZZZZZZ			18:48																				
ZZZZZZ			18:48																				
CCB 480-609377/21	1		18:49	X																			
CCV 480-609377/22	1		18:49	X																			
ZZZZZZ			18:49																				
MB 480-609377/24	1	T	18:49	X																			
ZZZZZZ			18:50																				
ZZZZZZ			18:50																				
ZZZZZZ			18:55																				
ZZZZZZ			18:55																				
CCB 480-609377/29	1		18:56	X																			
CCV 480-609377/30	1		18:56	X																			
LCS 480-609377/31	1	T	18:56	X																			
MB 480-609377/32	1	T	18:57	X																			
ZZZZZZ			18:57																				
ZZZZZZ			18:58																				
480-193436-2	1	T	18:58	X																			
480-193436-3	1	T	18:58	X																			
ZZZZZZ			18:58																				
480-193436-4	1	T	18:59	X																			
480-193436-4 MS	1	T	19:00	X																			
480-193436-4 MSD	1	T	19:00	X																			
CCB 480-609377/41	1		19:00	X																			
CCV 480-609377/42	1		19:01	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/17/2021 21:46

Lab Sample ID	D/F	Type	Time	Analytes																			
				CL-																			
LCS 480-609377/43	1	T	19:01	X																			
MB 480-609377/44	1	T	19:01	X																			
480-193436-5	1	T	19:01	X																			
480-193436-6	1	T	19:02	X																			
480-193436-7	1	T	19:02	X																			
480-193436-8	1	T	19:02	X																			
ZZZZZZ			19:09																				
ZZZZZZ			19:10																				
ZZZZZZ			19:10																				
ZZZZZZ			19:12																				
CCB 480-609377/53	1		19:13	X																			
CCV 480-609377/54	1		19:14	X																			
ZZZZZZ			19:14																				
ZZZZZZ			19:14																				
ZZZZZZ			19:16																				
ZZZZZZ			19:17																				
ZZZZZZ			19:17																				
ZZZZZZ			19:18																				
ZZZZZZ			19:18																				
ZZZZZZ			19:22																				
ZZZZZZ			19:22																				
CCB 480-609377/64			19:23																				
CCV 480-609377/65			19:23																				
ZZZZZZ			19:24																				
ZZZZZZ			19:24																				
ZZZZZZ			19:27																				
ZZZZZZ			19:27																				
ZZZZZZ			19:29																				
ZZZZZZ			19:29																				
ZZZZZZ			19:29																				
ZZZZZZ			19:33																				
CCB 480-609377/74			19:34																				
CCV 480-609377/75			19:34																				
ZZZZZZ			19:34																				
ZZZZZZ			19:34																				
ZZZZZZ			19:36																				
ZZZZZZ			19:36																				
ZZZZZZ			19:36																				
ZZZZZZ			19:37																				
ZZZZZZ			19:38																				
ZZZZZZ			19:39																				
ZZZZZZ			19:39																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/17/2021 21:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
CCB 480-609377/85			19:40																				
CCV 480-609377/86			19:40																				
ZZZZZZ			19:41																				
ZZZZZZ			19:41																				
ZZZZZZ			19:41																				
ZZZZZZ			19:42																				
ZZZZZZ			19:42																				
ZZZZZZ			19:42																				
ZZZZZZ			19:47																				
ZZZZZZ			19:47																				
ZZZZZZ			19:48																				
ZZZZZZ			19:48																				
CCB 480-609377/97			19:49																				
CCV 480-609377/98			19:49																				
ZZZZZZ			19:49																				
ZZZZZZ			19:50																				
ZZZZZZ			19:50																				
ZZZZZZ			19:50																				
ZZZZZZ			19:51																				
ZZZZZZ			19:53																				
ZZZZZZ			19:53																				
CCB 480-609377/106			19:55																				
CCV 480-609377/107			19:55																				
ZZZZZZ			19:55																				
ZZZZZZ			19:55																				
ZZZZZZ			19:57																				
ZZZZZZ			19:58																				
ZZZZZZ			19:58																				
ZZZZZZ			19:59																				
ZZZZZZ			20:00																				
ZZZZZZ			20:01																				
CCB 480-609377/116			20:01																				
CCV 480-609377/117			20:01																				
ZZZZZZ			20:01																				
ZZZZZZ			20:02																				
ZZZZZZ			20:04																				
ZZZZZZ			20:04																				
ZZZZZZ			20:04																				
ZZZZZZ			20:08																				
ZZZZZZ			20:09																				
ZZZZZZ			20:10																				
ZZZZZZ			20:10																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: Gallery 1 Method: SM 4500 Cl- E

Start Date: 12/13/2021 17:57 End Date: 12/17/2021 21:46

Lab Sample ID	D / F	Type	Time	Analytes																			
				Cl-																			
ZZZZZZ			20:10																				
CCB 480-609377/128			20:12																				
CCV 480-609377/129			20:13																				
ZZZZZZ			20:14																				
ZZZZZZ			20:14																				
ZZZZZZ			20:15																				
ZZZZZZ			20:16																				
ZZZZZZ			20:19																				
ZZZZZZ			20:19																				
ZZZZZZ			20:19																				
ZZZZZZ			20:21																				
CCB 480-609377/138			20:22																				
CCV 480-609377/139			20:22																				
ZZZZZZ			20:22																				
ZZZZZZ			20:23																				
ZZZZZZ			20:24																				
ZZZZZZ			21:11																				
ZZZZZZ			21:11																				
ZZZZZZ			21:11																				
ZZZZZZ			21:12																				
ZZZZZZ			21:12																				
ZZZZZZ			21:12																				
ZZZZZZ			21:13																				
CCB 480-609377/150			21:13																				
CCV 480-609377/151			21:13																				
ZZZZZZ			21:14																				
ZZZZZZ			21:14																				
ZZZZZZ			21:14																				
ZZZZZZ			21:15																				
ZZZZZZ			21:23																				
ZZZZZZ			21:45																				
CCB 480-609377/158			21:45																				
CCV 480-609377/159			21:45																				
ZZZZZZ			21:46																				
ZZZZZZ			21:46																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: NOEQUIP Method: SM 5210B

Start Date: 12/16/2021 08:54 End Date: 12/16/2021 08:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				BOD																			
MB 480-609214/1	1	T	08:54	X																			
LCS 480-609214/2	1	T	08:54	X																			
ZZZZZZ			08:54																				
ZZZZZZ			08:54																				
ZZZZZZ			08:54																				
ZZZZZZ			08:54																				
ZZZZZZ			08:54																				
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ZZZZZZ			08:54																				
ZZZZZZ			08:54																				
ZZZZZZ			08:54																				
ZZZZZZ			08:54																				
480-193436-2	1	T	08:54	X																			
480-193436-3	1	T	08:54	X																			
480-193436-4	1	T	08:54	X																			
ZZZZZZ			08:54																				
480-193436-5	1	T	08:54	X																			
480-193436-6	1	T	08:54	X																			
480-193436-7	1	T	08:54	X																			
480-193436-8	1	T	08:54	X																			
ZZZZZZ			08:54																				
ZZZZZZ			08:54																				
ZZZZZZ			08:54																				
MB 480-609214/24	1	T	08:54	X																			
LCS 480-609214/25	1	T	08:54	X																			
ZZZZZZ			08:54																				
ZZZZZZ			08:54																				
ZZZZZZ			08:54																				
ZZZZZZ			08:54																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: NOEQUIP Method: SM 5210B

Start Date: 12/16/2021 08:54 End Date: 12/16/2021 08:54

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: TOC10305 Method: SM 5310C

Start Date: 12/20/2021 12:57 End Date: 12/21/2021 10:03

Lab Sample ID	D / F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
RINSE 480-609655/1			12:57																					
CCV 480-609655/2	1		13:11	X	X	X																		
CCB 480-609655/3	1		13:26	X	X	X																		
MB 480-609655/4	1	T	13:42	X	X	X																		
LCS 480-609655/5	1	T	13:57	X	X	X																		
ZZZZZZ			14:13																					
ZZZZZZ			14:28																					
ZZZZZZ			14:45																					
ZZZZZZ			15:01																					
ZZZZZZ			15:17																					
ZZZZZZ			15:32																					
ZZZZZZ			15:48																					
ZZZZZZ			16:04																					
CCV 480-609655/14	1		16:19	X	X	X																		
CCB 480-609655/15	1		16:34	X	X	X																		
ZZZZZZ			16:50																					
ZZZZZZ			17:05																					
ZZZZZZ			17:20																					
480-193436-2	1	T	17:35	X	X	X																		
480-193436-3	1	T	17:51	X	X	X																		
480-193436-4	1	T	18:06	X	X	X																		
480-193436-5	1	T	18:21	X	X	X																		
480-193436-6	1	T	18:36	X	X	X																		
480-193436-7	1	T	18:52	X	X	X																		
480-193436-8	1	T	19:07	X	X	X																		
CCV 480-609655/26	1		19:22	X	X	X																		
CCB 480-609655/27	1		19:37	X	X	X																		
ZZZZZZ			19:53																					
ZZZZZZ			20:08																					
ZZZZZZ			20:24																					
ZZZZZZ			20:40																					
ZZZZZZ			20:55																					
ZZZZZZ			21:10																					
ZZZZZZ			21:25																					
ZZZZZZ			21:40																					
ZZZZZZ			21:56																					
ZZZZZZ			22:11																					
CCV 480-609655/38			22:27																					
CCB 480-609655/39			22:42																					
ZZZZZZ			22:57																					
ZZZZZZ			23:13																					
ZZZZZZ			23:28																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: TOC10305 Method: SM 5310C

Start Date: 12/20/2021 12:57 End Date: 12/21/2021 10:03

Lab Sample ID	D / F	Type	Time	Analytes																				
				TOC1	TOC2	TOCD																		
ZZZZZZ			23:43																					
ZZZZZZ			23:58																					
ZZZZZZ			00:13																					
ZZZZZZ			00:28																					
ZZZZZZ			00:44																					
ZZZZZZ			00:59																					
ZZZZZZ			01:15																					
CCV 480-609655/50			01:30																					
CCB 480-609655/51			01:46																					
ZZZZZZ			02:01																					
ZZZZZZ			02:16																					
ZZZZZZ			02:32																					
ZZZZZZ			02:47																					
ZZZZZZ			03:02																					
ZZZZZZ			03:18																					
ZZZZZZ			03:33																					
ZZZZZZ			03:48																					
ZZZZZZ			04:04																					
ZZZZZZ			04:19																					
CCV 480-609655/62			04:34																					
CCB 480-609655/63			04:51																					
ZZZZZZ			05:06																					
ZZZZZZ			05:21																					
ZZZZZZ			05:36																					
ZZZZZZ			05:52																					
ZZZZZZ			06:07																					
ZZZZZZ			06:22																					
ZZZZZZ			06:37																					
ZZZZZZ			06:53																					
ZZZZZZ			07:08																					
ZZZZZZ			07:24																					
CCV 480-609655/74			07:39																					
CCB 480-609655/75			07:55																					
ZZZZZZ			08:11																					
ZZZZZZ			08:26																					
ZZZZZZ			08:41																					
ZZZZZZ			08:57																					
ZZZZZZ			09:12																					
CCV 480-609655/81			09:27																					
CCB 480-609655/82			09:43																					
CCVL 480-609655/83			10:03																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Instrument ID: TOC10305 Method: SM 5310C

Start Date: 12/20/2021 12:57 End Date: 12/21/2021 10:03

Prep Types
T = Total/NA

General Chemistry Raw Data Report

Job ID: 480-193436-1
SDG: 193337

Batch: 609392
Method: 410.4

Analyst Initials: CSS
Instrument: Skalar SP2000 ST-COD Robotic Analyzer

Lab Sample ID: CCV 480-609392/2

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	76.72	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-609392/3

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	4.97	mg/L	2 mL	2 mL

Lab Sample ID: MB 480-609392/4

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	1.46	mg/L	2 mL	2 mL

Lab Sample ID: LCS 480-609392/5

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	26.35	mg/L	2 mL	2 mL

Lab Sample ID: CCV 480-609392/14

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	73.07	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-609392/15

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	4.07	mg/L	2 mL	2 mL

Lab Sample ID: 480-193436-C-2

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	14.08	mg/L	2 mL	2 mL

Lab Sample ID: 480-193436-C-3

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	10.25	mg/L	2 mL	2 mL

Lab Sample ID: CCV 480-609392/26

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	77.21	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-609392/27

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	1.46	mg/L	2 mL	2 mL

Batch: 609392 (Continued)
Method: 410.4

Analyst Initials: CSS
Instrument: Skalar SP2000 ST-COD Robotic Analyzer

Lab Sample ID: MB 480-609392/28
Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	0.80	mg/L	2 mL	2 mL

Lab Sample ID: LCS 480-609392/29
Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	26.77	mg/L	2 mL	2 mL

Lab Sample ID: CCV 480-609392/38
Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	75.95	mg/L	2 mL	2 mL

Lab Sample ID: CCB 480-609392/39
Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	1.60	mg/L	2 mL	2 mL

Lab Sample ID: 480-193436-C-4
Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	9.21	mg/L	2 mL	2 mL

Lab Sample ID: 480-193436-C-5
Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	11.19	mg/L	2 mL	2 mL

Lab Sample ID: 480-193436-C-6
Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	26.11	mg/L	2 mL	2 mL

Lab Sample ID: 480-193436-C-7
Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	9.84	mg/L	2 mL	2 mL

Lab Sample ID: 480-193436-C-8
Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	20.06	mg/L	2 mL	2 mL

Lab Sample ID: CCV 480-609392/50
Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	76.93	mg/L	2 mL	2 mL

Batch: 609392 (Continued)
Method: 410.4

Analyst Initials: CSS
Instrument: Skalar SP2000 ST-COD Robotic Analyzer

Lab Sample ID: CCB 480-609392/51

Analysis Date: Dec 17, 2021 19:30

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Chemical Oxygen Demand	UV	1	3.02	mg/L	2 mL	2 mL

Batch: 609017
Method: 7196A

Analyst Initials: RJM
Instrument: Manual Spec

Lab Sample ID: CCV 480-609017/1

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0410	0.052545000	mg/L	25 mL	25 mL

Lab Sample ID: CCB 480-609017/2

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: MB 480-609017/3

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: LCS 480-609017/4

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0420	0.053851000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193436-J-2

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0010	0.00030500000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193436-J-3

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: CCV 480-609017/13

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0410	0.052545000	mg/L	25 mL	25 mL

Lab Sample ID: CCB 480-609017/14

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193436-G-4

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0040	0.0042230000	mg/L	25 mL	25 mL

Batch: 609017 (Continued)
Method: 7196A

Analyst Initials: RJM
Instrument: Manual Spec

Lab Sample ID: 480-193436-J-5

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0020	0.0016110000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193436-H-6

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193436-H-7

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: 480-193436-J-8

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Lab Sample ID: CCV 480-609017/24

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0420	0.053851000	mg/L	25 mL	25 mL

Lab Sample ID: CCB 480-609017/25

Analysis Date: Dec 15, 2021 13:28

Analyte	Detector	Dilution	Response	Raw Result	Unit	Initial Amount	Final Amount
Chromium, hexavalent	UV	1	0.0000	-0.0010010000	mg/L	25 mL	25 mL

Batch: 609043
Method: SM 2120B

Analyst Initials: MJB
Instrument: No Equipment Used for this Test

Lab Sample ID: CCV 480-609043/1

Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: CCB 480-609043/2

Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Lab Sample ID: MB 480-609043/3

Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Lab Sample ID: LCS 480-609043/4

Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Batch: 609043 (Continued)
Method: SM 2120B

Analyst Initials: MJB
Instrument: No Equipment Used for this Test

Lab Sample ID: CCV 480-609043/13
Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: CCB 480-609043/14
Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Lab Sample ID: 480-193436-J-2
Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	40	Color Units	50 mL	50 mL

Lab Sample ID: 480-193436-J-3
Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	10	Color Units	50 mL	50 mL

Lab Sample ID: 480-193436-J-4
Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	15	Color Units	50 mL	50 mL

Lab Sample ID: 480-193436-J-4 DU
Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	15	Color Units	50 mL	50 mL

Lab Sample ID: 480-193436-J-5
Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	15	Color Units	50 mL	50 mL

Lab Sample ID: 480-193436-J-5 DU
Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	15	Color Units	50 mL	50 mL

Lab Sample ID: CCV 480-609043/25
Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: CCB 480-609043/26
Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Lab Sample ID: MB 480-609043/27
Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Batch: 609043 (Continued)
Method: SM 2120B

Analyst Initials: MJB
Instrument: No Equipment Used for this Test

Lab Sample ID: LCS 480-609043/28

Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: 480-193436-H-6

Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	20	Color Units	50 mL	50 mL

Lab Sample ID: 480-193436-H-7

Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	5	Color Units	50 mL	50 mL

Lab Sample ID: 480-193436-J-8

Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	15	Color Units	50 mL	50 mL

Lab Sample ID: 480-193436-J-8 DU

Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	15	Color Units	50 mL	50 mL

Lab Sample ID: CCV 480-609043/33

Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	30	Color Units	50 mL	50 mL

Lab Sample ID: CCB 480-609043/34

Analysis Date: Dec 15, 2021 16:48

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Color	None	1	<5	Color Units	50 mL	50 mL

Batch: 609049
Method: 353.2

Analyst Initials: CSS
Instrument: Lachat QuickChem 8500

Lab Sample ID: 480-193436-I-2

Analysis Date: Dec 15, 2021 17:53

Analyte	Detector	Dilution	Raw Result	Unit
Nitrate as N	UV	1	0	mg/L

Lab Sample ID: 480-193436-I-3

Analysis Date: Dec 15, 2021 18:01

Analyte	Detector	Dilution	Raw Result	Unit
Nitrate as N	UV	1	0	mg/L

Lab Sample ID: 480-193436-J-4

Analysis Date: Dec 15, 2021 18:03

Analyte	Detector	Dilution	Raw Result	Unit
Nitrate as N	UV	1	0	mg/L

Batch: 609049 (Continued)
Method: 353.2

Analyst Initials: CSS
Instrument: Lachat QuickChem 8500

Lab Sample ID: 480-193436-I-5

Analysis Date: Dec 15, 2021 18:04

Analyte	Detector	Dilution	Raw Result	Unit
Nitrate as N	UV	1	0	mg/L

Lab Sample ID: 480-193436-J-6

Analysis Date: Dec 15, 2021 21:25

Analyte	Detector	Dilution	Raw Result	Unit
Nitrate as N	UV	1	0.43	mg/L

Lab Sample ID: 480-193436-J-7

Analysis Date: Dec 15, 2021 21:26

Analyte	Detector	Dilution	Raw Result	Unit
Nitrate as N	UV	1	0.063	mg/L

Lab Sample ID: 480-193436-I-8

Analysis Date: Dec 15, 2021 21:28

Analyte	Detector	Dilution	Raw Result	Unit
Nitrate as N	UV	1	0.12	mg/L

Batch: 609137
Method: SM 2540C

Analyst Initials: JGO
Instrument: Balance-3

Lab Sample ID: MB 480-609137/1

Analysis Date: Dec 16, 2021 11:55

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	2	mg/L	100 mL	100 mL

Lab Sample ID: LCS 480-609137/2

Analysis Date: Dec 16, 2021 11:55

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	452	mg/L	100 mL	100 mL

Lab Sample ID: 480-193436-B-2

Analysis Date: Dec 16, 2021 11:55

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	124	mg/L	100 mL	100 mL

Lab Sample ID: 480-193436-B-3

Analysis Date: Dec 16, 2021 11:55

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	264	mg/L	100 mL	100 mL

Lab Sample ID: 480-193436-B-3 DU

Analysis Date: Dec 16, 2021 11:55

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	278	mg/L	100 mL	100 mL

Batch: 609158
Method: SM 2540C

Analyst Initials: JGO
Instrument: Balance-3

Lab Sample ID: MB 480-609158/1

Analysis Date: Dec 16, 2021 13:25

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	1	mg/L	100 mL	100 mL

Lab Sample ID: LCS 480-609158/2

Analysis Date: Dec 16, 2021 13:25

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	485	mg/L	100 mL	100 mL

Lab Sample ID: 480-193436-B-4

Analysis Date: Dec 16, 2021 13:25

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	468	mg/L	100 mL	100 mL

Lab Sample ID: 480-193436-B-4 DU

Analysis Date: Dec 16, 2021 13:25

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	463	mg/L	100 mL	100 mL

Lab Sample ID: 480-193436-B-5

Analysis Date: Dec 16, 2021 13:25

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	183	mg/L	100 mL	100 mL

Lab Sample ID: 480-193436-B-6

Analysis Date: Dec 16, 2021 13:25

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	259	mg/L	100 mL	100 mL

Lab Sample ID: 480-193436-B-7

Analysis Date: Dec 16, 2021 13:25

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	180	mg/L	100 mL	100 mL

Lab Sample ID: 480-193436-B-8

Analysis Date: Dec 16, 2021 13:25

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Dissolved Solids	None	1	295	mg/L	100 mL	100 mL

Batch: 609214
Method: SM 5210B

Analyst Initials: RJM
Instrument: No Equipment Used for this Test

Lab Sample ID: MB 480-609214/1

Analysis Date: Dec 16, 2021 08:54

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	.31	mg/L	0 mL	300 mL

Lab Sample ID: LCS 480-609214/2

Analysis Date: Dec 16, 2021 08:54

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	184.6	mg/L	6 mL	300 mL

Batch: 609214 (Continued)
Method: SM 5210B

Analyst Initials: RJM
Instrument: No Equipment Used for this Test

Lab Sample ID: 480-193436-A-2
Analysis Date: Dec 16, 2021 08:54

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<.78	mg/L	300 mL	300 mL

Lab Sample ID: 480-193436-A-3
Analysis Date: Dec 16, 2021 08:54

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<.10	mg/L	300 mL	300 mL

Lab Sample ID: 480-193436-A-4
Analysis Date: Dec 16, 2021 08:54

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<.17	mg/L	300 mL	300 mL

Lab Sample ID: 480-193436-A-5
Analysis Date: Dec 16, 2021 08:54

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<.27	mg/L	300 mL	300 mL

Lab Sample ID: 480-193436-A-6
Analysis Date: Dec 16, 2021 08:54

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<.10	mg/L	300 mL	300 mL

Lab Sample ID: 480-193436-A-7
Analysis Date: Dec 16, 2021 08:54

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<.12	mg/L	300 mL	300 mL

Lab Sample ID: 480-193436-A-8
Analysis Date: Dec 16, 2021 08:54

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	<.48	mg/L	300 mL	300 mL

Lab Sample ID: MB 480-609214/24
Analysis Date: Dec 16, 2021 08:54

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	.08	mg/L	0 mL	300 mL

Lab Sample ID: LCS 480-609214/25
Analysis Date: Dec 16, 2021 08:54

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Biochemical Oxygen Demand	None	1	176.92	mg/L	6 mL	300 mL

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Wet Chemistry Dept

Analysis: Alkalinity
Method: 310.2
Analyst/Primary Reviewer: SRW
Secondary Reviewer: _____

Date of Analytical Run: 12/20/21
Date of Primary Review: 12/21/21
Date of Secondary Review: _____

Prep Batch Number					
Analytical Batch Number	609594				

Criteria for QC	1st Level	2nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, r > or = 0.995, pH meter slope 90-110% (if applicable)	Y			
Was Data Imported X Manually Entered ____ Balance Interface Used ____	Impt			
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Y			
Were the ICB, CCB and MB all <RL?	Y			
Was there a CCV/CCB combination run after every 10 samples or less?	Y			
Was there an LCS run with every batch of 20 samples or less?	Y			
Was there a DU, MS or MSD run with every batch of 20 samples or less?	Y			
Were all MS/MSD results within acceptable limits for QC recovery?	N			
Were all DU or MSD RPDs within acceptable limits for QC recovery?	Y			
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	Y			
Are dilution factors all present and correct?	Y			
Do all entries match raw data?	Y			
Were there any holding time violations in this batch?	N			**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y			
Were any NCMs needed in the batch?	N			NCM #s:
Data scanned in?	Y			

Alkalinity

310.2

1000 PPM	(MS/MSD/CAL)	6791877	EXP: 02/22/2022
50 PPM	(CCV/LCS)	6791927	EXP: 02/22/2022
Alk. Mix:		6824196	EXP: 12/22/2021
3.1 Buffer		6824191	EXP: 12/28/2021
Methyl orange		6824192	EXP: 01/18/2022
ERA Minerals (ICV):		6318066	EXP: 04/01/2023

Actual = 32.3 MG/L
RANGE = 29.3 – 34.9 MG/L

CURVE:

Kone 1: 06-13-2019 Batch: 478010
100 ppm: 5352372

Kone 2: 06-23-2020 Batch: 537780
100 ppm: 5986445

Kone 3: 01-28-2020 Batch: 515266
100 ppm: 5749493

Gallery 1: 12-21-2021 Batch: 609594
100 ppm: 6824195

Water blank results

ALK Version number 1.4

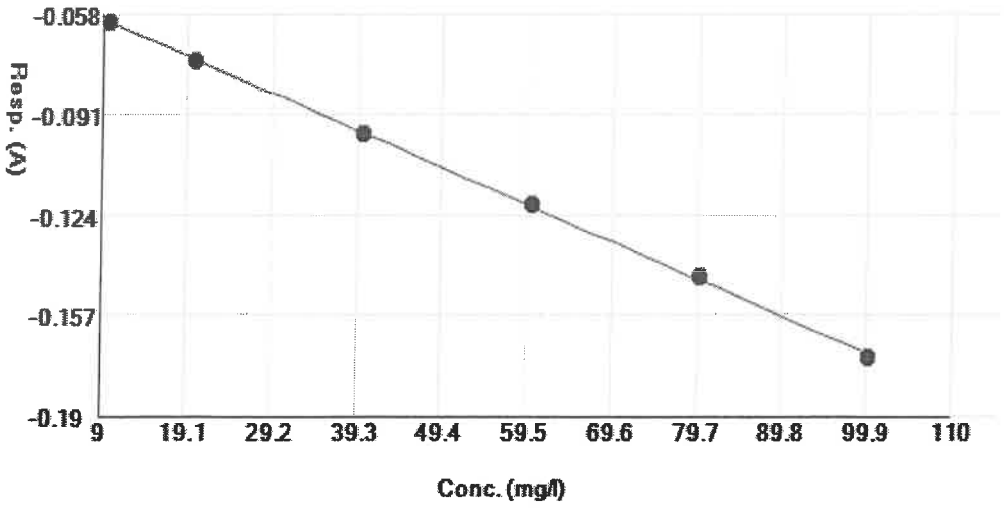
Date 12/21/2021 **User** BufGallery1

Time 2:10:40AM **Software version: 6.0.2**

Analyzer name Analyzer 1

Test	ALK	**Coeff. of deter.**	0.999603
Status	Accepted	**Total factor**	-826.774
Accepted	12/21/2021 1:34 AM		
Checked	12/21/2021 1:34 AM	Zero-order factor	-0.049
User name	BufGallery1	1st order factor	-0.001
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
ALK 10	-0.061	10.144	10.000	Default	
ALK 20	-0.073	20.296	20.000	Default	
ALK 40	-0.097	40.122	40.000	Default	
ALK 60	-0.120	59.370	60.000	Default	
ALK 80	-0.144	79.061	80.000	Default	
ALK 100	-0.171	101.007	100.000	Default	
ALK ICV	-0.085	29.88	50.00	Default	QC, Rule 1 violated
ICB	-0.051	2.14	0.00	Default	Outside calibration



Water blank results

Date 12/21/2021 **User** BufGallery1

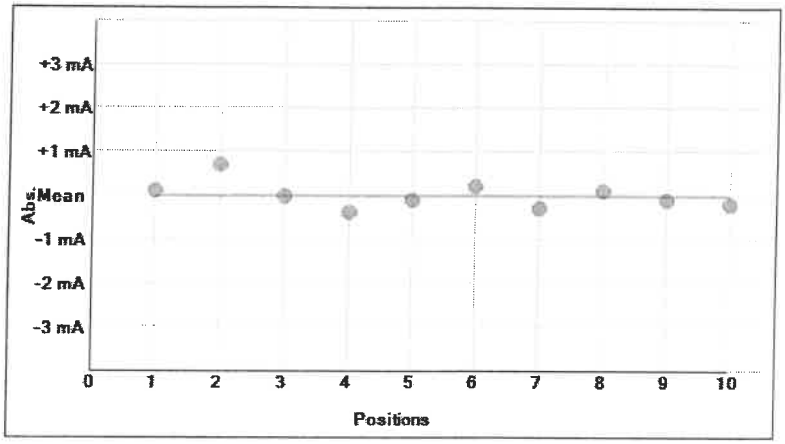
Time 2:11:32AM **Software version: 6.0.2**

Measurement time
12/21/2021 12:59 AM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1003.2**	**0.3**
420	-1036.5	0.2
480	-1046.9	0.1
510	-1050.4	0.1
540	-1053.9	0.1
575	-1057.1	0.1
600	-1058.6	0.1
620	-1060.0	0.1
660	-1062.3	0.1
700	-1063.6	0.1
880	-1047.0	0.1

340



609594

Results by Test

Date 12/21/2021 **User** BufGallery1

Time 2:49:19AM **Software version: 6.0.2**

Test name ALK

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
2	CCB	1.4	5.17	mg/l		0.0	man acc	Outside calibration
3	CCV ALK	1.4	52.76	mg/l		0.0	man acc	
6	480-193265-G-5	1.4	302.44	mg/l		4.0	man acc	
7	480-193265-G-6	1.4	308.13	mg/l		4.0	man acc	
8	480-193265-G-7	1.4	426.83	mg/l		6.0	man acc	
9	480-193265-G-8	1.4	464.91	mg/l		9.0	man acc	
11	480-193265-G-10	1.4	2,224.05	mg/l		24.0	man acc	
12	480-193265-G-11	1.4	130.20	mg/l		1.0	man acc	
13	CCB	1.4	2.61	mg/l		0.0	man acc	Outside calibration
14	CCV ALK	1.4	53.53	mg/l		0.0	man acc	
15	LCS ALK	1.4	53.10	mg/l		0.0	man acc	
16	MB	1.4	4.48	mg/l		0.0	man acc	Outside calibration
17	480-193289-L-1	1.4	195.77	mg/l		2.0	man acc	
18	480-193289-L-2	1.4	179.00	mg/l		3.0	man acc	
19	480-193290-I-2	1.4	148.61	mg/l		2.0	man acc	
20	ms480-193290-I-2	1.4	157.10	mg/l		2.0	man acc	
21	msd480-193290-I-2	1.4	172.03	mg/l		2.0	man acc	
22	480-193290-I-3	1.4	21.73	mg/l		0.0	man acc	
23	480-193290-I-4	1.4	11.60	mg/l		0.0	man acc	
24	480-193290-I-5	1.4	11.08	mg/l		0.0	man acc	
25	CCB	1.4	2.51	mg/l		0.0	man acc	Outside calibration
26	CCV ALK	1.4	51.43	mg/l		0.0	man acc	
27	LCS ALK	1.4	50.90	mg/l		0.0	man acc	
28	MB	1.4	-0.25	mg/l		0.0	man acc	Outside calibration
30	480-193290-I-7	1.4	233.83	mg/l		2.0	man acc	
31	480-193290-I-8	1.4	250.87	mg/l		2.0	man acc	
32	480-193290-I-9	1.4	297.58	mg/l		3.0	man acc	
33	480-193292-E-1	1.4	8,138.33	mg/l		99.0	man acc	
34	480-193292-E-2	1.4	8,722.12	mg/l		119.0	man acc	
35	480-193293-C-5	1.4	360.94	mg/l		4.0	man acc	
36	480-193301-E-1	1.4	3,583.95	mg/l		39.0	man acc	
37	CCB	1.4	4.41	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
38	CCV ALK	1.4	51.99	mg/l		0.0	man acc	
39	LCS ALK	1.4	52.07	mg/l		0.0	man acc	
40	MB	1.4	1.29	mg/l		0.0	man acc	Outside calibration
41	480-193301-E-2	1.4	554.97	mg/l		6.0	man acc	
42	480-193301-E-3	1.4	5,764.63	mg/l		59.0	man acc	
43	480-193301-E-4	1.4	6,056.07	mg/l		69.0	man acc	
44	480-193306-C-1	1.4	488.35	mg/l		6.0	man acc	
45	480-193330-G-1	1.4	167.04	mg/l		2.0	man acc	
46	CCB	1.4	-0.99	mg/l		0.0	man acc	Outside calibration
47	CCV ALK	1.4	52.64	mg/l		0.0	man acc	
48	LCS ALK	1.4	52.21	mg/l		0.0	man acc	
52	MB	1.4	1.22	mg/l		0.0	man acc	Outside calibration
53	480-193265-G-4	1.4	561.15	mg/l		9.0	man acc	
54	480-193330-G-3	1.4	207.83	mg/l		2.0	man acc	
55	480-193330-G-4	1.4	178.69	mg/l		2.0	man acc	
56	480-193330-G-5	1.4	172.91	mg/l		2.0	man acc	
58	480-193331-I-1	1.4	31.55	mg/l		0.0	man acc	
59	480-193331-G-2	1.4	203.88	mg/l		2.0	man acc	
60	480-193332-H-1	1.4	34.13	mg/l		0.0	man acc	
61	CCB	1.4	3.14	mg/l		0.0	man acc	Outside calibration
62	CCV ALK	1.4	52.25	mg/l		0.0	man acc	
63	LCS ALK	1.4	52.39	mg/l		0.0	man acc	
64	MB	1.4	-0.99	mg/l		0.0	man acc	Outside calibration
65	480-193332-H-3	1.4	33.36	mg/l		0.0	man acc	
67	480-193334-J-1	1.4	1,321.80	mg/l		29.0	man acc	
68	480-193351-C-1	1.4	307.70	mg/l		4.0	man acc	
69	480-193351-C-2	1.4	334.89	mg/l		4.0	man acc	
70	480-193351-C-3	1.4	348.59	mg/l		4.0	man acc	
71	480-193353-C-2	1.4	382.36	mg/l		4.0	man acc	
72	480-193353-C-3	1.4	263.30	mg/l		3.0	man acc	
78	480-193411-G-1	1.4	120.06	mg/l		3.0	man acc	
84	CCB	1.4	4.68	mg/l		0.0	man acc	Outside calibration
85	CCV ALK	1.4	51.01	mg/l		0.0	man acc	
86	LCS ALK	1.4	52.35	mg/l		0.0	man acc	
87	MB	1.4	3.86	mg/l		0.0	man acc	Outside calibration
88	480-193436-K-4	1.4	428.99	mg/l		4.0	man acc	
89	480-193436-K-5	1.4	156.31	mg/l		2.0	man acc	
90	480-193436-K-6	1.4	221.46	mg/l		2.0	man acc	
91	480-193436-K-7	1.4	142.15	mg/l		2.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
92	480-193436-K-8	1.4	279.24	mg/l		4.0	man acc	
93	480-193467-I-1	1.4	0.41	mg/l		0.0	man acc	Outside calibration
94	ms480-193467-I-1	1.4	20.80	mg/l		0.0	man acc	
95	msd480-193467-I-1	1.4	21.29	mg/l		0.0	man acc	
96	CCB	1.4	1.78	mg/l		0.0	man acc	Outside calibration
97	CCV ALK	1.4	49.30	mg/l		0.0	man acc	
98	LCS ALK	1.4	50.47	mg/l		0.0	man acc	
99	MB	1.4	4.77	mg/l		0.0	man acc	Outside calibration
100	480-193467-I-2	1.4	378.88	mg/l		4.0	man acc	
101	480-193467-I-3	1.4	285.70	mg/l		3.0	man acc	
102	480-193467-I-4	1.4	225.99	mg/l		2.0	man acc	
103	480-193467-I-5	1.4	256.47	mg/l		3.0	man acc	
104	480-193467-I-6	1.4	359.57	mg/l		4.0	man acc	
105	CCB	1.4	0.56	mg/l		0.0	man acc	Outside calibration
106	CCV ALK	1.4	51.07	mg/l		0.0	man acc	
107	LCS ALK	1.4	54.24	mg/l		0.0	man acc	
111	MB	1.4	7.02	mg/l		0.0	man acc	Outside calibration
112	480-193330-G-6	1.4	155.39	mg/l		1.0	man acc	
113	480-193332-H-4	1.4	113.04	mg/l		1.0	man acc	
114	480-193411-G-3	1.4	8.16	mg/l		0.0	man acc	Outside calibration
115	480-193482-G-2	1.4	1,923.69	mg/l		19.0	man acc	
116	480-193482-G-3	1.4	239.68	mg/l		4.0	man acc	
117	CCB	1.4	-5.07	mg/l		0.0	man acc	Outside calibration
118	CCV ALK	1.4	52.58	mg/l		0.0	man acc	
120	480-193482-G-4	1.4	203.77	mg/l		4.0	man acc	
121	480-193482-G-5	1.4	1,799.24	mg/l		19.0	man acc	
122	480-193482-G-6	1.4	248.67	mg/l		4.0	man acc	
124	msd480-193482-G-	1.4	67.50	mg/l		0.0	man acc	
125	480-193482-G-7	1.4	1,993.21	mg/l		19.0	man acc	
126	480-193562-K-1	1.4	7.01	mg/l		0.0	man acc	Outside calibration
127	480-193482-G-8	1.4	50.16	mg/l		0.0	man acc	
128	CCB	1.4	2.88	mg/l		0.0	man acc	Outside calibration
129	CCV ALK	1.4	52.61	mg/l		0.0	man acc	
130	LCS ALK	1.4	51.96	mg/l		0.0	man acc	
131	MB	1.4	1.56	mg/l		0.0	man acc	Outside calibration
132	ms480-193482-G-8	1.4	62.72	mg/l		0.0	man acc	
133	480-193482-G-9	1.4	648.10	mg/l		6.0	man acc	
134	480-193562-K-2	1.4	9.57	mg/l		0.0	man acc	Outside calibration
136	480-193562-K-4	1.4	246.81	mg/l		2.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
137	480-193562-K-5	1.4	15.07	mg/l		0.0	man acc	
139	480-193562-K-6	1.4	86.29	mg/l		0.0	man acc	
140	480-193562-K-7	1.4	13.24	mg/l		0.0	man acc	
145	480-193562-K-8	1.4	91.49	mg/l		0.0	man acc	
146	CCB	1.4	2.02	mg/l		0.0	man acc	Outside calibration
147	CCV ALK	1.4	52.21	mg/l		0.0	man acc	
148	LCS ALK	1.4	51.67	mg/l		0.0	man acc	
149	MB	1.4	0.07	mg/l		0.0	man acc	Outside calibration
154	480-193265-G-9	1.4	332.57	mg/l		3.0	man acc	
155	CCB	1.4	3.58	mg/l		0.0	man acc	Outside calibration
156	CCV ALK	1.4	53.14	mg/l		0.0	man acc	
157	LCS ALK	1.4	50.39	mg/l		0.0	man acc	
158	MB	1.4	2.92	mg/l		0.0	man acc	Outside calibration
159	480-193290-I-6	1.4	11.93	mg/l		0.0	man acc	
160	480-193330-G-2	1.4	187.00	mg/l		2.0	man acc	
161	ms480-193330-G-2	1.4	201.09	mg/l		2.0	man acc	
162	msd480-193330-G-	1.4	201.58	mg/l		2.0	man acc	
163	480-193382-K-1	1.4	7,816.92	mg/l		79.0	man acc	
164	480-193411-G-2	1.4	312.75	mg/l		3.0	man acc	
165	ms480-193411-G-3	1.4	22.95	mg/l		0.0	man acc	
166	msd480-193411-G-	1.4	22.82	mg/l		0.0	man acc	
167	CCB	1.4	1.44	mg/l		0.0	man acc	Outside calibration
168	CCV ALK	1.4	51.25	mg/l		0.0	man acc	
169	LCS ALK	1.4	54.25	mg/l		0.0	man acc	
170	MB	1.4	0.98	mg/l		0.0	man acc	Outside calibration
171	480-193436-K-2	1.4	85.42	mg/l		1.0	man acc	
172	480-193436-K-3	1.4	157.72	mg/l		2.0	man acc	
173	480-193467-I-7	1.4	387.87	mg/l		4.0	man acc	
174	480-193481-G-1	1.4	229.41	mg/l		2.0	man acc	
175	480-193482-G-1	1.4	1,746.44	mg/l		19.0	man acc	
184	480-193562-K-3	1.4	328.04	mg/l		4.0	man acc	
185	CCB	1.4	2.09	mg/l		0.0	man acc	Outside calibration
186	CCV ALK	1.4	52.68	mg/l		0.0	man acc	
187	LCS ALK	1.4	51.81	mg/l		0.0	man acc	
188	MB	1.4	1.40	mg/l		0.0	man acc	Outside calibration

Historical Data Summary Report

For Batch 609594

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193265-G-10	357R	310.2	Alkalinity, Total	Total/NA	mg/L	8	25.0	2220	☐	1461.187 - 2621.313	☐	1328 - 2700
480-193265-G-11	D-19RR	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	130	☐	0 - 3868.558	☐	28 - 2688
480-193265-G-4	75R	310.2	Alkalinity, Total	Total/NA	mg/L	8	10.0	561	☐	231.954 - 571.796	☐	267.2 - 606
480-193265-G-5	76R	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	302	☐	275.232 - 355.268	☐	237.6 - 403.2
480-193265-G-6	DUP@76R	310.2	Alkalinity, Total	Total/NA	mg/L	1	5.0	308	☑	307 - 307	☐	245.6 - 368.4
480-193265-G-7	94R	310.2	Alkalinity, Total	Total/NA	mg/L	8	7.0	427	☐	33.376 - 1375.124	☐	274.4 - 1236
480-193265-G-8	PELA-4	310.2	Alkalinity, Total	Total/NA	mg/L	8	10.0	465	☐	54.698 - 1314.302	☐	348.8 - 1212
480-193265-G-9	89-167-3	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	333	☐	0 - 909.639	☐	129.6 - 931.2
480-193289-L-1	S01U	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	3.0	196	☐	129.951 - 279.049	☐	114.4 - 271.2
480-193289-L-2	T04D	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	4.0	179	☐	121.803 - 401.447	☐	152 - 391.2
480-193290-I-2	MW-13S	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	149	☐	62.092 - 256.908	☐	86.4 - 260.4
480-193290-I-3	MW-19D	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	21.7	☐	2.343 - 22.057	☑	4.88 - 19.32 RE
480-193290-I-4	MW-19S	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	11.6	☐	0 - 18.236	☐	0 - 14.64
480-193290-I-5	MW-7S	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	11.1	☐	4.647 - 14.753	☐	5.84 - 14.04
480-193290-I-6	MW-DUP	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	11.9	☐	0 - 467.761	☐	5.12 - 367.2
480-193290-I-7	MW-14S	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	234	☐	18.058 - 351.192	☐	86.4 - 362.4
480-193290-I-8	MW-15S	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	251	☐	19.564 - 329.436	☐	80 - 312
480-193290-I-9	MW-6S2	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	298	☐	196.9 - 342.6	☐	188.8 - 366
480-193292-E-1	LTANK	310.2	Alkalinity, Total	Total/NA	mg/L	8	100.0	8140	☐	5791.24 - 11323.76	☐	5656 - 12240
480-193292-E-2	LTANK2	310.2	Alkalinity, Total	Total/NA	mg/L	8	120.0	8720	☐	1756.061 - 13076.439	☐	3424 - 13080
480-193293-C-5	GA33C	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	5.0	361 350	☑	130.559 - 244.441	☑	124.8 - 252 OK: 609054
480-193301-E-1	MH03U	310.2	Alkalinity, Total	Total/NA	mg/L	8	40.0	3580	☐	1389.67 - 4835.33	☐	2056 - 4980
480-193301-E-2	MH04L	310.2	Alkalinity, Total	Total/NA	mg/L	8	7.0	555	☐	306.381 - 695.619	☐	340.8 - 733.2
480-193301-E-3	LST05	310.2	Alkalinity, Total	Total/NA	mg/L	8	60.0	5760	☐	2397.916 - 6764.584	☐	2760 - 7020
480-193301-E-4	LST06	310.2	Alkalinity, Total	Total/NA	mg/L	8	70.0	6060	☐	4693.412 - 7741.588	☐	4192 - 8316
480-193306-C-1	MH01	310.2	Alkalinity, Total	Total/NA	mg/L	8	7.0	488	☐	328.347 - 687.903	☐	317.6 - 676.8
480-193330-G-1	MW401	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	4	3.0	167	☐	160.814 - 185.186	☐	133.6 - 213.6
480-193330-G-1	MW401	310.2	Alkalinity, Carbonate	Total/NA	mg/L	4	3.0	ND	☐	0 - 0	☐	0 - 0
480-193330-G-2	MW402	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	4	3.0	187	☐	137.41 - 239.09	☐	128 - 244.8
480-193330-G-2	MW402	310.2	Alkalinity, Carbonate	Total/NA	mg/L	4	3.0	ND	☐	0 - 0	☐	0 - 0
480-193330-G-3	MW403	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	4	3.0	208	☐	178.652 - 246.848	☐	160.8 - 277.2
480-193330-G-3	MW403	310.2	Alkalinity, Carbonate	Total/NA	mg/L	4	3.0	ND	☐	0 - 0	☐	0 - 0
480-193330-G-4	MW412	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	4	3.0	179	☐	87.804 - 213.196	☐	101.6 - 219.6
480-193330-G-4	MW412	310.2	Alkalinity, Carbonate	Total/NA	mg/L	4	3.0	ND	☐	0 - 0	☐	0 - 0
480-193330-G-5	MW413-21	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	1	3.0	173	☑	186 - 186	☐	148.8 - 223.2
480-193330-G-5	MW413-21	310.2	Alkalinity, Carbonate	Total/NA	mg/L	1	3.0	ND	☐	0 - 0	☐	0 - 0
480-193330-G-6	MW414-21	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	1	2.0	155	☑	0 - 0	☑	0 - 0 OK
480-193330-G-6	MW414-21	310.2	Alkalinity, Carbonate	Total/NA	mg/L	1	2.0	ND	☐	0 - 0	☐	0 - 0
480-193331-G-2	MW-16D	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	204	☐	124.531 - 298.219	☐	113.6 - 280.8

Historical Data Summary Report

For Batch 609594

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193331-I-1	MW-16S	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	31.6	☐	15.839 - 113.311	☐	27.76 - 104.04
480-193332-H-1	DUP	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	34.1	☐	0 - 66.418	☐	7.52 - 52.08
480-193332-H-3	WS-1D	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	33.4	☐	25.564 - 48.736	☐	27.28 - 56.28
480-193332-H-4	WS-1S	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	113	☑	15.514 - 108.136	☑	23.92 - 96.84 RE
480-193334-J-1	WMNMH1	310.2	Alkalinity, Bicarbonate	Total/NA	mg/L	8	30.0	1320	☐	0 - 4707.099	☐	55.68 - 3312
480-193334-J-1	WMNMH1	310.2	Alkalinity, Carbonate	Total/NA	mg/L	8	30.0	ND	☐	0 - 0	☐	0 - 0
480-193351-C-1	MW201A	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	308	☐	10.097 - 426.403	☐	97.6 - 391.2
480-193351-C-2	MW227	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	335	☐	268.923 - 410.827	☐	228.8 - 441.6
480-193351-C-3	MW228	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	349	☐	243.896 - 476.854	☐	230.4 - 493.2
480-193353-C-2	MW201	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	5.0	382	☐	324.329 - 410.171	☐	272.8 - 474
480-193353-C-3	MW225	310.2	Alkalinity, Dissolved	Dissolved	mg/L	8	4.0	263	☐	225.604 - 347.646	☐	210.4 - 400.8
480-193382-K-1	INFLUENT	310.2	Alkalinity, bicarb (CaCO3)	Total/NA	mg/L	8	80.0	7820	☐	0 - 12326.255	☐	42.56 - 8712
480-193382-K-1	INFLUENT	310.2	Alkalinity, Total	Total/NA	mg/L	8	80.0	7820	☐	0 - 12326.255	☐	42.56 - 8712
480-193411-G-1	ST-5	310.2	Alkalinity, bicarb (CaCO3)	Total/NA	mg/L	8	4.0	120	☐	0 - 589.401	☐	42.72 - 468
480-193411-G-1	ST-5	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	120	☐	0 - 589.401	☐	42.72 - 468
480-193411-G-2	ST-3	310.2	Alkalinity, bicarb (CaCO3)	Total/NA	mg/L	8	4.0	313	☐	131.77 - 464.23	☐	179.2 - 468
480-193411-G-2	ST-3	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	313	☐	131.77 - 464.23	☐	179.2 - 468
480-193411-G-3	03FB	310.2	Alkalinity, bicarb (CaCO3)	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193411-G-3	03FB	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-2	MW-3A	310.2	Alkalinity, Total	Total/NA	mg/L	8	2.0	85.4	☐	0 - 303.817	☐	46.72 - 248.4
480-193436-K-3	MW-3B	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	158	☐	128.503 - 187.247	☐	116.8 - 210
480-193436-K-4	MW-4A	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	429	☐	284.079 - 595.921	☐	300.8 - 639.6
480-193436-K-5	MW-5A	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	156	☐	105.45 - 173.05	☐	90.4 - 178.8
480-193436-K-6	MW-6A	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	221	☐	0 - 405.083	☐	0 - 346.8
480-193436-K-7	MW-6B	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	142	☐	116.796 - 183.204	☐	106.4 - 202.8
480-193436-K-8	MW-7A	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	279	☐	132.474 - 636.776	☐	184 - 609.6
480-193467-I-1	01FB	310.2	Alkalinity, bicarb (CaCO3)	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-I-1	01FB	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-I-2	YSC01	310.2	Alkalinity, bicarb (CaCO3)	Total/NA	mg/L	8	5.0	379	☐	163.069 - 536.431	☐	189.6 - 510
480-193467-I-2	YSC01	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	379	☐	163.069 - 536.431	☐	189.6 - 510
480-193467-I-3	YSC02	310.2	Alkalinity, bicarb (CaCO3)	Total/NA	mg/L	8	4.0	286	☐	208.819 - 348.181	☐	195.2 - 376.8
480-193467-I-3	YSC02	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	286	☐	208.819 - 348.181	☐	195.2 - 376.8
480-193467-I-4	YSP03R	310.2	Alkalinity, bicarb (CaCO3)	Total/NA	mg/L	8	3.0	226	☐	173.711 - 276.039	☐	162.4 - 306
480-193467-I-4	YSP03R	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	226	☐	173.711 - 276.039	☐	162.4 - 306
480-193467-I-5	YSP05	310.2	Alkalinity, bicarb (CaCO3)	Total/NA	mg/L	8	4.0	256	☐	229.105 - 306.395	☐	193.6 - 342
480-193467-I-5	YSP05	310.2	Alkalinity, Total	Total/NA	mg/L	8	4.0	256	☐	229.105 - 306.395	☐	193.6 - 342
480-193467-I-6	YSP08	310.2	Alkalinity, bicarb (CaCO3)	Total/NA	mg/L	8	5.0	360	☐	308.948 - 419.052	☐	268.8 - 472.8
480-193467-I-6	YSP08	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	360	☐	308.948 - 419.052	☐	268.8 - 472.8
480-193467-I-7	YSP09	310.2	Alkalinity, bicarb (CaCO3)	Total/NA	mg/L	8	5.0	388	☐	329.143 - 474.107	☐	291.2 - 520.8

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Historical Data Summary Report

For Batch 609594

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193467-I-7	YSP09	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	388	☐	329.143 - 474.107	☐	291.2 - 520.8
480-193481-G-1	MH8L-MLD	310.2	Alkalinity, Total	Total/NA	mg/L	8	3.0	229	☐	0 - 1479.672	☐	0 - 1094.4
480-193482-G-1	172R	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1750	☐	347.335 - 2587.665	☐	760 - 2544
480-193482-G-2	413R	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1920	☐	638.361 - 2561.639	☐	960 - 2676
480-193482-G-3	173R	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	240	☐	202.61 - 317.14	☐	188.8 - 349.2
480-193482-G-4	171R	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	204	☐	110.059 - 270.691	☐	110.4 - 284.4
480-193482-G-5	169RR	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1800	☐	72.59 - 2428.66	☐	489.6 - 2388
480-193482-G-6	170R	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	249	☐	223.125 - 326.875	☐	189.6 - 356.4
480-193482-G-7	302R	310.2	Alkalinity, Total	Total/NA	mg/L	8	20.0	1990	☐	338.75 - 2299.5	☐	690.4 - 2064
480-193482-G-8	301RR	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	50.2	☐	16.251 - 117.599	☐	35.28 - 117.48
480-193482-G-9	300R	310.2	Alkalinity, Total	Total/NA	mg/L	8	7.0	648	☐	0 - 1656.647	☐	292 - 1572
480-193562-K-1	DUP-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	ND	☐	0 - 825.411	☐	0 - 816
480-193562-K-2	MW-1I	310.2	Alkalinity, Total	Total/NA	mg/L	1	1.0	ND	☑	11 - 11	☑	8.8 - 13.2 OK
480-193562-K-3	MW-2S	310.2	Alkalinity, Total	Total/NA	mg/L	8	5.0	330	☐	0 - 403.069	☐	0 - 336
480-193562-K-4	MW-3I	310.2	Alkalinity, Total	Total/NA	mg/L	2	3.0	250	☐	40 - 370	☑	164 - 246 OK
480-193562-K-5	MW-4S	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	15	☐	0 - 342.299	☐	0 - 252
480-193562-K-6	MW-6I	310.2	Alkalinity, Total	Total/NA	mg/L	2	1.0	86	☐	50 - 89	☑	55.6 - 83.4 OK
480-193562-K-7	SUR-1	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	13	☐	0 - 130.547	☐	0 - 106.8
480-193562-K-8	SUR-2	310.2	Alkalinity, Total	Total/NA	mg/L	8	1.0	91	☐	0 - 236.781	☐	0 - 204

TestAmerica Buffalo
pH Screening for Alkalinity Method 310.2

Logbook # A19-43

DATE	ANALYST	JOB #	SAMPLE ID	pH	COMMENTS
12/1/21	SRW	192729	J1→4	≤6.5	607312
		192745	C1		
		192770	H1		
		192791	L1→23		
		192842	L1→8		
		192843	U1,2		
		192854	M2,10		
		192911	F1→4		
12/10/21	SRW	193003	G1	≤6.5	608471
↓	↓	193073	A1→7	↓	↓
12/15/21	SRW	193248	F1,2	≤6.5	609054
↓	↓	193293	C1→13	↓	↓
12/20/21	SRW	193289	L1,2	≤6.5	609594
		193330	G1→6		
		193334	J1		
		193382	K1		
		193411	G1→3		
		193467	F1→7		

REVIEWD BY/ DATE _____ pH Narrow range Paper Lot # _____

BF-WC-LB-010
Rev. 0
2/27/2013

G09504
G09505

Solutions:

Potassium Phosphate Buffer	**6820866**	**Exp: 1/17/2022**
Pyridine Barbituric Acid	**6817080**	**Exp: 12/22/2021**
Chloramine-T	**6823493**	**Exp: 12/21/2021**
50ppm INT STD	**6822991**	**Exp: 12/27/2021**
CN .25ppm CCV Std	**6823862**	**Exp: 12/21/2021**

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/MSD = 0.1mg/L

Cyanide Curve Lachat 2 : 12/07/2021
Curve Standard (50 ppm): 6803856
ICV (0.250 ppm): 607844/3

Date : 12/7/2021

Author: BufLachat2

Original Run Filename: OM_12-7-2021_10-41-08AM.OMN Created: 12/7/2021 10:41:08 AM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_12-7-2021_10-41-08AM.OMN Last Modified: 12/7/2021 10:59:44 AM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

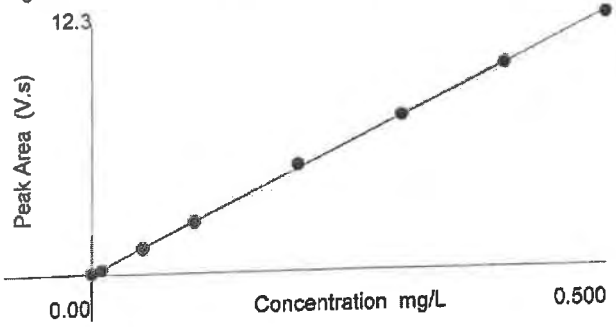
Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
Cal Std 1 - 0.5	1	S1	0.500	12.3	0.603	12/7/2021@10:42:04 AM
Cal Std 2 - 0.4	1	S2	0.400	9.94	0.478	12/7/2021@10:43:31 AM
Cal Std 3 - 0.3	1	S3	0.300	7.51	0.381	12/7/2021@10:44:58 AM
Cal Std 4 - 0.2	1	S4	0.200	5.19	0.248	12/7/2021@10:46:24 AM
Cal Std 5 - 0.1	1	S5	0.100	2.48	0.116	12/7/2021@10:47:51 AM
Cal Std 6 - 0.05	1	S6	0.0500	1.23	0.0606	12/7/2021@10:49:19 AM
Cal Std 7 - 0.01	1	S7	0.0100	0.234	0.0170	12/7/2021@10:50:47 AM
cal Std 8 - 0	1	S10	0.00	0.0647	-2.96e-3	12/7/2021@10:52:13 AM
icv	1	1	0.268	6.68	0.344	12/7/2021@10:53:41 AM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
icb	1	S10	-7.69e-3	-0.167	-9.05e-3	12/7/2021@10:55:07 AM
	Known Conc:		100			
icvl	1	S7	0.0127	0.340	0.0161	12/7/2021@10:56:35 AM
	Known Conc:		0.00			

1.072% recovery

Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.3	0.603	0.0	1.0	0.495	12/7/2021	10:42:04 AM
2	0.400	1	9.94	0.478	0.0	0.1	0.399	12/7/2021	10:43:31 AM
3	0.300	1	7.51	0.381	0.0	-0.5	0.301	12/7/2021	10:44:58 AM
4	0.200	1	5.19	0.248	0.0	-4.0	0.208	12/7/2021	10:46:24 AM
5	0.100	1	2.48	0.116	0.0	1.1	0.0988	12/7/2021	10:47:51 AM
6	0.0500	1	1.23	0.0606	0.0	2.8	0.0486	12/7/2021	10:49:19 AM
7	0.0100	1	0.234	0.0170	0.0	14.2	8.45e-3	12/7/2021	10:50:47 AM
8	0.00	1	0.0647	-2.96e-3			1.63e-3	12/7/2021	10:52:13 AM

Figure : 1 (Cyanide)



Area = 24.8 * Conc + 0.0246
Conc = 0.0403 * Area - 9.70e-4
Correlation Coefficient (r) = 0.99994

Weighting : 1/x

609504

Author: BufLachat2

Date : 12/20/2021

Original Run Filename: OM_12-20-2021_11-21-01AM.OMN Created: 12/20/2021 11:21:01 AM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_12-20-2021_11-21-01AM.OMN Last Modified: 12/20/2021 12:08:24 PM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S9	0.243	6.06	0.321	12/20/2021@11:21:58 AM
	Known Conc:		0.250			
CCB	1	S10	-3.20e-3	-0.0554	-4.12e-3	12/20/2021@11:23:25 AM
	Known Conc:		0.00			
	Calibration:		Table/Fig. : 1			
MB 480-609491/1-A	1	1	9.37e-4	0.0474	-7.80e-3	12/20/2021@11:24:52 AM
LCS 480-609491/2-O	1	2	0.440	11.0	0.563	12/20/2021@11:26:19 AM
LCS 480-609491/3-A	1	3	0.269	6.71	0.328	12/20/2021@11:27:46 AM
CCVL 480-609491/4-A	1	4	0.0911	2.29	0.113	12/20/2021@11:29:13 AM
480-193436-E-2-A	1	5	5.88e-4	0.0387	6.77e-3	12/20/2021@11:30:40 AM
480-193436-E-2-B DU	1	6	6.18e-3	0.178	7.84e-3	12/20/2021@11:32:07 AM
480-193436-E-3-A	1	7	0.0103	0.279	8.20e-3	12/20/2021@11:33:33 AM
480-193436-E-3-B MS	1	8	0.111	2.78	0.143	12/20/2021@11:35:00 AM
480-193436-E-4-A	1	9	8.28e-3	0.230	0.0138	12/20/2021@11:36:26 AM
480-193436-E-5-A	1	10	0.0128	0.342	8.19e-3	12/20/2021@11:37:52 AM
CCV	1	S9	0.252	6.29	0.310	12/20/2021@11:39:18 AM
	Known Conc:		0.250			
CCB	1	S10	-1.90e-3	-0.0231	-4.56e-3	12/20/2021@11:40:45 AM
	Known Conc:		0.00			
480-193436-E-6-A	1	11	7.81e-3	0.218	7.83e-3	12/20/2021@11:42:11 AM
480-193436-E-7-A	1	12	-4.22e-3	-0.0808	-5.18e-3	12/20/2021@11:43:37 AM
480-193436-E-8-A	1	13	0.0110	0.296	6.88e-3	12/20/2021@11:45:03 AM
480-193490-E-1-A	1	14	9.95e-3	0.271	0.0117	12/20/2021@11:46:29 AM
480-193581-B-1-A	1	15	9.45e-3	0.259	8.94e-3	12/20/2021@11:47:54 AM
480-193581-A-2-A	1	16	0.646	16.1	0.947	12/20/2021@11:49:22 AM
620-2160-A-2-A	1	17	3.31e-3	0.106	4.66e-3	12/20/2021@11:50:49 AM
620-2189-A-2-A	1	18	2.12e-3	0.0768	-4.52e-3	12/20/2021@11:52:16 AM
620-2205-A-2-A	1	19	7.66e-3	0.214	-3.72e-3	12/20/2021@11:53:43 AM
620-2238-A-2-A	1	20	2.38e-3	0.0833	5.33e-3	12/20/2021@11:55:09 AM
CCV	1	S9	0.250	6.24	0.309	12/20/2021@11:56:36 AM
	Known Conc:		0.250			
CCB	1	S10	-2.27e-3	-0.0323	2.00e-3	12/20/2021@11:58:02 AM
	Known Conc:		0.00			
620-2240-G-3-A	1	21	9.96e-3	0.272	9.76e-3	12/20/2021@11:59:29 AM
620-2240-G-3-B MS	1	22	0.100	2.51	0.120	12/20/2021@12:00:55 PM
480-193581-A-2-A^2	1	1	-2.22e-3	-0.0310	-7.86e-3	12/20/2021@12:02:22 PM
CCV	1	S9	0.248	6.18	0.310	12/20/2021@12:03:48 PM
	Known Conc:		0.250			
CCB	1	S10	-1.42e-3	-0.0111	-7.86e-3	12/20/2021@12:05:15 PM
	Known Conc:		0.00			

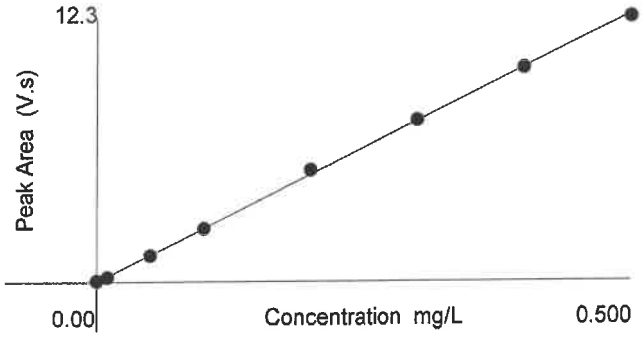
Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.3	0.603	0.0	1.0	0.495	12/7/2021	10:42:04 AM
2	0.400	1	9.94	0.478	0.0	0.1	0.399	12/7/2021	10:43:31 AM
3	0.300	1	7.51	0.381	0.0	-0.5	0.301	12/7/2021	10:44:58 AM
4	0.200	1	5.19	0.248	0.0	-4.0	0.208	12/7/2021	10:46:24 AM
5	0.100	1	2.48	0.116	0.0	1.1	0.0988	12/7/2021	10:47:51 AM
6	0.0500	1	1.23	0.0606	0.0	2.8	0.0486	12/7/2021	10:49:19 AM
7	0.0100	1	0.234	0.0170	0.0	14.2	8.45e-3	12/7/2021	10:50:47 AM
8	0.00	1	0.0647	-2.96e-3			1.63e-3	12/7/2021	10:52:13 AM

Author: BufLachat2

Date : 12/20/2021

Figure : 1 (Cyanide)



Area = 24.8 * Conc + 0.0246
Conc = 0.0403 * Area - 9.70e-4
Correlation Coefficient (r) = 0.99994

Weighting : 1/x

G09505

Date : 12/20/2021

Author: BufLachat2

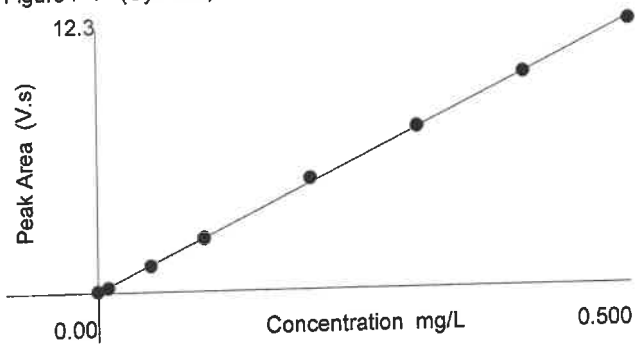
Original Run Filename: OM_12-20-2021_12-25-44PM.OMN Created: 12/20/2021 12:25:44 PM
Original Run Author's Signature: [BufLachat2]
Current Run Filename: OM_12-20-2021_12-25-44PM.OMN Last Modified: 12/20/2021 12:35:37 PM
Current Run Author's Signature: [BufLachat2]
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S9	0.247	6.16	0.294	12/20/2021@12:26:41 PM
	Known Conc:		0.250			
CCB	1	S10	-2.92e-3	-0.0485	-2.79e-3	12/20/2021@12:28:08 PM
	Known Conc:		0.00			
	Calibration:		Table/Fig. : 1			
480-193581-A-2-A^2	1	1	0.304	7.59	0.362	12/20/2021@12:29:35 PM
CCV	1	S9	0.249	6.21	0.291	12/20/2021@12:31:01 PM
	Known Conc:		0.250			
CCB	1	S10	-3.34e-3	-0.0589	-9.41e-3	12/20/2021@12:32:27 PM
	Known Conc:		0.00			

Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	12.3	0.603	0.0	1.0	0.495	12/7/2021	10:42:04 AM
2	0.400	1	9.94	0.478	0.0	0.1	0.399	12/7/2021	10:43:31 AM
3	0.300	1	7.51	0.381	0.0	-0.5	0.301	12/7/2021	10:44:58 AM
4	0.200	1	5.19	0.248	0.0	-4.0	0.208	12/7/2021	10:46:24 AM
5	0.100	1	2.48	0.116	0.0	1.1	0.0988	12/7/2021	10:47:51 AM
6	0.0500	1	1.23	0.0606	0.0	2.8	0.0486	12/7/2021	10:49:19 AM
7	0.0100	1	0.234	0.0170	0.0	14.2	8.45e-3	12/7/2021	10:50:47 AM
8	0.00	1	0.0647	-2.96e-3			1.63e-3	12/7/2021	10:52:13 AM

Figure : 1 (Cyanide)



Area = 24.8 * Conc + 0.0246
Conc = 0.0403 * Area - 9.70e-4
Correlation Coefficient (r) = 0.99994

Weighting : 1/x

Historical Data Summary Report

For Batch 609504

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193436-E-2-A	MW-3A	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0.05	☐	0 - 0.043
480-193436-E-3-A	MW-3B	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	0.010	☐	0 - 0.028	☐	0 - 0.024
480-193436-E-4-A	MW-4A	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0.015	☐	0 - 0.013
480-193436-E-5-A	MW-5A	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	0.013	☐	0 - 0.015	☐	0 - 0.013
480-193436-E-6-A	MW-6A	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-E-7-A	MW-6B	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-E-8-A	MW-7A	335.4	Cyanide, Total	Total/NA	mg/L	5	1.0	0.011	☐	0 - 0.015	☐	0 - 0.013

Analyst: JCO Date: 12/20
TALS Batch #: _____

Eurofins TestAmerica BUFFALO
Cyanide Micro-Distillation Logbook

Logbook # A21-17 60949

Job #	Sample I.D.	Dist. Flask	Sample Volume (mL)	Soil Weight (g)	Spike Volume	If Spiked Please Check:	Comments
MB	Blank	1	6				
LCS	0.400	2			6mL	✓	
LCS	0.250	3			6mL	✓	
CCVL	0.100	4			6mL	✓	
193432	E-2	5					
	E-2DUP	6					
	E-3	7					
	E-3MS	8			6mL	✓	
	E-4	9					
	E-5	10					
	E-6	11					
	B-7	12					
	E-8	13					
193490	E-1	14					
193581	B-1	15					
1	A-2	16					
620-2160	A-2	17					
620-2189	A-2	18					
620-2205	A-2	19					
620-2232	A-2	20					
620-2246	B-3	21					
1	B-3MS	22			6mL	✓	

Start Time: _____
End Time: _____

Cl₂ Check: _____
H₂S Check: _____

0.400 mg/L Complex CN LCS: 682040
0.250 mg/L Complex CN LCS: 682044B
0.100 mg/L Free CN CCVL: 682060
10 ppm Complex CN MS: 682304
10 ppm Free CN MS: _____
ERA Soil Lot: _____

1.0 N NaOH: _____
7.11M H_2SO_4 / 0.79M MgCl₂: _____
H_2NSO_3: _____
$NaCH_3COO$: _____
$ZnCH_3COO$: _____

SimpleDist Block A **: Set Temp. (°C):** 135 **Measured Start Temp. (°C):** 138 **Measured End Temp. (°C):** 138

Reviewed By: JCO **Date:** 12/20

Cyanide Micro Distillation BF-WC-CMDL-032
Rev. 1 December 29, 2020

on 10:30
off 11:00

60911 2

Ammonia 350.1

Nitrogen 1000mg/L Std CAL	6438488	Expires 08/31/22
Ammonia as N 1000mg/L Std CCV/LCS/ICV	6444516	Expires 11/03/22
Matrix Spike Int Std	6811478	Expires 12/17/21
Sodium Nitroferricyanide	6816864	Expires 01/15/22
Alkaline Phenol	6814728	Expires 12/20/21
5% EDTA Buffer	6816866	Expires 12/29/21
Sulfuric Acid Carrier	6816981	Expires 12/16/21
Sodium Hypochlorite	6816982	Expires 12/16/21
NH3 CCV/ICV 1.0ppm Std	6819208	Expires 12/17/21

ICV = 1.0ppm
LCS/CCV = 1.0ppm
MS/MSD = 0.2ppm

Distilled LCS/CCV = 1.0ppm
Distilled MS/MSD = 0.5ppm

Residual Chlorine check of samples CT

Author: BufLachat

Date : 12/16/2021

Original Run Filename: OM_12-16-2021_09-27-04AM.OMN Created: 12/16/2021 9:27:04 AM
Original Run Author's Signature: [BufLachat]
Current Run Filename: OM_12-16-2021_09-27-04AM.OMN Last Modified: 12/16/2021 11:01:56 AM
Current Run Author's Signature: [BufLachat]
Description: Default New Run

609112

Sample	Rep.	Cup No.	Channel 1 Ammonia as N Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time	Description
CCV	1	S10	1.04	11.1	0.936	12/16/2021@9:27:54 AM	
	Known Conc:		1.00				
	Calibration:		Table/Fig. : 1				
CCB	1	S11	-6.52e-5	0.180	0.0144	12/16/2021@9:29:00 AM	
	Known Conc:		0.00				
MB	1	S11	-2.31e-3	0.157	0.0141	12/16/2021@9:30:07 AM	
	Known Conc:		0.00				
LCS	1	S10	1.05	11.2	0.942	12/16/2021@9:31:13 AM	
	Known Conc:		1.00				
480-193435-aa-1	1	1	-0.0100	0.0758	4.99e-3	12/16/2021@9:32:19 AM	
MS 480-193435-aa-1	1	2	0.146	1.71	0.137	12/16/2021@9:33:27 AM	
480-193435-aa-2	1	3	2.34e-4	0.183	0.0121	12/16/2021@9:34:33 AM	
480-193435-aa-3	1	4	3.66	38.5	3.16	12/16/2021@9:35:39 AM	
480-193435-aa-4	1	5	0.421	4.59	0.369	12/16/2021@9:36:46 AM	
480-193435-aa-5	1	6	0.0250	0.443	0.0318	12/16/2021@9:37:52 AM	
480-193435-aa-7	1	7	-0.0149	0.0244	3.13e-3	12/16/2021@9:38:58 AM	
480-193436-c-2	1	8	-9.08e-3	0.0858	5.35e-3	12/16/2021@9:40:05 AM	
CCV	1	S10	1.05	11.2	0.942	12/16/2021@9:41:10 AM	
	Known Conc:		1.00				
CCB	1	S11	-5.76e-4	0.175	0.0139	12/16/2021@9:42:17 AM	
	Known Conc:		0.00				
480-193435-aa-6	1	9	0.155	1.81	0.139	12/16/2021@9:43:23 AM	
480-193435-aa-6 ms	1	10	0.300	3.33	0.258	12/16/2021@9:44:28 AM	
480-193435-aa-6 msd	1	11	0.305	3.38	0.261	12/16/2021@9:45:34 AM	
480-193436-c-3	1	12	-0.0165	8.15e-3	-1.13e-3	12/16/2021@9:46:40 AM	
480-193436-c-4	1	13	-0.0218	-0.0475	-5.04e-3	12/16/2021@9:47:46 AM	
480-193436-c-5	1	14	1.09e-3	0.192	0.0132	12/16/2021@9:48:51 AM	
480-193436-c-6	1	15	4.60e-3	0.229	0.0136	12/16/2021@9:49:56 AM	
480-193436-c-7	1	16	-0.0101	0.0747	5.27e-3	12/16/2021@9:51:03 AM	
480-193436-c-8	1	17	0.0177	0.367	0.0255	12/16/2021@9:52:09 AM	
480-193442-b-1	1	18	0.183	2.10	0.174	12/16/2021@9:53:16 AM	
CCV	1	S10	1.04	11.1	0.930	12/16/2021@9:54:23 AM	
	Known Conc:		1.00				
CCB	1	S11	-1.38e-3	0.167	0.0140	12/16/2021@9:55:29 AM	
	Known Conc:		0.00				
MB	1	S11	-2.07e-3	0.159	0.0159	12/16/2021@9:56:35 AM	
	Known Conc:		0.00				
LCS	1	S10	1.05	11.2	0.937	12/16/2021@9:57:41 AM	
	Known Conc:		1.00				
480-193442-b-2	1	19	0.0980	1.21	0.0978	12/16/2021@9:58:47 AM	
MS 480-193442-b-2	1	20	0.297	3.29	0.271	12/16/2021@9:59:53 AM	
480-193459-f-1	1	21	-0.0102	0.0741	5.37e-3	12/16/2021@10:01:00 AM	
480-193465-c-2	1	22	0.0554	0.762	0.0589	12/16/2021@10:02:06 AM	
480-193465-c-3	1	23	0.0243	0.436	0.0343	12/16/2021@10:03:12 AM	
480-193467-b-1	1	24	-0.0129	0.0460	2.58e-3	12/16/2021@10:04:18 AM	
480-193467-b-2	1	25	0.0232	0.424	0.0330	12/16/2021@10:05:24 AM	
480-193467-b-3	1	26	0.475	5.16	0.415	12/16/2021@10:06:30 AM	
CCV	1	S10	1.05	11.1	0.932	12/16/2021@10:07:36 AM	
	Known Conc:		1.00				
CCB	1	S11	2.86e-4	0.184	0.0141	12/16/2021@10:08:42 AM	
	Known Conc:		0.00				
480-193467-b-4	1	27	0.0380	0.579	0.0447	12/16/2021@10:09:48 AM	
DU 480-193467-b-4	1	28	0.0381	0.580	0.0447	12/16/2021@10:10:53 AM	
MS 480-193467-b-4	1	29	0.236	2.66	0.213	12/16/2021@10:11:58 AM	
480-193467-b-5	1	30	0.326	3.60	0.287	12/16/2021@10:13:04 AM	
480-193467-b-6	1	31	0.0423	0.624	0.0463	12/16/2021@10:14:11 AM	
480-193467-b-7	1	32	0.442	4.81	0.384	12/16/2021@10:15:17 AM	

480-193481-d-1	1	33	0.0141	0.328	0.0250	12/16/2021@10:16:24 AM	
480-193482-d-1	1	34	8.26	86.7	6.58	12/16/2021@10:17:31 AM	
480-193482-d-2	1	35	7.98	83.9	6.43	12/16/2021@10:18:37 AM	
480-193482-d-3	1	36	0.893	9.54	0.771	12/16/2021@10:19:43 AM	
CCV	1	S10	1.05	11.2	0.932	12/16/2021@10:20:49 AM	
	Known Conc:		1.00				
CCB	1	S11	-1.36e-3	0.167	0.0136	12/16/2021@10:21:55 AM	
	Known Conc:		0.00				
MB	1	S11	-4.78e-4	0.176	0.0132	12/16/2021@10:23:01 AM	
	Known Conc:		0.00				
LCS	1	S10	1.05	11.2	0.938	12/16/2021@10:24:08 AM	
	Known Conc:		1.00				
480-193482-d-4	1	37	1.00	10.7	0.882	12/16/2021@10:25:14 AM	
MS 480-193482-d-4	1	38	1.21	12.8	1.06	12/16/2021@10:26:20 AM	
480-193482-d-5^10	1	39	0.804	8.61	0.725	12/16/2021@10:27:26 AM	
480-193482-d-6	1	40	0.395	4.32	0.348	12/16/2021@10:28:32 AM	
480-193482-d-7^10	1	41	0.822	8.79	0.737	12/16/2021@10:29:37 AM	
480-193482-d-8^2	1	42	1.54	16.4	1.38	12/16/2021@10:30:43 AM	
480-193482-d-9^10	1	43	0.831	8.89	0.749	12/16/2021@10:31:48 AM	
480-193498-d-1	1	44	-0.0105	0.0707	4.71e-3	12/16/2021@10:32:54 AM	
CCV	1	S10	1.04	11.1	0.930	12/16/2021@10:34:00 AM	
	Known Conc:		1.00				
CCB	1	S11	-4.76e-4	0.176	0.0145	12/16/2021@10:35:23 AM	
	Known Conc:		0.00				
480-193498-d-2^10	1	45	7.12	74.8	5.82	12/16/2021@10:36:11 AM	
480-193498-d-3	1	46	-8.54e-3	0.0915	5.72e-3	12/16/2021@10:37:18 AM	
480-193498-d-4	1	47	1.42	15.1	1.24	12/16/2021@10:38:25 AM	
480-193498-d-5	1	48	0.142	1.67	0.136	12/16/2021@10:39:32 AM	
DU 480-193498-d-5	1	49	0.135	1.60	0.130	12/16/2021@10:40:38 AM	
MS 480-193498-d-5	1	50	0.364	3.99	0.327	12/16/2021@10:41:45 AM	
480-193435-aa-3^5	1	51	0.784	8.40	0.705	12/16/2021@10:42:51 AM	
480-193482-d-1^10	1	52	0.945	10.1	0.843	12/16/2021@10:43:58 AM	
480-193482-d-2^10	1	53	0.872	9.32	0.784	12/16/2021@10:45:03 AM	
480-193498-d-6	1	54	2.38	25.2	2.05	12/16/2021@10:46:09 AM	
CCV	1	S10	1.05	11.2	0.939	12/16/2021@10:47:15 AM	
	Known Conc:		1.00				
CCB	1	S11	-2.06e-3	0.159	0.0139	12/16/2021@10:48:22 AM	
	Known Conc:		0.00				
MB	1	S11	-1.56e-3	0.165	0.0138	12/16/2021@10:49:28 AM	
	Known Conc:		0.00				
LCS	1	S10	1.05	11.2	0.934	12/16/2021@10:50:34 AM	
	Known Conc:		1.00				
480-193498-d-2^50	1	55	0.399	4.36	0.363	12/16/2021@10:51:39 AM	
DU 480-193498-d-2^50	1	56	0.308	3.41	0.284	12/16/2021@10:52:45 AM	
MS 480-193498-d-2^50	1	57	0.517	5.60	0.467	12/16/2021@10:53:51 AM	
480-193498-d-6^2	1	58	1.36	14.4	1.20	12/16/2021@10:54:56 AM	
480-193498-d-2^10	1	59	1.57	16.6	1.38	12/16/2021@10:56:19 AM	
CCV	1	S10	1.05	11.2	0.939	12/16/2021@10:57:25 AM	
	Known Conc:		1.00				
CCB	1	S11	-1.88e-3	0.161	0.0134	12/16/2021@10:58:31 AM	
	Known Conc:		0.00				
1	1	63	0.493	5.35	2.84	12/16/2021@10:59:38 AM	

500ul → 5ml
500ul → 5ml
2.5ml → 5ml
500ul → 5ml
500ul → 5ml
1ml → 5ml
500ul → 5ml
100ul → 5ml
2.5ml → 5ml
500ul → 5ml

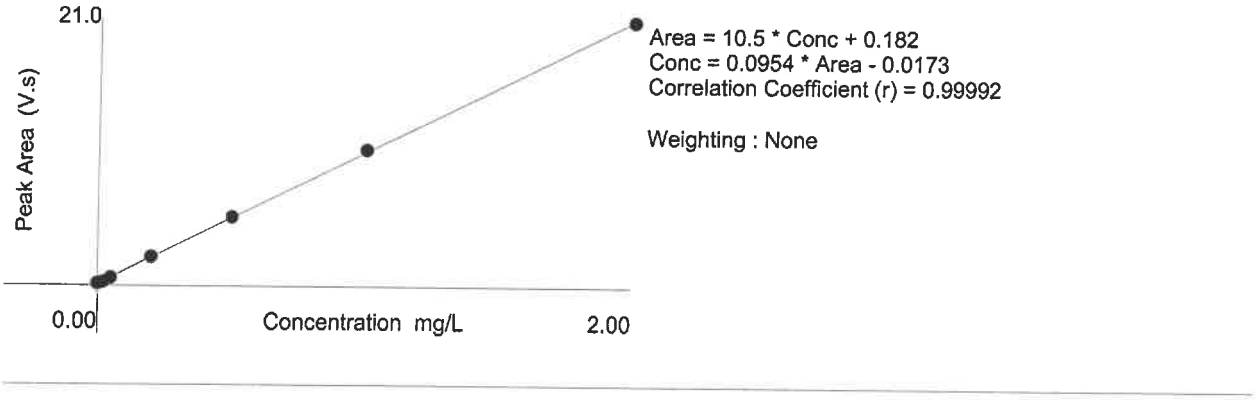
Author: BufLachat

Date : 12/16/2021

Table : 1 (Ammonia as N)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	2.00	1	21.0	1.76	0.0	0.5	1.99	12/6/2021	8:50:12 AM
2	1.00	1	10.8	0.911	0.0	-1.6	1.02	12/6/2021	8:51:03 AM
3	0.500	1	5.47	0.459	0.0	-0.8	0.504	12/6/2021	8:51:54 AM
4	0.200	1	2.31	0.193	0.0	-1.3	0.203	12/6/2021	8:52:45 AM
5	0.0500	1	0.638	0.0524	0.0	9.5	0.0436	12/6/2021	8:53:37 AM
6	0.0200	1	0.300	0.0245	0.0	23.3	0.0114	12/6/2021	8:54:29 AM
7	0.00	1	0.194	0.0150			1.26e-3	12/6/2021	8:55:21 AM

Figure : 1 (Ammonia as N)



Author: buflachat

Date : 12/6/2021

Original Run Filename: OM_12-6-2021_08-49-22AM.OMN Created: 12/6/2021 8:49:22 AM
Original Run Author's Signature: [buflachat]
Current Run Filename: OM_12-6-2021_08-49-22AM.OMN Last Modified: 12/6/2021 8:58:54 AM
Current Run Author's Signature: [buflachat]
Description: Default New Run

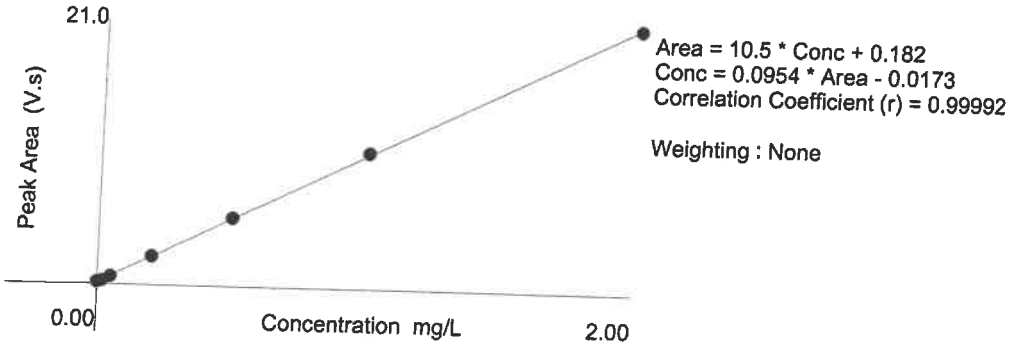
Sample	Rep.	Cup No.	Channel 1 Ammonia as N Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time	Description
2.0	1	S1	2.00	21.0	1.76	12/6/2021@8:50:12 AM	
1.0	1	S2	1.00	10.8	0.911	12/6/2021@8:51:03 AM	
0.5	1	S3	0.500	5.47	0.459	12/6/2021@8:51:54 AM	
0.2	1	S4	0.200	2.31	0.193	12/6/2021@8:52:45 AM	
0.05	1	S5	0.0500	0.638	0.0524	12/6/2021@8:53:37 AM	
0.02	1	S6	0.0200	0.300	0.0245	12/6/2021@8:54:29 AM	
0.0	1	S11	0.00	0.194	0.0150	12/6/2021@8:55:21 AM	
ICV	1	S10	1.01	10.7	0.901	12/6/2021@8:56:12 AM	
Calibration:			Table/Fig. : 1				
ICB	1	S11	1.16e-3	0.193	0.0157	12/6/2021@8:57:03 AM	

101% recovery

Table : 1 (Ammonia as N)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	2.00	1	21.0	1.76	0.0	0.5	1.99	12/6/2021	8:50:12 AM
2	1.00	1	10.8	0.911	0.0	-1.6	1.02	12/6/2021	8:51:03 AM
3	0.500	1	5.47	0.459	0.0	-0.8	0.504	12/6/2021	8:51:54 AM
4	0.200	1	2.31	0.193	0.0	-1.3	0.203	12/6/2021	8:52:45 AM
5	0.0500	1	0.638	0.0524	0.0	9.5	0.0436	12/6/2021	8:53:37 AM
6	0.0200	1	0.300	0.0245	0.0	23.3	0.0114	12/6/2021	8:54:29 AM
7	0.00	1	0.194	0.0150			1.26e-3	12/6/2021	8:55:21 AM

Figure : 1 (Ammonia as N)



Historical Data Summary Report

For Batch 609112

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193435-AA-1	DUP 1	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 5.719	☐	0 - 6.12
480-193436-C-2	MW-3A	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.104	☐	0 - 0.106
480-193436-C-3	MW-3B	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.025	☐	0 - 0.026
480-193436-C-4	MW-4A	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.053	☐	0 - 0.056
480-193436-C-5	MW-5A	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-C-6	MW-6A	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.245	☐	0 - 2.4
480-193436-C-7	MW-6B	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.084	☐	0 - 0.076
480-193436-C-8	MW-7A	350.1	Ammonia	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.175	☐	0 - 0.144
480-193467-B-1	01FB	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.044	☐	0 - 0.047
480-193467-B-2	YSC01	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	0.023	☐	0 - 0.305	☐	0 - 0.276
480-193467-B-3	YSC02	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	0.48	☐	0.196 - 0.659	☐	0.24 - 0.648
480-193467-B-4	YSP03R	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	0.038	☐	0 - 0.109	☐	0 - 0.085
480-193467-B-5	YSP05	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	0.33	☐	0.215 - 0.495	☐	0.232 - 0.54
480-193467-B-6	YSP08	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	0.042	☐	0 - 0.056	☐	0 - 0.054
480-193467-B-7	YSP09	350.1	Ammonia as N	Total/NA	mg/L	8	1.0	0.44	☐	0.262 - 0.56	☐	0.28 - 0.576
480-193481-D-1	MH8L-MLD	350.1	Ammonia	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 518.872	☐	0 - 405.6
480-193482-D-1 ^10	172R	350.1	Ammonia	Total/NA	mg/L as N	8	10.0	9.5	☐	6.941 - 15.184	☐	7.12 - 16.32
480-193482-D-2 ^10	413R	350.1	Ammonia	Total/NA	mg/L as N	8	10.0	8.7	☐	6.028 - 15.597	☐	6.64 - 15.84
480-193482-D-3	173R	350.1	Ammonia	Total/NA	mg/L as N	8	1.0	0.89	☐	0.739 - 1.231	☐	0.688 - 1.32
480-193482-D-4	171R	350.1	Ammonia	Total/NA	mg/L as N	8	1.0	1.0	☐	0.662 - 1.488	☐	0.656 - 1.44
480-193482-D-5 ^10	169RR	350.1	Ammonia	Total/NA	mg/L as N	8	10.0	8.0	☐	5.585 - 12.715	☐	5.68 - 12.96
480-193482-D-6	170R	350.1	Ammonia	Total/NA	mg/L as N	8	1.0	0.40	☐	0.18 - 0.425	☐	0.192 - 0.468
480-193482-D-7 ^10	302R	350.1	Ammonia	Total/NA	mg/L as N	8	10.0	8.2	☐	6.187 - 19.488	☐	8.08 - 21.24
480-193482-D-8 ^2	301RR	350.1	Ammonia	Total/NA	mg/L as N	8	2.0	3.1	☐	0 - 15.09	☐	0.688 - 12.84
480-193482-D-9 ^10	300R	350.1	Ammonia	Total/NA	mg/L as N	8	10.0	8.3	☐	6.768 - 13.782	☐	6.8 - 14.64
480-193498-D-1	FIELD BLANK	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.022	☐	0 - 0.024
480-193498-D-2 ^10	MW-1C	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	10.0	15.7	☐	0 - 28.964	☐	3.04 - 23.64
480-193498-D-3	MW-2B	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.174	☐	0 - 0.18
480-193498-D-4	MW-30CU	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	1.4	☐	0 - 1.808	☐	0.264 - 1.92
480-193498-D-5	MW-31CU	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	1.0	0.14	☐	0 - 2.034	☐	0 - 1.92
480-193498-D-6 ^2	MW-4A	350.1	Ammonia (as N)	Total/NA	mg/L as N	8	2.0	2.7	☐	0.133 - 6.767	☐	1.52 - 6.72

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12/30/2021

609250

Solutions Used: Konelab AQUA20 & 20XT

TKN Reagent	I.D	Expires
Sodium Salicylate	6798093	30 Dec 2021
Sodium Hypochlorite	6803876	20 Dec 2021
Buffer	6804144	20 Dec 2021

Standards:

Name	ID	Expiration
Ammonia as N 1000ppm	6258170	11/03/2022
CCV (2.5ppm)	6820867	12/18/2021
Second Source Ammonia as N 1000 ppm (ICV)	6438487	08/31/2022
Total Kjeldahl Nitrogen 1000ppm:		
LCS (2.5ppm)		
MS (1.0ppm)	6103067	05/28/2022

TKN Curve Kone 1: 12-01-2021
Batch 607284
CURVE (5.0 ppm): 6797924
ICV (2.5 ppm): 6800303

TKN Curve Gallery 1: 11-22-2021
Batch 606076
CURVE (5.0 ppm): 6790643
ICV (2.5 ppm): 6791791

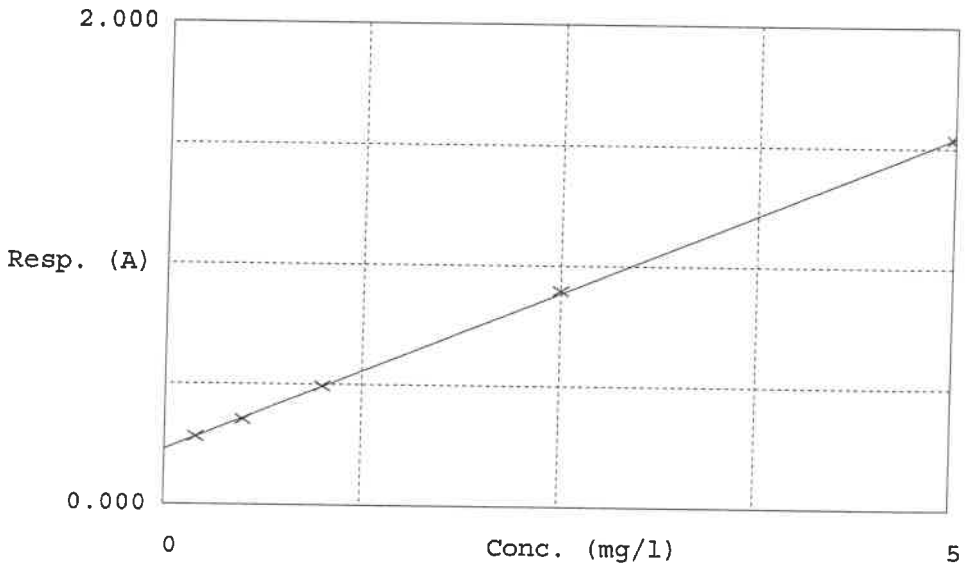
609250

Laboratory
Analyzer User

12/17/2021 8:21

Test TKN

Accepted	12/1/2021 4:55
Factor	3.815
Bias	0.230
Coeff. of det.	0.999837
Errors	Meas. error



	Calibrator	Response	Calc. con.	Conc.	Errors
1	TKN-5.0	0.282	0.1989	0.2000	E.e. out of limit
2	TKN-5.0	0.354	0.4748	0.5000	E.e. out of limit
3	TKN-5.0	0.493	1.0051	1.0000	E.e. out of limit
4	TKN-5.0	0.895	2.5394	2.5000	E.e. out of limit
5	TKN-5.0	1.535	4.9818	5.0000	E.e. out of limit

609250

Laboratory
Analyzer User

12/17/2021 8:22

Performed 12/17/2021 5:49
MAX acceptable SD 2.0 mA

Wavelength	Abs (mA)	SD (mA)	SignGain	RefGain	Voltage (V)
340 nm	-298.1	0.3	0	0	6.2
405 nm	-343.8	0.5	2	2	6.0
420 nm	-425.0	0.5	2	2	6.2
460 nm	-305.9	0.4	1	1	5.9
480 nm	-300.5	0.4	0	0	6.2
520 nm	-297.8	0.4	0	0	6.2
540 nm	-297.5	0.3	0	0	6.2
575 nm	-297.3	0.2	0	0	6.2
600 nm	-296.9	0.3	0	0	6.2
630 nm	-296.8	0.2	0	0	5.7
660 nm	-297.3	0.2	0	0	5.7
700 nm	-297.3	0.2	0	0	5.3
880 nm	-273.1	0.1	0	0	5.1

609250

Laboratory
Analyzer User

Date : 12/17/2021
Time : 8:22

Test : TKN
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCV TKN	2.484	12/17/2021 6:12		
CCB TKN	0.113	12/17/2021 6:12		
lcs 480-609130/2	2.356	12/17/2021 6:12		
mb 480-609133/1-	0.160	12/17/2021 6:12		
lcs 480-609133/2	2.568	12/17/2021 6:12		
CCV TKN	2.507	12/17/2021 6:15		
CCB TKN	0.160	12/17/2021 6:15		
mb 480-609130/1-	0.195	12/17/2021 7:02	R	
480-193435-aa-1-	0.224	12/17/2021 7:02		
480-193435-aa-2-	0.671	12/17/2021 7:02		
480-193435-aa-3-	3.512	12/17/2021 7:02		
480-193435-aa-4-	0.793	12/17/2021 7:02		
480-193435-aa-5-	0.347	12/17/2021 7:02		
480-193435-aa-6-	1.722	12/17/2021 7:02		
193435-aa-6 ms	1.256	12/17/2021 7:02		
193435-aa-6 msd	1.309	12/17/2021 7:02		
480-193435-aa-7-	0.177	12/17/2021 7:02		
CCV TKN	2.472	12/17/2021 7:11		
CCB TKN	0.180	12/17/2021 7:11		
CCV TKN	2.496	12/17/2021 7:29		
CCB TKN	0.135	12/17/2021 7:29		
480-193481-d-1-a	0.492	12/17/2021 7:29		
480-193482-d-1-a	2.302	12/17/2021 7:29		
480-193482-d-2-a	2.202	12/17/2021 7:29		
480-193482-d-3-a	1.450	12/17/2021 7:29		
480-193482-d-3-b	2.530	12/17/2021 7:29		
480-193482-d-4-a	1.190	12/17/2021 7:29		
480-193482-d-5-a	2.334	12/17/2021 7:29		
480-193482-d-6-a	0.806	12/17/2021 7:29		
480-193482-d-7-a	2.294	12/17/2021 7:29		
CCV TKN	2.455	12/17/2021 7:31		
CCB TKN	0.139	12/17/2021 7:31		
580-108146-c-1-e	3.017	12/17/2021 7:54	R	
480-193422-d-9-b	3.884	12/17/2021 7:54	R	
480-193436-c-2-a	0.533	12/17/2021 7:54	R	
480-193436-c-2-b	1.765	12/17/2021 7:54	R	
480-193436-c-3-a	0.159	12/17/2021 7:54	R	
480-193436-c-4-a	0.229	12/17/2021 7:54	R	
480-193436-c-5-a	0.248	12/17/2021 7:54	R	
480-193436-c-6-a	2.412	12/17/2021 7:54	R	
480-193436-c-7-a	0.163	12/17/2021 7:54	R	
480-193436-c-8-a	0.487	12/17/2021 7:54	R	
CCV TKN	2.502	12/17/2021 8:03		
CCB TKN	0.159	12/17/2021 8:03		
480-193443-c-1-b	3.007	12/17/2021 8:03	R	
480-193443-c-2-b	3.365	12/17/2021 8:03	R	
480-193443-c-3-b	2.217	12/17/2021 8:03	R	
480-193449-e-1-b	2.887	12/17/2021 8:03	R	
480-193457-a-1-a	0.333	12/17/2021 8:03	R	
480-193457-a-2-a	0.454	12/17/2021 8:03	R	
480-193457-a-2-b	0.401	12/17/2021 8:03	R	
480-193457-a-3-a	-0.064	12/17/2021 8:03	R	
480-193457-a-3-b	0.209	12/17/2021 8:03	R	

Laboratory
Analyzer User

Date : 12/17/2021
Time : 8:22

Test : TKN
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
620-2270-c-1-a	70.335	12/17/2021 8:07	R	1+19.0
CCV TKN	2.523	12/17/2021 8:09		
CCB TKN	0.139	12/17/2021 8:09		

Historical Data Summary Report

For Batch 609250

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193422-D-9-B	335	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	3.9	☐	3.221 - 7.179	☐	2.96 - 7.08
480-193435-AA-1-A	DUP 1	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.22	☐	0 - 1.02	☐	0 - 0.876
480-193436-C-2-A	MW-3A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.53	☐	0 - 1.272	☐	0 - 1.08
480-193436-C-3-A	MW-3B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.482	☐	0 - 0.324
480-193436-C-4-A	MW-4A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.23	☐	0 - 0.84	☐	0 - 0.696
480-193436-C-5-A	MW-5A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.25	☐	0 - 0.984	☐	0 - 0.84
480-193436-C-6-A	MW-6A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	2.4	☐	0 - 7.839	☐	0.96 - 7.92
480-193436-C-7-A	MW-6B	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.958	☐	0 - 0.912
480-193436-C-8-A	MW-7A	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	0.49	☐	0 - 1.321	☐	0.392 - 1.44
480-193443-C-1-B	SRM01	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	1500	☐	118.943 - 2134.807	☐	300 - 1992
480-193443-C-2-B	SRM02	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	1680	☐	308.505 - 2210.495	☐	720.8 - 2244
480-193443-C-3-B	SRM03	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	1	1.0	554	☑	589 - 589	☐	471.2 - 706.8
480-193449-E-1-B	LEACHATE COMP	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	144	☑	84.476 - 124.824	☑	73.2 - 133.2
480-193457-A-1-A	L01	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	0.33	☐	0 - 1.034	☐	0 - 0.84
480-193457-A-2-A	L02	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	0.45	☐	0 - 0.969	☐	0 - 0.912
480-193457-A-3-A	L05	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193481-D-1-A	MH8L-MLD	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	0.49	☐	0 - 593.695	☐	0 - 410.4
480-193482-D-1-A	172R	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	11.5	☐	7.865 - 16.585	☐	7.92 - 17.28
480-193482-D-2-A	413R	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	11.0	☐	8.816 - 16.409	☐	8.64 - 18.6
480-193482-D-3-A	173R	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	1.5	☐	0.972 - 1.603	☐	0.96 - 1.8
480-193482-D-4-A	171R	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	1.2	☐	0.865 - 1.585	☐	0.88 - 1.68
480-193482-D-5-A	169RR	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	11.7	☐	7.563 - 12.837	☐	7.2 - 13.68
480-193482-D-6-A	170R	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	0.81	☐	0.095 - 0.942	☐	0.168 - 0.864
480-193482-D-7-A	302R	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L as N	8	1.0	11.5	☐	8.029 - 19.721	☐	8.96 - 20.16
580-108146-C-1-E	#1 Influent	351.2	Total Kjeldahl Nitrogen	Total/NA	mg/L	8	1.0	1500	☐	1434.382 - 2790.618	☐	1360 - 3000

OK leach

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12/30/2021

TestAmerica Buffalo

TOTAL KJELDAHL NITROGEN DIGESTION LOG – Method 351.2

Date Digested	Prep Analyst	Job #	Sample ID	Flask #	Dilution	Comments
12-16-21	KEB	ICAL	5.0 PPM	1	1x	+ 0.125 mL NH3 STD
		MB	BLANK	2		
		LCS	2.5 PPM	3		+ 0.0625 mL TKN STD
		193435	AA-1	4		
			AA-2	5		
			AA-3	6		
			AA-4	7		
			AA-5	8		
			AA-6	9		
			AA-6 MS	10		+0.025mL TKN STD
			AA-6 MSD	11		"
			AA-7	12	"	
		580 109146	C-1	13	500x	0.05mL ↑ 25mL
		193422	D-9	14	1x	
		193436	C-2	15		
			C-2 MS	16		+0.025mL TKN STD
			C-3	17		
			C-4	18		
			C-5	19		
			C-6	20		
			C-7	21		
			C-8	22		
		620 2270	C-1	23	"	

EPPENDORFS: Q370160, H10557K, R15154F
Acid Digestion Solution: 6805429
ICAL NH3 Standard: 6258170
LCS/MS TKN Standard: 6103068
Batch #: 609130

5pt TALS # 6819407

TestAmerica Buffalo

TOTAL KJELDAHL NITROGEN DIGESTION LOG – Method 351.2

Date Digested	Prep Analyst	Job #	Sample ID	Flask #	Dilution	Comments
12-16-21	KEB	MB	BLANK	24	1x	
↓	↓	LCS	2.5	25	↓	+ 0.0625 ml TKN STD
↓	↓	193443	C-1	26	500x	0.05mL ↑ 25mL
↓	↓	↓	C-2	27	↓	↓
↓	↓	↓	C-3	28	250x	0.10mL ↑ 25mL
↓	↓	193449	E-1	29	50x	0.50mL ↑ 25mL
↓	↓	193457	A-1	30	1x	
↓	↓	↓	A-2	31	↓	
↓	↓	↓	A-2DU	32	↓	
↓	↓	↓	A-3	33	↓	
↓	↓	↓	A-3 MS	34	↓	+0.025mL TKN STD
↓	↓	193481	D-1	35	↓	
↓	↓	193482	D-1	36	5x	5mL ↑25mL
↓	↓	↓	D-2	37	↓	↓
↓	↓	↓	D-3	38	1x	
↓	↓	↓	D-3 MS	39	↓	+0.025mL TKN STD
↓	↓	↓	D-4	40	↓	
↓	↓	↓	D-5	41	5x	5mL↑25mL
↓	↓	↓	D-6	42	1x	
↓	↓	↓	D-7	43	5x	5mL ↑25mL
↓	↓	DIL	DIL	44	DIL	DIL
↓	↓	↓	↓	45	↓	↓
↓	↓	↓	↓	46	↓	↓

EPPENDORFS:
Acid Digestion Solution: 6805429
ICAL NH3 Standard: 6258170
LCS/MS TKN Standard: 6103068
Batch #: 609133

Historical Data Summary Report

For Batch 609392

609392

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193173-B-1	SSR01E	410.4	Chemical Oxygen Demand	Total/NA	mg/L	7	1000.0	103000	☐	0 - 476262.9	☐	64.96 - 462000
480-193173-B-2	SSR08E	410.4	Chemical Oxygen Demand	Total/NA	mg/L	3	400.0	21100	☐	0 - 22585.963	☑	3561.68 - 5342.52 OK DP
480-193241-B-1	01FB	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193241-B-2	MW04	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	11.3	☑	0 - 0	☑	0 - 0
480-193241-B-3	MW05	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	13.0	☑	0 - 0	☑	0 - 0 Will confirm
480-193241-B-4	MW06D	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193241-B-5	MW06S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 27.067	☐	0 - 17.4
480-193241-B-6	MW07	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193289-F-1	S01U	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	21.0	☐	0 - 63.197	☐	4.56 - 56.04
480-193289-F-2	T04D	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	33.0	☐	0 - 54.92	☐	9.28 - 52.92
480-193290-B-2	MW-13S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 67.979	☐	0 - 55.8
480-193290-B-3	MW-19D	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193290-B-4	MW-19S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193290-B-5	MW-7S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	21.9	☐	0 - 38.556	☐	0 - 32.16
480-193290-B-6	MW-DUP	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 74.173	☐	0 - 57.48
480-193290-B-7	MW-14S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 95.309	☐	0 - 90.6
480-193290-B-8	MW-15S	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 93.799	☐	0 - 75.84
480-193290-B-9	MW-6S2	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	20.4	☐	0 - 64.367	☐	0 - 44.76
480-193369-C-1	MW-1A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 26.892	☐	0 - 26.16
480-193369-C-2	MW-2A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	11.5	☐	0 - 35.622	☐	0 - 26.4
480-193369-C-3	MW-2B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 42.044	☐	0 - 31.32
480-193369-C-4	MW-1B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 103.074	☐	0 - 109.68
480-193369-C-5	DUP MW-1B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	1	1.0	ND	☑	11.1 - 11.1	☑	8.88 - 13.32 OK DP
480-193436-C-2	MW-3A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	14.1	☐	0 - 44.785	☐	0 - 40.08
480-193436-C-3	MW-3B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	10.3	☐	0 - 14.523	☐	0 - 15.6
480-193436-C-4	MW-4A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 23.684	☐	0 - 25.44
480-193436-C-5	MW-5A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	11.2	☐	0 - 22.557	☐	0 - 18.12
480-193436-C-6	MW-6A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	26.1	☐	0 - 81.309	☐	0 - 61.56
480-193436-C-7	MW-6B	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 37.583	☐	0 - 27.36
480-193436-C-8	MW-7A	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	20.1	☐	0 - 47.605	☐	0 - 37.08
480-193444-B-3	DUP-1	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	26	☐	0 - 156.557	☐	0 - 132
480-193444-B-4	SW-2	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	91	☑	0 - 49.093	☑	0 - 39.6 OK
480-193460-L-1	MW-29CU	410.4	Chemical Oxygen Demand	Total/NA	mg/L	1	1.0	17.6	☑	0 - 0	☑	0 - 0
480-193460-L-2	MW-10CUR	410.4	Chemical Oxygen Demand	Total/NA	mg/L	1	1.0	16.5	☑	11.4 - 11.4	☑	9.12 - 13.68 OK DP
480-193467-B-1	01FB	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-B-2	YSC01	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	23.4	☐	0 - 66.662	☐	0 - 51.72
480-193467-B-3	YSC02	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	23.3	☐	0 - 36.135	☐	8.08 - 31.2
480-193467-B-4	YSP03R	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 43.959	☐	0 - 33.6
480-193467-B-5	YSP05	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	1.0	17.6	☐	0 - 44.982	☐	0 - 34.92

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12/30/2021

Historical Data Summary Report

For Batch 609392

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193520-D-1	WW-EFF	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	400.0	30900	☐	4678.679 - 49946.321	☐	16240 - 53760
480-193520-D-2	WW-RANE	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	400.0	32200	☐	0 - 59543.074	☐	9040 - 56040
480-193520-D-3	WW-EQ TANK	410.4	Chemical Oxygen Demand	Total/NA	mg/L	8	400.0	30400	☐	5783.283 - 50216.717	☐	14400 - 51960

SKALAR

609392

12/17/21 READ

CCV = 6798790
LCS = 6788792
MS = 6484237

CalcDate	Aconst	Bconst	Rcc	Count	Description	R^2	Cconst
5/27/2021 7:10 PM	-0.0029	0.8867	-0.99994	9	Calibration COD low	0.99987281715653253	
4/23/2019 12:40 PM	0.0005	0.0246	0.99859	6	Calibration COD high	0.99718694959618315	

Seq.	Identity	Start time measurement	End time heating	Start time heating	Abs. (AU)	Predilution factor	Temperature In (°C)	Temperature Out (°C)	Type	Calibrated value (mg/L)	Total dilution factor	Calibrated Result (mg/L) with blank correction and Dilution Factor
1	BLANK	12/18/2021 12:39 PM			0.8867	1			Blank	0.00	1	0.00
2	CCV	12/18/2021 12:39 PM			0.666	1			QC COD 75	76.72	1	76.72
3	CCB	12/18/2021 12:40 PM			0.8724	1			Sample	4.97	1	4.97
4	MB	12/18/2021 12:40 PM			0.8825	1			Sample	1.46	1	1.46
5	LCS	12/18/2021 12:41 PM			0.8109	1			QC COD 25	26.35	1	26.35
6	480-193241-B-6	12/18/2021 12:41 PM			0.8907	1			Sample	-1.39	1	-1.39
7	480-193241-B-6 MS	12/18/2021 12:42 PM			0.7407	1			Sample	50.75	1	50.75
8	480-193241-B-6 MSD	12/18/2021 12:42 PM			0.7485	1			Sample	48.04	1	48.04
9	480-193241-B-1	12/18/2021 12:43 PM			0.8804	1			Sample	2.19	1	2.19
10	480-193241-B-2	12/18/2021 12:43 PM			0.8543	1			Sample	11.26	1	11.26
11	480-193241-B-3	12/18/2021 12:44 PM			0.8492	1			Sample	13.04	1	13.04
12	480-193241-B-4	12/18/2021 12:44 PM			0.8927	1			Sample	-2.09	1	-2.09
13	480-193241-B-5	12/18/2021 12:45 PM			0.8791	1			Sample	2.64	1	2.64
14	CCV	12/18/2021 12:45 PM			0.6765	1			QC COD 75	73.07	1	73.07
15	CCB	12/18/2021 12:46 PM			0.875	1			Sample	4.07	1	4.07
16	480-193289-F-2	12/18/2021 12:46 PM			0.7919	1			Sample	32.95	1	32.95
17	480-193289-F-2 MS	12/18/2021 12:47 PM			0.6816	1			Sample	71.30	1	71.30
18	480-193289-F-1	12/18/2021 12:47 PM			0.8262	1			Sample	21.03	1	21.03
19	480-193369-C-1	12/18/2021 12:48 PM			0.8605	1			Sample	9.11	1	9.11
20	480-193369-C-2	12/18/2021 12:48 PM			0.8535	1			Sample	11.54	1	11.54
21	480-193369-C-3	12/18/2021 12:49 PM			0.8692	1			Sample	6.08	1	6.08
22	480-193369-C-4	12/18/2021 12:49 PM			0.8825	1			Sample	1.46	1	1.46
23	480-193369-C-5	12/18/2021 12:50 PM			0.8708	1			Sample	5.53	1	5.53
24	480-193436-C-2	12/18/2021 12:50 PM			0.8462	1			Sample	14.08	1	14.08
25	480-193436-C-3	12/18/2021 12:51 PM			0.8572	1			Sample	10.25	1	10.25
26	CCV	12/18/2021 12:51 PM			0.6646	1			QC COD 75	77.21	1	77.21
27	CCB	12/18/2021 12:52 PM			0.8825	1			Sample	1.46	1	1.46
28	MB	12/18/2021 12:52 PM			0.8844	1			Sample	0.80	1	0.80
29	LCS	12/18/2021 12:53 PM			0.8097	1			QC COD 25	26.77	1	26.77
30	480-193290-B-2	12/18/2021 12:53 PM			0.8685	1			Sample	6.33	1	6.33
31	480-193290-B-2 MS	12/18/2021 12:54 PM			0.7483	1			Sample	48.11	1	48.11
32	480-193290-B-2 MSD	12/18/2021 12:54 PM			0.7444	1			Sample	49.47	1	49.47
33	480-193290-B-3	12/18/2021 12:54 PM			0.8391	1			Sample	16.55	1	16.55
34	480-193290-B-4	12/18/2021 12:55 PM			0.8808	1			Sample	2.05	1	2.05
35	480-193290-B-5	12/18/2021 12:55 PM			0.8236	1			Sample	21.93	1	21.93

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Seq.	Identity	Start time measurement	End time heating	Start time heating	Abs. (AU)	Predilution factor	Temperature In (°C)	Temperature Out (°C)	Type	Calibrated value (mg/L)	Total dilution factor	Calibrated Result (mg/L) with blank correction and Dilution Factor
36	480-193290-B-7	12/18/2021 12:56 PM			0.8633	1			Sample	8.13	1	8.13
37	480-193290-B-8	12/18/2021 12:56 PM			0.8831	1			Sample	1.25	1	1.25
38	CCV	12/18/2021 12:57 PM			0.6682	1			QC COD 75	75.95	1	75.95
39	CCB	12/18/2021 12:57 PM			0.8821	1			Sample	1.60	1	1.60
40	480-193290-B-6	12/18/2021 12:58 PM			0.8419	1			Sample	15.57	1	15.57
41	480-193290-B-6 MS	12/18/2021 12:58 PM			0.7411	1			Sample	50.61	1	50.61
42	480-193290-B-9	12/18/2021 12:59 PM			0.828	1			Sample	20.40	1	20.40
43	480-193436-C-4	12/18/2021 12:59 PM			0.8602	1			Sample	9.21	1	9.21
44	480-193436-C-5	12/18/2021 1:00 PM			0.8545	1			Sample	11.19	1	11.19
45	480-193436-C-6	12/18/2021 1:00 PM			0.8116	1			Sample	26.11	1	26.11
46	480-193436-C-7	12/18/2021 1:01 PM			0.8584	1			Sample	9.84	1	9.84
47	480-193436-C-8	12/18/2021 1:01 PM			0.829	1			Sample	20.06	1	20.06
48	480-193439-C-1	12/18/2021 1:02 PM			0.8253	1			Sample	21.34	1	21.34
49	480-193439-C-2	12/18/2021 1:02 PM			0.8278	1			Sample	20.47	1	20.47
50	CCV	12/18/2021 1:04 PM			0.6654	1			QC COD 75	76.93	1	76.93
51	CCB	12/18/2021 1:04 PM			0.878	1			Sample	3.02	1	3.02
52	MB	12/18/2021 1:05 PM			0.8772	1			Sample	3.30	1	3.30
53	LCS	12/18/2021 1:05 PM			0.8092	1			QC COD 25	26.94	1	26.94
54	480-193439-C-6	12/18/2021 1:06 PM			0.56	1			Sample	113.57	1	113.57
55	480-193439-C-6 MS				0.4515	1			Sample	154.15	1	154.15
56	480-193439-C-6 MSD	12/18/2021 1:07 PM			0.4469	1			Sample	152.88	1	152.88
57	480-193439-C-3	12/18/2021 1:07 PM			0.8375	1			Sample	17.10	1	17.10
58	480-193439-C-4	12/18/2021 1:08 PM			0.8309	1			Sample	19.40	1	19.40
59	480-193439-C-5	12/18/2021 1:09 PM			0.8029	1			Sample	29.13	1	29.13
60	480-193439-C-7	12/18/2021 1:09 PM			0.6904	1			Sample	68.24	1	68.24
61	480-193439-C-8	12/18/2021 1:10 PM			0.5377	1			Sample	121.32	1	121.32
62	CCV	12/18/2021 1:10 PM			0.6674	1			QC COD 75	76.23	1	76.23
63	CCB	12/18/2021 1:11 PM			0.8874	1			Sample	-0.24	1	-0.24
64	480-193439-C-9	12/18/2021 1:11 PM			0.6894	1			Sample	68.58	1	68.58
65	480-193439-C-9 MS	12/18/2021 1:12 PM			0.5738	1			Sample	108.77	1	108.77
66	480-193439-C-10	12/18/2021 1:12 PM			0.604	1			Sample	98.27	1	98.27
67	480-193439-C-11	12/18/2021 1:13 PM			0.8654	1			Sample	7.40	1	7.40
68	480-193444-B-1	12/18/2021 1:13 PM			0.7918	1			Sample	32.99	1	32.99
69	480-193444-B-2	12/18/2021 1:14 PM			0.6592	1			Sample	79.08	1	79.08
70	480-193444-B-3	12/18/2021 1:14 PM			0.8119	1			Sample	26.00	1	26.00
71	480-193444-B-4	12/18/2021 1:15 PM			0.6247	1			Sample	91.08	1	91.08
72	480-193444-B-5	12/18/2021 1:16 PM			0.5149	1			Sample	129.24	1	129.24
73	480-193444-B-6	12/18/2021 1:16 PM			0.6397	1			Sample	85.86	1	85.86
74	CCV	12/18/2021 1:17 PM			0.663	1			QC COD 75	77.76	1	77.76
75	CCB	12/18/2021 1:17 PM			0.8882	1			Sample	-0.52	1	-0.52
76	MB	12/18/2021 1:18 PM			0.8982	1			Sample	-4.00	1	-4.00
77	LCS	12/18/2021 1:18 PM			0.8096	1			QC COD 25	26.80	1	26.80
78	480-193460-L-2	12/18/2021 1:19 PM			0.8393	1			Sample	16.48	1	16.48
79	480-193460-L-2 MS	12/18/2021 1:19 PM			0.7168	1			Sample	59.06	1	59.06
80	480-193460-L-2 MSD	12/18/2021 1:20 PM			0.7149	1			Sample	59.72	1	59.72
81	480-193460-L-1				0.8361	1			Sample	17.59	1	17.59

SKALAR

Seq.	Identity	Start time measurement	End time heating	Start time heating	Abs. (AU)	Predilution factor	Temperature In (°C)	Temperature Out (°C)	Type	Calibrated value (mg/L)	Total dilution factor	Calibrated Result (mg/L) with blank correction and Dilution Factor
82	480-193467-B-1	12/18/2021 1:21 PM			0.8933	1			Sample	-2.29	1	-2.29
83	480-193467-B-2	12/18/2021 1:22 PM			0.8194	1			Sample	23.39	1	23.39
84	480-193467-B-3	12/18/2021 1:22 PM			0.8198	1			Sample	23.26	1	23.26
85	480-193467-B-4	12/18/2021 1:23 PM			0.8662	1			Sample	7.13	1	7.13
86	CCV	12/18/2021 1:23 PM			0.6717	1			QC COD 75	74.74	1	74.74
87	CCB	12/18/2021 1:24 PM			0.8745	1			Sample	4.24	1	4.24
88	480-193467-B-5	12/18/2021 1:24 PM			0.8361	1			Sample	17.59	1	17.59
89	480-193467-B-5 MS	12/18/2021 1:25 PM			0.76	1			Sample	44.04	1	44.04
90	480-193173-B-1	12/18/2021 1:25 PM			0.5895	1			Sample	103.31	1000	103,311.10
91	480-193173-B-2	12/18/2021 1:26 PM			0.7353	1			Sample	52.63	400	21,051.55
92	480-193520-D-1	12/18/2021 1:26 PM			0.6644	1			Sample	77.27	400	30,909.90
93	480-193520-D-2	12/18/2021 1:27 PM			0.655	1			Sample	80.54	400	32,216.93
94	480-193520-D-3	12/18/2021 1:27 PM			0.6678	1			Sample	76.09	400	30,437.15
95	CCV	12/18/2021 1:28 PM			0.6725	1			QC COD 75	74.46	1	74.46
96	CCB	12/18/2021 1:29 PM			0.8845	1			Sample	0.76	1	0.76

SKALAR

596963

Curve Std = 6484238

9/17/21

CalcDate	Aconst	Bconst	Rcc	Count	Description	R^2	Cconst
5/27/2021 7:10 PM	-0.0029	0.8744	-0.99994	9	Calibration COD low	0.99987281715653253	
4/23/2019 12:40 PM	0.0005	0.0246	0.99859	6	Calibration COD high	0.99718694959618315	

Seq.	Identity	Start time measurement	End time heating	Start time heating	Abs. (AU)	Predilution factor	Temperature In (°C)	Temperature Out (°C)	Type	Calibrated value (mg/L)	Total dilution factor	Calibrated Result (mg/L) with blank correction and Dilution Factor
1	BLANK	9/17/2021 9:37 PM	9/17/2021 8:25 PM	9/17/2021 6:26 PM	0.8744	1	149.9	151.0	Blank	0.00	1	0.00
2	IC 0	9/17/2021 9:40 PM	9/17/2021 8:28 PM	9/17/2021 6:28 PM	0.8738	1	150.8	150.2	Sample	0.21	1	0.21
3	IC 5	9/17/2021 9:42 PM	9/17/2021 8:31 PM	9/17/2021 6:31 PM	0.8605	1	151.1	149.4	Sample	4.83	1	4.83
4	IC 10	9/17/2021 9:45 PM	9/17/2021 8:33 PM	9/17/2021 6:34 PM	0.8454	1	150.5	149.1	Sample	10.08	1	10.08
5	IC 25	9/17/2021 9:48 PM	9/17/2021 8:36 PM	9/17/2021 6:37 PM	0.8004	1	149.6	149.4	Sample	25.72	1	25.72
6	IC 50	9/17/2021 9:50 PM	9/17/2021 8:39 PM	9/17/2021 6:39 PM	0.7237	1	149.0	150.2	Sample	52.39	1	52.39
7	IC 75	9/17/2021 9:53 PM	9/17/2021 8:42 PM	9/17/2021 6:42 PM	0.6587	1	149.0	150.9	Sample	74.98	1	74.98
8	IC 100	9/17/2021 9:56 PM	9/17/2021 8:44 PM	9/17/2021 6:45 PM	0.5949	1	149.8	151.1	Sample	97.16	1	97.16
9	IC 125	9/17/2021 9:59 PM	9/17/2021 8:47 PM	9/17/2021 6:47 PM	0.5186	1	150.7	150.2	Sample	123.68	1	123.68
10	IC 150	9/17/2021 10:01 PM	9/17/2021 8:50 PM	9/17/2021 6:50 PM	0.4426	1	151.1	149.3	Sample	150.10	1	150.10
11	ICV	9/17/2021 10:04 PM	9/17/2021 8:53 PM	9/17/2021 6:53 PM	0.4714	1	150.9	149.0	Sample	140.09	1	140.09
12	ICV	9/17/2021 10:07 PM	9/17/2021 8:55 PM	9/17/2021 6:55 PM	0.6675	1	150.1	149.6	Sample	71.92	2	143.84
13	ICB	9/17/2021 10:10 PM	9/17/2021 8:58 PM	9/17/2021 6:58 PM	0.8755	1	149.5	150.5	Sample	-0.38	1	-0.38

ICV = 6558984

$$ICV = \frac{140.09}{147} \cdot 100$$

ICV = 95.3%

12/30/2021 9/18/2021 12:49 PM

609155

Solutions Used: Skalar Scan+

TOTAL RECOVERABLE PHENOLICS

Intermediate@10ppm ricca	6816955	EXP: 12/22/2021
Intermediate@10ppm Ricca 2nd lot	6816956	EXP: 12/22/2021
CCV@0.1ppm	6819212	EXP: 12/17/2021
Potassium Ferricyanide	6819151	EXP: 12/17/2021
4-Aminoantipyrene	6819150	EXP: 12/17/2021
Distillation Reagent	6813910	EXP: 12/20/2021

LCS/CCV/MS/MSD = 0.1 ppm

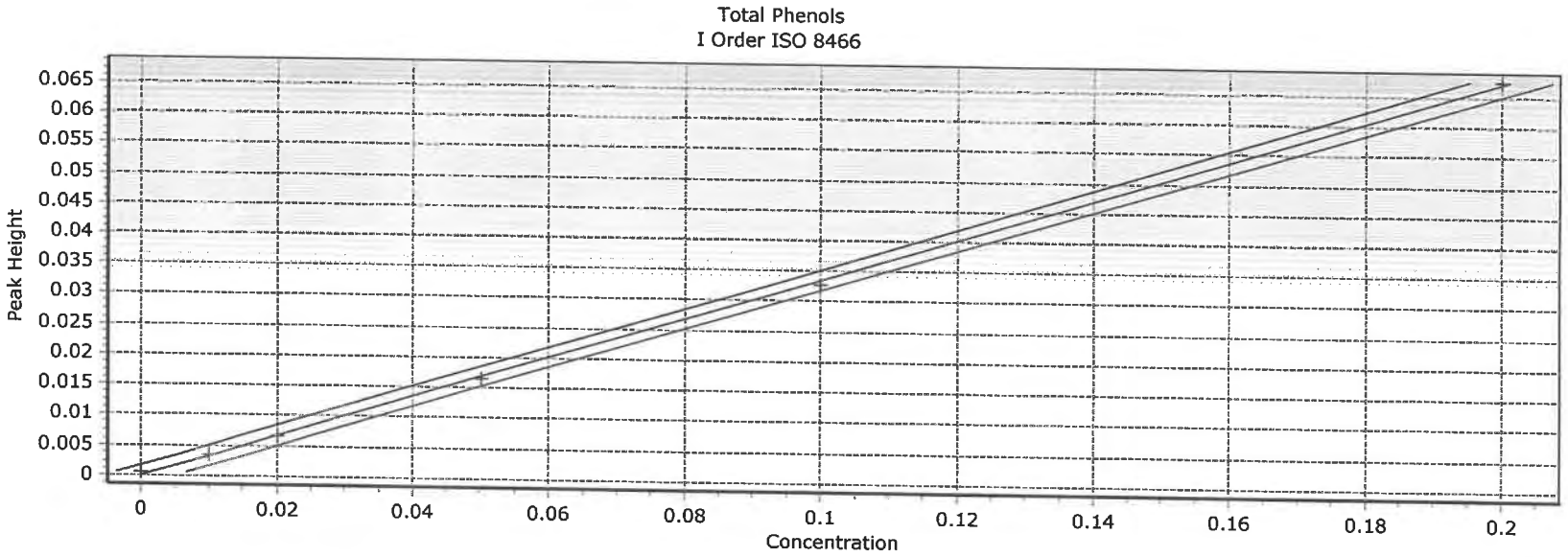
Skalar: Curve - 6816955

ICV @ 0.1 ppm – 6819213 **EXP:** 12/17/2021

609155

FlowAccessV3

Date:12/16/2021 1:02 PM



a = -0.00001637315668 b = 0.33556826036866 RSD = 0.00054664763806

r = 0.99981661439332 R2 = 0.99963326241693 Detection Limit = 0.00396768951754924 Determination L

Run Name : TABUF20211216A0PHE1216202, Run Db Ref : TABUF20211216A0

User Name : Administrator Operator Name : Administrator

6.09155

Run Name : TABUF20211216A0PHE12162021A, Run Database Ref : TABUF20211216A0
DateTime :12/16/2021 7:04:28 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
1	IW	IW	InitialWash		1.0000	0.0000	0.0000	Dec 16 2021 7:17AM	4.9E-05
2	A1	T	Tracer		1.0000	0.1962	0.0658	Dec 16 2021 7:19AM	0.196165
3	WT	W	Wash		1.0000	0.0000	0.0000	Dec 16 2021 7:25AM	4.9E-05
4	A2	S1	Standard1		1.0000	0.0015	0.0005	Dec 16 2021 7:29AM	0.001472
5	A3	S2	Standard2		1.0000	0.0107	0.0036	Dec 16 2021 7:33AM	0.010733
6	A4	S3	Standard3		1.0000	0.0197	0.0066	Dec 16 2021 7:36AM	0.019726
7	A5	S4	Standard4		1.0000	0.0489	0.0164	Dec 16 2021 7:39AM	0.048891
8	A6	S5	Standard5		1.0000	0.0978	0.0328	Dec 16 2021 7:43AM	0.097819
9	A7	S6	Standard6		1.0000	0.2014	0.0676	Dec 16 2021 7:47AM	0.201359
10	A8	ICV	ICV		1.0000	0.0928	0.0311	Dec 16 2021 7:50AM	0.092757
11	A9	ICB	ICB		1.0000	0.0037	0.0012	Dec 16 2021 7:54AM	0.003728
12	A10	D	Drift		1.0000	0.1934	0.0649	Dec 16 2021 7:57AM	0.193432
13	WT	W	Wash		1.0000	0.0000	0.0000	Dec 16 2021 8:01AM	4.9E-05
14	A11	CCV	CCV		1.0000	0.0954	0.0320	Dec 16 2021 8:06AM	0.095382
15	A12	CCB	CCB		1.0000	-0.0001	0.0000	Dec 16 2021 8:09AM	-6.7E-05
16	A13	B	MB		1.0000	-0.0011	-0.0004	Dec 16 2021 8:12AM	-0.001067
17	A14	LCS	LCS		1.0000	0.0947	0.0318	Dec 16 2021 8:16AM	0.094684
18	A15	U	480-193431-C-3		1.0000	0.0022	0.0003	Dec 16 2021 8:20AM	0.002156
19	A16	U	DU 480-193431-C-3		1.0000	0.0002	-0.0003	Dec 16 2021 8:23AM	0.000201
20	A17	U	MS 480-193431-C-3		1.0000	0.0962	0.0319	Dec 16 2021 8:27AM	0.09623
21	A18	U	480-193435-K-1		1.0000	0.0005	-0.0002	Dec 16 2021 8:31AM	0.000525
22	A19	U	480-193435-K-2		1.0000	-0.0004	-0.0005	Dec 16 2021 8:34AM	-0.000379
23	A20	U	480-193435-K-3		1.0000	0.0011	0.0000	Dec 16 2021 8:38AM	0.001064
24	A21	U	480-193435-K-4		1.0000	0.0024	0.0004	Dec 16 2021 8:41AM	0.002418
25	A22	U	480-193435-K-5		1.0000	0.0052	0.0014	Dec 16 2021 8:44AM	0.005207
26	A23	CCV	CCV		1.0000	0.0942	0.0316	Dec 16 2021 8:49AM	0.094158
27	A24	CCB	CCB		1.0000	0.0014	0.0005	Dec 16 2021 8:53AM	0.001419

Run Name : TABUF20211216A0PHE12162021A, Run Database Ref : TABUF20211216A0
DateTime :12/16/2021 7:04:28 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
28	A25	D	Drift		1.0000	0.1972	0.0661	Dec 16 2021 8:56AM	0.197156
29	WT	W	Wash		1.0000	0.0000	0.0000	Dec 16 2021 9:00AM	4.9E-05
30	A26	U	480-193435-K-6		1.0000	0.0013	0.0001	Dec 16 2021 9:05AM	0.001264
31	A27	U	480-193435-K-6 MS		1.0000	0.0950	0.0315	Dec 16 2021 9:07AM	0.09504
32	A28	U	480-193435-K-6 MS		1.0000	0.0970	0.0322	Dec 16 2021 9:11AM	0.096994
33	A29	U	480-193435-K-7		1.0000	0.0011	0.0000	Dec 16 2021 9:15AM	0.001146
34	A30	U	480-193436-F-2		1.0000	0.0012	0.0000	Dec 16 2021 9:18AM	0.001209
35	A31	U	480-193436-F-3		1.0000	0.0011	0.0000	Dec 16 2021 9:22AM	0.001052
36	A32	U	480-193436-F-4		1.0000	0.0002	-0.0003	Dec 16 2021 9:26AM	0.0002
37	A33	U	480-193436-F-5		1.0000	0.0000	-0.0004	Dec 16 2021 9:29AM	4.1E-05
38	A34	U	480-193436-F-6		1.0000	0.0038	0.0009	Dec 16 2021 9:33AM	0.003825
39	A35	U	480-193436-F-7		1.0000	-0.0002	-0.0004	Dec 16 2021 9:36AM	-0.000188
40	A36	CCV	CCV		1.0000	0.0940	0.0315	Dec 16 2021 9:40AM	0.093952
41	A37	CCB	CCB		1.0000	0.0005	0.0001	Dec 16 2021 9:44AM	0.000495
42	A38	D	Drift		1.0000	0.1946	0.0653	Dec 16 2021 9:48AM	0.194639
43	WT	W	Wash		1.0000	0.0000	0.0000	Dec 16 2021 9:51AM	4.9E-05
44	A39	B	MB		1.0000	0.0037	0.0012	Dec 16 2021 9:56AM	0.003739
45	A40	LCS	LCS		1.0000	0.0930	0.0312	Dec 16 2021 9:58AM	0.093043
46	A41	U	480-193436-F-8		1.0000	-0.0028	0.0003	Dec 16 2021 10:02AM	-0.002838
47	A42	U	MS 480-193436-F-8		1.0000	0.0897	0.0313	Dec 16 2021 10:06AM	0.08971
48	A43	U	480-193465-D-2		1.0000	-0.0018	0.0006	Dec 16 2021 10:10AM	-0.001757
49	A44	U	480-193465-D-3		1.0000	-0.0038	0.0000	Dec 16 2021 10:13AM	-0.003834
50	A45	U	480-193467-D-1		1.0000	-0.0034	0.0001	Dec 16 2021 10:17AM	-0.003449
51	A46	U	480-193467-D-2		1.0000	-0.0040	-0.0001	Dec 16 2021 10:21AM	-0.004031
52	A47	U	480-193467-D-3		1.0000	-0.0051	-0.0005	Dec 16 2021 10:24AM	-0.005092
53	A48	U	480-193467-D-4		1.0000	-0.0045	-0.0003	Dec 16 2021 10:28AM	-0.004533
54	A49	CCV	CCV		1.0000	0.0931	0.0312	Dec 16 2021 10:32AM	0.093103

Run Name : TABUF20211216A0PHE12162021A, Run Database Ref : TABUF20211216A0
DateTime :12/16/2021 7:04:28 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
55	A50	CCB	CCB		1.0000	0.0044	0.0015	Dec 16 2021 10:35AM	0.004428
56	A51	D	Drift		1.0000	0.1949	0.0654	Dec 16 2021 10:38AM	0.194918
57	WT	W	Wash		1.0000	0.0000	0.0000	Dec 16 2021 10:43AM	4.9E-05
58	A52	U	480-193467-D-5		1.0000	-0.0046	-0.0003	Dec 16 2021 10:48AM	-0.004565
59	A53	U	DU 480-193467-D-5		1.0000	-0.0051	-0.0005	Dec 16 2021 10:50AM	-0.005086
60	A54	U	MS 480-193467-D-5		1.0000	0.0907	0.0317	Dec 16 2021 10:54AM	0.090662
61	A55	U	480-193467-D-6		1.0000	-0.0036	0.0000	Dec 16 2021 10:57AM	-0.00362
62	A56	U	480-193467-D-7		1.0000	-0.0043	-0.0002	Dec 16 2021 11:01AM	-0.004274
63	A57	U	480-193471-D-2		1.0000	-0.0036	0.0000	Dec 16 2021 11:05AM	-0.003566
64	A58	U	480-193481-F-1		1.0000	-0.0047	-0.0003	Dec 16 2021 11:08AM	-0.004703
65	A59	U	480-193482-F-1		1.0000	0.0938	0.0327	Dec 16 2021 11:12AM	0.093811
66	A60	U	480-193482-F-2		1.0000	0.0600	0.0214	Dec 16 2021 11:16AM	0.059977
67	B1	U	480-193482-F-3		1.0000	-0.0024	0.0004	Dec 16 2021 11:19AM	-0.002394
68	B2	CCV	CCV		1.0000	0.0960	0.0322	Dec 16 2021 11:23AM	0.096005
69	B3	CCB	CCB		1.0000	0.0004	0.0001	Dec 16 2021 11:27AM	0.000389
70	B4	D	Drift		1.0000	0.1944	0.0652	Dec 16 2021 11:30AM	0.194444
71	WT	W	Wash		1.0000	0.0000	0.0000	Dec 16 2021 11:34AM	4.9E-05
72	B5	B	MB		1.0000	-0.0004	-0.0002	Dec 16 2021 11:38AM	-0.000424
73	B6	LCS	LCS		1.0000	0.0924	0.0310	Dec 16 2021 11:41AM	0.092401
74	B7	U	480-193482-F-4		1.0000	0.0027	0.0008	Dec 16 2021 11:45AM	0.002717
75	B8	U	du 480-193482-F-4		1.0000	0.0022	0.0006	Dec 16 2021 11:49AM	0.0022
76	B9	U	ms 480-193482-F-4		1.0000	0.0958	0.0320	Dec 16 2021 11:53AM	0.095785
77	B10	U	480-193482-F-5		1.0000	0.0394	0.0131	Dec 16 2021 11:56AM	0.03941
78	B11	U	480-193482-F-6		1.0000	0.0011	0.0002	Dec 16 2021 12:00PM	0.001092
79	B12	U	480-193482-F-7		1.0000	0.0453	0.0150	Dec 16 2021 12:03PM	0.045296
80	B13	U	480-193482-F-8		1.0000	0.0198	0.0065	Dec 16 2021 12:07PM	0.019775
81	B14	U	480-193482-F-9		1.0000	0.0910	0.0304	Dec 16 2021 12:11PM	0.091032

Run Name : TABUF20211216A0PHE12162021A, Run Database Ref : TABUF20211216A0
DateTime :12/16/2021 7:04:28 AM
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	External Dilution	Total Phenols-Results [ppm]	Total Phenols-CorrectedHeight	Total Phenols-PeakPickingTime	Total Phenols-
82	B15	CCV	CCV		1.0000	0.0967	0.0324	Dec 16 2021 12:14PM	0.09673
83	B16	CCB	CCB		1.0000	0.0015	0.0005	Dec 16 2021 12:18PM	0.001484
84	B17	D	Drift		1.0000	0.1939	0.0651	Dec 16 2021 12:22PM	0.193927
85	WT	W	Wash		1.0000	0.0000	0.0000	Dec 16 2021 12:25PM	4.9E-05
86	B18	U	480-193484-A-1		1.0000	0.0000	-0.0001	Dec 16 2021 12:30PM	4.9E-05
87	B19	U	ms 480-193484-A-1		1.0000	0.0948	0.0316	Dec 16 2021 12:33PM	0.094769
88	B20	U	480-193488-C-1		1.0000	0.0008	0.0001	Dec 16 2021 12:36PM	0.000796
89	B28	CCV	CCV		1.0000	0.0932	0.0313	Dec 16 2021 12:40PM	0.093225
90	B29	CCB	CCB		1.0000	0.0006	0.0002	Dec 16 2021 12:44PM	0.000589
91	B30	D	Drift		1.0000	0.1930	0.0647	Dec 16 2021 12:47PM	0.192989
92	WT	W	Wash		1.0000	0.0000	0.0000	Dec 16 2021 12:51PM	4.9E-05
93	E	E	EndRun		1.0000	0.0000	0.0000	Dec 16 2021 12:56PM	4.9E-05

Historical Data Summary Report

For Batch 609155

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193435-K-1	DUP 1	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.01	☐	0 - 0.01
480-193436-F-2	MW-3A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.011	☐	0 - 0.012
480-193436-F-3	MW-3B	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193436-F-4	MW-4A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193436-F-5	MW-5A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193436-F-6	MW-6A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.012	☐	0 - 0.013
480-193436-F-7	MW-6B	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193436-F-8	MW-7A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.017	☐	0 - 0.014
480-193467-D-1	01FB	420.4_NP	Phenolics, Total Recoverable	Total/NA	ug/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193467-D-2	YSC01	420.4_NP	Phenolics, Total Recoverable	Total/NA	ug/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193467-D-3	YSC02	420.4_NP	Phenolics, Total Recoverable	Total/NA	ug/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193467-D-4	YSP03R	420.4_NP	Phenolics, Total Recoverable	Total/NA	ug/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193467-D-5	YSP05	420.4_NP	Phenolics, Total Recoverable	Total/NA	ug/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193467-D-6	YSP08	420.4_NP	Phenolics, Total Recoverable	Total/NA	ug/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193467-D-7	YSP09	420.4_NP	Phenolics, Total Recoverable	Total/NA	ug/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193471-D-2	Effluent	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.031	☐	0 - 0.034
480-193481-F-1	MH8L-MLD	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0.066	☐	0 - 0.061
480-193482-F-1	172R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	0.094	☐	0.019 - 0.233	☐	0.074 - 0.228
480-193482-F-2	413R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	0.060	☐	0 - 0.198	☐	0.043 - 0.204
480-193482-F-3	173R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193482-F-4	171R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193482-F-5	169RR	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	0.039	☐	0 - 0.097	☐	0 - 0.08
480-193482-F-6	170R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐	0 - 0	☐	0 - 0
480-193482-F-7	302R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	0.045	☐	0 - 0.171	☐	0.041 - 0.156
480-193482-F-8	301RR	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	0.020	☐	0 - 0.148	☐	0 - 0.112

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12/30/2021

Historical Data Summary Report

For Batch 609155

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193482-F-9	300R	9066_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	0.091	☐	0.043 - 0.167	☐	0.058 - 0.156

Laboratory Bench Sheet
Hexavalent Chromium

Analyst:	KEB
Start Date:	9/28/2021
Start Time:	8:55
End Date:	9/28/2021
End Time	9:20
DATE OF CURVE=	9/17/2021
	.
LOQ/RL: 0.010	mg/L

Calibration Curve Information		
	Conc.(mg/L)	ABS.
STD1	0.000	0.000
Std. 2	0.010	0.009
Std. 3	0.020	0.015
Std. 4	0.050	0.040
Std. 5	0.100	0.081
Std. 6	0.200	0.159
Std. 7	0.300	0.238
Std. 8	0.400	0.312

LCS Information:		
Lot#:	6642464	
Concentration (mg/L):		10
Expiration Date:		10/02/21
LCS	True value:	0.05
Matrix Spike Information:		
Lot#:	6642464	
Concentration (mg/L):		10
Expiration Date:		10/02/21
MS	True Value	0.05

BATCH # 599173

Instrument Information	
Instrument:	Genesys 30
Wavelength:	540
Parameter:	Hexavalent Chromium
Corr. Coef:	0.99991
Slope:	0.78372
Intercept:	0.00095

Filter Lot # A29544861
Hex Std used for curve: 6314907
EPP # Chroma Ver3 Pillow Packets: A1176

Time	Job #	Sample ID	Final Vol.	Sample	Color Blk.Corr.	Corrected	D.F.		Final Conc.	% Rec.	pH 1.5 - 2.5
			(mL)	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		Yes or No
8:58	MB IC	0	25	0.000	0.000	0.000	1	0	0.0000		YES
	6665218	0.01	25	0.008	0.000	0.008	1	0.0090	0.0090		YES
	6665219	0.02	25	0.018	0.000	0.018	1	0.0218	0.0218		YES
	6665226	0.05	25	0.037	0.000	0.037	1	0.0460	0.0460		YES
	6665227	0.10	25	0.079	0.000	0.079	1	0.0996	0.0996		YES
9:10	6665229	0.20	25	0.153	0.000	0.153	1	0.1940	0.1940		YES
	6665231	0.30	25	0.232	0.000	0.232	1	0.2948	0.2948		YES
	6665232	0.40	25	0.306	0.000	0.306	1	0.3892	0.3892		YES
	ICV	ICV	25	0.155	0.000	0.155	1	0.1966	0.1966	98.3%	YES
	ICB	0	25	0.000	0.000	0.000	1	0	0.0000		YES
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
			25			0.000	1	0	0.0000		
	CCV	CCV	25			0.000	1	0	0.0000	0%	
	CCB	CCB	25			0.000	1	0	0.0000		

$$ICV = \frac{0.1966}{0.2000} \times 100 = 98.3\%$$

Laboratory Bench Sheet
Hexavalent Chromium

Eurofins TestAmerica - Buffalo

Analyst:	RM
Start Date:	12/15/21
Start Time:	13:28
End Date:	12/15/21
End Time	13:50
DATE OF CURVE=	9/28/2021
	.
LOQ/RL: 0.010	mg/L

Calibration Curve Information		
	Conc.(mg/L)	ABS.
STD1	0.000	0.000
Std. 2	0.010	0.008
Std. 3	0.020	0.018
Std. 4	0.050	0.037
Std. 5	0.100	0.079
Std. 6	0.200	0.153
Std. 7	0.300	0.232
Std. 8	0.400	0.306

LCS Information:	A1176
Lot#:	6805695
Concentration (mg/L):	10
Expiration Date:	10/02/21
LCS True value:	0.05
Matrix Spike Information:	
Lot#:	6642464
Concentration (mg/L):	10
Expiration Date:	10/02/21
MS True Value	0.05

BATCH # 609017	
Instrument Information	
Instrument:	Genesys 30
Wavelength:	540
Parameter:	Hexavalent Chromium
Corr. Coef:	**0.99992**
Slope:	**0.76549**
Intercept:	**0.00078**

Filter Lot # A29544861
EPP #
Hex Std used for curve: 6314907
Chroma Ver3 Pillow Packets: A1176

Time	Job #	Sample ID	Final Vol.	Sample	Color Blk.Corr.	Corrected	D.F.		Final Conc.	% Rec.	pH 1.5 - 2.5
			(mL)	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		Yes or No
13:26	CCV	CCV	25	0.041	0.000	0.041	1	0.0525	0.0525	105%	Yes
13:26	CCB	CCB	25	0.000	0.000	0.000	1	0	0.0000		Yes
13:28	MB	MB	25	0.000	0.000	0.000	1	0	0.0000		Yes
13:28	LCS	LCS	25	0.042	0.000	0.042	1	0.0538	0.0538	108%	Yes
13:31	193435	P1	25	0.001	0.000	0.001	1	0.0003	0.0003		Yes
13:31		P1 DU	25	0.001	0.000	0.001	1	0.0003	0.0003		Yes
13:32		P2	25	0.001	0.000	0.001	1	0.0003	0.0003		Yes
13:32		P2 MS	25	0.038	0.000	0.038	1	0.0486	0.0486		Yes
13:33		P3	25	0.000	0.000	0.000	1	0	0.0000		Yes
13:33		N4	25	0.000	0.000	0.000	1	0	0.0000		Yes
13:34	193436	J2	25	0.001	0.000	0.001	1	0.0003	0.0003		Yes
13:34		J3	25	0.000	0.000	0.000	1	0	0.0000		Yes
13:34		CCV	25	0.041	0.000	0.041	1	0.0525	0.0525		Yes
13:34		CCB	25	0.000	0.000	0.000	1	0	0.0000		Yes
13:41	193435	P6	25	0.006	0.000	0.006	1	0.0068	0.0068		Yes
13:41		P6 MS	25	0.044	0.000	0.044	1	0.0565	0.0565		Yes
13:41		P6 MSD	25	0.045	0.000	0.045	1	0.0578	0.0578		Yes
13:42		P7	25	0.003	0.000	0.003	1	0.0029	0.0029		Yes
13:42	193436	G4	25	0.004	0.000	0.004	1	0.0042	0.0042		Yes
13:44		J5	25	0.002	0.000	0.002	1	0.0016	0.0016		Yes
13:45		H6	25	0.000	0.000	0.000	1	0	0.0000		Yes
13:45		H7	25	0.000	0.000	0.000	1	0	0.0000		Yes
13:48		J8	25	0.000	0.000	0.000	1	0	0.0000	#REF!	Yes
13:49	CCV	CCV	25	0.042	0.000	0.042	1	0.0538	0.0538	108%	Yes
13:49	CCB	CCB	25	0.000	0.000	0.000	1	0	0.0000		Yes
			25			0.000	1	0	0.0000		Yes

12/15/21

Historical Data Summary Report

For Batch 609017

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193435-P-1	DUP 1	7196A	Cr (VI)	Total/NA	mg/L	6	1.0	ND	☐	0 - 0.011	☐	0 - 0.008
480-193436-G-4	MW-4A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-H-6	MW-6A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-H-7	MW-6B	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-J-2	MW-3A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-J-3	MW-3B	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0.015	☐	0 - 0.013
480-193436-J-5	MW-5A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-J-8	MW-7A	7196A	Chromium, hexavalent	Total/NA	mg/L	5	1.0	ND	☐	0 - 0	☐	0 - 0

TestAmerica Buffalo
COLOR LOGBOOK
SM2120B
Logbook # A21-25

DATE: 12/15/21 ANALYST: MJB BATCH ID #: 609043

Start Time: 16:48 End Time: 17:45

Date of Calibration Curve: 11/23/21 Calibration Expires: 12/23/21
Curve ID: 606385

LCS TALS ID#: 6292177 LCS True Value 30 CU LCS/CCV Limits: 90 – 110 %
CCV TALS ID#: 〃 CCV True Value 30 CU Precision Limits: 80 – 120 %

	Job# / QC	Sample ID#	Filtered Y/N	Sample pH	Color Units Observed	Dilution	Final Conc. (CU)	Time	Comments
1	CCV	@30	N	1	30	1	30	16:48	
2	CCB	Blank	N	5	<5	1	<5	16:49	
3	MB	Blank	N	5	<5	1	<5	16:50	
4	LCS	@30	N	1	30	1	30	16:51	
5	193042	K7	N	6	10	1	10	16:53	
6	〃	K7-MS	N	6	30	1	30	16:57	
7	〃	K7-MSD	N	6	30	1	30	16:58	
8	193378	D1	N	5	5	1	5	17:00	
9	193435	P1	N	6	20	1	20	17:01	
10	〃	P2	Y	6	5	1	5	17:04	True Color
11	〃	P3	N	6	5	1	5	17:06	pH adjusted from 11
12	〃	N4	N	6	10	1	10	17:09	
13	CCV	@30	N	1	30	1	30	17:10	
14	CCB	Blank	N	5	<5	1	<5	17:11	
15	193435	P6	N	6	10	1	10	17:13	
16	〃	P6-MS	N	6	30	1	30	17:18	
17	〃	P6-MSD	N	6	30	1	30	17:19	
18	〃	P7	N	6	15	1	15	17:20	
19	193436	J2	N	5	40	1	40	17:22	
20	〃	J3	N	6	10	1	10	17:24	
21	〃	J4	N	6	15	1	15	17:26	
22	〃	J4-DU	N	6	15	1	15	17:27	
23	〃	J5	N	6	15	1	15	17:29	
24	〃	J5-DU	N	6	15	1	15	17:30	
25	CCV	@30	N	1	30	1	30	17:31	
26	CCB	Blank	N	5	<5	1	<5	17:32	

Reviewer MJB Date: 12/15/21

See pg 74

TestAmerica Buffalo
COLOR LOGBOOK
SM2120B
Logbook # A21-25

DATE: _____ ANALYST: _____ BATCH ID #: _____

Start Time: _____ End Time: _____

Date of Calibration Curve: _____ Calibration Expires: _____
Curve ID: _____

LCS TALS ID#: _____ LCS True Value 30 CU LCS/CCV Limits: 90 – 110 %
CCV TALS ID#: _____ CCV True Value 30 CU Precision Limits: 80 – 120 %

	Job# / QC	Sample ID#	Filtered Y/N	Sample pH	Color Units Observed	Dilution	Final Conc. (CU)	Time	Comments
1	MB	Blank	N	5	<5	1	<5	17:33	
2	LCS	@30	N	7	30	1	30	17:34	
3	193436	H6	Y	6	20	1	20	17:37	True Color
4		H7	Y	6	5	1	5	17:40	True Color
5		J8	Y	6	15	1	15	17:42	True Color
6		J8-DU	Y	6	15	1	15	17:43	True Color
7	CCV	@30	N	7	30	1	30	17:44	
8	CCB	Blank	N	5	<5	1	<5	17:45	
9									
10									
11									
12									
13									
14									
15									
16									
17					MJB	12/15/21			
18									
19									
20									
21									
22									
23									
24									
25									
26									

Reviewer _____ Date: _____

Color Logbook, BF-WC-LB-003 Rev.2
Apr 30, 2019

Historical Data Summary Report

For Batch 609043

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193435-P-1	DUP 1	2120B	Color	Total/NA	Color Unit	6	1.0	20.0	☐	0 - 179.178	☐	0 - 168
480-193436-H-6	MW-6A	2120B	Color	Total/NA	Color Unit	5	1.0	20.0	☐	0 - 41.594	☐	0 - 30
480-193436-H-7	MW-6B	2120B	Color	Total/NA	Color Unit	5	1.0	5.00	☐	0 - 20	☐	0 - 12
480-193436-J-2	MW-3A	2120B	Color	Total/NA	Color Unit	5	1.0	40.0	☐	0 - 55.675	☐	8 - 48
480-193436-J-3	MW-3B	2120B	Color	Total/NA	Color Unit	5	1.0	10.0	☐	0 - 66	☐	8 - 60
480-193436-J-4	MW-4A	2120B	Color	Total/NA	Color Unit	5	1.0	15.0	☐	0 - 18.697	☑	0 - 12
480-193436-J-5	MW-5A	2120B	Color	Total/NA	Color Unit	5	1.0	15.0	☐	0 - 20	☑	0 - 12
480-193436-J-8	MW-7A	2120B	Color	Total/NA	Color Unit	5	1.0	15.0	☐	0 - 40.821	☐	0 - 30

TestAmerica *[Buffalo]*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Ion Chromatography Data Review Checklist

LIMS Batch Number: 609126-129	**Worklist:** 103105	**Instrument ID (circle one):** IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	**Method (circle):** 300.0, 314.0, 9056, 7199, SM4110, VFA	**QC Type (circle):** Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)				✓	
2. Elution order of analytes in ICAL confirmed to be correct				✓	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)				✓	
4. ICV, second source: run before samples 90-110% recovery				✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)				✓	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)				✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)				X	If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%				✓	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?				✓	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)				✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*				✓	□ No analyte > RL in associated samples □ Sample results >10x blank □ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*				✓	□ Insufficient sample for reanalysis □ LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*				✓	□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%				✓	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Out of control QC is clearly identified			✓	
d. Any data that has a qualifier tick is commented on with appropriate action taken			✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature			✓	
16. Run Log				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Analyst initials/signature provided			✓	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct			✓	
b. Method and matrix are correct			✓	
c. Date and time match raw data			✓	
d. Dilutions are correct			✓	
e. Correct suffix designated (where applicable)			✓	
18. TALS Worksheet Tab is complete and correct			✓	
19. TALS Reagent Tab is complete and correct			✓	
20. TALS QC Links Tab is correct			✓	
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted			✓	
b. All reported analytes are marked Primary or Secondary			✓	
22. TALS Batch Information Screen documentation is complete			✓	
23. TALS Status set to appropriate review level			✓	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			✓	
25. Results for samples and QC correct on final report?			✓	
26. Are all necessary scanned documents in TALS?			✓	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			✓	

2nd Reviewer: BS **Review Date:** 12/17/21

Comments:

Eurofins Environment Testing America
Worklist Report

Worklist Name: 2021 12 16 ICAL
Instrument Name: IC-5
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b
Upload Directory: \\Corptalsapp17\480-BF-RawData\Organics\MS\IC-5
Batch #s: 609126, 609127, 609128, 609129

Worklist Number: 103105
Chrom Method: IC5-300
Units: ul

12/16/21

12/30/2021

Worklist ID	Lims ID	Sample Reagents	Smp Type	Cal Lvl	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103105-001	# 1 Blank		Client		sv	5.000	mL	1.000
480-0103105-002	# 2 IC - STD1	IC_6ANION_STD_00003	IC	1	sv	5.000	mL	1.000
480-0103105-003	# 3 IC - STD2	IC_6ANION_STD_00003	IC	2	sv	5.000	mL	1.000
480-0103105-004	# 4 IC - STD3	IC_6ANION_STD_00003	IC	3	sv	5.000	mL	1.000
480-0103105-005	# 5 IC - STD4	IC_6ANION_STD_00003	IC	4	sv	5.000	mL	1.000
480-0103105-006	# 6 IC - STD5	IC_6ANION_STD_00003	IC	5	sv	5.000	mL	1.000
480-0103105-007	# 7 IC - STD6	IC_6ANION_STD_00003	IC	6	sv	5.000	mL	1.000
480-0103105-008	# 8 IC - STD7	IC_6ANION_STD_00003	IC	7	sv	5.000	mL	1.000
480-0103105-009	# 9 ICV	IC ERA 6_00001	ICV		sv	5.000	mL	1.000
480-0103105-010	#10 ICB		ICB		sv	5.000	mL	1.000
480-0103105-011	#11 MDLV	IC_6ANION_STD_00003	MDLV		sv	5.000	mL	1.000
480-0103105-012	#12 MDLV	IC_6ANION_STD_00003	MDLV		sv	5.000	mL	1.000
480-0103105-013	#13 MDLV	IC_6ANION_STD_00003	MDLV		sv	5.000	mL	1.000

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 16-Dec-2021 16:00:34

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b
Inj Date : 16-Dec-2021 12:01:00, Sublist: chrom-IC5-300*sub2

Limit Group: MB 300.0_48HR ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
3 Nitrite as N	39757660	41913560	40825194	40047230	38754896	36286855	33144505	132853	38147134	WLinr	8.2	0.994	
	-2.7	8.1	6.3	4.8	1.5	-4.9	-13.1						
6 Nitrate as N	38206740	43398405	43063320	44264878	45170687	45151052	45259990	-333868	44830472	WLinr	1.4	1.000	
	0.1	0.5	-2.5	-0.9	0.9	0.8	1.0						

Report Date: 16-Dec-2021 16:00:42 Chrom Revision: 2.3 15-Nov-2021 20:34:28 Page: 1

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 16-Dec-2021 16:00:34

Limit Group: MB 300.0_48HR ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_15.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
3 Nitrite as N	6.117	6.120	6.123	6.127	6.133	6.133	6.137	6.127	0.123	6.133
6 Nitrate as N	9.693	9.690	9.690	9.667	9.633	9.583	9.517	9.639	0.696	9.633

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 16-Dec-2021 16:00:34

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b
Inj Date : 16-Dec-2021 12:01:00, Sublist: chrom-IC5-300*sub2

Limit Group: MB 300.0_28D ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
1 Fluoride	30416780	31734085	29470410	29411450	29031469	27764747	26095760	123112	28642289	WLinr	6.0	0.997	
	-2.4	8.6	2.0	2.5	1.3	-3.1	-8.9						
2 Chloride	16808156	18402039	17774430	17581594	17736375	17601041	17475010	-382313	17777627	WLinr	2.3	0.999	
	-1.2	4.6	0.4	-1.0	-0.2	-1.0	-1.7						
4 Bromide	5379860	6846155	6718036	7207762	7504699	7566771	7324390	-99399	7330849	WLinr	3.2	0.999	
	0.5	0.2	-5.6	-1.0	2.6	3.4	0.0						
5 Sulfate	12708572	13612768	13123906	13061068	13168181	13039191	12948617	-159699	13158152	WLinr	2.1	1.000	
	-1.0	4.1	0.0	-0.7	0.1	-0.9	-1.6						

Report Date: 16-Dec-2021 16:01:15 Chrom Revision: 2.3 15-Nov-2021 20:34:28 Page: 1

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 16-Dec-2021 16:00:34

Limit Group: MB 300.0_28D ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_15.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.433	3.437	3.440	3.443	3.453	3.463	3.477	3.450	0.458	3.453
2 Chloride	5.043	5.047	5.050	5.043	5.043	5.037	5.033	5.042	0.113	5.043
4 Bromide	8.457	8.443	8.443	8.430	8.417	8.390	8.357	8.420	0.419	8.417
5 Sulfate	9.060	9.063	9.060	9.023	8.963	8.877	8.757	8.972	1.303	8.963

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 16-Dec-2021 16:00:34

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b
Inj Date : 16-Dec-2021 12:01:00, Sublist: chrom-IC5-300*sub2

Limit Group: MB 9056 ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
1 Fluoride	30416780	31734085	29470410	29411450	29031469	27764747	26095760	123112	28642289	WLinr	6.0	0.997	
	-2.4	8.6	2.0	2.5	1.3	-3.1	-8.9						
2 Chloride	16808156	18402039	17774430	17581594	17736375	17601041	17475010	-382313	17777627	WLinr	2.3	0.999	
	-1.2	4.6	0.4	-1.0	-0.2	-1.0	-1.7						
4 Bromide	5379860	6846155	6718036	7207762	7504699	7566771	7324390	-99399	7330849	WLinr	3.2	0.999	
	0.5	0.2	-5.6	-1.0	2.6	3.4	0.0						
5 Sulfate	12708572	13612768	13123906	13061068	13168181	13039191	12948617	-159699	13158152	WLinr	2.1	1.000	
	-1.0	4.1	0.0	-0.7	0.1	-0.9	-1.6						

Report Date: 16-Dec-2021 16:01:38 Chrom Revision: 2.3 15-Nov-2021 20:34:28 Page: 1

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m

Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6

Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 16-Dec-2021 16:00:34

Limit Group: MB 9056 ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_15.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.433	3.437	3.440	3.443	3.453	3.463	3.477	3.450	0.458	3.453
2 Chloride	5.043	5.047	5.050	5.043	5.043	5.037	5.033	5.042	0.113	5.043
4 Bromide	8.457	8.443	8.443	8.430	8.417	8.390	8.357	8.420	0.419	8.417
5 Sulfate	9.060	9.063	9.060	9.023	8.963	8.877	8.757	8.972	1.303	8.963

Eurofins Environment Testing America
Initial Calibration RF Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m
Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6
Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 16-Dec-2021 16:00:34

Initial Calibration Batches

Ical Batch: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b
Inj Date : 16-Dec-2021 12:01:00, Sublist: chrom-IC5-300*sub2

Limit Group: MB SM4110B ICAL

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	Level 7 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
1 Fluoride	30416780	31734085	29470410	29411450	29031469	27764747	26095760	123112	28642289	WLinr	6.0	0.997	
	-2.4	8.6	2.0	2.5	1.3	-3.1	-8.9						
2 Chloride	16808156	18402039	17774430	17581594	17736375	17601041	17475010	-382313	17777627	WLinr	2.3	0.999	
	-1.2	4.6	0.4	-1.0	-0.2	-1.0	-1.7						
4 Bromide	5379860	6846155	6718036	7207762	7504699	7566771	7324390	-99399	7330849	WLinr	3.2	0.999	
	0.5	0.2	-5.6	-1.0	2.6	3.4	0.0						
5 Sulfate	12708572	13612768	13123906	13061068	13168181	13039191	12948617	-159699	13158152	WLinr	2.1	1.000	
	-1.0	4.1	0.0	-0.7	0.1	-0.9	-1.6						

Report Date: 16-Dec-2021 16:02:04 Chrom Revision: 2.3 15-Nov-2021 20:34:28 Page: 1

Eurofins Environment Testing America
Initial Calibration RT Report

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m

Instrument: IC-5
Lock State: Unlocked
Integrator: Falcon
No.Compounds:6

Lims Location: 480
Cpnd Order: Retention Time
Last Modified: 16-Dec-2021 16:00:34

Limit Group: MB SM4110B ICAL

Averaged ICal Samples:
Level: 5 \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_15.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	RT(min.) Level 7	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.433	3.437	3.440	3.443	3.453	3.463	3.477	3.450	0.458	3.453
2 Chloride	5.043	5.047	5.050	5.043	5.043	5.037	5.033	5.042	0.113	5.043
4 Bromide	8.457	8.443	8.443	8.430	8.417	8.390	8.357	8.420	0.419	8.417
5 Sulfate	9.060	9.063	9.060	9.023	8.963	8.877	8.757	8.972	1.303	8.963

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 12_01.d
Lims ID: IC - STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 16-Dec-2021 12:01:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 1
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Dec-2021 16:02:40 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1634

First Level Reviewer: zahniseri Date: 16-Dec-2021 13:58:44

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.433	3.453	-0.020	1520839	0.0500	0.0488	
2 Chloride						
5.043	5.043	0.000	8404078	0.5000	0.4942	
3 Nitrite as N						
6.117	6.133	-0.016	1987883	NC	NC	
4 Bromide						
8.457	8.417	0.040	268993	0.0500	0.0503	
5 Sulfate						
9.060	8.963	0.097	6354286	0.5000	0.4951	
6 Nitrate as N						
9.693	9.633	0.060	1910337	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 2.50 Units: uL

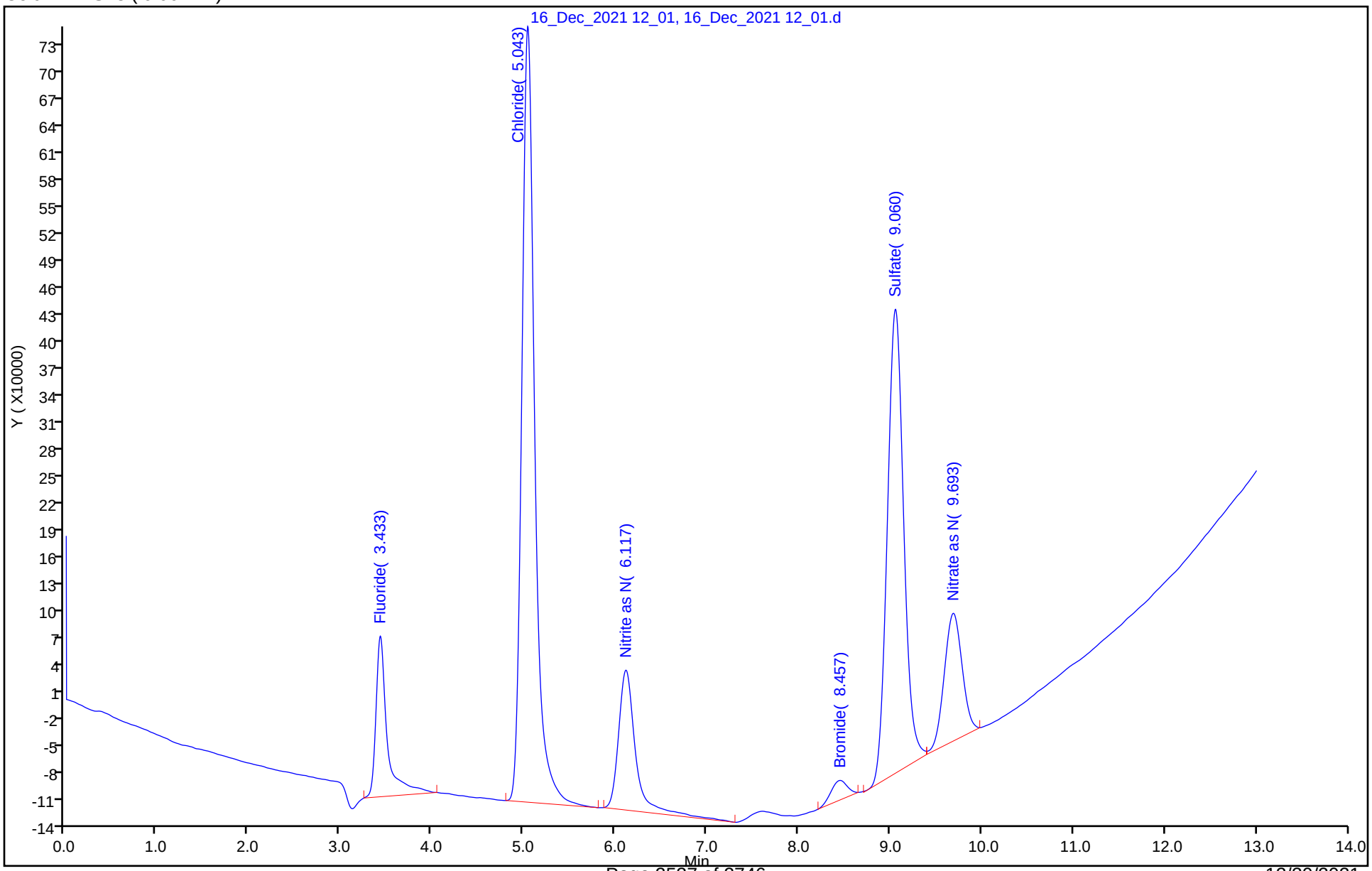
Report Date: 16-Dec-2021 16:02:40 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 12_01.d

Injection Date:	16-Dec-2021 12:01:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	IC - STD1			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 12_20.d
Lims ID: IC - STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 16-Dec-2021 12:20:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 2
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Dec-2021 16:02:40 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1634

First Level Reviewer: zahniseri Date: 16-Dec-2021 15:56:09

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.437	3.453	-0.016	6346817	0.2000	0.2173	
2 Chloride						
5.047	5.043	0.004	36804078	2.00	2.09	
3 Nitrite as N						
6.120	6.133	-0.013	8382712	NC	NC	
4 Bromide						
8.443	8.417	0.026	1369231	0.2000	0.2003	
5 Sulfate						
9.063	8.963	0.100	27225536	2.00	2.08	
6 Nitrate as N						
9.690	9.633	0.057	8679681	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 10.00 Units: uL

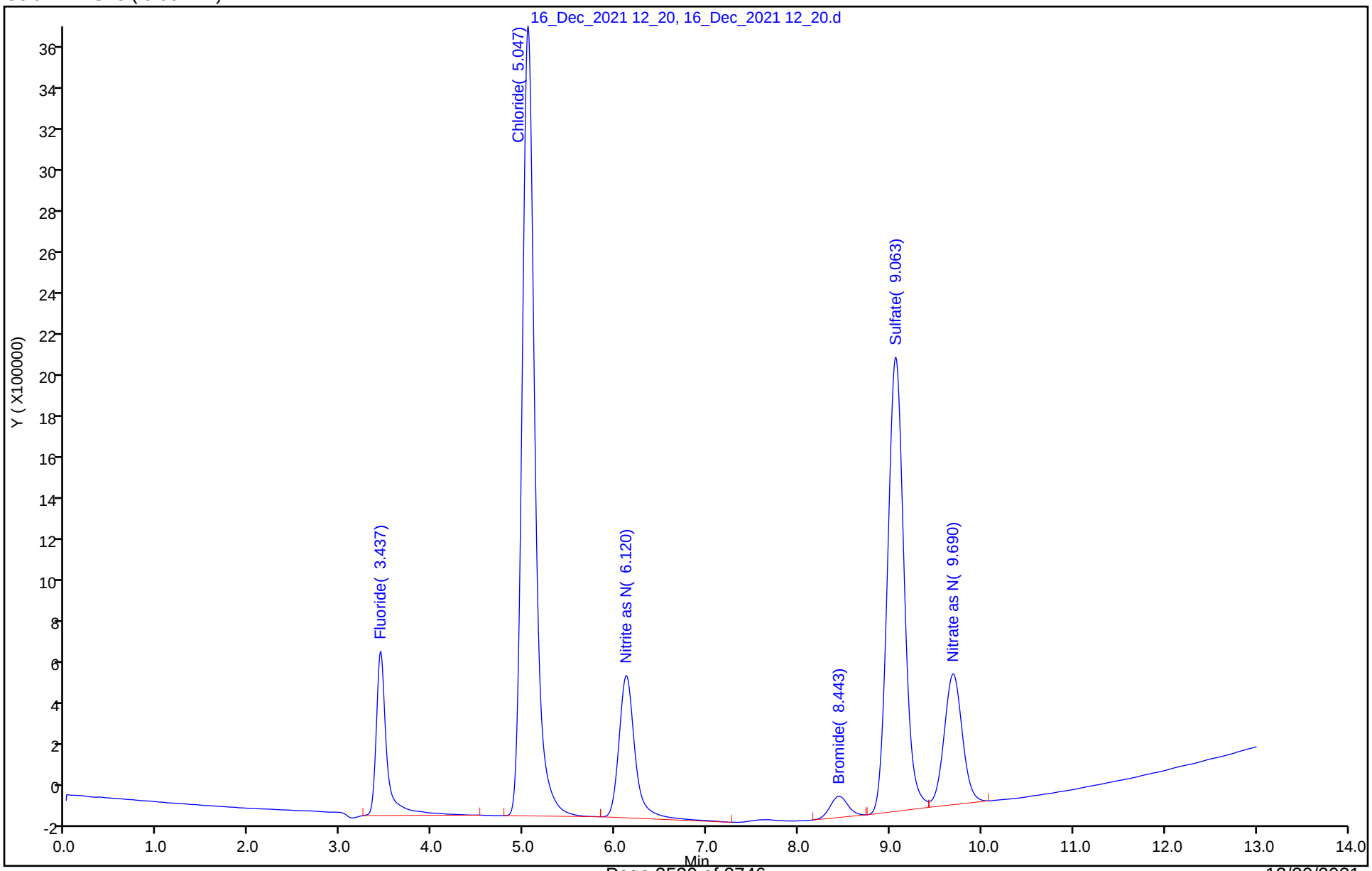
Report Date: 16-Dec-2021 16:02:40 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 12_20.d

Injection Date:	16-Dec-2021 12:20:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	IC - STD2			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 12_38.d
Lims ID: IC - STD3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 16-Dec-2021 12:38:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 3
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Dec-2021 16:02:41 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1634

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.440	3.453	-0.013	14735205	0.5000	0.5102	
2 Chloride						
5.050	5.043	0.007	88872148	5.00	5.02	
3 Nitrite as N						
6.123	6.133	-0.010	20412597	NC	NC	
4 Bromide						
8.443	8.417	0.026	3359018	0.5000	0.4718	
5 Sulfate						
9.060	8.963	0.097	65619531	5.00	5.00	
6 Nitrate as N						
9.690	9.633	0.057	21531660	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 25.00 Units: uL

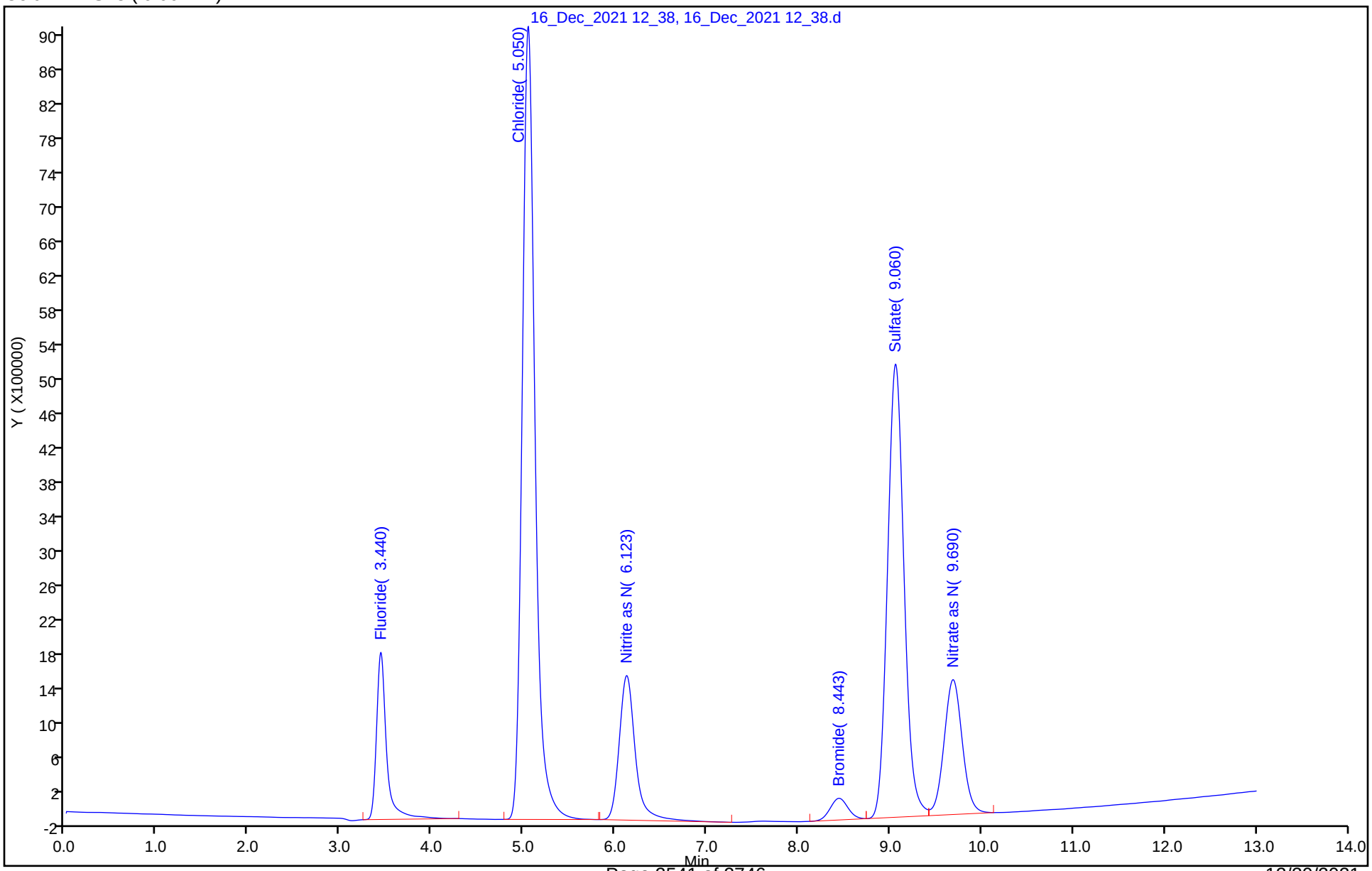
Report Date: 16-Dec-2021 16:02:41 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 12_38.d

Injection Date:	16-Dec-2021 12:38:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	IC - STD3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 12_57.d
Lims ID: IC - STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 16-Dec-2021 12:57:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 4
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Dec-2021 16:02:42 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1634

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.443	3.443	0.000	58822899	2.00	2.05	
2 Chloride						
5.043	5.043	0.000	351631877	20.0	19.8	
3 Nitrite as N						
6.127	6.127	0.000	80094459	NC	NC	
4 Bromide						
8.430	8.430	0.000	14415524	2.00	1.98	
5 Sulfate						
9.023	9.023	0.000	261221364	20.0	19.9	
6 Nitrate as N						
9.667	9.667	0.000	88529755	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 100.00 Units: uL

Report Date: 16-Dec-2021 16:02:42 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 12_57.d

Injection Date: 16-Dec-2021 12:57:00 Instrument ID: IC-5 Operator ID:

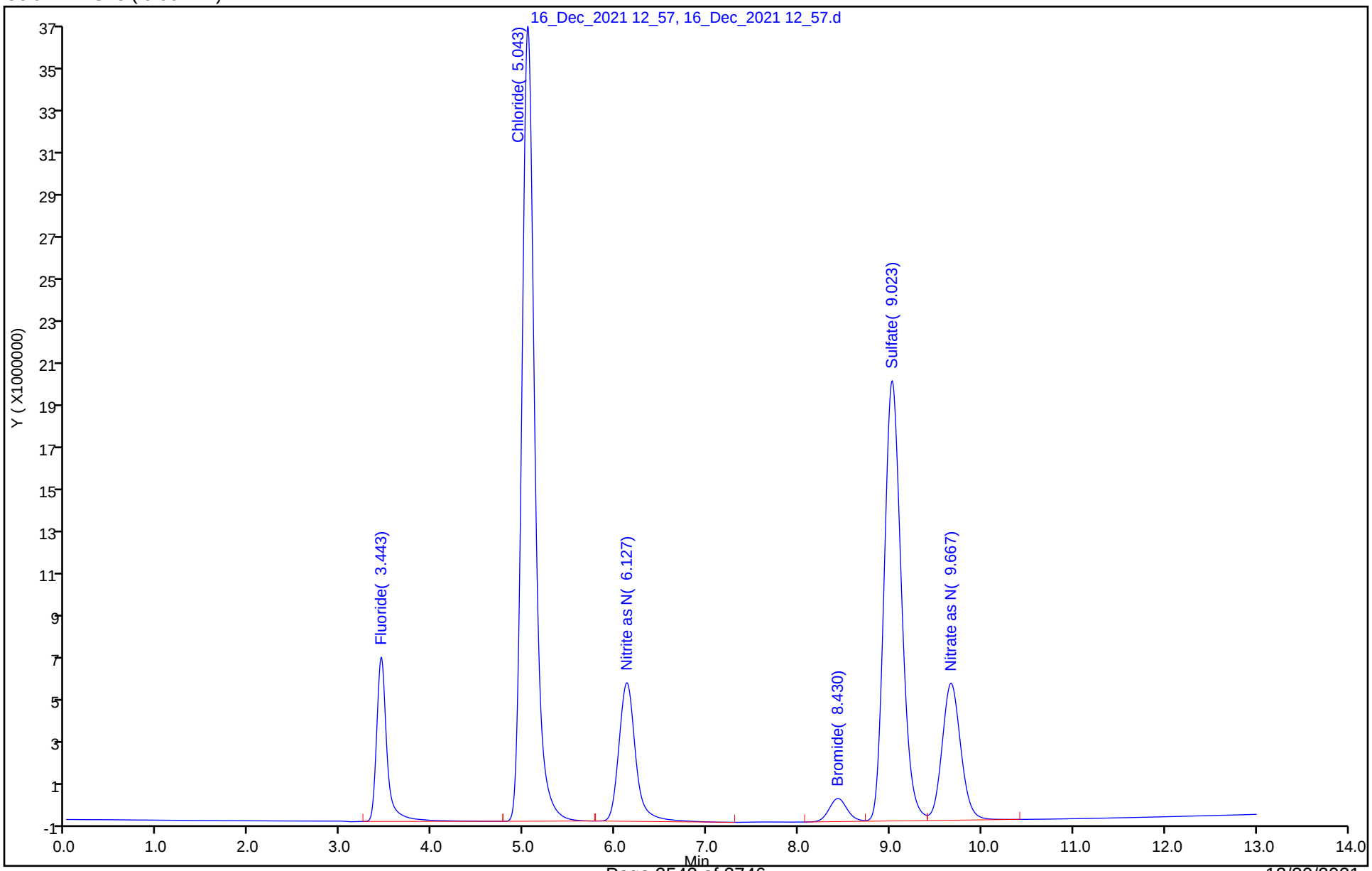
Lims ID: IC - STD4 Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: IC5-300 Limit Group: MB 300.0_28D ICAL

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_15.d
Lims ID: IC - STD5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 16-Dec-2021 13:15:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 5
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Dec-2021 16:02:42 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1634

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.453	3.453	0.000	145157343	5.00	5.06	
2 Chloride						
5.043	5.043	0.000	886818749	50.0	49.9	
3 Nitrite as N						
6.133	6.133	0.000	193774481	NC	NC	
4 Bromide						
8.417	8.417	0.000	37523495	5.00	5.13	
5 Sulfate						
8.963	8.963	0.000	658409074	50.0	50.1	
6 Nitrate as N						
9.633	9.633	0.000	225853433	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 250.00 Units: uL

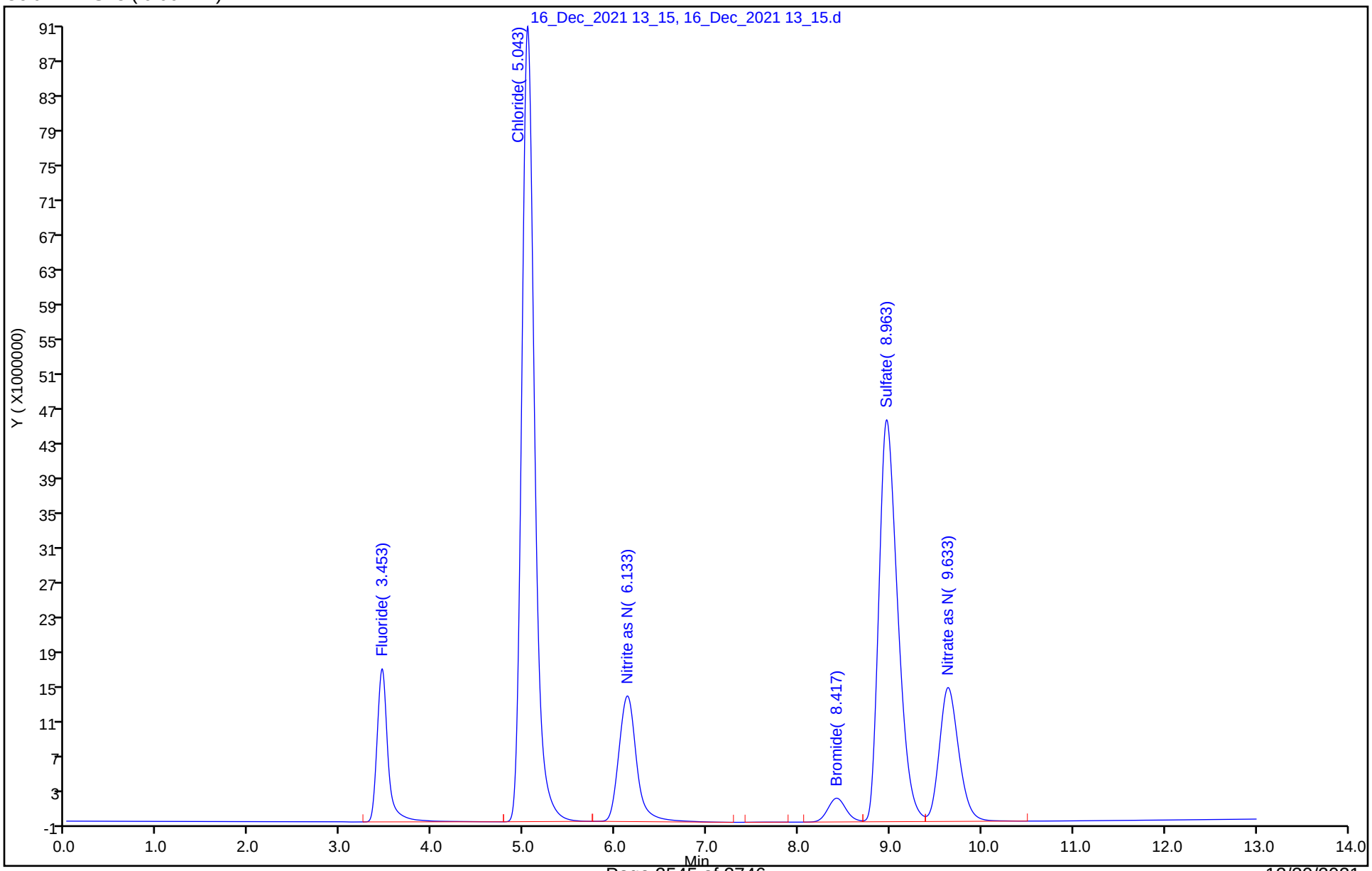
Report Date: 16-Dec-2021 16:02:43 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_15.d

Injection Date:	16-Dec-2021 13:15:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	IC - STD5			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_34.d
Lims ID: IC - STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 16-Dec-2021 13:34:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 6
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Dec-2021 16:02:43 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1634

First Level Reviewer: zahniseri Date: 16-Dec-2021 15:55:05

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.463	3.453	0.010	277647465	10.0	9.69	
2 Chloride						
5.037	5.043	-0.006	1760104111	100.0	99.0	
3 Nitrite as N						
6.133	6.133	0.000	362868554	NC	NC	
4 Bromide						
8.390	8.417	-0.027	75667706	10.0	10.3	
5 Sulfate						
8.877	8.963	-0.086	1303919137	100.0	99.1	
6 Nitrate as N						
9.583	9.633	-0.050	451510517	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 500.00 Units: uL

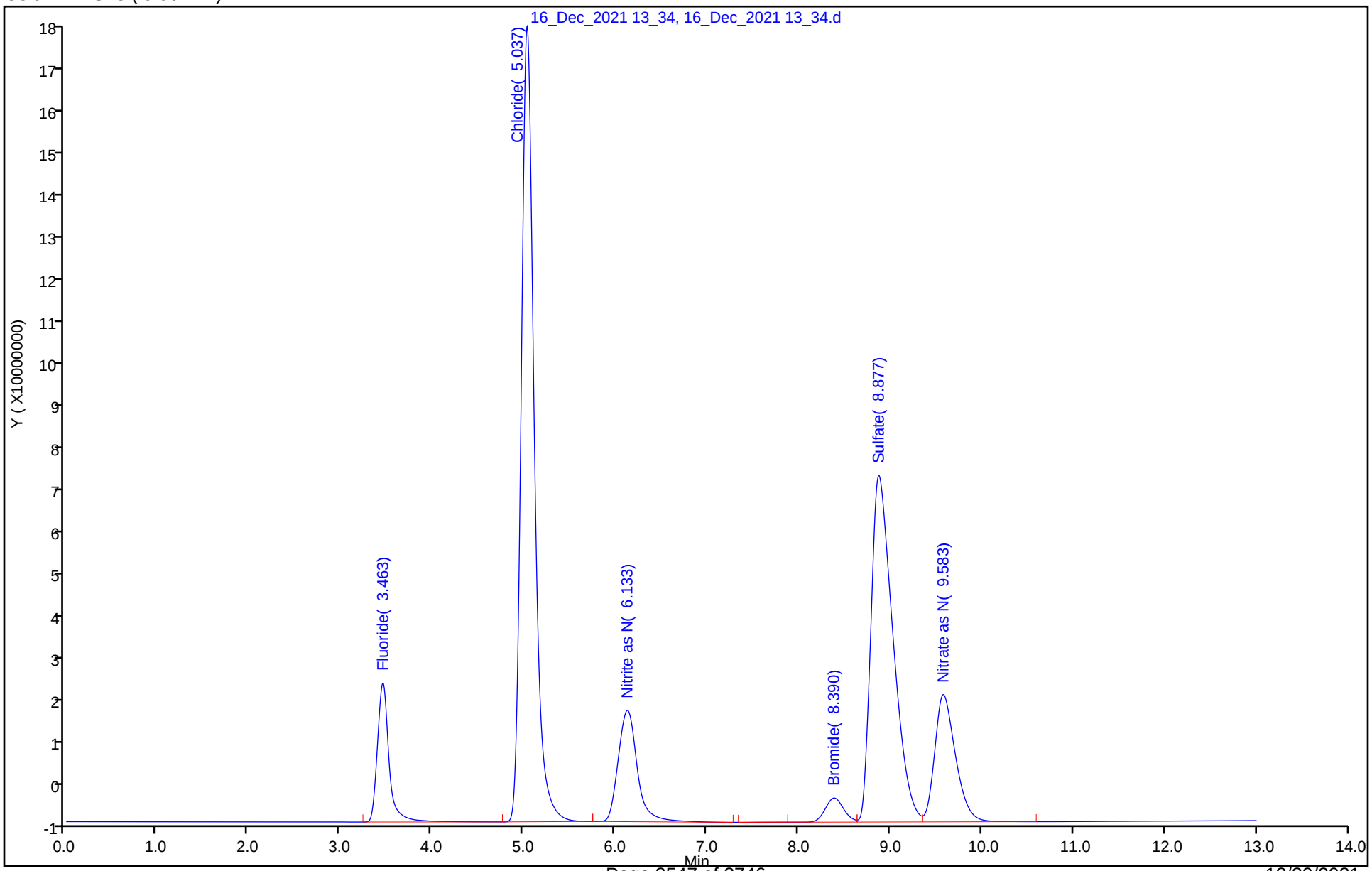
Report Date: 16-Dec-2021 16:02:43 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_34.d

Injection Date:	16-Dec-2021 13:34:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	IC - STD6			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d
Lims ID: IC - STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 16-Dec-2021 13:52:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC STD 7
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 16-Dec-2021 16:02:39 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1634

First Level Reviewer: zahniseri Date: 16-Dec-2021 16:02:39

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.477	3.453	0.024	521915208	20.0	18.2	
2 Chloride						
5.033	5.043	-0.010	3495001987	200.0	196.6	
3 Nitrite as N						
6.137	6.133	0.004	662890090	NC	NC	
4 Bromide						
8.357	8.417	-0.060	146487796	20.0	20.0	
5 Sulfate						
8.757	8.963	-0.206	2589723436	200.0	196.8	
6 Nitrate as N						
9.517	9.633	-0.116	905199806	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 1000.00 Units: uL

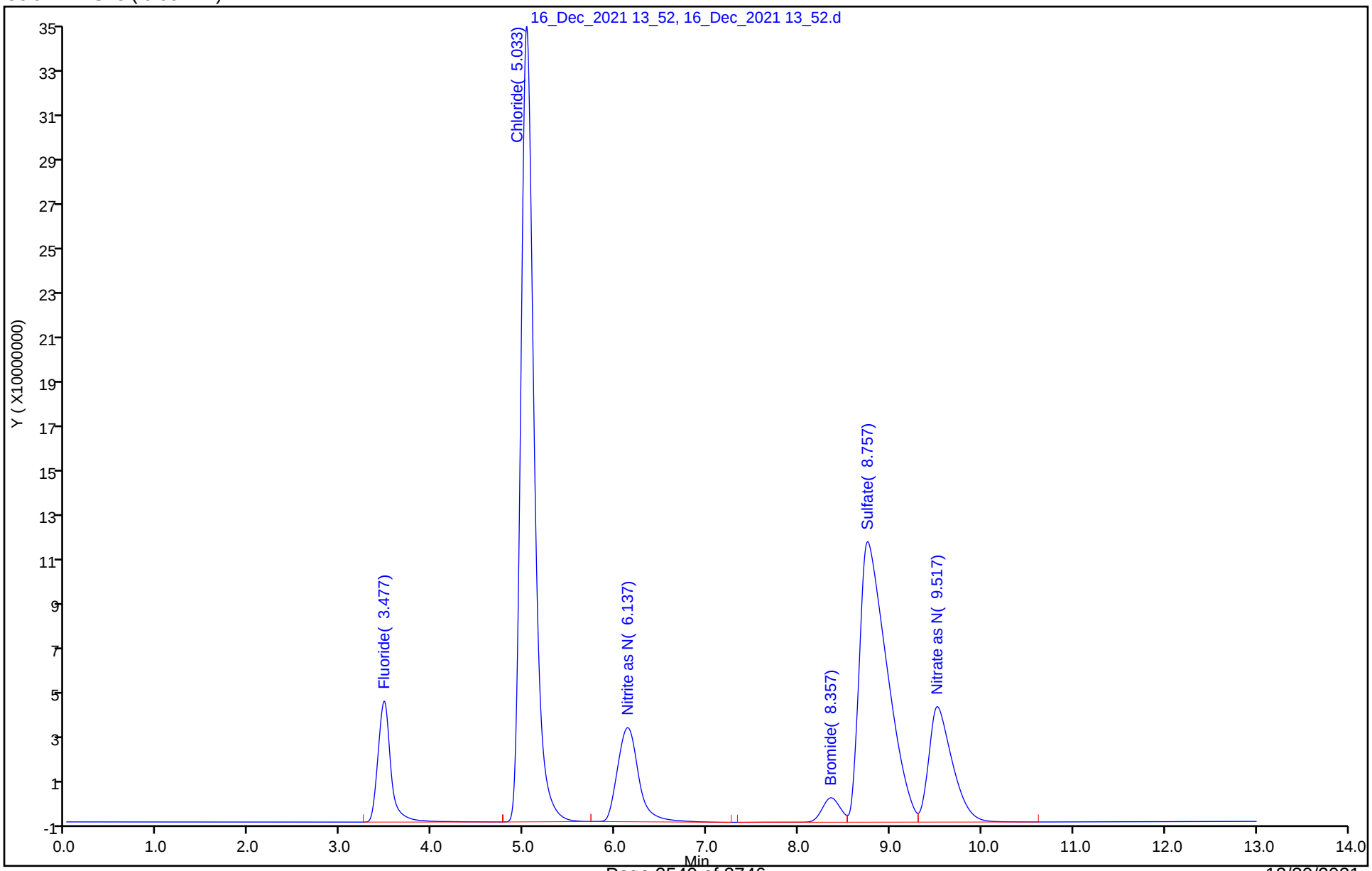
Report Date: 16-Dec-2021 16:02:39 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Injection Date:	16-Dec-2021 13:52:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	IC - STD7			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



TestAmerica *[Buffalo]*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Ion Chromatography Data Review Checklist

LIMS Batch Number: 609673,674	Worklist: 103193	Instrument ID (circle one): IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	Method (circle): 300.0, 314.0, 9056, 7199, SM4110, VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)				✓	
2. Elution order of analytes in ICAL confirmed to be correct				✓	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)				✓	
4. ICV, second source: run before samples 90-110% recovery				✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)				✓	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)				✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)				✓	If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%				✓	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?				✓	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)				✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*				✓	□ No analyte > RL in associated samples □ Sample results >10x blank □ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*				✓	□ Insufficient sample for reanalysis □ LCS %R > QC limits & samples < RL

12/30/2021
Chavisa 12/27/2021

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*				✓	□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%				✓	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Out of control QC is clearly identified			✓	
d. Any data that has a qualifier tick is commented on with appropriate action taken			✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature			✓	
16. Run Log				
a. Unused data is clearly identified			✓	
b. All crossed out data is initialed and dated			✓	
c. Analyst initials/signature provided			✓	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct			✓	
b. Method and matrix are correct			✓	
c. Date and time match raw data			✓	
d. Dilutions are correct			✓	
e. Correct suffix designated (where applicable)			✓	
18. TALS Worksheet Tab is complete and correct			✓	
19. TALS Reagent Tab is complete and correct			✓	
20. TALS QC Links Tab is correct			✓	
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted			✓	
b. All reported analytes are marked Primary or Secondary			✓	
22. TALS Batch Information Screen documentation is complete			✓	
23. TALS Status set to appropriate review level			✓	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			✓	
25. Results for samples and QC correct on final report?			✓	
26. Are all necessary scanned documents in TALS?			✓	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			✓	

2nd Reviewer: Chawisa Review Date: 12/27/2021

Comments: _____

12/30/2021
Chawisa 12/27/2021

Eurofins Environment Testing America
Worklist Report

Worklist Name: 2021 12 21 A
Instrument Name: IC-5
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b
Upload Directory: \\Corptalsapp17\480-BF-RawData\Organics\MS\IC-5
Batch #s: 609673, 609674, 609675, 609676

Worklist Number: 103193
Chrom Method: IC5-300
Units: ul

12/24/21

Chromatograms 12/30/2021 12/27/2021

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103193-001	# 1 Blank		Client	sv	5.000	mL	1.000
480-0103193-002	# 2 CCV	IC_ANION_LCS__00396	CCV	sv	5.000	mL	1.000
480-0103193-003	# 3 CCB		CCB	sv	5.000	mL	1.000
480-0103193-004	# 4 LCS	IC_ANION_LCS__00396	LCS	sv	5.000	mL	1.000
480-0103193-005	# 5 MB		MB	sv	5.000	mL	1.000
480-0103193-006	# 6 480-193265-H-8		Client	sv	5.000 5ome	mL 1	20.00
480-0103193-007	# 7 480-193265-H-9		Client	sv	1.000 100Me	mL 1	10.00
480-0103193-008	# 8 480-193265-H-10		Client	sv	1.000 20Me	mL 1	50.00
480-0103193-009	# 9 480-193265-H-11		Client	sv	1.000 V	mL V	50.00
480-0103193-010	#10 480-193385-S-1		Client	sv	1.000	mL	1.000
480-0103193-011	#11 480-193436-L-2		Client	sv	1.000	mL	1.000
480-0103193-012	#12 480-193436-L-2 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	1.000
480-0103193-013	#13 480-193436-L-2 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103193-014	#14 CCV	IC_ANION_LCS__00396	CCV	sv	5.000	mL	1.000
480-0103193-015	#15 CCB		CCB	sv	5.000	mL	1.000
480-0103193-016	#16 480-193436-L-3		Client	sv	1.000	mL	1.000
480-0103193-017	#17 480-193436-L-4		Client	sv	1.000 500uL	mL 1	2.000
480-0103193-018	#18 480-193436-L-5		Client	sv	1.000	mL	1.000
480-0103193-019	#19 480-193436-L-6		Client	sv	1.000	mL	1.000
480-0103193-020	#20 480-193436-L-7		Client	sv	1.000	mL	1.000
480-0103193-021	#21 480-193436-L-8		Client	sv	1.000 500uL	mL 1	2.000
480-0103193-022	#22 480-193460-S-1		Client	sv	1.000	mL	1.000
480-0103193-023	#23 480-193460-S-2		Client	sv	1.000 500uL	mL 1	2.000
480-0103193-024	#24 480-193467-J-1		Client	sv	1.000	mL	1.000
480-0103193-025	#25 480-193467-J-1 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	1.000
480-0103193-026	#26 CCV	IC_ANION_LCS__00396	CCV	sv	5.000	mL	1.000
480-0103193-027	#27 CCB		CCB	sv	5.000	mL	1.000
480-0103193-028	#28 LCS	IC_ANION_LCS__00396	LCS	sv	5.000	mL	1.000
480-0103193-029	#29 MB		MB	sv	5.000	mL	1.000
480-0103193-030	#30 480-193467-J-2		Client	sv	1.000	mL	1.000
480-0103193-031	#31 480-193467-J-3		Client	sv	1.000 200uL	mL 1	5.000

Chain of Custody 12/27/2021

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	DF Fact
480-0103193-032	#32 480-193467-J-4		Client	sv	1.000 200mL	mL	5.000
480-0103193-033	#33 480-193467-J-5		Client	sv	1.000	mL	5.000
480-0103193-034	#34 480-193467-J-6		Client	sv	1.000 100mL	mL	10.00
480-0103193-035	#35 480-193467-J-7		Client	sv	1.000	mL	10.00
480-0103193-036	#36 480-193467-J-7 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	10.00
480-0103193-037	#37 480-193467-J-7 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	10.00
480-0103193-038	#38 CCV	IC_ANION_LCS__00396	CCV	sv	5.000	mL	1.000
480-0103193-039	#39 CCB		CCB	sv	5.000	mL	1.000
480-0103193-040	#40 480-193481-H-1		Client	sv	5.000 200mL	mL	5.000
480-0103193-041	#41 480-193482-H-1		Client	sv	5.000 50mL	mL	20.00
480-0103193-042	#42 480-193482-H-2		Client	sv	5.000	mL	20.00
480-0103193-043	#43 480-193482-H-3		Client	sv	5.000	mL	20.00
480-0103193-044	#44 480-193482-H-4		Client	sv	5.000	mL	20.00
480-0103193-045	#45 480-193482-H-5		Client	sv	5.000	mL	20.00
480-0103193-046	#46 480-193482-H-6		Client	sv	5.000	mL	20.00
480-0103193-047	#47 480-193482-H-7		Client	sv	5.000	mL	20.00
480-0103193-048	#48 480-193482-H-8		Client	sv	5.000 100mL	mL	10.00
480-0103193-049	#49 480-193482-H-8 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	10.00

Changed 12/27/2021

12/30/2021

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103193-050	#50 CCV	IC_ANION_LCS__00396	CCV	sv	5.000	mL	1.000
480-0103193-051	#51 CCB		CCB	sv	5.000	mL	1.000
480-0103193-052	#52 MDLV	IC_6ANION_STD_00003	MDLV	sv	5.000	mL	1.000

TestAmerica *[Buffalo]*

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THE LEADER IN ENVIRONMENTAL TESTING

Ion Chromatography Data Review Checklist

LIMS Batch Number: 609673,674	**Worklist:** 103193	**Instrument ID (circle one):** IC1 IC2 IC5 IC6 VFA1
Analyst/1st Reviewer:	**Method (circle):** 300.0, 314.0, 9056, 7199, SM4110, VFA	**QC Type (circle):** Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)					
2. Elution order of analytes in ICAL confirmed to be correct					
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) |x-intercept| < RL or < ½ RL (314.0 or special projects)					
4. ICV, second source: run before samples 90-110% recovery					If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)					If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)					If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)					If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples <25%					If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?					Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)					Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL) (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) *If no, list blank ID & explain:*					□ No analyte > RL in associated samples □ Sample results >10x blank □ Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) *If no, list LCS ID & explain:*					□ Insufficient sample for reanalysis □ LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) *If no, list QC ID & explain:*					□ Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%					

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Out of control QC is clearly identified				
d. Any data that has a qualifier tick is commented on with appropriate action taken				
e. The first page of the run includes the filename, instrument, and analyst initials/signature				
16. Run Log				
a. Unused data is clearly identified				
b. All crossed out data is initialed and dated				
c. Analyst initials/signature provided				
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct				
b. Method and matrix are correct				
c. Date and time match raw data				
d. Dilutions are correct				
e. Correct suffix designated (where applicable)				
18. TALS Worksheet Tab is complete and correct				
19. TALS Reagent Tab is complete and correct				
20. TALS QC Links Tab is correct				
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted				
b. All reported analytes are marked Primary or Secondary				
22. TALS Batch Information Screen documentation is complete				
23. TALS Status set to appropriate review level				
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ **Review Date:** _____

Comments: _____

Eurofins Environment Testing America
Worklist Report

12/30/2021

Worklist Name: 2021 12 21 A
Instrument Name: IC-5
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b
Upload Directory: \\Corptalsapp17\480-BF-RawData\Organics\MS\IC-5
Batch #s: 609673, 609674, 609675, 609676

Worklist Number: 103193
Chrom Method: IC5-300
Units: ul

12/24/21

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103193-001	# 1 Blank		Client	sv	5.000	mL	1.000
480-0103193-002	# 2 CCV	IC_ANION_LCS__00396	CCV	sv	5.000	mL	1.000
480-0103193-003	# 3 CCB		CCB	sv	5.000	mL	1.000
480-0103193-004	# 4 LCS	IC_ANION_LCS__00396	LCS	sv	5.000	mL	1.000
480-0103193-005	# 5 MB		MB	sv	5.000	mL	1.000
480-0103193-006	# 6 480-193265-H-8		Client	sv	5.000 5ome	mL 1	20.00
480-0103193-007	# 7 480-193265-H-9		Client	sv	1.000 100Me	mL 1	10.00
480-0103193-008	# 8 480-193265-H-10		Client	sv	1.000 20Me	mL 1	50.00
480-0103193-009	# 9 480-193265-H-11		Client	sv	1.000 V	mL V	50.00
480-0103193-010	#10 480-193385-S-1		Client	sv	1.000	mL	1.000
480-0103193-011	#11 480-193436-L-2		Client	sv	1.000	mL	1.000
480-0103193-012	#12 480-193436-L-2 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	1.000
480-0103193-013	#13 480-193436-L-2 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103193-014	#14 CCV	IC_ANION_LCS__00396	CCV	sv	5.000	mL	1.000
480-0103193-015	#15 CCB		CCB	sv	5.000	mL	1.000
480-0103193-016	#16 480-193436-L-3		Client	sv	1.000	mL	1.000
480-0103193-017	#17 480-193436-L-4		Client	sv	1.000 500mL	mL 1	2.000
480-0103193-018	#18 480-193436-L-5		Client	sv	1.000	mL	1.000
480-0103193-019	#19 480-193436-L-6		Client	sv	1.000	mL	1.000
480-0103193-020	#20 480-193436-L-7		Client	sv	1.000	mL	1.000
480-0103193-021	#21 480-193436-L-8		Client	sv	1.000 500mL	mL 1	2.000
480-0103193-022	#22 480-193460-S-1		Client	sv	1.000	mL	1.000
480-0103193-023	#23 480-193460-S-2		Client	sv	1.000 500mL	mL 1	2.000
480-0103193-024	#24 480-193467-J-1		Client	sv	1.000	mL	1.000
480-0103193-025	#25 480-193467-J-1 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	1.000
480-0103193-026	#26 CCV	IC_ANION_LCS__00396	CCV	sv	5.000	mL	1.000
480-0103193-027	#27 CCB		CCB	sv	5.000	mL	1.000
480-0103193-028	#28 LCS	IC_ANION_LCS__00396	LCS	sv	5.000	mL	1.000
480-0103193-029	#29 MB		MB	sv	5.000	mL	1.000
480-0103193-030	#30 480-193467-J-2		Client	sv	1.000	mL	1.000
480-0103193-031	#31 480-193467-J-3		Client	sv	1.000 200mL	mL 1	5.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103193-032	#32 480-193467-J-4		Client	sv	1.000 200	mL	5.000
480-0103193-033	#33 480-193467-J-5		Client	sv	1.000	mL	5.000
480-0103193-034	#34 480-193467-J-6		Client	sv	1.000 100	mL	10.00
480-0103193-035	#35 480-193467-J-7		Client	sv	1.000	mL	10.00
480-0103193-036	#36 480-193467-J-7 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	10.00
480-0103193-037	#37 480-193467-J-7 MSD	IC_6ANION_STD_00003	MSD	sv	1.000	mL	10.00
480-0103193-038	#38 CCV	IC_ANION_LCS__00396	CCV	sv	5.000	mL	1.000
480-0103193-039	#39 CCB		CCB	sv	5.000	mL	1.000
480-0103193-040	#40 480-193481-H-1		Client	sv	5.000 200	mL	5.000
480-0103193-041	#41 480-193482-H-1		Client	sv	5.000 50	mL	20.00
480-0103193-042	#42 480-193482-H-2		Client	sv	5.000	mL	20.00
480-0103193-043	#43 480-193482-H-3		Client	sv	5.000	mL	20.00
480-0103193-044	#44 480-193482-H-4		Client	sv	5.000	mL	20.00
480-0103193-045	#45 480-193482-H-5		Client	sv	5.000	mL	20.00
480-0103193-046	#46 480-193482-H-6		Client	sv	5.000	mL	20.00
480-0103193-047	#47 480-193482-H-7		Client	sv	5.000	mL	20.00
480-0103193-048	#48 480-193482-H-8		Client	sv	5.000 100	mL	10.00
480-0103193-049	#49 480-193482-H-8 MS	IC_6ANION_STD_00003	MS	sv	1.000	mL	10.00

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0103193-050	#50 CCV	IC_ANION_LCS__00396	CCV	sv	5.000	mL	1.000
480-0103193-051	#51 CCB		CCB	sv	5.000	mL	1.000
480-0103193-052	#52 MDLV	IC_6ANION_STD_00003	MDLV	sv	5.000	mL	1.000

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 13_55.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Dec-2021 13:55:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103193-002
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 22-Dec-2021 12:34:43 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1674

First Level Reviewer: zahniseri Date: 21-Dec-2021 17:43:54

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.410	3.410	0.000	141836756	5.00	4.95	
2 Chloride						
4.883	4.883	0.000	880598768	50.0	49.6	
3 Nitrite as N						
5.897	5.897	0.000	188035989	NC	NC	
4 Bromide						
8.003	8.003	0.000	35971707	5.00	4.92	
5 Sulfate						
8.543	8.543	0.000	651474489	50.0	49.5	
6 Nitrate as N						
9.197	9.197	0.000	223738291	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00396 Amount Added: 5.00 Units: mL

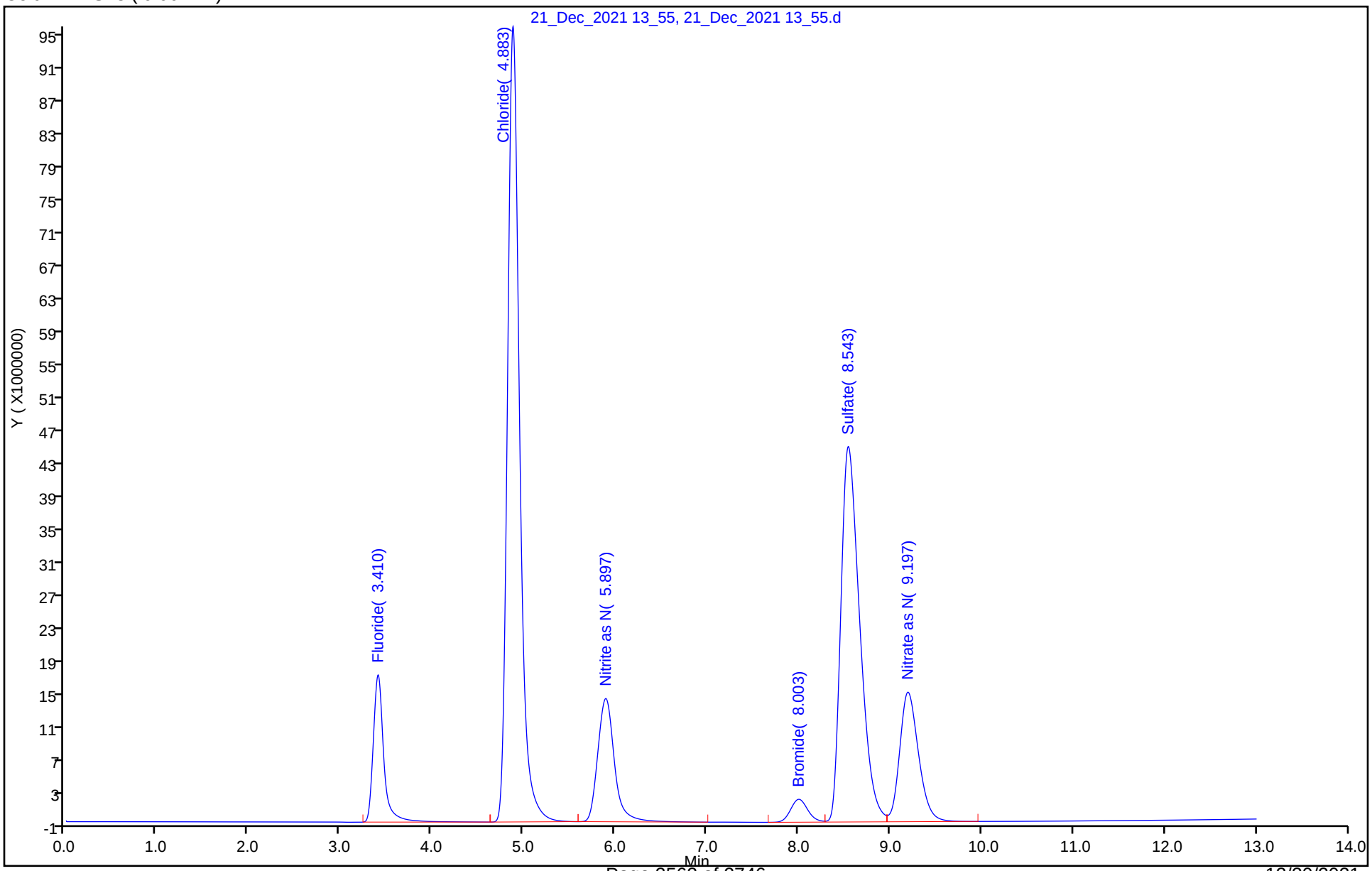
Report Date: 22-Dec-2021 12:34:43 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 13_55.d

Injection Date:	21-Dec-2021 13:55:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 14_14.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 21-Dec-2021 14:14:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103193-003
Operator ID: Instrument ID: IC-5

Method: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 22-Dec-2021 12:34:43 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1674

First Level Reviewer: zahniseri Date: 22-Dec-2021 12:31:13

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.887	4.883	0.004	292642		0.0380	
5 Sulfate						
8.700	8.543	0.157	116401		0.0210	

QC Flag Legend

Processing Flags

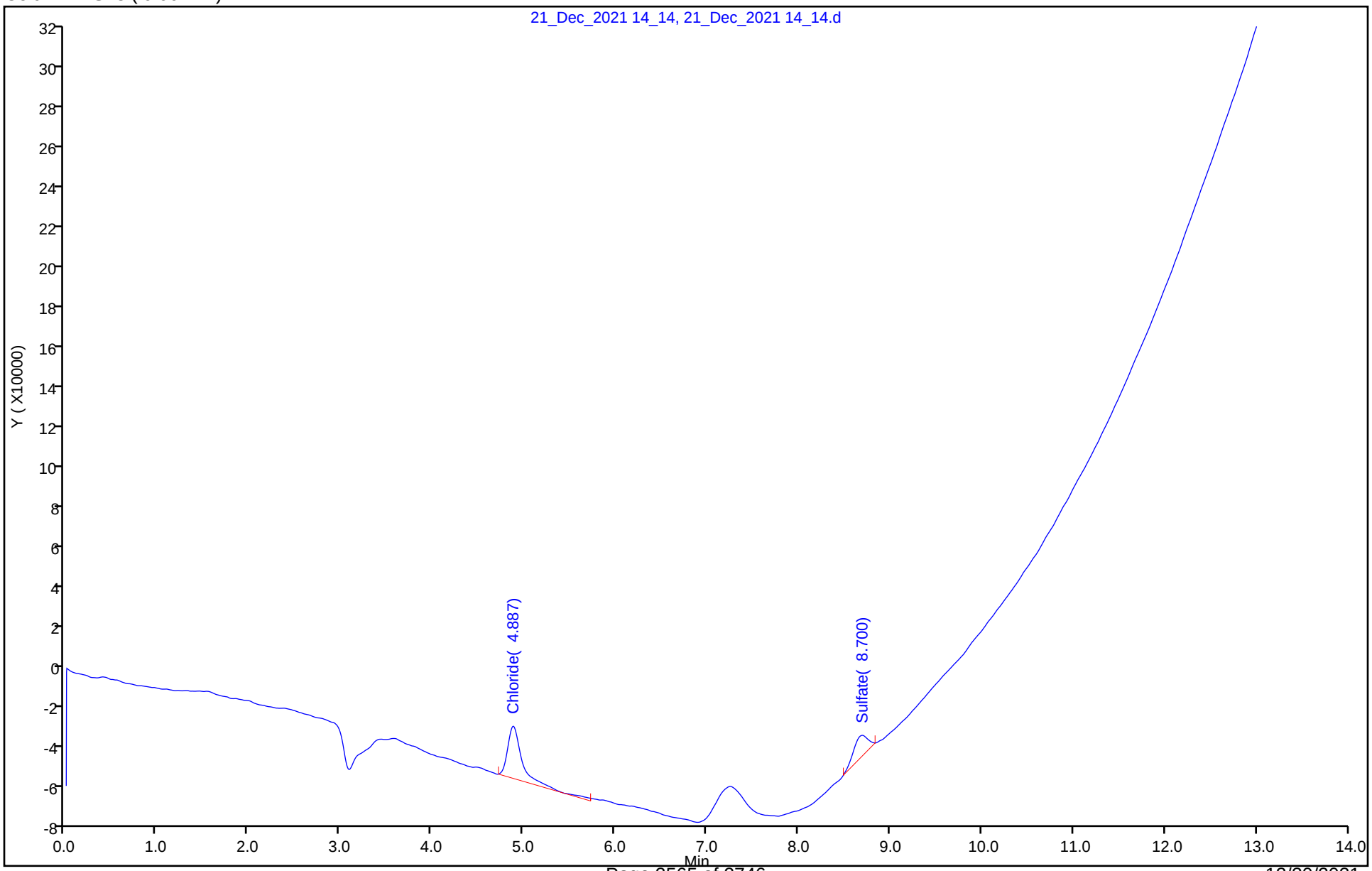
Report Date: 22-Dec-2021 12:34:43 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 14_14.d

Injection Date:	21-Dec-2021 14:14:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 14_33.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 21-Dec-2021 14:33:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103193-004
Operator ID: Instrument ID: IC-5

Method: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 22-Dec-2021 12:34:43 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1674

First Level Reviewer: zahniseri Date: 21-Dec-2021 17:44:07

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.403	3.410	-0.007	141031425	5.00	4.92	
2 Chloride						
4.873	4.883	-0.010	872847976	50.0	49.1	
3 Nitrite as N						
5.887	5.897	-0.010	185959161	NC	NC	
4 Bromide						
7.993	8.003	-0.010	35296420	5.00	4.83	
5 Sulfate						
8.523	8.543	-0.020	645733759	50.0	49.1	
6 Nitrate as N						
9.177	9.197	-0.020	221671310	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00396 Amount Added: 5.00 Units: mL

Report Date: 22-Dec-2021 12:34:44 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 14_33.d

Injection Date: 21-Dec-2021 14:33:00 Instrument ID: IC-5 Operator ID:

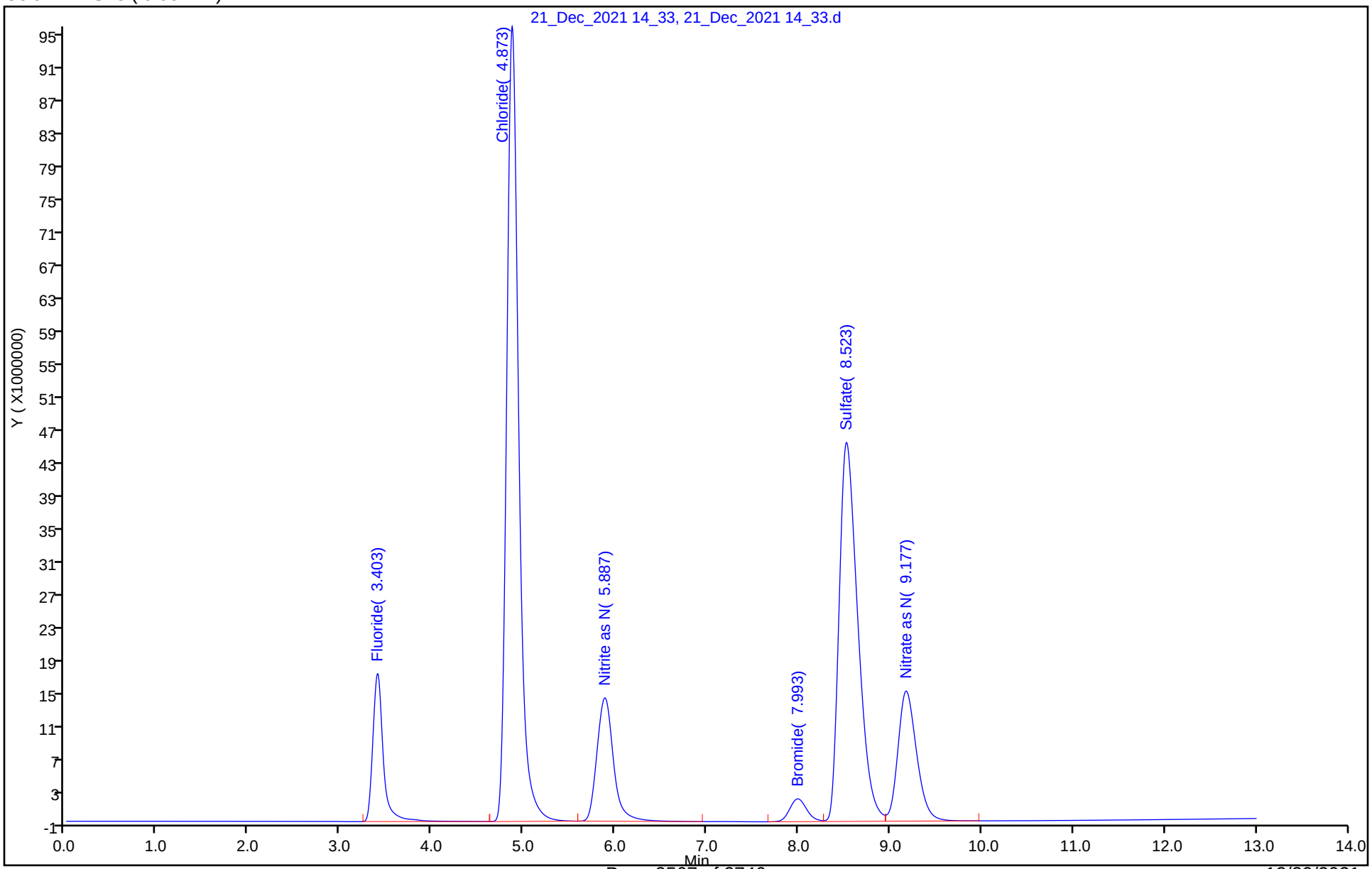
Lims ID: LCS Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: IC5-300 Limit Group: MB 300.0_28D ICAL

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 14_52.d				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	21-Dec-2021 14:52:00	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103193-005				
Operator ID:		Instrument ID:	IC-5		
Method:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	22-Dec-2021 12:34:43	Calib Date:	16-Dec-2021 13:52:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1674				

First Level Reviewer: zahniseri Date: 22-Dec-2021 12:31:20

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.883	4.883	0.000	179786		0.0316	

QC Flag Legend

Processing Flags

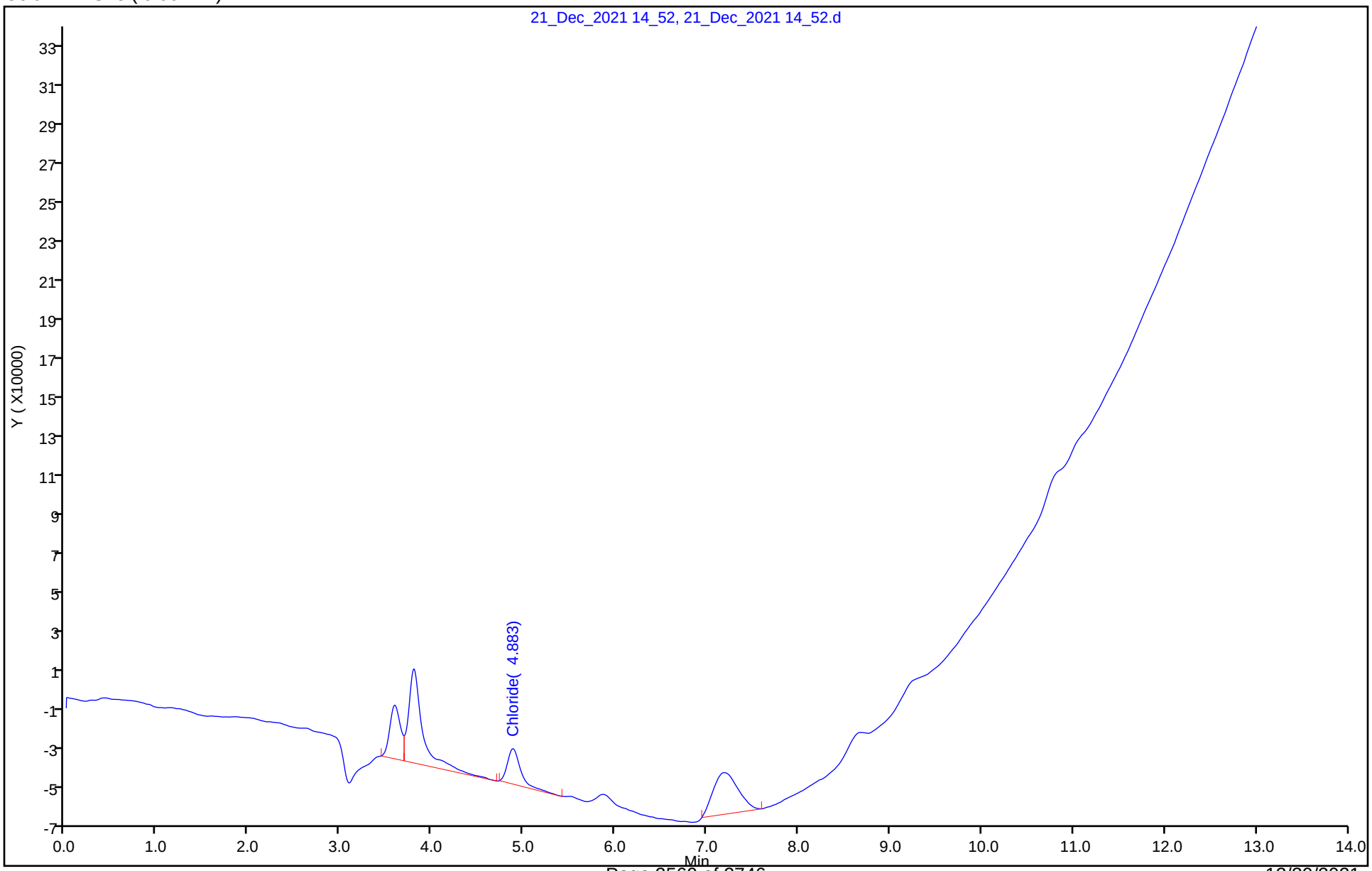
Report Date: 22-Dec-2021 12:34:45 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 14_52.d

Injection Date:	21-Dec-2021 14:52:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 16_46.d				
Lims ID:	480-193436-L-2				
Client ID:	MW-3A				
Sample Type:	Client				
Inject. Date:	21-Dec-2021 16:46:00	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103193-011				
Operator ID:		Instrument ID:	IC-5		
Method:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	22-Dec-2021 12:34:43	Calib Date:	16-Dec-2021 13:52:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1674				
First Level Reviewer: zahniseri		Date:	22-Dec-2021 12:31:43		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
1 Fluoride					
3.393	3.410	-0.017	1114721	0.0346	
2 Chloride					
4.883	4.883	0.000	8432823	0.4959	
5 Sulfate					
8.623	8.543	0.080	19441691	1.49	

QC Flag Legend

Processing Flags

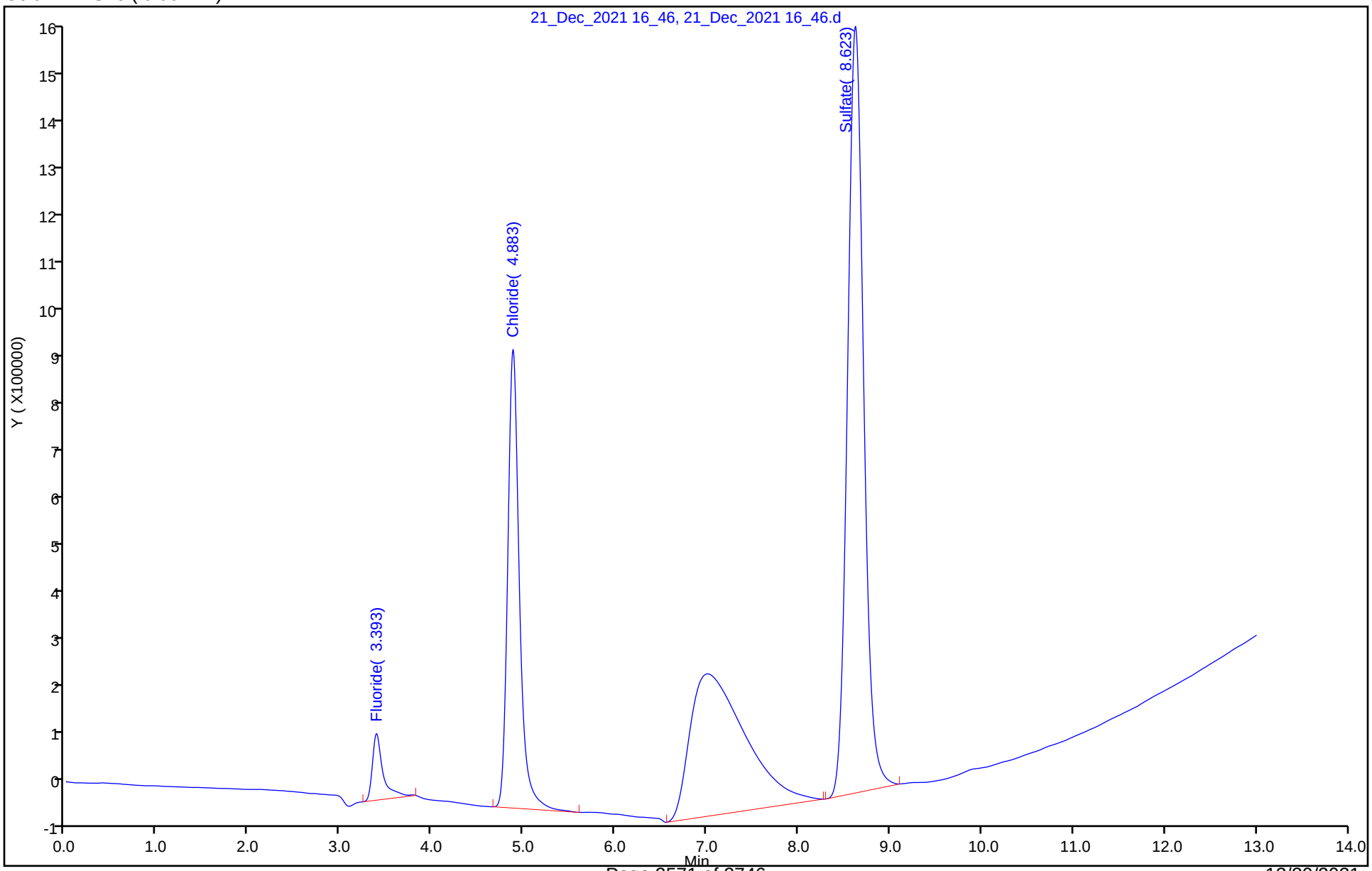
Report Date: 22-Dec-2021 12:34:46 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 16_46.d

Injection Date:	21-Dec-2021 16:46:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	480-193436-L-2	Lab Sample ID:	480-193436-2	Worklist Smp#:	11
Client ID:	MW-3A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 17_05.d
Lims ID: 480-193436-L-2 MS
Client ID:
Sample Type: MS
Inject. Date: 21-Dec-2021 17:05:00 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103193-012
Operator ID: Instrument ID: IC-5

Method: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 22-Dec-2021 12:34:43 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1674

First Level Reviewer: zahniseri Date: 22-Dec-2021 12:31:47

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.407	3.410	-0.003	136812448	5.00	4.77	
2 Chloride						
4.877	4.883	-0.006	852426468	50.0	48.0	
3 Nitrite as N						
5.870	5.897	-0.027	180830953	NC	NC	
4 Bromide						
7.997	8.003	-0.006	32780232	5.00	4.49	
5 Sulfate						
8.520	8.543	-0.023	642482191	50.0	48.8	
6 Nitrate as N						
9.180	9.197	-0.017	212633729	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 50.00 Units: uL

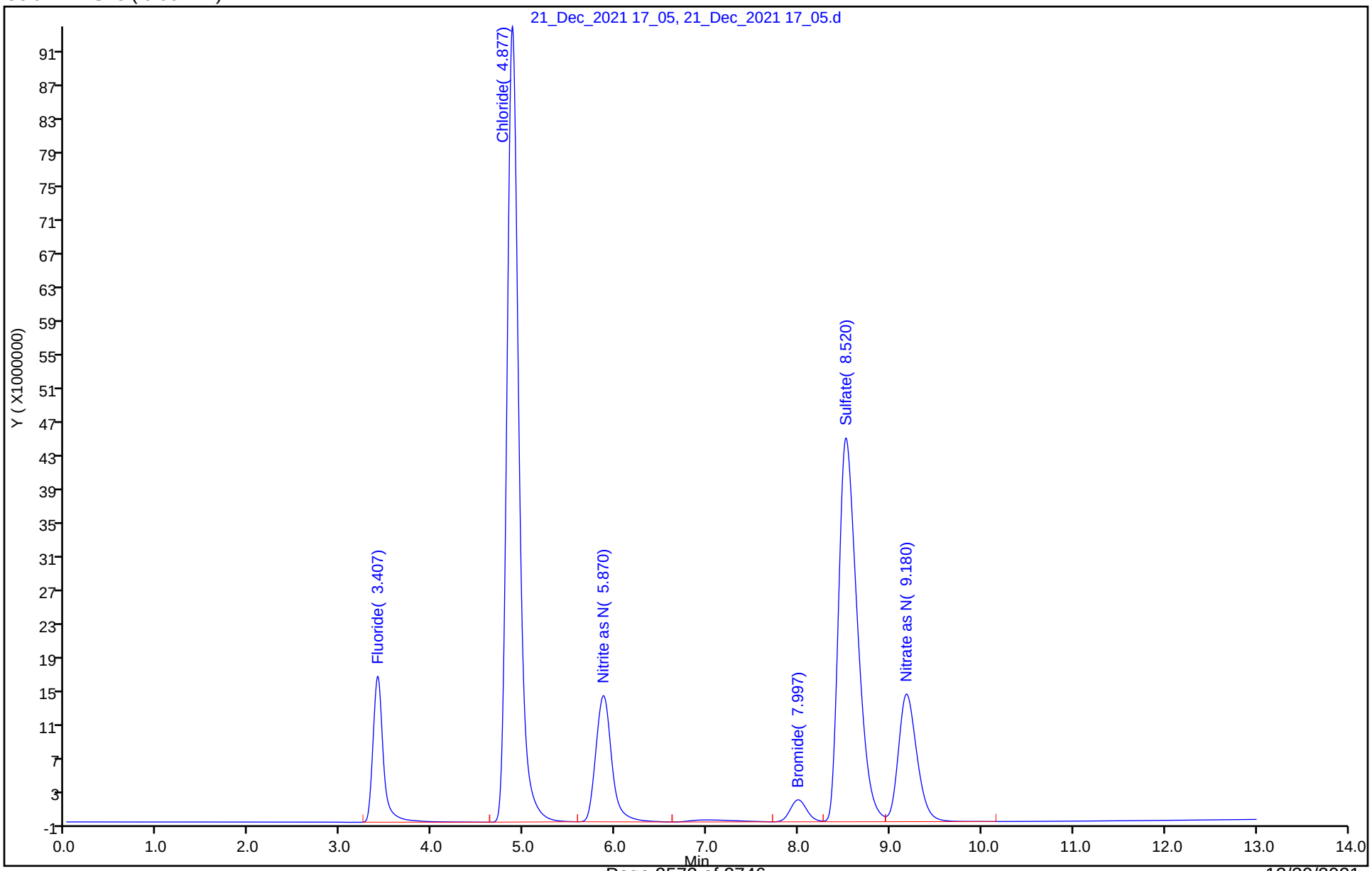
Report Date: 22-Dec-2021 12:34:47 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 17_05.d

Injection Date:	21-Dec-2021 17:05:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	480-193436-L-2 MS			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 17_24.d
Lims ID: 480-193436-L-2 MSD
Client ID:
Sample Type: MSD
Inject. Date: 21-Dec-2021 17:24:00 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103193-013
Operator ID: Instrument ID: IC-5

Method: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 22-Dec-2021 12:34:43 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1674

First Level Reviewer: zahniseri Date: 22-Dec-2021 12:31:51

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.407	3.410	-0.003	137221014	5.00	4.79	
2 Chloride						
4.877	4.883	-0.006	853263168	50.0	48.0	
3 Nitrite as N						
5.873	5.897	-0.024	181251078	NC	NC	
4 Bromide						
7.997	8.003	-0.006	32690505	5.00	4.47	
5 Sulfate						
8.520	8.543	-0.023	642795202	50.0	48.9	
6 Nitrate as N						
9.183	9.197	-0.014	212538145	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_6ANION_STD_00003 Amount Added: 50.00 Units: uL

Report Date: 22-Dec-2021 12:34:47 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 17_24.d

Injection Date: 21-Dec-2021 17:24:00 Instrument ID: IC-5 Operator ID:

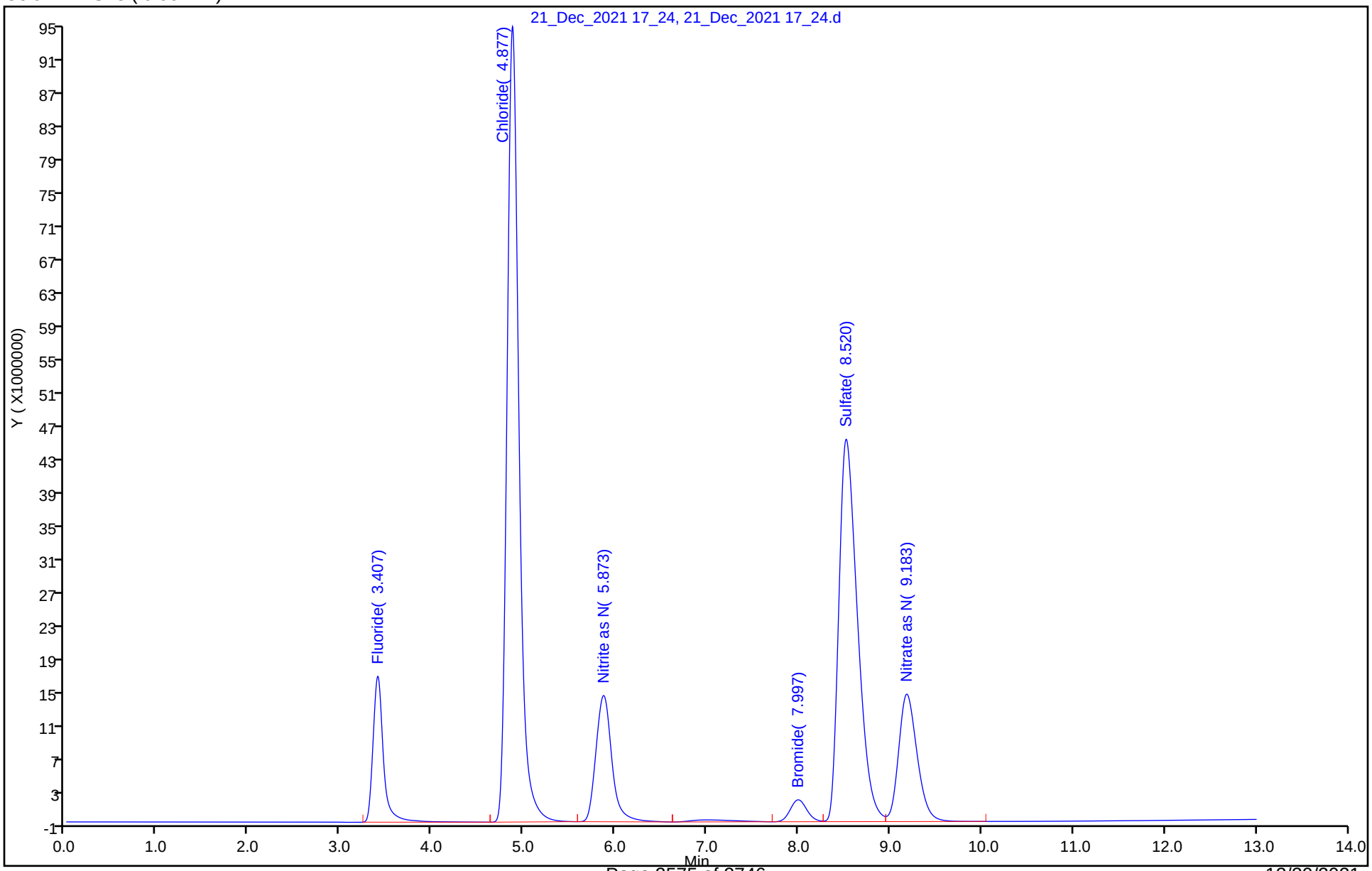
Lims ID: 480-193436-L-2 MSD Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: IC5-300 Limit Group: MB 300.0_28D ICAL

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 17_43.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Dec-2021 17:43:00 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103193-014
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 22-Dec-2021 12:34:47 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1674

First Level Reviewer: zahniseri Date: 22-Dec-2021 12:31:58

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.407	3.407	0.000	141567095	5.00	4.94	
2 Chloride						
4.880	4.880	0.000	878740197	50.0	49.5	
3 Nitrite as N						
5.893	5.893	0.000	188555531	NC	NC	
4 Bromide						
7.997	7.997	0.000	35687992	5.00	4.88	
5 Sulfate						
8.523	8.523	0.000	649887694	50.0	49.4	
6 Nitrate as N						
9.180	9.180	0.000	222910159	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00396 Amount Added: 5.00 Units: mL

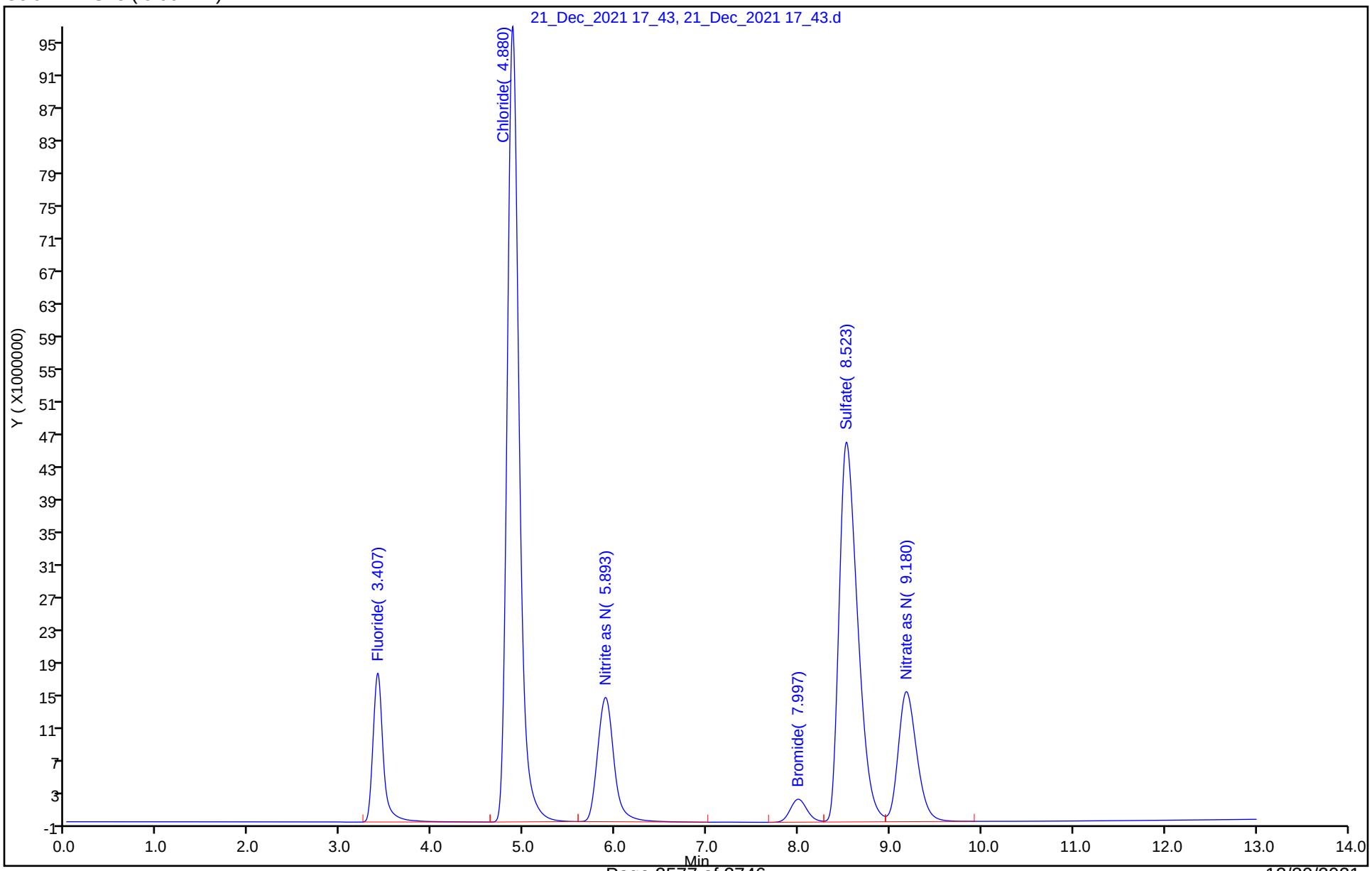
Report Date: 22-Dec-2021 12:34:48 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 17_43.d

Injection Date:	21-Dec-2021 17:43:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 18_02.d				
Lims ID:	CCB				
Client ID:					
Sample Type:	CCB				
Inject. Date:	21-Dec-2021 18:02:00	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103193-015				
Operator ID:		Instrument ID:	IC-5		
Method:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	22-Dec-2021 12:34:47	Calib Date:	16-Dec-2021 13:52:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1674				

First Level Reviewer: zahniseri Date: 22-Dec-2021 12:32:01

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.887	4.880	0.007	269297		0.0367	
5 Sulfate						
8.677	8.523	0.154	151743		0.0237	

QC Flag Legend

Processing Flags

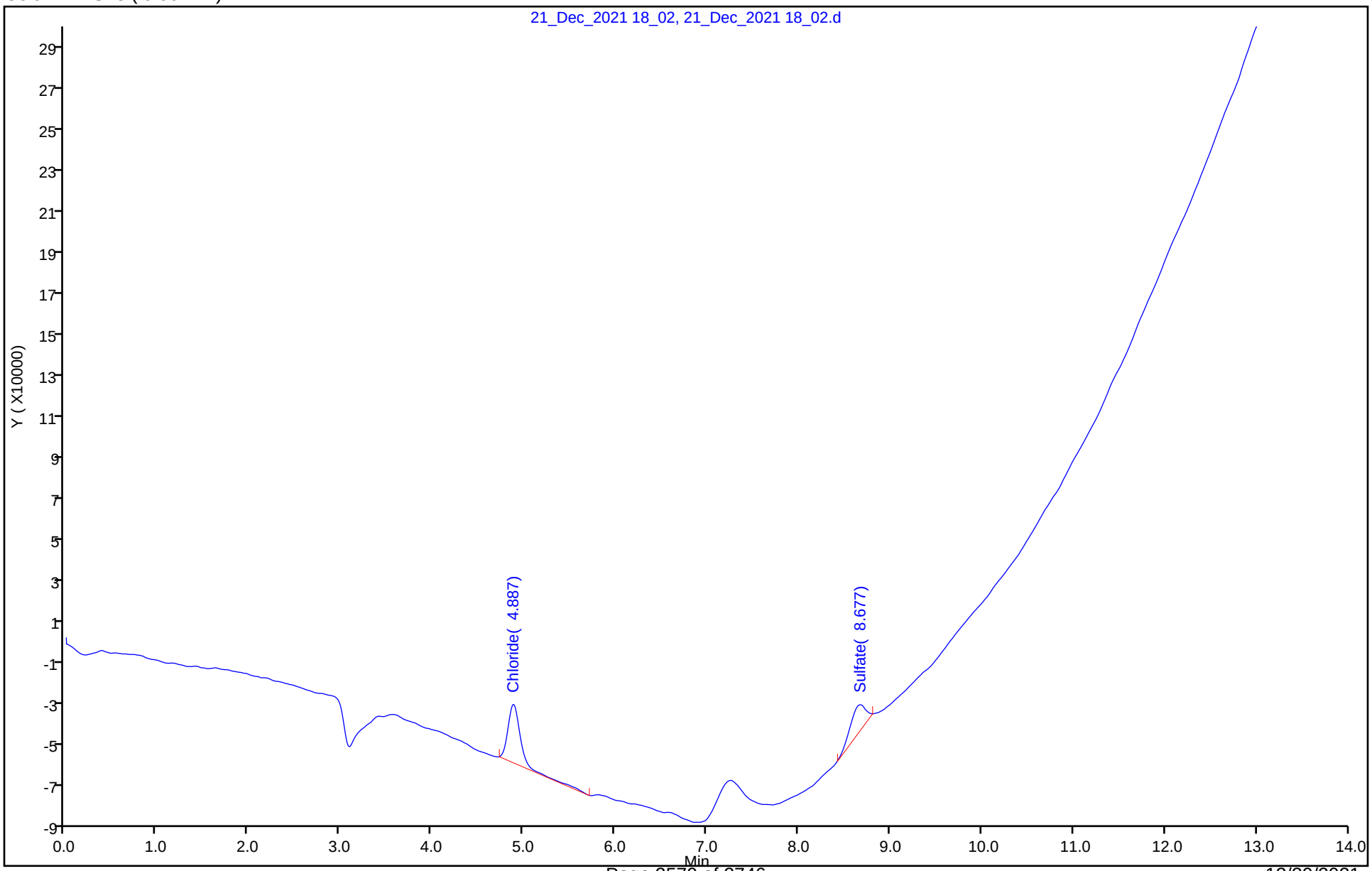
Report Date: 22-Dec-2021 12:34:48 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 18_02.d

Injection Date:	21-Dec-2021 18:02:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 18_21.d				
Lims ID:	480-193436-L-3				
Client ID:	MW-3B				
Sample Type:	Client				
Inject. Date:	21-Dec-2021 18:21:00	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103193-016				
Operator ID:		Instrument ID:	IC-5		
Method:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	22-Dec-2021 12:34:47	Calib Date:	16-Dec-2021 13:52:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1674				

First Level Reviewer: zahniseri Date: 22-Dec-2021 12:32:05

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
4 Bromide					
8.023	7.997	0.026	907764	0.1374	

QC Flag Legend

Processing Flags

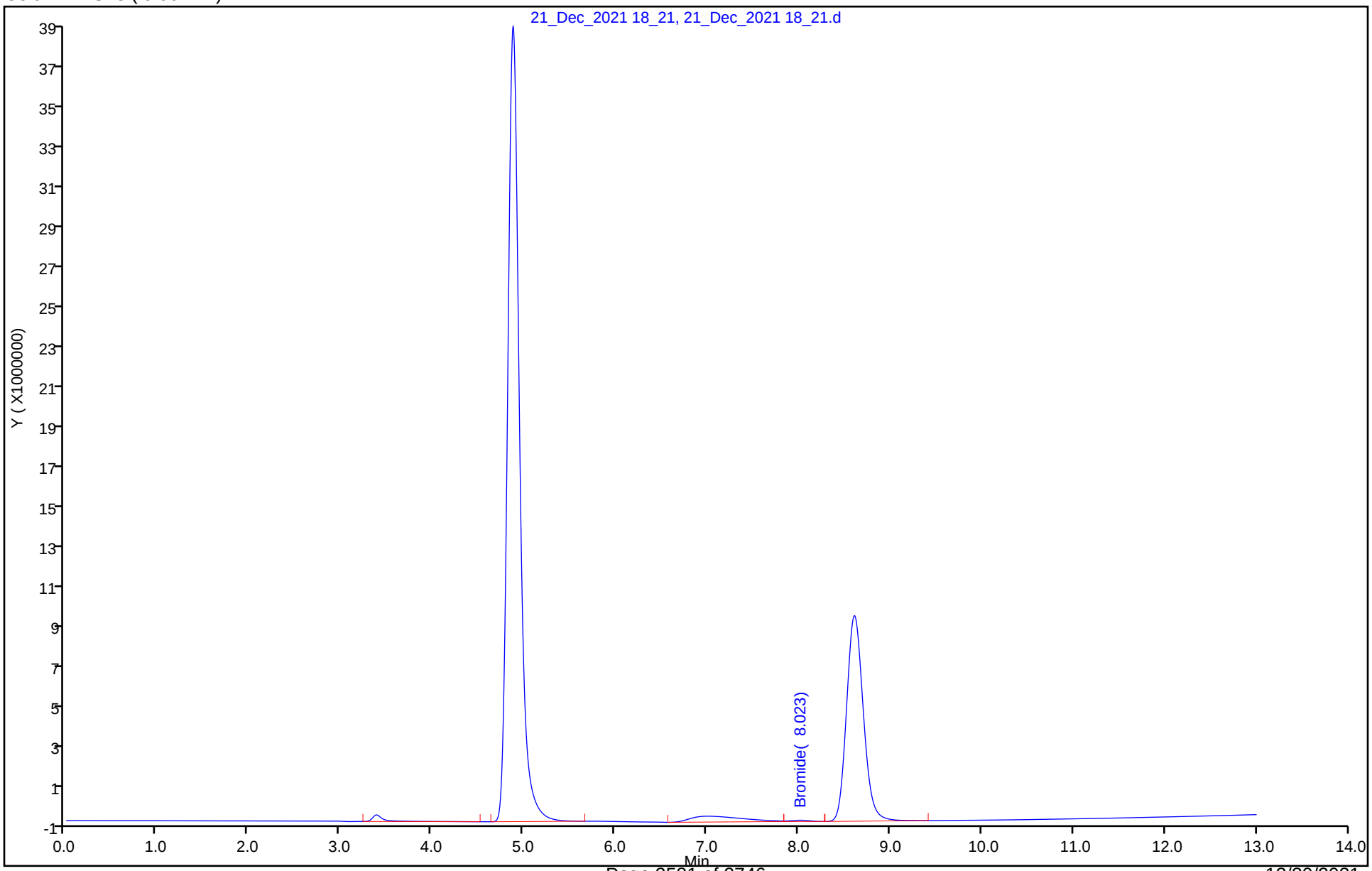
Report Date: 22-Dec-2021 12:34:49 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 18_21.d

Injection Date:	21-Dec-2021 18:21:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	480-193436-L-3	Lab Sample ID:	480-193436-3	Worklist Smp#:	16
Client ID:	MW-3B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 18_40.d				
Lims ID:	480-193436-L-4				
Client ID:	MW-4A				
Sample Type:	Client				
Inject. Date:	21-Dec-2021 18:40:00	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	480-0103193-017				
Operator ID:		Instrument ID:	IC-5		
Method:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	22-Dec-2021 12:34:47	Calib Date:	16-Dec-2021 13:52:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1674				
First Level Reviewer: zahniseri		Date:	22-Dec-2021 12:32:08		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

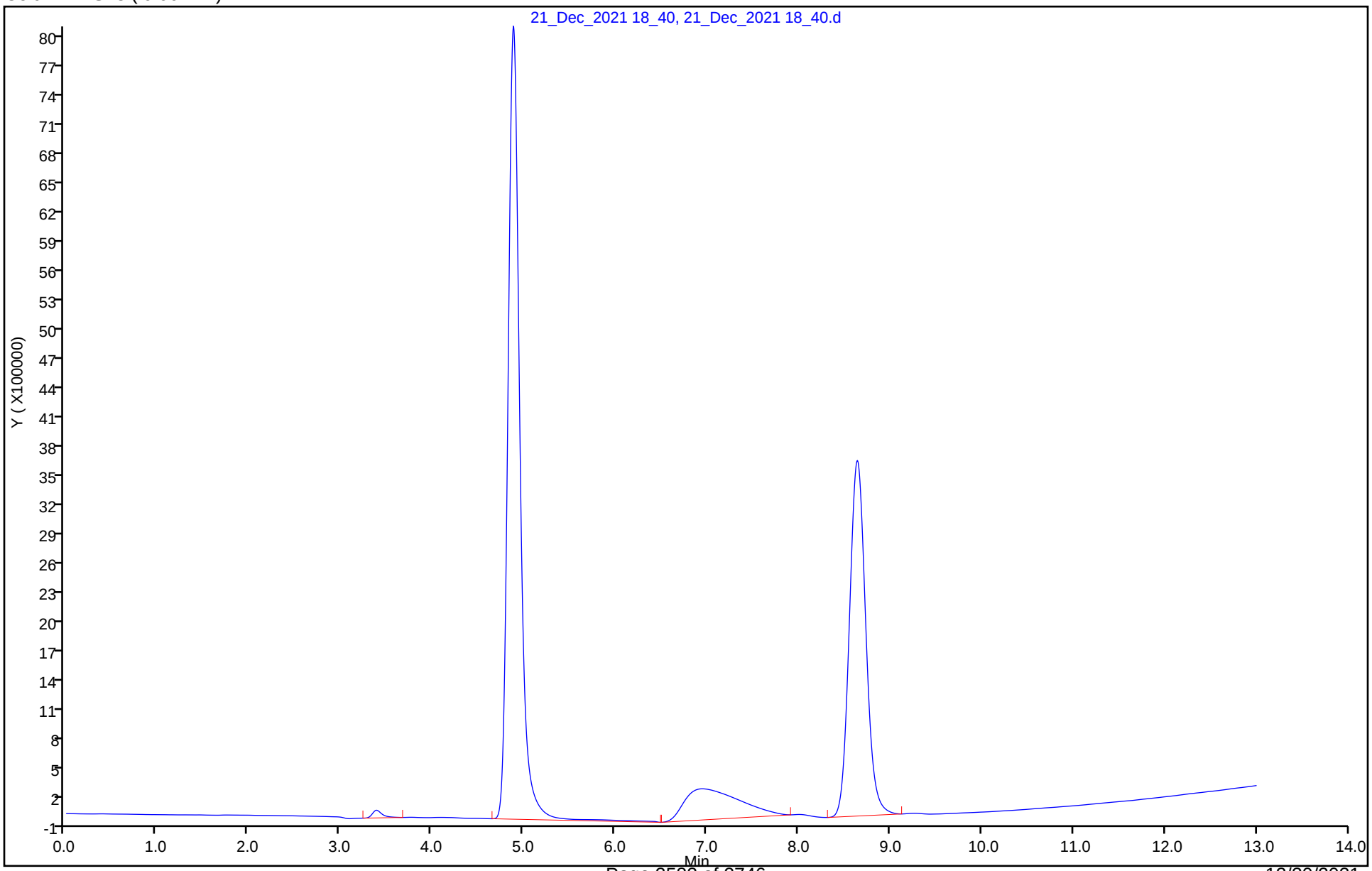
Report Date: 22-Dec-2021 12:34:49 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 18_40.d

Injection Date:	21-Dec-2021 18:40:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	480-193436-L-4	Lab Sample ID:	480-193436-4	Worklist Smp#:	17
Client ID:	MW-4A				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 18_59.d				
Lims ID:	480-193436-L-5				
Client ID:	MW-5A				
Sample Type:	Client				
Inject. Date:	21-Dec-2021 18:59:00	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103193-018				
Operator ID:		Instrument ID:	IC-5		
Method:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	22-Dec-2021 12:34:47	Calib Date:	16-Dec-2021 13:52:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1674				
First Level Reviewer: zahniseri		Date:	22-Dec-2021 12:32:11		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

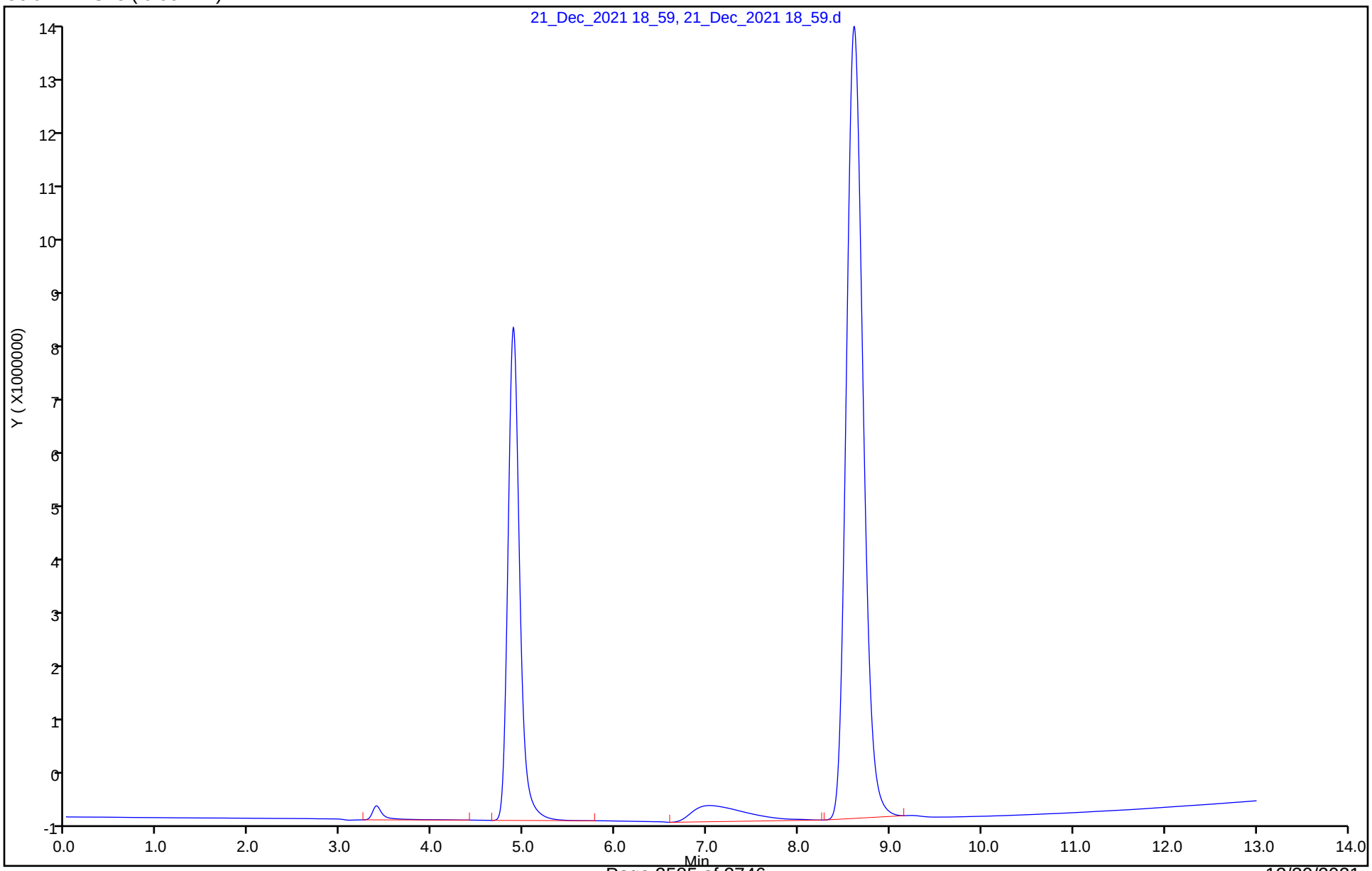
Report Date: 22-Dec-2021 12:34:49 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 18_59.d

Injection Date:	21-Dec-2021 18:59:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	480-193436-L-5	Lab Sample ID:	480-193436-5	Worklist Smp#:	18
Client ID:	MW-5A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 19_18.d				
Lims ID:	480-193436-L-6				
Client ID:	MW-6A				
Sample Type:	Client				
Inject. Date:	21-Dec-2021 19:18:00	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103193-019				
Operator ID:		Instrument ID:	IC-5		
Method:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	22-Dec-2021 12:34:47	Calib Date:	16-Dec-2021 13:52:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1674				
First Level Reviewer: zahniseri		Date:	22-Dec-2021 12:32:14		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

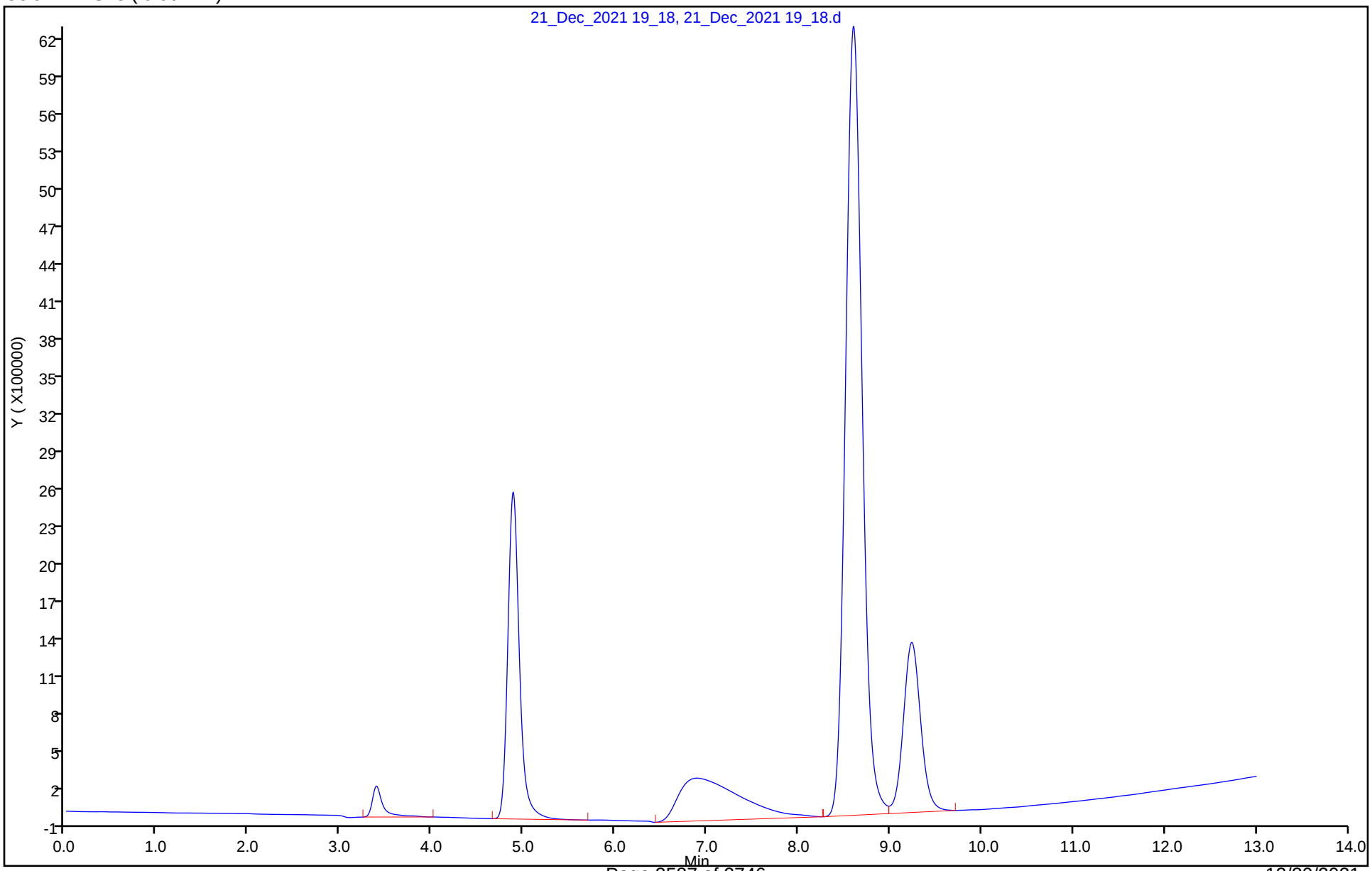
Report Date: 22-Dec-2021 12:34:50 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 19_18.d

Injection Date:	21-Dec-2021 19:18:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	480-193436-L-6	Lab Sample ID:	480-193436-6	Worklist Smp#:	19
Client ID:	MW-6A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 19_37.d				
Lims ID:	480-193436-L-7				
Client ID:	MW-6B				
Sample Type:	Client				
Inject. Date:	21-Dec-2021 19:37:00	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103193-020				
Operator ID:		Instrument ID:	IC-5		
Method:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	22-Dec-2021 12:34:47	Calib Date:	16-Dec-2021 13:52:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1674				
First Level Reviewer: zahniseri		Date:	22-Dec-2021 12:32:17		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

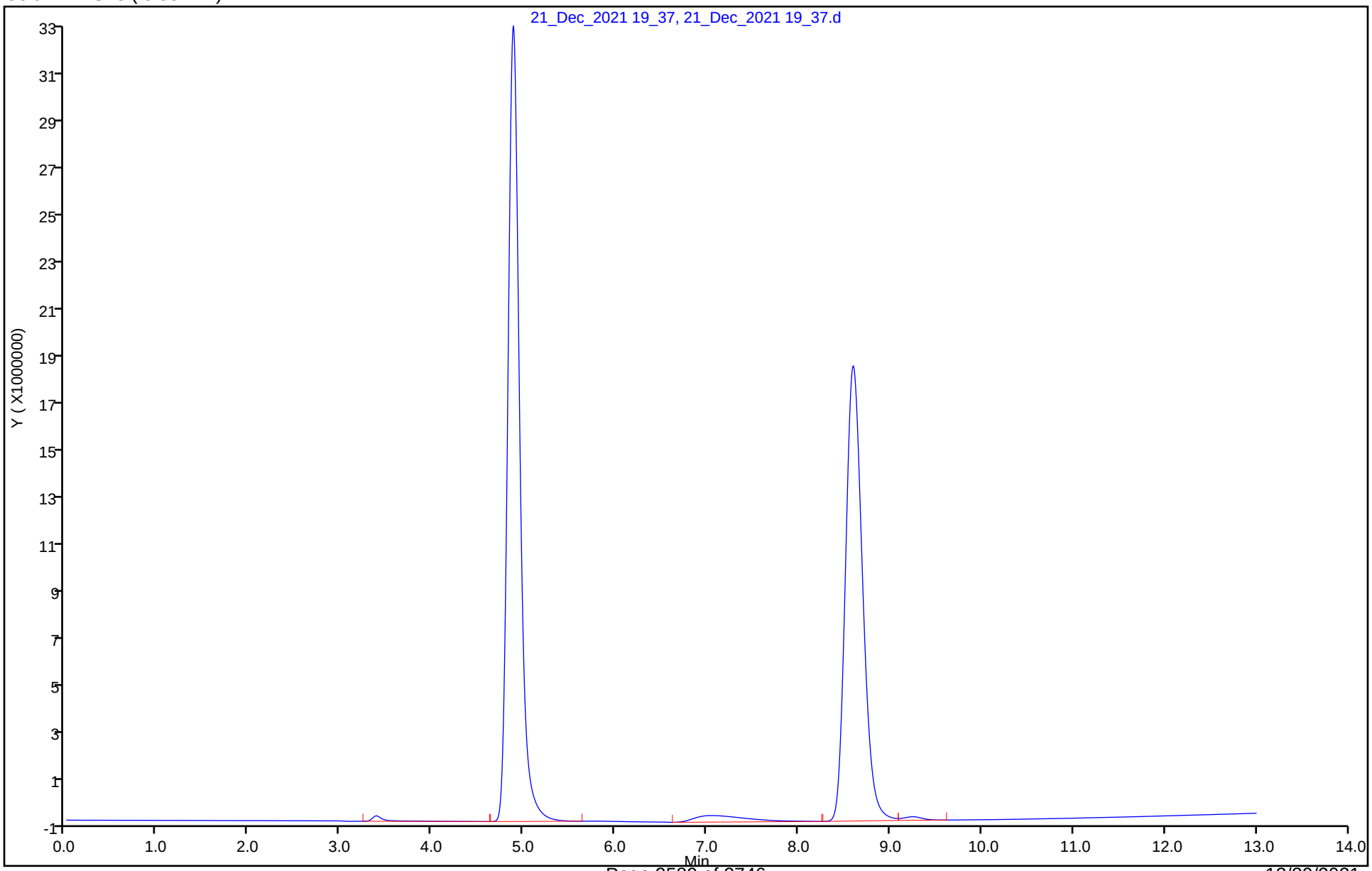
Report Date: 22-Dec-2021 12:34:50 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 19_37.d

Injection Date:	21-Dec-2021 19:37:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	480-193436-L-7	Lab Sample ID:	480-193436-7	Worklist Smp#:	20
Client ID:	MW-6B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 19_56.d				
Lims ID:	480-193436-L-8				
Client ID:	MW-7A				
Sample Type:	Client				
Inject. Date:	21-Dec-2021 19:56:00	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	2.0000		
Sample Info:	480-0103193-021				
Operator ID:		Instrument ID:	IC-5		
Method:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	22-Dec-2021 12:34:47	Calib Date:	16-Dec-2021 13:52:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1674				
First Level Reviewer: zahniseri		Date:	22-Dec-2021 12:32:20		

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

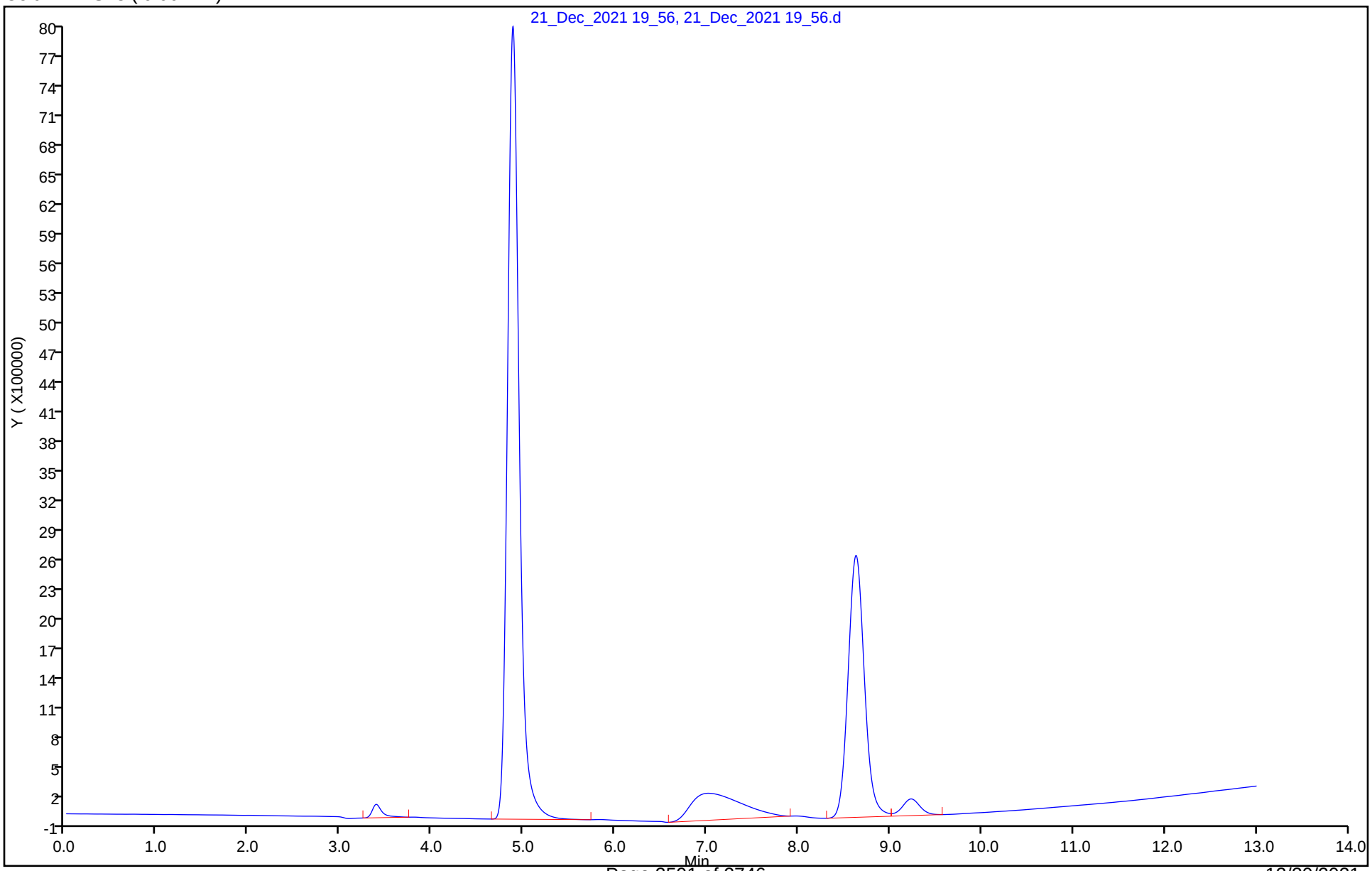
Report Date: 22-Dec-2021 12:34:50 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 19_56.d

Injection Date:	21-Dec-2021 19:56:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	480-193436-L-8	Lab Sample ID:	480-193436-8	Worklist Smp#:	21
Client ID:	MW-7A				
Injection Vol:	1.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 21_31.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Dec-2021 21:31:00 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0103193-026
Operator ID: Instrument ID: IC-5
Sublist: chrom-IC5-300*sub2

Method: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m
Limit Group: MB 300.0_28D ICAL
Last Update: 22-Dec-2021 12:34:52 Calib Date: 16-Dec-2021 13:52:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d

Column 1 : AS18 (0.00 mm) Det: Ch-A-092410-2
Process Host: CTX1674

First Level Reviewer: zahniseri Date: 22-Dec-2021 12:32:44

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						
3.410	3.410	0.000	142080151	5.00	4.96	
2 Chloride						
4.883	4.883	0.000	880165830	50.0	49.5	
3 Nitrite as N						
5.900	5.900	0.000	189072598	NC	NC	
4 Bromide						
8.010	8.010	0.000	35912128	5.00	4.91	
5 Sulfate						
8.537	8.537	0.000	651299230	50.0	49.5	
6 Nitrate as N						
9.197	9.197	0.000	223024715	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

IC_ANION_LCS__00396 Amount Added: 5.00 Units: mL

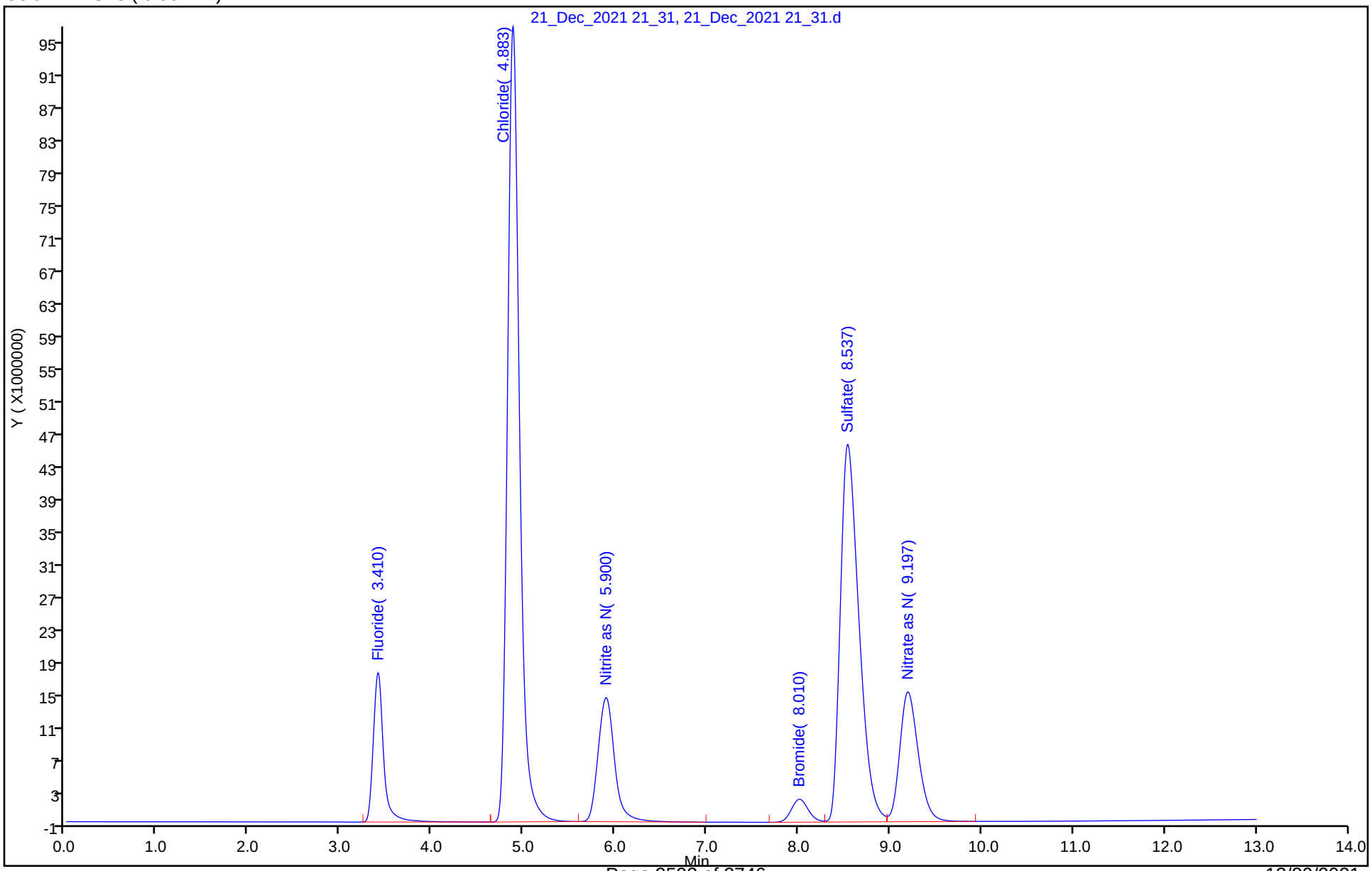
Report Date: 22-Dec-2021 12:34:52 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 21_31.d

Injection Date:	21-Dec-2021 21:31:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 21_50.d				
Lims ID:	CCB				
Client ID:					
Sample Type:	CCB				
Inject. Date:	21-Dec-2021 21:50:00	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	480-0103193-027				
Operator ID:		Instrument ID:	IC-5		
Method:	\\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\IC5-300.m				
Limit Group:	MB 300.0_28D ICAL				
Last Update:	22-Dec-2021 12:34:52	Calib Date:	16-Dec-2021 13:52:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\IC-5\20211216-103105.b\16_Dec_2021 13_52.d				
Column 1 :	AS18 (0.00 mm)		Det: Ch-A-092410-2		
Process Host:	CTX1674				

First Level Reviewer: zahniseri Date: 22-Dec-2021 12:32:47

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						
4.890	4.883	0.007	269289		0.0367	
5 Sulfate						
8.693	8.537	0.156	111572		0.0206	

QC Flag Legend

Processing Flags

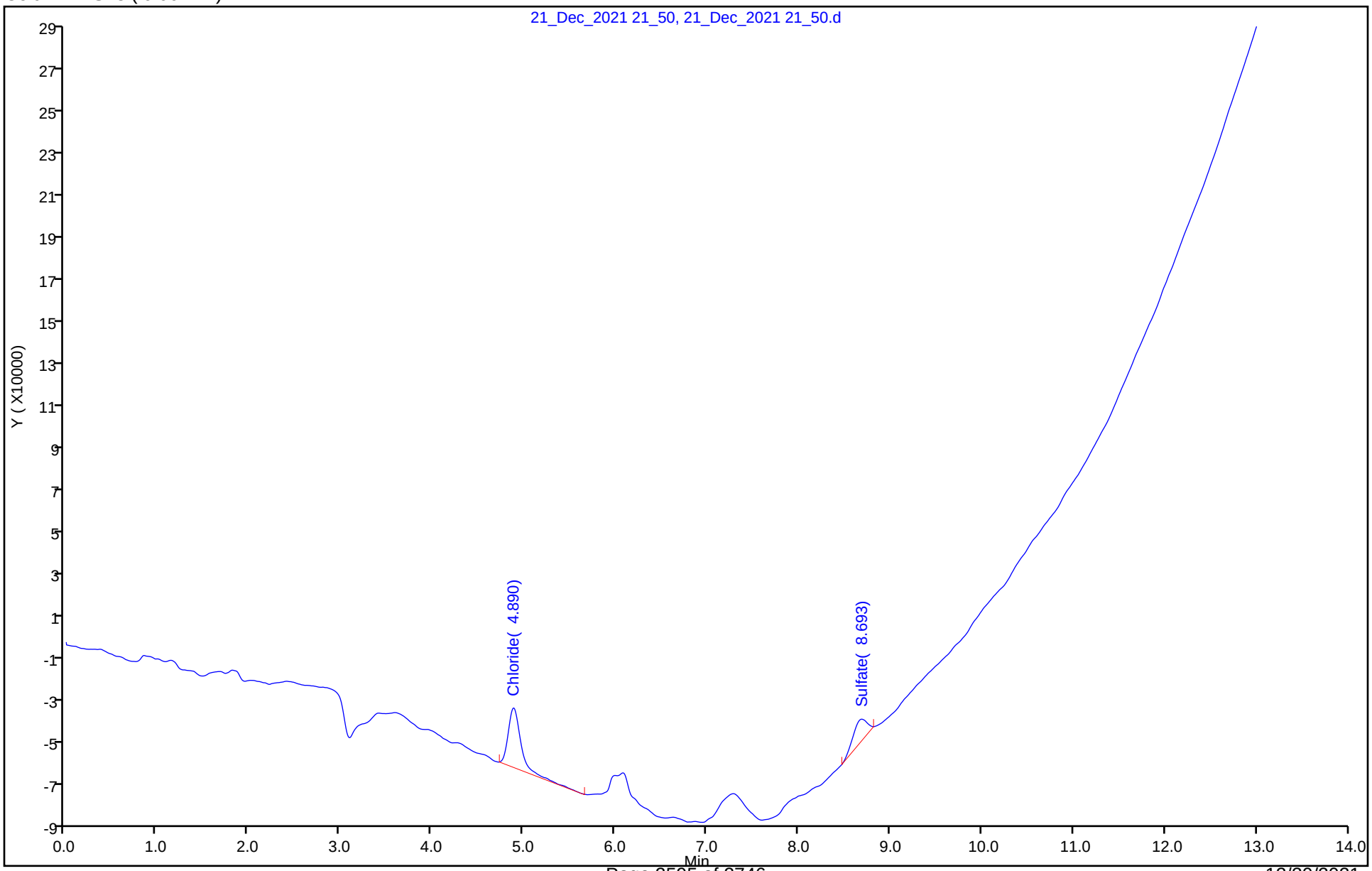
Report Date: 22-Dec-2021 12:34:52 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\IC-5\20211221-103193.b\21_Dec_2021 21_50.d

Injection Date:	21-Dec-2021 21:50:00	Instrument ID:	IC-5	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IC5-300	Limit Group:	MB 300.0_28D ICAL		

Column: AS18 (0.00 mm)



Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

Solutions

Nitrate, NO3/NO2 1000mg/L STD:	(CAL)	6158428	Exp. 02/10/2022
Nitrate 1000mg/L STD	(CCV/LCS/ICV)	6508627	Exp. 10/31/2022
Nitrite 1000mg/L STD	(CAL)	6342075	Exp. 10/21/2022
Nitrite 1000mg/L STD	(CCV/LCS/ICV)	6125836	Exp. 03/12/2022
Nitrate, Nitrate/Nitrite Int STD (MS)		6815460	Exp. 12/21/2021
Nitrite Int STD(MS)		6815461	Exp. 12/21/2021
Nitrate 1.5ppm CCV/ICV/LCS		6819145	Exp. 12/16/2021
Nitrite 1.5ppm CCV/ICV/LCS		6819146	Exp. 12/16/2021
Ammonium Chloride Buffer		6814083	Exp. 01/13/2022
Color Reagent		6814084	Exp. 01/13/2022
1:4 Ammonium Hydroxide		6791433	Exp. 04/22/2022

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
(1.35 mg/L –1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L
MS/MSD = 1.0mg/L
Control Limits = 90-110%
RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:
3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with Di water
2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
.5ppm –5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up to 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:
3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with Di water
2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
.5ppm –5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up too 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples CSS

Historical Data Summary Report

For Batch 609048

609048

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193422-B-1	303AR	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.492	☐	0 - 0.36
480-193422-B-10	336	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193422-B-11	337	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	0.47	☐	0 - 1.721	☐	0 - 1.32
480-193422-B-12	338	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.093	☐	0 - 0.078
480-193422-B-2	304R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.439	☐	0 - 0.396
480-193422-B-3	305R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.087	☐	0 - 0.094
480-193422-B-4	326R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	0.14	☐	0.011 - 0.16	☐	0.04 - 0.144
480-193422-B-5	327	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	0.13	☐	0.098 - 0.187	☐	0.096 - 0.192
480-193422-B-6 ^10	328	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	100.0	85.4	☑	85.789 - 130.586	☐	79.6 - 148.8
480-193422-B-7	333R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.548	☐	0 - 0.36
480-193422-B-8	334R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193422-B-9	335	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.145	☐	0 - 0.156
480-193435-N-1	DUP 1	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	0.28	☐	0 - 10.807	☐	0 - 11.52
480-193436-I-2	MW-3A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.08	☐	0 - 0.086
480-193436-I-3	MW-3B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.13	☐	0 - 0.104
480-193436-I-5	MW-5A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.221	☐	0 - 0.168
480-193436-I-8	MW-7A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.12	☐	0 - 0.286	☐	0 - 0.264
480-193436-J-4	MW-4A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.088	☐	0 - 0.071
480-193436-J-6	MW-6A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.43	☐	0 - 1.016	☐	0 - 0.732
480-193436-J-7	MW-6B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.063	☐	0 - 0.176	☐	0 - 0.168
480-193444-G-3	DUP-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.29	☑	0 - 0.261	☑	0 - 0.252 OK
480-193444-G-4	SW-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.23	☐	0 - 0.785	☐	0.088 - 0.756
480-193467-H-1	01FB	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-H-2	YSC01	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.087	☐	0 - 0.067
480-193467-H-3	YSC02	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.11	☐	0 - 0.085
480-193467-H-4	YSP03R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.073	☐	0 - 0.119	☐	0 - 0.092
480-193467-H-5	YSP05	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.11	☐	0.057 - 0.238	☐	0.088 - 0.228
480-193467-H-6	YSP08	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	2.7	☑	1.933 - 2.667	☐	1.76 - 3
480-193467-H-7	YSP09	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.35	☐	0.23 - 0.585	☐	0.248 - 0.552
480-193481-C-1	MH8L-MLD	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	0.40	☐	0 - 79.302	☐	0 - 85.2
480-193482-C-1	172R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	0.24	☐	0.127 - 0.423	☐	0.136 - 0.396
480-193482-C-2	413R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	0.26	☐	0.02 - 0.395	☐	0.088 - 0.396
480-193482-C-3	173R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-C-4	171R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	0.070	☐	0 - 0.137	☐	0 - 0.115
480-193482-C-5	169RR	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	0.22	☐	0.106 - 0.281	☐	0.104 - 0.276
480-193482-C-6	170R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-C-7	302R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	0.20	☐	0.039 - 0.222	☐	0.074 - 0.216
480-193482-C-8	301RR	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-C-9	300R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0.075	☐	0 - 0.08

Author: BufLachat3

NO3

Date : 12/15/2021

Original Run Filename: OM_12-15-2021_05-03-08PM.OMN Created: 12/15/2021 5:03:08 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_12-15-2021_05-03-08PM.OMN Last Modified: 12/15/2021 7:53:58 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

609648

Sample	Rep.	Cup No.	Channel 1 Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
NO2	1	S11	1.55	4.11	0.395	12/15/2021@5:04:09 PM
Calibration:			Table/Fig. : 1			
CCV	1	S9	1.50	4.00	0.385	12/15/2021@5:05:31 PM
Known Conc:			1.50			
CCB	1	S10	4.65e-3	0.0246	1.41e-3	12/15/2021@5:06:54 PM
Known Conc:			0.00			
MB	1	S10	3.02e-3	0.0203	1.35e-3	12/15/2021@5:08:16 PM
Known Conc:			0.00			
LCS	1	S9	1.49	3.96	0.382	12/15/2021@5:09:38 PM
Known Conc:			1.50			
480-193422-B-1	1	1	5.76e-3	0.0276	1.92e-3	12/15/2021@5:11:02 PM
480-193422-B-1 MS	1	2	0.955	2.54	0.242	12/15/2021@5:12:25 PM
480-193422-B-2	1	3	0.0106	0.0404	2.63e-3	12/15/2021@5:13:49 PM
480-193422-B-2 DU	1	4	0.0177	0.0593	3.91e-3	12/15/2021@5:15:12 PM
480-193422-B-3	1	5	0.0387	0.115	0.0104	12/15/2021@5:16:35 PM
480-193422-B-4	1	6	0.135	0.369	0.0342	12/15/2021@5:17:57 PM
480-193422-B-5	1	7	0.130	0.356	0.0319	12/15/2021@5:19:20 PM
480-193422-B-6^100	1	8	0.854	2.28	0.218	12/15/2021@5:20:43 PM
CCV	1	S9	1.44	3.84	0.369	12/15/2021@5:22:05 PM
Known Conc:			1.50			
CCB	1	S10	-8.40e-4	0.0101	1.45e-3	12/15/2021@5:23:27 PM
Known Conc:			0.00			
480-193422-B-7	1	9	6.83e-3	0.0304	2.48e-3	12/15/2021@5:24:50 PM
480-193422-B-7 MS	1	10	0.992	2.64	0.253	12/15/2021@5:26:12 PM
480-193422-B-8	1	11	0.0256	0.0800	5.88e-3	12/15/2021@5:27:35 PM
480-193422-B-8 DU	1	12	9.68e-3	0.0379	2.19e-3	12/15/2021@5:28:57 PM
480-193422-B-9	1	13	0.0327	0.0989	8.48e-3	12/15/2021@5:30:19 PM
480-193422-B-10	1	14	4.24e-3	0.0235	1.88e-3	12/15/2021@5:31:41 PM
480-193422-B-11	1	15	0.474	1.27	0.120	12/15/2021@5:33:02 PM
480-193422-B-12	1	16	0.0397	0.118	9.65e-3	12/15/2021@5:34:26 PM
480-193435-N-1	1	17	0.284	0.765	0.0723	12/15/2021@5:35:49 PM
480-193435-N-2	1	18	0.0420	0.124	0.0108	12/15/2021@5:37:12 PM
CCV	1	S9	1.41	3.74	0.359	12/15/2021@5:38:35 PM
Known Conc:			1.50			
CCB	1	S10	4.76e-3	0.0249	1.70e-3	12/15/2021@5:39:57 PM
Known Conc:			0.00			
MB	1	S10	7.47e-3	0.0321	1.57e-3	12/15/2021@5:41:19 PM
Known Conc:			0.00			
LCS	1	S9	1.40	3.72	0.357	12/15/2021@5:42:42 PM
Known Conc:			1.50			
480-193435-N-3	1	19	0.353	0.946	0.0887	12/15/2021@5:44:05 PM
480-193435-N-3 MS	1	20	1.22	3.24	0.309	12/15/2021@5:45:28 PM
MB 480-609031/1-A	1	21	0.0266	0.0827	6.18e-3	12/15/2021@5:46:51 PM
480-193428-A-1-A	1	22	0.0699	0.197	0.0172	12/15/2021@5:48:13 PM
480-193428-A-1-A DU	1	23	0.0672	0.190	0.0166	12/15/2021@5:49:36 PM
480-193435-M-4	1	24	0.0500	0.145	0.0135	12/15/2021@5:50:58 PM
480-193435-N-7	1	25	0.274	0.739	0.0686	12/15/2021@5:52:21 PM
480-193436-I-2	1	26	0.0165	0.0559	4.19e-3	12/15/2021@5:53:43 PM
CCV	1	S9	1.39	3.69	0.353	12/15/2021@5:55:05 PM
Known Conc:			1.50			
CCB	1	S10	-1.01e-4	0.0120	1.21e-3	12/15/2021@5:56:28 PM
Known Conc:			0.00			
480-193435-N-6	1	27	8.07e-3	0.0337	1.66e-3	12/15/2021@5:57:50 PM
480-193435-N-6 MS	1	28	0.907	2.41	0.232	12/15/2021@5:59:12 PM
480-193435-N-6 MSD	1	29	0.981	2.61	0.249	12/15/2021@6:00:33 PM
480-193436-I-3	1	30	0.0219	0.0702	3.62e-3	12/15/2021@6:01:55 PM
480-193436-J-4	1	31	0.0242	0.0765	5.26e-3	12/15/2021@6:03:19 PM
480-193436-I-5	1	32	0.0243	0.0767	7.09e-3	12/15/2021@6:04:42 PM

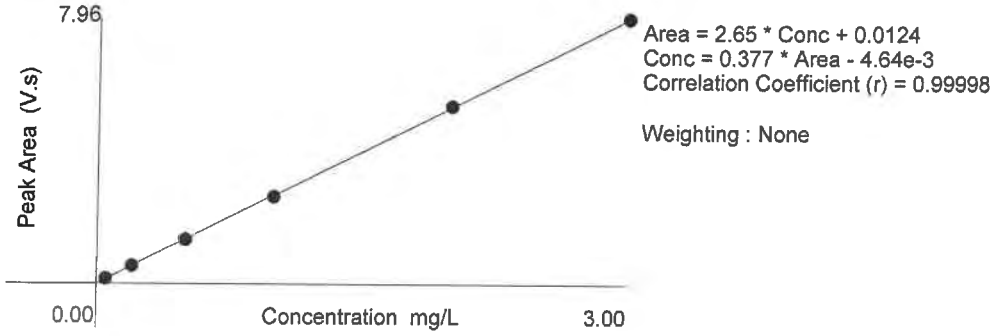
480-193436-J-6	1	33	0.433	1.16	0.109	12/15/2021@6:06:05 PM
480-193436-J-7	1	34	0.0626	0.178	0.0157	12/15/2021@6:07:28 PM
480-193436-I-8	1	35	0.123	0.339	0.0301	12/15/2021@6:08:51 PM
480-193439-G-1	1	36	1.43	3.81	0.364	12/15/2021@6:10:15 PM
CCV	1	S9	1.37	3.63	0.348	12/15/2021@6:11:36 PM
	Known Conc:		1.50			
CCB	1	S10	5.30e-3	0.0263	1.62e-3	12/15/2021@6:12:58 PM
	Known Conc:		0.00			
MB	1	S10	-7.31e-3	-7.09e-3	-1.49e-3	12/15/2021@6:14:21 PM
	Known Conc:		0.00			
LCS	1	S9	1.36	3.62	0.346	12/15/2021@6:15:43 PM
	Known Conc:		1.50			
480-193439-G-2	1	37	0.944	2.51	0.238	12/15/2021@6:17:06 PM
480-193439-G-2 MS	1	38	1.80	4.78	0.454	12/15/2021@6:18:28 PM
480-193439-G-3	1	39	1.12	2.99	0.279	12/15/2021@6:19:51 PM
480-193439-G-3 DU	1	40	1.15	3.05	0.285	12/15/2021@6:21:13 PM
480-193439-G-4	1	41	1.83	4.86	0.465	12/15/2021@6:22:36 PM
480-193439-G-5	1	42	1.31	3.49	0.333	12/15/2021@6:23:58 PM
480-193439-G-6	1	43	0.0313	0.0952	6.57e-3	12/15/2021@6:25:20 PM
480-193439-G-7	1	44	0.0160	0.0546	3.75e-3	12/15/2021@6:26:42 PM
CCV	1	S9	1.36	3.61	0.347	12/15/2021@6:28:04 PM
	Known Conc:		1.50			
CCB	1	S10	4.89e-3	0.0252	1.75e-3	12/15/2021@6:29:26 PM
	Known Conc:		0.00			
480-193439-G-8	1	45	0.449	1.20	0.0994	12/15/2021@6:30:48 PM
480-193439-G-8 MS	1	46	1.26	3.36	0.304	12/15/2021@6:32:12 PM
480-193439-G-9	1	47	7.03	18.6	1.77	12/15/2021@6:33:35 PM
480-193439-G-9 DU	1	48	7.03	18.6	1.77	12/15/2021@6:34:58 PM
480-193439-G-10	1	49	0.665	1.77	0.136	12/15/2021@6:36:22 PM
480-193439-G-11	1	50	2.86	7.60	0.727	12/15/2021@6:37:45 PM
480-193444-G-1	1	51	0.296	0.798	0.0748	12/15/2021@6:39:07 PM
480-193444-G-2	1	52	0.0862	0.241	0.0196	12/15/2021@6:40:30 PM
480-193444-G-3	1	53	0.292	0.787	0.0720	12/15/2021@6:41:53 PM
480-193444-G-4	1	54	0.228	0.616	0.0561	12/15/2021@6:43:15 PM
CCV	1	S9	1.42	3.78	0.358	12/15/2021@6:44:37 PM
	Known Conc:		1.50			
CCB	1	S10	2.04e-3	0.0177	1.27e-3	12/15/2021@6:45:59 PM
	Known Conc:		0.00			
MB	1	S10	6.41e-3	0.0293	2.02e-3	12/15/2021@6:47:22 PM
	Known Conc:		0.00			
LCS	1	S9	1.44	3.83	0.362	12/15/2021@6:48:44 PM
	Known Conc:		1.50			
480-193444-G-5	1	55	2.78	7.39	0.701	12/15/2021@6:50:07 PM
480-193444-G-5 MS	1	56	3.62	9.60	0.912	12/15/2021@6:51:29 PM
480-193444-G-6	1	57	0.128	0.353	0.0295	12/15/2021@6:52:51 PM
480-193444-G-6 DU	1	58	0.126	0.345	0.0301	12/15/2021@6:54:13 PM
480-193467-H-1	1	59	0.0149	0.0517	2.97e-3	12/15/2021@6:55:35 PM
480-193467-H-2	1	60	0.0153	0.0529	3.55e-3	12/15/2021@6:56:57 PM
480-193467-H-3	1	61	0.0415	0.122	0.0103	12/15/2021@6:58:21 PM
480-193467-H-4	1	62	0.0727	0.205	0.0179	12/15/2021@6:59:44 PM
CCV	1	S9	1.44	3.82	0.363	12/15/2021@7:01:06 PM
	Known Conc:		1.50			
CCB	1	S10	2.81e-3	0.0197	1.45e-3	12/15/2021@7:02:29 PM
	Known Conc:		0.00			
480-193467-H-5	1	63	0.111	0.307	0.0280	12/15/2021@7:03:52 PM
480-193467-H-5 MS	1	64	0.987	2.63	0.247	12/15/2021@7:05:15 PM
480-193467-H-6	1	65	2.66	7.07	0.669	12/15/2021@7:06:38 PM
480-193467-H-6 DU	1	66	2.68	7.11	0.672	12/15/2021@7:08:01 PM
480-193467-H-7	1	67	0.351	0.942	0.0875	12/15/2021@7:09:23 PM
480-193481-C-1	1	68	0.403	1.08	0.101	12/15/2021@7:10:46 PM
480-193482-C-1	1	69	0.238	0.642	0.0580	12/15/2021@7:12:08 PM
480-193482-C-2	1	70	0.257	0.694	0.0616	12/15/2021@7:13:31 PM
480-193482-C-3	1	71	0.0436	0.128	7.72e-3	12/15/2021@7:14:53 PM
480-193482-C-4	1	72	0.0702	0.198	0.0159	12/15/2021@7:16:15 PM
CCV	1	S9	1.41	3.74	0.354	12/15/2021@7:17:37 PM
	Known Conc:		1.50			
CCB	1	S10	6.72e-3	0.0301	1.30e-3	12/15/2021@7:19:00 PM
	Known Conc:		0.00			

MB	1	S10	5.56e-3	0.0270	1.25e-3	12/15/2021@7:20:22 PM
	Known Conc:		0.00			
LCS	1	S9	1.40	3.71	0.352	12/15/2021@7:21:44 PM
	Known Conc:		1.50			
480-193482-C-5	1	73	0.224	0.605	0.0558	12/15/2021@7:23:07 PM
480-193482-C-5 MS	1	74	1.09	2.91	0.273	12/15/2021@7:24:29 PM
480-193482-C-6	1	75	0.0391	0.116	7.58e-3	12/15/2021@7:25:51 PM
480-193482-C-6 DU	1	76	0.0420	0.123	8.40e-3	12/15/2021@7:27:14 PM
480-193482-C-7	1	77	0.197	0.535	0.0489	12/15/2021@7:28:37 PM
480-193482-C-8	1	78	0.0183	0.0607	4.45e-3	12/15/2021@7:30:01 PM
480-193482-C-9	1	79	0.0160	0.0547	4.67e-3	12/15/2021@7:31:23 PM
620-2285-C-1	1	80	1.99	5.28	0.498	12/15/2021@7:32:46 PM
CCV	1	S9	1.31	3.47	0.329	12/15/2021@7:34:09 PM
	Known Conc:		1.50			
CCB	1	S10	7.22e-3	0.0314	1.43e-3	12/15/2021@7:35:31 PM
	Known Conc:		0.00			
620-2285-C-2	1	81	2.50	6.65	0.626	12/15/2021@7:36:54 PM
620-2285-C-2 MS	1	82	3.17	8.40	0.791	12/15/2021@7:38:17 PM
620-2285-C-3	1	83	0.898	2.39	0.224	12/15/2021@7:39:39 PM
620-2285-C-3 DU	1	84	0.894	2.38	0.224	12/15/2021@7:41:01 PM
620-2285-C-4	1	85	1.25	3.32	0.312	12/15/2021@7:42:24 PM
620-2285-C-5	1	86	1.82	4.83	0.456	12/15/2021@7:43:46 PM
620-2285-C-7	1	87	0.0149	0.0519	4.53e-3	12/15/2021@7:45:08 PM
480-193439-G-9^5	1	88	1.30	3.45	0.324	12/15/2021@7:46:30 PM
CCV	1	S9	1.43	3.80	0.357	12/15/2021@7:47:53 PM
	Known Conc:		1.50			
CCB	1	S10	7.18e-3	0.0313	1.53e-3	12/15/2021@7:49:15 PM
	Known Conc:		0.00			
MB	1	S10	-6.79e-3	-5.71e-3	7.30e-4	12/15/2021@7:50:38 PM
	Known Conc:		0.00			
CCV	1	S9	1.43	3.81	0.359	12/15/2021@7:52:00 PM
	Known Conc:		1.50			

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	7.96	0.807	0.0	0.0	3.00	12/15/2021	1:52:41 PM
2	2.00	1	5.33	0.533	0.0	-0.4	2.01	12/15/2021	1:54:03 PM
3	1.00	1	2.63	0.261	0.0	1.3	0.987	12/15/2021	1:55:26 PM
4	0.500	1	1.34	0.131	0.0	0.1	0.500	12/15/2021	1:56:49 PM
5	0.200	1	0.550	0.0521	0.0	-1.4	0.203	12/15/2021	1:58:12 PM
6	0.0500	1	0.155	0.0137	0.0	-7.3	0.0540	12/15/2021	1:59:36 PM

Figure : 1 (Nitrate/Nitrite)



Historical Data Summary Report

For Batch 609053

609053

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193422-B-11	337	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N	8	1.0	0.28	☐	0 - 0.736	☐	0 - 0.564
480-193422-B-4	326R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N	8	1.0	0.055	☐	0 - 0.12	☐	0 - 0.095
480-193422-B-5	327	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193422-B-6	328	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N	8	1.0	0.49	☐	0 - 1.079	☐	0 - 0.9
480-193435-N-1	DUP 1	353.2_Nitrite	Nitrite	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-I-8	MW-7A	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-J-6	MW-6A	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.12	☐	0 - 0.104
480-193436-J-7	MW-6B	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193444-G-3	DUP-1	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.098	☐	0 - 0.106
480-193444-G-4	SW-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.057	☐	0 - 0.061
480-193467-H-4	YSP03R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-H-5	YSP05	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-H-6	YSP08	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-H-7	YSP09	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	☐	0 - 0.105	☐	0 - 0.066
480-193481-C-1	MH8L-MLD	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-C-1	172R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N	8	1.0	0.19	☐	0.119 - 0.364	☐	0.144 - 0.348
480-193482-C-2	413R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-C-4	171R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-C-5	169RR	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N	8	1.0	0.074	☐	0 - 0.209	☐	0 - 0.144
480-193482-C-7	302R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N	8	1.0	0.072	☑	0 - 0.066	☑	0 - 0.071 ok

Author: BufLachat3

NO_2

Date : 12/15/2021

Original Run Filename: OM_12-15-2021_08-56-42PM.OMN Created: 12/15/2021 8:56:42 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_12-15-2021_08-56-42PM.OMN Last Modified: 12/15/2021 10:39:34 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

609053

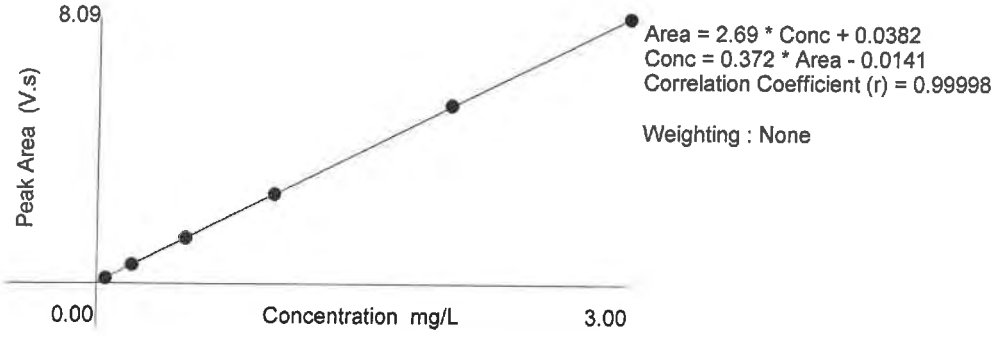
Sample	Rep.	Cup No.	Channel 1 Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time
CCV	1	S11	1.55	4.22	0.551	12/15/2021@8:57:52 PM
	Known Conc:		1.50			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	-4.47e-3	0.0260	3.37e-3	12/15/2021@8:59:15 PM
	Known Conc:		0.00			
MB	1	S10	-3.49e-3	0.0287	2.68e-3	12/15/2021@9:00:37 PM
	Known Conc:		0.00			
LCS	1	S11	1.55	4.20	0.547	12/15/2021@9:02:00 PM
	Known Conc:		1.50			
480-193422-B-4	1	1	0.0554	0.187	0.0190	12/15/2021@9:03:23 PM
480-193422-B-4 MS	1	2	0.983	2.68	0.343	12/15/2021@9:04:46 PM
480-193422-B-5	1	3	1.84e-3	0.0430	3.57e-3	12/15/2021@9:06:09 PM
480-193422-B-5 DU	1	4	1.43e-3	0.0419	3.45e-3	12/15/2021@9:07:32 PM
480-193422-B-6	1	5	0.489	1.35	0.166	12/15/2021@9:08:54 PM
480-193422-B-11	1	6	0.277	0.783	0.0981	12/15/2021@9:10:17 PM
MB 480-609031/1-A	1	7	-0.0188	-0.0125	-1.86e-3	12/15/2021@9:11:39 PM
480-193428-A-1-A	1	8	-0.0114	7.34e-3	2.48e-3	12/15/2021@9:13:02 PM
CCV	1	S11	1.57	4.28	0.543	12/15/2021@9:14:24 PM
	Known Conc:		1.50			
CCB	1	S10	-0.0185	-0.0118	-2.07e-3	12/15/2021@9:15:46 PM
	Known Conc:		0.00			
480-193435-N-1	1	9	-5.64e-3	0.0229	2.06e-3	12/15/2021@9:17:09 PM
480-193435-N-1 MS	1	10	0.978	2.67	0.344	12/15/2021@9:18:31 PM
480-193435-N-3	1	11	0.249	0.709	0.0869	12/15/2021@9:19:53 PM
480-193435-N-3 DU	1	12	0.242	0.689	0.0880	12/15/2021@9:21:15 PM
480-193435-M-4	1	13	5.56e-3	0.0530	6.48e-3	12/15/2021@9:22:36 PM
480-193435-N-7	1	14	3.95e-3	0.0487	8.52e-3	12/15/2021@9:23:58 PM
480-193436-J-6	1	15	-0.0157	-4.06e-3	2.81e-3	12/15/2021@9:25:19 PM
480-193436-J-7	1	16	4.26e-3	0.0495	5.30e-3	12/15/2021@9:26:42 PM
480-193436-I-8	1	17	4.85e-3	0.0511	4.20e-3	12/15/2021@9:28:05 PM
480-193439-G-1	1	18	1.85e-3	0.0430	5.28e-3	12/15/2021@9:29:28 PM
CCV	1	S11	1.54	4.19	0.548	12/15/2021@9:30:51 PM
	Known Conc:		1.50			
CCB	1	S10	-6.81e-3	0.0197	2.94e-3	12/15/2021@9:32:13 PM
	Known Conc:		0.00			
MB	1	S10	-7.59e-3	0.0176	2.21e-3	12/15/2021@9:33:35 PM
	Known Conc:		0.00			
LCS	1	S11	1.54	4.19	0.560	12/15/2021@9:34:58 PM
	Known Conc:		1.50			
480-193435-N-6	1	19	-4.57e-3	0.0258	2.08e-3	12/15/2021@9:36:20 PM
480-193435-N-6 MS	1	20	0.998	2.72	0.347	12/15/2021@9:37:43 PM
480-193435-N-6 MSD	1	21	0.966	2.64	0.339	12/15/2021@9:39:06 PM
480-193439-G-2	1	22	4.86e-3	0.0512	5.74e-3	12/15/2021@9:40:28 PM
480-193439-G-3	1	23	0.0118	0.0699	6.07e-3	12/15/2021@9:41:50 PM
480-193439-G-4	1	24	6.34e-3	0.0551	4.23e-3	12/15/2021@9:43:12 PM
480-193439-G-5	1	25	9.63e-3	0.0640	8.14e-3	12/15/2021@9:44:35 PM
480-193439-G-8	1	26	0.0193	0.0899	0.0113	12/15/2021@9:45:57 PM
CCV	1	S11	1.55	4.21	0.542	12/15/2021@9:47:19 PM
	Known Conc:		1.50			
CCB	1	S10	-4.47e-3	0.0260	3.32e-3	12/15/2021@9:48:42 PM
	Known Conc:		0.00			
480-193439-G-9	1	27	0.0139	0.0754	9.04e-3	12/15/2021@9:50:03 PM
480-193439-G-9 MS	1	28	1.02	2.78	0.356	12/15/2021@9:51:25 PM
480-193439-G-10	1	29	0.0616	0.204	0.0227	12/15/2021@9:52:47 PM
480-193439-G-10 DU	1	30	0.0619	0.205	0.0228	12/15/2021@9:54:08 PM
480-193439-G-11	1	31	-0.0122	5.25e-3	2.68e-3	12/15/2021@9:55:31 PM
480-193444-G-1	1	32	-4.52e-3	0.0259	2.67e-3	12/15/2021@9:56:55 PM
480-193444-G-2	1	33	0.0133	0.0739	7.53e-3	12/15/2021@9:58:18 PM

480-193444-G-3	1	34	-2.36e-3	0.0317	3.67e-3	12/15/2021@9:59:40 PM
480-193444-G-4	1	35	0.0381	0.141	0.0157	12/15/2021@10:01:03 PM
480-193444-G-5	1	36	0.0190	0.0891	0.0103	12/15/2021@10:02:25 PM
CCV	1	S11	1.55	4.21	0.547	12/15/2021@10:03:48 PM
	Known Conc:		1.50			
CCB	1	S10	-4.33e-3	0.0264	2.89e-3	12/15/2021@10:05:10 PM
	Known Conc:		100			
480-193444-G-6	1	37	0.0121	0.0706	6.71e-3	12/15/2021@10:06:33 PM
480-193444-G-6 MS	1	38	0.970	2.65	0.342	12/15/2021@10:07:55 PM
480-193467-H-4	1	39	1.83e-3	0.0430	3.18e-3	12/15/2021@10:09:17 PM
480-193467-H-4 DU	1	40	-5.41e-3	0.0235	2.46e-3	12/15/2021@10:10:40 PM
480-193467-H-5	1	41	0.0113	0.0686	5.99e-3	12/15/2021@10:12:01 PM
480-193467-H-6	1	42	-0.0120	5.82e-3	2.02e-3	12/15/2021@10:13:23 PM
480-193467-H-7	1	43	0.0454	0.160	0.0172	12/15/2021@10:14:45 PM
480-193481-C-1	1	44	4.52e-3	0.0502	2.95e-3	12/15/2021@10:16:07 PM
480-193482-C-1	1	45	0.189	0.546	0.0664	12/15/2021@10:17:28 PM
CCV	1	S11	1.55	4.22	0.545	12/15/2021@10:18:51 PM
	Known Conc:		100			
CCB	1	S10	-4.02e-3	0.0273	2.18e-3	12/15/2021@10:20:13 PM
	Known Conc:		100			
480-193482-C-2	1	46	-6.29e-3	0.0212	4.08e-3	12/15/2021@10:21:36 PM
480-193482-C-2 MS	1	47	0.900	2.46	0.384	12/15/2021@10:22:59 PM
480-193482-C-4	1	48	0.0142	0.0763	7.46e-3	12/15/2021@10:24:22 PM
480-193482-C-4 DU	1	49	0.0175	0.0850	7.96e-3	12/15/2021@10:25:45 PM
480-193482-C-5	1	50	0.0735	0.236	0.0281	12/15/2021@10:27:08 PM
480-193482-C-7	1	51	0.0717	0.231	0.0277	12/15/2021@10:28:30 PM
620-2285-C-1	1	52	-0.0162	-5.47e-3	-1.74e-3	12/15/2021@10:29:53 PM
620-2285-C-2	1	53	-1.55e-3	0.0339	2.88e-3	12/15/2021@10:31:15 PM
620-2285-C-3	1	54	-0.0134	1.98e-3	2.14e-3	12/15/2021@10:32:37 PM
620-2285-C-4	1	55	-8.79e-3	0.0144	2.90e-3	12/15/2021@10:33:59 PM
620-2285-C-5	1	56	-0.0270	-0.0347	-2.00e-3	12/15/2021@10:35:21 PM
CCV	1	S11	1.55	4.21	0.546	12/15/2021@10:36:44 PM
	Known Conc:		100			
CCB	1	S10	-0.0195	-0.0143	-2.56e-3	12/15/2021@10:38:06 PM
	Known Conc:		0.00			

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	8.09	1.07	0.0	0.3	2.99	12/15/2021	1:32:49 PM
2	2.00	1	5.45	0.719	0.0	-0.5	2.01	12/15/2021	1:34:12 PM
3	1.00	1	2.74	0.358	0.0	-0.3	1.00	12/15/2021	1:35:34 PM
4	0.500	1	1.39	0.179	0.0	-0.3	0.501	12/15/2021	1:36:57 PM
5	0.200	1	0.574	0.0724	0.0	0.4	0.199	12/15/2021	1:38:20 PM
6	0.0500	1	0.156	0.0174	0.0	9.5	0.0440	12/15/2021	1:39:43 PM

Figure : 1 (Nitrite)



DI_LEACH Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 480-609031

Analyst: Stone, Chandler S

Batch Open: 12/15/2021 1:00:00PM

Batch End: 12/15/2021 1:10:00PM

Deionized Water Leaching Procedure

	Input Sample Lab ID (Analytical Method)	SDG (Job #)	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	MB~480-609031/1 N/A	N/A		10.0000 g	100 mL	N/A	N/A	N/A		
2	480-193428-A-1 (353.2)	N/A (480-193428-1)	Solid	11.4193 g	100 mL	12/21/21	5_Days	4		
2	480-193428-A-1 (353.2_Nitrite)	N/A (480-193428-1)	Solid	11.4193 g	100 mL	12/21/21	5_Days	4		

DI_LEACH Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 480-609031

Analyst: Stone, Chandler S

Batch Open: 12/15/2021 1:00:00PM

Batch End: 12/15/2021 1:10:00PM

Batch Notes

Balance ID	17
Blank Matrix ID	
Filter ID	N/A
Uncorrected Initial Room Temperature	20.9
Initial Room Temperature	20.8
Uncorrected Final Room Temperature	22.3
Final Room Temperature	22.2
Room Temperature Thermometer ID	160316917
Rotator ID	
Tumble Start Time	12/15/2021 13:00
Tumble End Time	12/15/2021 13:10
Pipette/Syringe/Dispenser ID	
Batch Comment	

Comments

DI_LEACH Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 480-609031

Analyst: Stone, Chandler S

Batch Open: 12/15/2021 1:00:00PM

Batch End: 12/15/2021 1:10:00PM

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness

Other Reagents:

Reagent	Amount/Units	Lot#:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Wet Chemistry Dept

Analysis: Sulfate

Method: 9038

Analyst/Primary Reviewer: SMW

Secondary Reviewer: Chawisa

Date of Analytical Run: 12/16/21

Date of Primary Review: 12/17/21

Date of Secondary Review: 12/20/2021

Prep Batch Number					
Analytical Batch Number	609236				

Criteria for QC	1st Level	2nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, r > or = 0.995, pH meter slope 90-110% (if applicable)	Y	✓		
Was Data Imported X Manually Entered ____ Balance Interface Used ____	Impt	✓		
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Y	✓		
Were the ICB, CCB and MB all <RL?	Y	✓		
Was there a CCV/CCB combination run after every 10 samples or less?	Y	✓		
Was there an LCS run with every batch of 20 samples or less?	Y	✓		
Was there a DU, MS or MSD run with every batch of 20 samples or less?	Y	✓		
Were all MS/MSD results within acceptable limits for QC recovery?	N	✓		
Were all DU or MSD RPDs within acceptable limits for QC recovery?	Y	✓		
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	Y	✓		
Are dilution factors all present and correct?	Y	✓		
Do all entries match raw data?	Y	✓		
Were there any holding time violations in this batch?	N	✓		**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y	✓		
Were any NCMs needed in the batch?	N	✓		NCM #s:
Data scanned in?	Y	✓		

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Sulfate

9038/D516

1000 PPM	(MS/MSD/CAL)	6560004	EXP: 11/30/2022
30 PPM	(CCV/LCS)	6791930	EXP: 12/20/2021
Precipitating Solution:		6791929	EXP: 12/20/2021
ICV: made from IC standard		6791931	EXP: 02/22/2022

CURVE:

Kone 1: 11/19/2019 Batch: 505599
100 ppm: 5657751

Kone 2: 06/29/2020 Batch: 538610
100 ppm: 5994552

Kone 3: 07/23/2019 Batch: 483387
100 ppm: 5409342

Gallery 1: 12/16/2021 Batch: 609236
100 ppm: 6822609

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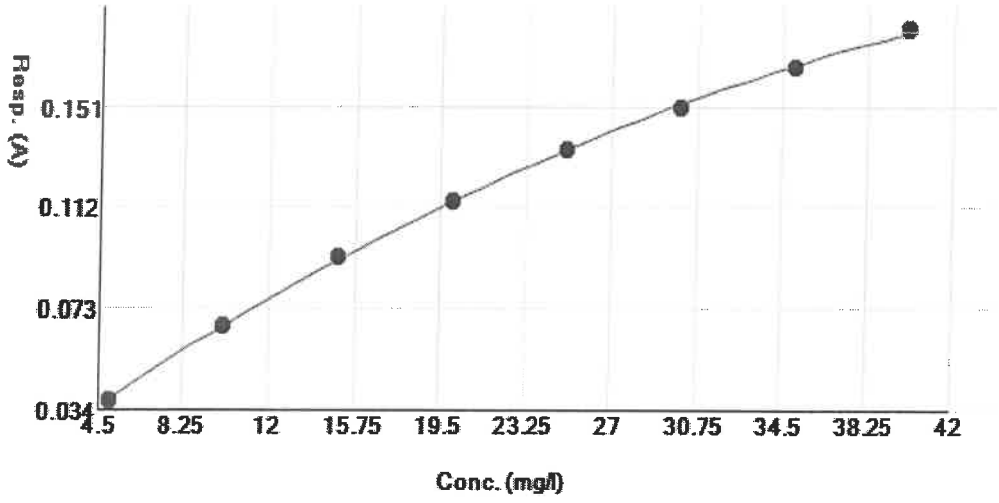
Calibration results

SO4 Version number 1.3

Date	12/16/2021	**User**	BufGallery1
Time	7:26:30PM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	SO4	**Coeff. of deter.**	0.999645
Status	Accepted	**Total factor**	246.737
Accepted	12/16/2021 7:26 PM		
Checked	12/16/2021 7:26 PM	Zero-order factor	0.008
User name	BufGallery1	1st order factor	0.006
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
SO4 5	0.037	4.844	5.000	Default	
SO4 10	0.067	10.097	10.000	Default	
SO4 15	0.093	15.241	15.000	Default	
SO4 20	0.114	20.010	20.000	Default	
SO4 25	0.135	25.054	25.000	Default	
SO4 30	0.151	29.656	30.000	Default	
SO4 35	0.166	34.626	35.000	Default	
SO4 40	0.181	40.512	40.000	Default	
ICB	0.013	0.59	0.00	Default	Outside calibration
SO4 ICV	0.156	31.04	30.00	Default	



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Water blank results

Date 12/17/2021 **User** BufGallery1

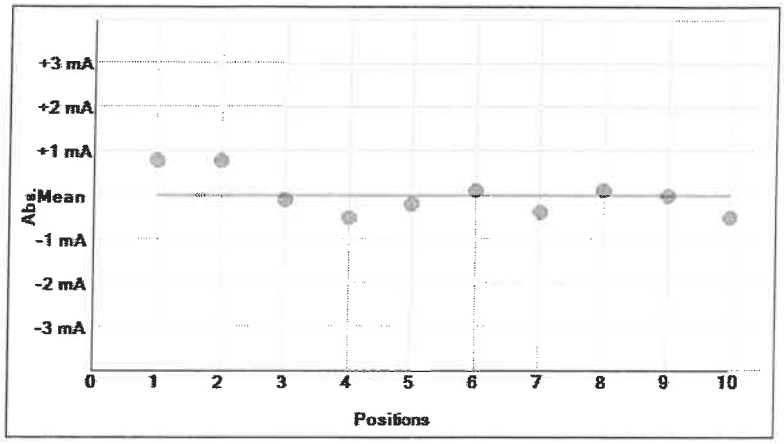
Time 4:13:02AM **Software version: 6.0.2**

Measurement time
12/16/2021 6:45 PM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1003.1**	**0.5**
420	-1036.4	0.2
480	-1046.9	0.2
510	-1050.5	0.2
540	-1054.0	0.1
575	-1057.1	0.2
600	-1058.6	0.2
620	-1060.0	0.2
660	-1062.3	0.1
700	-1063.5	0.1
880	-1047.0	0.2

340



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Results by Test

Date 12/17/2021 **User** BufGallery1

Time 4:00:07AM **Software version: 6.0.2**

Test name SO4

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	CCB	1.3	0.53	mg/l		0.0	man acc	Outside calibration
2	CCV SO4	1.3	30.24	mg/l		0.0	man acc	
7	CCB	1.3	1.83	mg/l		0.0	man acc	Outside calibration
8	CCV SO4	1.3	30.41	mg/l		0.0	man acc	
11	480-193026-G-4	1.3	20.21	mg/l		0.0	man acc	
12	480-193026-G-5	1.3	7.13	mg/l		0.0	man acc	
13	CCB	1.3	0.54	mg/l		0.0	man acc	Outside calibration
14	CCV SO4	1.3	30.44	mg/l		0.0	man acc	
16	480-193026-G-6	1.3	0.61	mg/l		0.0	man acc	Outside calibration
17	480-193199-G-1	1.3	0.24	mg/l		0.0	man acc	Outside calibration
18	480-193199-G-2	1.3	0.32	mg/l		0.0	man acc	Outside calibration
19	480-193199-G-3	1.3	0.72	mg/l		0.0	man acc	Outside calibration
20	CCB	1.3	1.01	mg/l		0.0	man acc	Outside calibration
21	CCV SO4	1.3	30.61	mg/l		0.0	man acc	
22	480-193199-G-4	1.3	27.35	mg/l		0.0	man acc	
23	480-193199-G-5	1.3	0.29	mg/l		0.0	man acc	Outside calibration
24	480-193026-G-1	1.3	239.26	mg/l		9.0	man acc	
26	CCB	1.3	0.78	mg/l		0.0	man acc	Outside calibration
27	CCV SO4	1.3	30.89	mg/l		0.0	man acc	
28	ms480-193026-G-1	1.3	252.43	mg/l		9.0	man acc	
29	msd480-193026-G-	1.3	258.10	mg/l		9.0	man acc	
31	480-193199-G-7	1.3	58.55	mg/l		2.0	man acc	
37	CCB	1.3	0.45	mg/l		0.0	man acc	Outside calibration
38	CCV SO4	1.3	29.94	mg/l		0.0	man acc	
43	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
44	CCV SO4	1.3	29.24	mg/l		0.0	man acc	
45	ms480-193241-I-2	1.3	31.76	mg/l		0.0	man acc	
46	msd480-193241-I-2	1.3	34.56	mg/l		0.0	man acc	
49	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
50	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
51	480-193241-I-5	1.3	15.80	mg/l		0.0	man acc	
52	480-193241-I-6	1.3	16.02	mg/l		0.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
53	ms480-193241-I-6	1.3	36.21	mg/l		0.0	man acc	
54	msd480-193241-I-6	1.3	36.61	mg/l		0.0	man acc	
55	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
56	CCV SO4	1.3	29.72	mg/l		0.0	man acc	
57	480-193243-I-1	1.3	0.38	mg/l		0.0	man acc	Outside calibration
58	480-193243-I-2	1.3	1.58	mg/l		0.0	man acc	Outside calibration
59	480-193265-G-1	1.3	148.26	mg/l		9.0	man acc	
60	480-193265-G-2	1.3	264.60	mg/l		9.0	man acc	
61	CCB	1.3	0.33	mg/l		0.0	man acc	Outside calibration
62	CCV SO4	1.3	30.05	mg/l		0.0	man acc	
64	480-193265-G-4	1.3	180.61	mg/l		4.0	man acc	
65	480-193265-G-5	1.3	151.66	mg/l		4.0	man acc	
66	480-193265-G-6	1.3	154.37	mg/l		4.0	man acc	
67	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
68	CCV SO4	1.3	29.74	mg/l		0.0	man acc	
73	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
74	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
77	480-193265-G-3	1.3	497.87	mg/l		19.0	man acc	
78	ms480-193290-I-2	1.3	51.11	mg/l		1.0	man acc	
79	CCB	1.3	0.27	mg/l		0.0	man acc	Outside calibration
80	CCV SO4	1.3	29.53	mg/l		0.0	man acc	
84	CCB	1.3	0.59	mg/l		0.0	man acc	Outside calibration
85	CCV SO4	1.3	29.38	mg/l		0.0	man acc	
87	ms480-193290-I-4	1.3	31.64	mg/l		0.0	man acc	
89	msd480-193290-I-4	1.3	31.02	mg/l		0.0	man acc	
91	CCB	1.3	0.36	mg/l		0.0	man acc	Outside calibration
92	CCV SO4	1.3	29.90	mg/l		0.0	man acc	
97	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
98	CCV SO4	1.3	29.39	mg/l		0.0	man acc	
100	ms480-193290-I-9	1.3	160.89	mg/l		4.0	man acc	
101	msd480-193290-I-9	1.3	150.48	mg/l		4.0	man acc	
102	CCB	1.3	0.42	mg/l		0.0	man acc	Outside calibration
104	CCV SO4	1.3	31.98	mg/l		0.0	man acc	
105	ms480-193305-E-1	1.3	525.78	mg/l		24.0	man acc	
106	msd480-193305-E-	1.3	529.05	mg/l		24.0	man acc	
107	480-193310-G-1	1.3	1.72	mg/l		0.0	man acc	Outside calibration
108	480-193310-G-2	1.3	0.39	mg/l		0.0	man acc	Outside calibration
109	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
110	CCV SO4	1.3	29.14	mg/l		0.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
111	480-193310-G-3	1.3	1.01	mg/l		0.0	man acc	Outside calibration
112	480-193310-G-4	1.3	0.41	mg/l		0.0	man acc	Outside calibration
113	480-193310-G-5	1.3	0.50	mg/l		0.0	man acc	Outside calibration
114	480-193310-G-6	1.3	0.67	mg/l		0.0	man acc	Outside calibration
115	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
116	CCV SO4	1.3	28.91	mg/l		0.0	man acc	
117	480-193310-G-7	1.3	13.85	mg/l		0.0	man acc	
118	480-193310-G-8	1.3	0.28	mg/l		0.0	man acc	Outside calibration
119	480-193317-D-1	1.3	29.36	mg/l		0.0	man acc	
120	480-193317-D-2	1.3	27.32	mg/l		0.0	man acc	
121	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
122	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
123	480-193317-D-3	1.3	23.73	mg/l		0.0	man acc	
124	480-193317-D-4	1.3	24.23	mg/l		0.0	man acc	
126	480-193317-D-6	1.3	28.04	mg/l		0.0	man acc	
127	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
128	CCV SO4	1.3	29.11	mg/l		0.0	man acc	
133	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
134	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
137	480-193335-I-2	1.3	30.53	mg/l		0.0	man acc	
138	ms480-193335-I-2	1.3	49.23	mg/l		1.0	man acc	
141	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
142	CCV SO4	1.3	29.63	mg/l		0.0	man acc	
143	msd480-193335-I-2	1.3	49.90	mg/l		1.0	man acc	
144	480-193335-I-3	1.3	20.86	mg/l		0.0	man acc	
145	480-193317-D-5	1.3	48.01	mg/l		1.0	man acc	
146	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
148	CCV SO4	1.3	30.05	mg/l		0.0	man acc	
149	480-193317-D-7	1.3	36.13	mg/l		1.0	man acc	
150	480-193317-D-8	1.3	55.61	mg/l		1.0	man acc	
151	480-193334-J-1	1.3	78.00	mg/l		1.0	man acc	
152	msd480-193335-I-3	1.3	43.94	mg/l		1.0	man acc	
156	CCB	1.3	0.48	mg/l		0.0	man acc	Outside calibration
157	CCV SO4	1.3	28.71	mg/l		0.0	man acc	
158	CCB	1.3	0.43	mg/l		0.0	man acc	Outside calibration
159	CCV SO4	1.3	29.82	mg/l		0.0	man acc	
160	480-193024-G-1	1.3	448.33	mg/l		19.0	man acc	
162	480-193026-G-3	1.3	1.01	mg/l		0.0	man acc	Outside calibration
164	CCB	1.3	0.43	mg/l		0.0	man acc	Outside calibration

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
165	CCV SO4	1.3	29.45	mg/l		0.0	man acc	
166	480-193199-G-8	1.3	0.21	mg/l		0.0	man acc	Outside calibration
167	ms480-193199-G-7	1.3	72.73	mg/l		4.0	man acc	
168	msd480-193199-G-	1.3	82.48	mg/l		4.0	man acc	
169	480-193203-G-1	1.3	0.46	mg/l		0.0	man acc	Outside calibration
170	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
171	CCV SO4	1.3	30.29	mg/l		0.0	man acc	
173	480-193241-I-1	1.3	0.42	mg/l		0.0	man acc	Outside calibration
174	480-193241-I-2	1.3	9.58	mg/l		0.0	man acc	
175	480-193241-I-3	1.3	23.39	mg/l		0.0	man acc	
176	CCB	1.3	0.38	mg/l		0.0	man acc	Outside calibration
177	CCV SO4	1.3	30.02	mg/l		0.0	man acc	
178	480-193241-I-4	1.3	23.85	mg/l		0.0	man acc	
179	480-193265-G-9	1.3	33.04	mg/l		0.0	man acc	
180	480-193265-G-7	1.3	20.82	mg/l		1.0	man acc	
181	480-193265-G-8	1.3	867.42	mg/l		24.0	man acc	Test limit High
182	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
183	CCV SO4	1.3	28.98	mg/l		0.0	man acc	
184	480-193265-G-10	1.3	2.25	mg/l		0.0	man acc	Outside calibration
185	480-193290-I-2	1.3	31.60	mg/l		0.0	man acc	
186	480-193265-G-11	1.3	308.21	mg/l		9.0	man acc	
187	msd480-193290-I-2	1.3	52.31	mg/l		1.0	man acc	
188	CCB	1.3	0.22	mg/l		0.0	man acc	Outside calibration
189	CCV SO4	1.3	30.02	mg/l		0.0	man acc	
190	480-193290-I-4	1.3	9.43	mg/l		0.0	man acc	
191	480-193290-I-5	1.3	14.90	mg/l		0.0	man acc	
192	480-193290-I-3	1.3	40.66	mg/l		1.0	man acc	
193	480-193290-I-6	1.3	15.77	mg/l		0.0	man acc	
194	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
195	CCV SO4	1.3	29.55	mg/l		0.0	man acc	
198	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
201	CCV SO4	1.3	29.54	mg/l		0.0	man acc	
204	480-193331-G-2	1.3	33.47	mg/l		1.0	man acc	
205	ms480-193335-I-3	1.3	42.70	mg/l		1.0	man acc	
206	CCB	1.3	0.08	mg/l		0.0	man acc	Outside calibration
207	CCV SO4	1.3	30.62	mg/l		0.0	man acc	
208	480-193335-I-4	1.3	0.27	mg/l		0.0	man acc	Outside calibration
209	480-193335-I-5	1.3	17.94	mg/l		0.0	man acc	
211	480-193335-I-6	1.3	51.48	mg/l		1.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
212	CCB	1.3	0.33	mg/l		0.0	man acc	Outside calibration
213	CCV SO4	1.3	29.50	mg/l		0.0	man acc	
215	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
216	CCV SO4	1.3	29.34	mg/l		0.0	man acc	
217	CCB	1.3	0.00	mg/l		0.0	man acc	Outside calibration
218	CCV SO4	1.3	28.36	mg/l		0.0	man acc	
220	480-193199-G-6	1.3	25.13	mg/l		1.0	man acc	
221	480-193203-G-2	1.3	57.67	mg/l		1.0	man acc	
222	480-193290-I-7	1.3	-0.12	mg/l		0.0	man acc	Outside calibration
223	CCB	1.3	-0.09	mg/l		0.0	man acc	Outside calibration
224	CCV SO4	1.3	27.52	mg/l		0.0	man acc	
225	480-193331-I-1	1.3	3.97	mg/l		0.0	man acc	Outside calibration
226	480-193290-I-8	1.3	10.98	mg/l		1.0	man acc	
227	480-193290-I-9	1.3	131.06	mg/l		4.0	man acc	
231	480-193335-I-1	1.3	30.22	mg/l		0.0	man acc	
234	CCB	1.3	-0.07	mg/l		0.0	man acc	Outside calibration
235	CCV SO4	1.3	28.01	mg/l		0.0	man acc	
236	480-193026-G-2	1.3	18.17	mg/l		1.0	man acc	
237	480-193305-E-1	1.3	528.97	mg/l		24.0	man acc	
240	CCB	1.3	-0.06	mg/l		0.0	man acc	Outside calibration
241	CCV SO4	1.3	27.65	mg/l		0.0	man acc	
243	480-193336-Q-2	1.3	-1.64	mg/l		0.0	man acc	Outside calibration
244	480-193336-Q-3	1.3	2.73	mg/l		0.0	man acc	Outside calibration
245	480-193336-Q-5	1.3	0.23	mg/l		0.0	man acc	Outside calibration
246	CCB	1.3	-0.12	mg/l		0.0	man acc	Outside calibration
247	CCV SO4	1.3	27.99	mg/l		0.0	man acc	
248	480-193336-Q-6	1.3	3.84	mg/l		0.0	man acc	Outside calibration
249	480-193336-Q-7	1.3	42.69	mg/l		2.0	man acc	
250	480-193337-H-1	1.3	17.27	mg/l		0.0	man acc	
251	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
252	CCV SO4	1.3	27.24	mg/l		0.0	man acc	
253	ms480-193337-H-1	1.3	36.91	mg/l		1.0	man acc	
254	msd480-193337-H-	1.3	37.60	mg/l		1.0	man acc	
255	480-193337-H-2	1.3	17.76	mg/l		0.0	man acc	
256	CCB	1.3	-0.25	mg/l		0.0	man acc	Outside calibration
258	CCV SO4	1.3	28.61	mg/l		0.0	man acc	
260	msd480-193337-H-	1.3	37.48	mg/l		1.0	man acc	
261	480-193369-K-1	1.3	17.94	mg/l		0.0	man acc	
262	480-193369-K-2	1.3	-0.16	mg/l		0.0	man acc	Outside calibration

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
263	CCB	1.3	-0.18	mg/l		0.0	man acc	Outside calibration
264	CCV SO4	1.3	27.82	mg/l		0.0	man acc	
265	480-193369-K-3	1.3	-0.03	mg/l		0.0	man acc	Outside calibration
266	480-193369-K-4	1.3	7.21	mg/l		0.0	man acc	
267	480-193369-K-5	1.3	7.08	mg/l		0.0	man acc	
269	CCB	1.3	-0.19	mg/l		0.0	man acc	Outside calibration
270	CCV SO4	1.3	27.65	mg/l		0.0	man acc	
271	480-193397-D-2	1.3	3.37	mg/l		0.0	man acc	Outside calibration
274	480-193397-D-5	1.3	22.64	mg/l		0.0	man acc	
275	CCB	1.3	-0.21	mg/l		0.0	man acc	Outside calibration
276	CCV SO4	1.3	27.81	mg/l		0.0	man acc	
277	480-193397-D-6	1.3	31.06	mg/l		0.0	man acc	
278	480-193336-Q-1	1.3	93.02	mg/l		4.0	man acc	
280	480-193436-K-2	1.3	0.02	mg/l		0.0	man acc	Outside calibration
281	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
282	CCV SO4	1.3	27.72	mg/l		0.0	man acc	
283	480-193436-K-3	1.3	10.88	mg/l		0.0	man acc	
284	ms480-193436-K-3	1.3	33.25	mg/l		1.0	man acc	
285	480-193397-D-1	1.3	33.10	mg/l		1.0	man acc	
286	480-193397-D-3	1.3	52.14	mg/l		1.0	man acc	
287	CCB	1.3	-0.26	mg/l		0.0	man acc	Outside calibration
288	CCV SO4	1.3	27.49	mg/l		0.0	man acc	
289	msd480-193436-K-	1.3	36.07	mg/l		1.0	man acc	
290	480-193436-K-4	1.3	1.52	mg/l		0.0	man acc	Outside calibration
291	480-193397-D-4	1.3	60.96	mg/l		1.0	man acc	
292	480-193436-K-5	1.3	16.49	mg/l		0.0	man acc	
293	CCB	1.3	-0.11	mg/l		0.0	man acc	Outside calibration
294	CCV SO4	1.3	30.69	mg/l		0.0	man acc	
295	ms480-193436-K-5	1.3	36.09	mg/l		1.0	man acc	
296	msd480-193436-K-	1.3	39.57	mg/l		0.0	man acc	
297	480-193436-K-6	1.3	0.09	mg/l		0.0	man acc	Outside calibration
298	480-193397-D-7	1.3	50.78	mg/l		1.0	man acc	
299	CCB	1.3	-0.04	mg/l		0.0	man acc	Outside calibration
300	CCV SO4	1.3	27.27	mg/l		0.0	man acc	
301	480-193436-K-7	1.3	23.49	mg/l		0.0	man acc	
302	480-193436-K-8	1.3	0.31	mg/l		0.0	man acc	Outside calibration
303	480-193439-H-1	1.3	16.99	mg/l		0.0	man acc	
304	480-193439-H-2	1.3	15.81	mg/l		0.0	man acc	
305	CCB	1.3	0.02	mg/l		0.0	man acc	Outside calibration

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
306	CCV SO4	1.3	27.94	mg/l		0.0	man acc	
307	480-193439-H-3	1.3	17.36	mg/l		0.0	man acc	
308	480-193439-H-4	1.3	16.10	mg/l		0.0	man acc	
309	480-193439-H-5	1.3	15.78	mg/l		0.0	man acc	
310	480-193439-H-6	1.3	1.50	mg/l		0.0	man acc	Outside calibration
311	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
312	CCV SO4	1.3	28.50	mg/l		0.0	man acc	
313	480-193439-H-7	1.3	11.64	mg/l		0.0	man acc	
315	480-193439-H-9	1.3	28.03	mg/l		0.0	man acc	
319	CCB	1.3	-0.01	mg/l		0.0	man acc	Outside calibration
320	CCV SO4	1.3	28.08	mg/l		0.0	man acc	
321	480-193439-H-11	1.3	24.25	mg/l		0.0	man acc	
322	480-193444-I-1	1.3	0.66	mg/l		0.0	man acc	Outside calibration
323	480-193444-I-2	1.3	0.08	mg/l		0.0	man acc	Outside calibration
324	480-193444-I-3	1.3	0.67	mg/l		0.0	man acc	Outside calibration
325	CCB	1.3	0.08	mg/l		0.0	man acc	Outside calibration
326	CCV SO4	1.3	28.05	mg/l		0.0	man acc	
327	ms480-193444-I-3	1.3	21.52	mg/l		1.0	man acc	
328	msd480-193444-I-3	1.3	21.39	mg/l		1.0	man acc	
332	ms480-193444-I-4	1.3	59.66	mg/l		1.0	man acc	
333	msd480-193444-I-4	1.3	60.81	mg/l		1.0	man acc	
334	CCB	1.3	0.66	mg/l		0.0	man acc	Outside calibration
335	CCV SO4	1.3	29.70	mg/l		0.0	man acc	
337	480-193444-I-6	1.3	2.30	mg/l		0.0	man acc	Outside calibration
338	480-193467-I-1	1.3	0.59	mg/l		0.0	man acc	Outside calibration
339	ms480-193467-I-1	1.3	22.02	mg/l		0.0	man acc	
340	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
341	CCV SO4	1.3	29.19	mg/l		0.0	man acc	
342	msd480-193467-I-1	1.3	21.36	mg/l		0.0	man acc	
343	480-193444-I-4	1.3	39.64	mg/l		1.0	man acc	
344	480-193467-I-2	1.3	35.43	mg/l		4.0	man acc	
345	480-193439-H-10	1.3	95.98	mg/l		4.0	man acc	
346	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
347	CCV SO4	1.3	30.34	mg/l		0.0	man acc	
348	480-193439-H-8	1.3	88.12	mg/l		4.0	man acc	
349	480-193467-I-3	1.3	124.49	mg/l		4.0	man acc	
351	480-193467-I-4	1.3	158.35	mg/l		4.0	man acc	
352	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
353	CCV SO4	1.3	30.91	mg/l		0.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
354	480-193467-I-5	1.3	36.31	mg/l		0.0	man acc	
355	480-193467-I-6	1.3	1,611.10	mg/l		49.0	man acc	Test limit High
356	480-193467-I-7	1.3	833.00	mg/l		24.0	man acc	Test limit High
357	480-193481-G-1	1.3	698.32	mg/l		29.0	man acc	
358	CCB	1.3	0.54	mg/l		0.0	man acc	Outside calibration
359	CCV SO4	1.3	29.95	mg/l		0.0	man acc	
360	480-193482-G-1	1.3	0.32	mg/l		0.0	man acc	Outside calibration
361	480-193482-G-2	1.3	0.35	mg/l		0.0	man acc	Outside calibration
362	480-193482-G-3	1.3	628.62	mg/l		19.0	man acc	Test limit High
363	480-193444-I-5	1.3	92.51	mg/l		4.0	man acc	
364	CCB	1.3	0.58	mg/l		0.0	man acc	Outside calibration
365	CCV SO4	1.3	31.06	mg/l		0.0	man acc	
366	480-193482-G-4	1.3	473.13	mg/l		19.0	man acc	
367	480-193482-G-5	1.3	0.33	mg/l		0.0	man acc	Outside calibration
368	480-193482-G-6	1.3	1,623.59	mg/l		49.0	man acc	Test limit High
369	480-193482-G-7	1.3	56.37	mg/l		2.0	man acc	
370	CCB	1.3	0.40	mg/l		0.0	man acc	Outside calibration
371	CCV SO4	1.3	29.40	mg/l		0.0	man acc	
372	480-193482-G-8	1.3	1,201.07	mg/l		39.0	man acc	Test limit High
373	480-193482-G-9	1.3	361.30	mg/l		9.0	man acc	
374	480-193512-K-1	1.3	33.56	mg/l		0.0	man acc	
375	480-193512-K-2	1.3	0.67	mg/l		0.0	man acc	Outside calibration
376	CCB	1.3	0.48	mg/l		0.0	man acc	Outside calibration
377	CCV SO4	1.3	30.16	mg/l		0.0	man acc	
378	480-193512-K-3	1.3	2.66	mg/l		0.0	man acc	Outside calibration
379	480-193512-K-4	1.3	0.52	mg/l		0.0	man acc	Outside calibration
380	480-193526-C-5	1.3	21.67	mg/l		0.0	man acc	
382	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
383	CCV SO4	1.3	30.06	mg/l		0.0	man acc	
385	480-193526-C-6	1.3	21.74	mg/l		0.0	man acc	
387	480-193531-G-2	1.3	1.39	mg/l		0.0	man acc	Outside calibration
396	480-193531-G-7	1.3	32.06	mg/l		0.0	man acc	
399	ms480-193526-C-5	1.3	41.67	mg/l		1.0	man acc	
400	CCB	1.3	0.56	mg/l		0.0	man acc	Outside calibration
401	CCV SO4	1.3	30.14	mg/l		0.0	man acc	
402	msd480-193526-C-	1.3	40.96	mg/l		1.0	man acc	
403	480-193531-G-1	1.3	12.29	mg/l		1.0	man acc	
404	CCB	1.3	0.61	mg/l		0.0	man acc	Outside calibration
405	CCV SO4	1.3	29.85	mg/l		0.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
406	480-193531-G-3	1.3	35.46	mg/l		1.0	man acc	
407	480-193531-G-4	1.3	60.48	mg/l		1.0	man acc	
408	480-193531-G-5	1.3	48.41	mg/l		1.0	man acc	
409	480-193531-G-6	1.3	59.56	mg/l		1.0	man acc	
412	CCB	1.3	0.51	mg/l		0.0	man acc	Outside calibration
413	CCV SO4	1.3	29.96	mg/l		0.0	man acc	
414	ms480-193337-H-2	1.3	40.44	mg/l		1.0	man acc	
415	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
416	CCV SO4	1.3	30.40	mg/l		0.0	man acc	

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Results by Test

Date 12/17/2021 **User** BufGallery1

Time 4:08:01AM **Software version: 6.0.2**

Test name SO4 KIN

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	480-193024-G-1	1.1	-0.0046	mg/l		19.0	man acc	Reaction direction
6	480-193026-G-3	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
7	480-193026-G-4	1.1	-0.0048	mg/l		0.0	man acc	Point(s) out of curve, Reaction directi
8	480-193026-G-5	1.1	0.0001	mg/l		0.0	man acc	Point(s) out of curve
9	480-193026-G-6	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
10	480-193199-G-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
11	480-193199-G-2	1.1	0.0000	mg/l		0.0	man acc	
12	480-193199-G-3	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction
13	480-193199-G-4	1.1	-0.0019	mg/l		0.0	man acc	Reaction direction
14	480-193199-G-5	1.1	0.0001	mg/l		0.0	man acc	
16	480-193199-G-7	1.1	0.0362	mg/l		2.0	man acc	Point(s) out of curve
19	480-193199-G-8	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
20	480-193203-G-1	1.1	0.0013	mg/l		0.0	man acc	
22	480-193241-I-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
23	480-193241-I-2	1.1	0.0025	mg/l		0.0	man acc	
24	ms480-193241-I-2	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
25	msd480-193241-I-2	1.1	0.0001	mg/l		0.0	man acc	
26	480-193241-I-3	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
27	480-193241-I-4	1.1	0.0009	mg/l		0.0	man acc	
28	480-193241-I-5	1.1	0.0022	mg/l		0.0	man acc	
29	480-193241-I-6	1.1	0.0004	mg/l		0.0	man acc	
30	ms480-193241-I-6	1.1	-0.0007	mg/l		0.0	man acc	Reaction direction
31	msd480-193241-I-6	1.1	-0.0009	mg/l		0.0	man acc	Reaction direction
32	480-193243-I-1	1.1	0.0001	mg/l		0.0	man acc	
33	480-193243-I-2	1.1	0.0007	mg/l		0.0	man acc	
34	480-193265-G-1	1.1	0.0145	mg/l		9.0	man acc	
35	480-193265-G-2	1.1	0.0116	mg/l		9.0	man acc	Point(s) out of curve
37	480-193265-G-4	1.1	0.0088	mg/l		4.0	man acc	
38	480-193265-G-5	1.1	0.0040	mg/l		4.0	man acc	
39	480-193265-G-6	1.1	0.0036	mg/l		4.0	man acc	
42	480-193265-G-9	1.1	0.0052	mg/l		0.0	man acc	Point(s) out of curve
43	480-193265-G-10	1.1	0.0002	mg/l		0.0	man acc	

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
44	480-193265-G-11	1.1	-0.0010	mg/l		9.0	man acc	Reaction direction
45	480-193290-I-2	1.1	0.0010	mg/l		0.0	man acc	
46	ms480-193290-I-2	1.1	0.0018	mg/l		1.0	man acc	
47	msd480-193290-I-2	1.1	0.0019	mg/l		1.0	man acc	
49	480-193290-I-4	1.1	0.0010	mg/l		0.0	man acc	Blank init abs. low
50	ms480-193290-I-4	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
51	msd480-193290-I-4	1.1	-0.0004	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
52	480-193290-I-5	1.1	0.0006	mg/l		0.0	man acc	
53	480-193290-I-6	1.1	0.0006	mg/l		0.0	man acc	
56	480-193290-I-9	1.1	0.0085	mg/l		4.0	man acc	
57	ms480-193290-I-9	1.1	0.0025	mg/l		4.0	man acc	
58	msd480-193290-I-9	1.1	0.0025	mg/l		4.0	man acc	
59	480-193305-E-1	1.1	0.0444	mg/l		24.0	man acc	
60	ms480-193305-E-1	1.1	0.0408	mg/l		24.0	man acc	
61	msd480-193305-E-	1.1	0.0382	mg/l		24.0	man acc	
62	480-193310-G-1	1.1	0.0004	mg/l		0.0	man acc	
63	480-193310-G-2	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
64	480-193310-G-3	1.1	0.0001	mg/l		0.0	man acc	
65	480-193310-G-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
66	480-193310-G-5	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction
67	480-193310-G-6	1.1	0.0002	mg/l		0.0	man acc	
68	480-193310-G-7	1.1	0.0008	mg/l		0.0	man acc	
69	480-193310-G-8	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
70	480-193317-D-1	1.1	0.0010	mg/l		0.0	man acc	
71	480-193317-D-2	1.1	0.0012	mg/l		0.0	man acc	
72	480-193317-D-3	1.1	0.0015	mg/l		0.0	man acc	
73	480-193317-D-4	1.1	0.0015	mg/l		0.0	man acc	
75	480-193317-D-6	1.1	0.0021	mg/l		0.0	man acc	
78	480-193331-I-1	1.1	-0.0007	mg/l		0.0	man acc	Reaction direction
81	480-193335-I-1	1.1	0.0008	mg/l		0.0	man acc	
82	480-193335-I-2	1.1	0.0012	mg/l		0.0	man acc	
83	ms480-193335-I-2	1.1	0.0016	mg/l		1.0	man acc	
84	msd480-193335-I-2	1.1	0.0017	mg/l		1.0	man acc	
85	480-193335-I-3	1.1	0.0018	mg/l		0.0	man acc	
86	ms480-193335-I-3	1.1	0.0022	mg/l		1.0	man acc	Blank init abs. low
87	msd480-193335-I-3	1.1	0.0025	mg/l		1.0	man acc	
88	480-193335-I-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
89	480-193335-I-5	1.1	0.0016	mg/l		0.0	man acc	
90	480-193335-I-6	1.1	-0.0012	mg/l		1.0	man acc	Point(s) out of curve, Reaction directi

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
91	480-193026-G-1	1.1	-0.0025	mg/l		9.0	man acc	Reaction direction
92	ms480-193026-G-1	1.1	-0.0045	mg/l		9.0	man acc	Reaction direction
93	msd480-193026-G-	1.1	-0.0034	mg/l		9.0	man acc	Reaction direction
94	480-193265-G-3	1.1	-0.0105	mg/l		19.0	man acc	Reaction direction
95	480-193317-D-5	1.1	0.0016	mg/l		1.0	man acc	
96	ms480-193199-G-7	1.1	0.0147	mg/l		4.0	man acc	Point(s) out of curve
97	msd480-193199-G-	1.1	0.0162	mg/l		4.0	man acc	Point(s) out of curve
98	480-193265-G-7	1.1	0.0069	mg/l		1.0	man acc	Point(s) out of curve
99	480-193265-G-8	1.1	-0.0149	mg/l		24.0	man acc	Reaction direction, Blank init abs. low
100	480-193290-I-3	1.1	0.0003	mg/l		1.0	man acc	
101	480-193331-G-2	1.1	0.0043	mg/l		1.0	man acc	
102	480-193199-G-6	1.1	-0.0042	mg/l		1.0	man acc	Reaction direction
103	480-193203-G-2	1.1	0.0044	mg/l		1.0	man acc	Point(s) out of curve
104	480-193290-I-7	1.1	0.0000	mg/l		0.0	man acc	
105	480-193290-I-8	1.1	0.0017	mg/l		1.0	man acc	
106	480-193026-G-2	1.1	0.0186	mg/l		1.0	man acc	Point(s) out of curve
107	480-193317-D-7	1.1	0.0030	mg/l		1.0	man acc	
108	480-193317-D-8	1.1	0.0012	mg/l		1.0	man acc	Blank init abs. low
109	480-193334-J-1	1.1	0.0077	mg/l		1.0	man acc	Point(s) out of curve
111	480-193336-Q-2	1.1	-0.0328	mg/l		0.0	man acc	Point(s) out of curve, Reaction directi
112	480-193336-Q-3	1.1	0.0012	mg/l		0.0	man acc	
113	480-193336-Q-5	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
114	480-193336-Q-6	1.1	0.0016	mg/l		0.0	man acc	
115	480-193336-Q-7	1.1	0.0089	mg/l		2.0	man acc	Point(s) out of curve
116	480-193337-H-1	1.1	0.0022	mg/l		0.0	man acc	Point(s) out of curve
117	ms480-193337-H-1	1.1	0.0032	mg/l		1.0	man acc	
118	msd480-193337-H-	1.1	0.0029	mg/l		1.0	man acc	
119	480-193337-H-2	1.1	0.0021	mg/l		0.0	man acc	Point(s) out of curve
120	ms480-193337-H-2	1.1	0.0026	mg/l		1.0	man acc	
121	msd480-193337-H-	1.1	0.0024	mg/l		1.0	man acc	
122	480-193369-K-1	1.1	0.0020	mg/l		0.0	man acc	
123	480-193369-K-2	1.1	0.0001	mg/l		0.0	man acc	
124	480-193369-K-3	1.1	0.0001	mg/l		0.0	man acc	
125	480-193369-K-4	1.1	0.0041	mg/l		0.0	man acc	Point(s) out of curve
126	480-193369-K-5	1.1	0.0043	mg/l		0.0	man acc	Point(s) out of curve
128	480-193397-D-2	1.1	0.0008	mg/l		0.0	man acc	
131	480-193397-D-5	1.1	0.0024	mg/l		0.0	man acc	Blank init abs. low
132	480-193397-D-6	1.1	0.0016	mg/l		0.0	man acc	
134	480-193436-K-2	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
135	480-193436-K-3	1.1	0.0041	mg/l		0.0	man acc	Point(s) out of curve
136	ms480-193436-K-3	1.1	0.0035	mg/l		1.0	man acc	
137	msd480-193436-K-	1.1	0.0035	mg/l		1.0	man acc	
138	480-193436-K-4	1.1	0.0014	mg/l		0.0	man acc	
139	480-193436-K-5	1.1	0.0026	mg/l		0.0	man acc	Point(s) out of curve
140	ms480-193436-K-5	1.1	0.0034	mg/l		1.0	man acc	
141	msd480-193436-K-	1.1	0.0000	mg/l		0.0	man acc	
142	480-193436-K-6	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
143	480-193436-K-7	1.1	0.0017	mg/l		0.0	man acc	
144	480-193436-K-8	1.1	0.0001	mg/l		0.0	man acc	
145	480-193439-H-1	1.1	0.0007	mg/l		0.0	man acc	
146	480-193439-H-2	1.1	0.0013	mg/l		0.0	man acc	
147	480-193439-H-3	1.1	0.0014	mg/l		0.0	man acc	
148	480-193439-H-4	1.1	0.0019	mg/l		0.0	man acc	
149	480-193439-H-5	1.1	0.0011	mg/l		0.0	man acc	
150	480-193439-H-6	1.1	0.0003	mg/l		0.0	man acc	
151	480-193439-H-7	1.1	0.0008	mg/l		0.0	man acc	
153	480-193439-H-9	1.1	0.0002	mg/l		0.0	man acc	
155	480-193439-H-11	1.1	0.0010	mg/l		0.0	man acc	
156	480-193444-I-1	1.1	0.0004	mg/l		0.0	man acc	
157	480-193444-I-2	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
158	480-193444-I-3	1.1	0.0003	mg/l		0.0	man acc	
159	ms480-193444-I-3	1.1	0.0026	mg/l		1.0	man acc	
160	msd480-193444-I-3	1.1	0.0026	mg/l		1.0	man acc	
162	ms480-193444-I-4	1.1	0.0004	mg/l		1.0	man acc	Point(s) out of curve
163	msd480-193444-I-4	1.1	-0.0002	mg/l		1.0	man acc	Reaction direction
165	480-193444-I-6	1.1	0.0018	mg/l		0.0	man acc	
166	480-193467-I-1	1.1	0.0000	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
167	ms480-193467-I-1	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
168	msd480-193467-I-1	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
169	480-193467-I-2	1.1	0.0099	mg/l		4.0	man acc	
170	480-193467-I-3	1.1	0.0037	mg/l		4.0	man acc	
171	480-193467-I-4	1.1	-0.0001	mg/l		4.0	man acc	Reaction direction
172	480-193467-I-5	1.1	0.0006	mg/l		0.0	man acc	
173	480-193467-I-6	1.1	-0.0368	mg/l		49.0	man acc	Reaction direction, Blank init abs. low
174	480-193467-I-7	1.1	-0.0179	mg/l		24.0	man acc	Reaction direction
175	480-193481-G-1	1.1	-0.0041	mg/l		29.0	man acc	Reaction direction
176	480-193482-G-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
177	480-193482-G-2	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction

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Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
178	480-193482-G-3	1.1	-0.0102	mg/l		19.0	man acc	Reaction direction
179	480-193482-G-4	1.1	-0.0003	mg/l		19.0	man acc	Reaction direction
180	480-193482-G-5	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction
181	480-193482-G-6	1.1	-0.0545	mg/l		49.0	man acc	Reaction direction
182	480-193482-G-7	1.1	0.0420	mg/l		2.0	man acc	Point(s) out of curve
183	480-193482-G-8	1.1	-0.0211	mg/l		39.0	man acc	Reaction direction, Blank init abs. low
184	480-193482-G-9	1.1	0.0153	mg/l		9.0	man acc	
185	480-193512-K-1	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
186	480-193512-K-2	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
187	480-193512-K-3	1.1	0.0019	mg/l		0.0	man acc	
188	480-193512-K-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
189	480-193526-C-5	1.1	0.0015	mg/l		0.0	man acc	
192	480-193526-C-6	1.1	0.0015	mg/l		0.0	man acc	
194	480-193531-G-2	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
199	480-193531-G-7	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction
200	480-193336-Q-1	1.1	0.0104	mg/l		4.0	man acc	
201	480-193397-D-1	1.1	0.0039	mg/l		1.0	man acc	Point(s) out of curve
202	480-193397-D-3	1.1	0.0013	mg/l		1.0	man acc	
203	480-193397-D-4	1.1	0.0008	mg/l		1.0	man acc	
204	480-193397-D-7	1.1	0.0025	mg/l		1.0	man acc	
205	480-193444-I-4	1.1	0.0040	mg/l		1.0	man acc	
206	480-193439-H-8	1.1	0.0102	mg/l		4.0	man acc	
207	480-193439-H-10	1.1	0.0017	mg/l		4.0	man acc	
208	480-193444-I-5	1.1	0.0121	mg/l		4.0	man acc	Point(s) out of curve
209	ms480-193526-C-5	1.1	0.0011	mg/l		1.0	man acc	
210	msd480-193526-C-	1.1	0.0010	mg/l		1.0	man acc	
211	480-193531-G-1	1.1	0.0043	mg/l		1.0	man acc	
212	480-193531-G-3	1.1	0.0003	mg/l		1.0	man acc	
213	480-193531-G-4	1.1	-0.0007	mg/l		1.0	man acc	Reaction direction
214	480-193531-G-5	1.1	0.0019	mg/l		1.0	man acc	
215	480-193531-G-6	1.1	0.0003	mg/l		1.0	man acc	

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Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193024-G-1	20-183-2R	9038	Sulfate	Total/NA	mg/L	6	20.0	448	☐	315.738 - 796.262	☐	350.4 - 778.8
480-193026-G-1	98-187-2	9038	Sulfate	Total/NA	mg/L	8	10.0	239	☐	0 - 336.988	☐	53.76 - 292.8
480-193026-G-2	98-188-1	9038	Sulfate	Total/NA	mg/L	8	2.0	18.2	☐	0 - 235.061	☐	0 - 212.4
480-193026-G-3	98-188-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193026-G-4	98-188-3	9038	Sulfate	Total/NA	mg/L	8	1.0	20.2	☑	0 - 0	☑	0 - 0
480-193026-G-5	98-193-2	9038	Sulfate	Total/NA	mg/L	8	1.0	7.1	☑	0 - 0	☑	0 - 0
480-193026-G-6	98-194-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-1	03-197-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-2	03-197-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-3	03-198-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-4	03-198-2	9038	Sulfate	Total/NA	mg/L	8	1.0	27.3	☐	0 - 61.922	☐	5.6 - 52.2
480-193199-G-5	03-199-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-6	03-199-2	9038	Sulfate	Total/NA	mg/L	8	2.0	25.1	☐	0 - 283.816	☐	0 - 210
480-193199-G-7	03-200-1	9038	Sulfate	Total/NA	mg/L	8	3.0	58.6	☐	30.057 - 128.668	☐	40 - 120
480-193199-G-8	03-200-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193203-G-1	88-148-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193203-G-2	96-148-2R	9038	Sulfate	Total/NA	mg/L	8	2.0	57.7	☐	0 - 122.217	☐	0 - 124.8
480-193241-I-1	01FB	D516	Sulfate	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 28.041	☐	0 - 30.12
480-193241-I-2	MW04	D516	Sulfate	Total/NA	mg/L as N	8	1.0	9.6	☐	5.942 - 19.183	☐	8.48 - 20.16
480-193241-I-3	MW05	D516	Sulfate	Total/NA	mg/L as N	8	1.0	23.4	☐	16.613 - 32.462	☐	18.16 - 37.2
480-193241-I-4	MW06D	D516	Sulfate	Total/NA	mg/L as N	8	1.0	23.9	☐	13.183 - 25.292	☐	13.84 - 28.44
480-193241-I-5	MW06S	D516	Sulfate	Total/NA	mg/L as N	8	1.0	15.8	☐	9.602 - 20.998	☐	8.72 - 21.72
480-193241-I-6	MW07	D516	Sulfate	Total/NA	mg/L as N	8	1.0	16.0	☐	11.142 - 18.633	☐	10.48 - 20.52
480-193243-I-1	SW001	D516	Sulfate	Total/NA	mg/L	6	1.0	ND	☐	0 - 49.646	☐	0 - 43.8
480-193243-I-2	SW003	D516	Sulfate	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0
480-193265-G-1	89-156-2	9038	Sulfate	Total/NA	mg/L	8	10.0	148	☐	10.6 - 643.4	☑	202.4 - 705.6
480-193265-G-10	357R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193265-G-11	D-19RR	9038	Sulfate	Total/NA	mg/L	8	10.0	308	☐	0 - 532.366	☐	0 - 378
480-193265-G-2	98-156-3	9038	Sulfate	Total/NA	mg/L	8	10.0	265	☐	0 - 958.473	☐	57.44 - 687.6
480-193265-G-3	98-186-2	9038	Sulfate	Total/NA	mg/L	8	20.0	498	☐	10.6 - 643.4	☐	202.4 - 705.6
480-193265-G-4	75R	9038	Sulfate	Total/NA	mg/L	8	5.0	181	☐	96.975 - 268.775	☐	108 - 292.8
480-193265-G-5	76R	9038	Sulfate	Total/NA	mg/L	8	5.0	152	☐	135.831 - 210.169	☐	125.6 - 230.4
480-193265-G-6	DUP@76R	9038	Sulfate	Total/NA	mg/L	1	5.0	154	☑	146 - 146	☐	116.8 - 175.2
480-193265-G-7	94R	9038	Sulfate	Total/NA	mg/L	8	2.0	20.8	☐	0 - 158.527	☐	13.2 - 162
480-193265-G-8	PELA-4	9038	Sulfate	Total/NA	mg/L	8	25.0	867	☐	0 - 1148.456	☐	180 - 948
480-193265-G-9	89-167-3	9038	Sulfate	Total/NA	mg/L	8	1.0	33.0	☐	0 - 85.88	☐	0 - 79.44
480-193290-I-2	MW-13S	9038	Sulfate	Total/NA	mg/L	8	1.0	31.6	☐	20.607 - 44.693	☐	20.08 - 45.96
480-193290-I-3	MW-19D	9038	Sulfate	Total/NA	mg/L	8	2.0	40.7	☐	0 - 47.396	☐	7.92 - 43.56
480-193290-I-4	MW-19S	9038	Sulfate	Total/NA	mg/L	8	1.0	9.4	☐	5.129 - 11.996	☐	5.76 - 12.36

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Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193290-I-5	MW-7S	9038	Sulfate	Total/NA	mg/L	8	1.0	14.9	☐	12.755 - 47.72	☑	18.96 - 47.04
480-193290-I-6	MW-DUP	9038	Sulfate	Total/NA	mg/L	8	1.0	15.8	☐	0 - 106.443	☐	0 - 104.4
480-193290-I-7	MW-14S	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 95.4	☐	0 - 102.36
480-193290-I-8	MW-15S	9038	Sulfate	Total/NA	mg/L	8	2.0	11.0	☐	0 - 227.301	☐	0 - 184.8
480-193290-I-9	MW-6S2	9038	Sulfate	Total/NA	mg/L	8	5.0	131	☐	112.873 - 192.627	☐	103.2 - 205.2
480-193305-E-1	MHOLT	D516	Sulfate	Total/NA	mg/L	8	25.0	529	☐	202.379 - 1011.871	☐	303.2 - 939.6
480-193331-G-2	MW-16D	9038	Sulfate	Total/NA	mg/L	8	2.0	33.5	☐	28.997 - 50.128	☐	27.36 - 54.72
480-193331-I-1	MW-16S	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193334-J-1	WMNMH1	D516	Sulfate	Total/NA	mg/L	8	2.0	78.0	☐	0 - 399.614	☐	0 - 397.2
480-193335-I-1	MW-12AA	9038	Sulfate	Total/NA	mg/L	8	1.0	30.2	☐	15.534 - 40.316	☐	16.32 - 38.4
480-193335-I-2	MW-12BBB	9038	Sulfate	Total/NA	mg/L	8	1.0	30.5	☐	20.854 - 38.696	☐	18.48 - 41.04
480-193335-I-3	MW-13A	9038	Sulfate	Total/NA	mg/L	8	1.0	20.9	☐	18.749 - 26.076	☐	16.56 - 28.92
480-193335-I-4	MW-13B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-I-5	MW-17A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.9	☐	0.937 - 40.063	☐	9.52 - 35.88
480-193335-I-6	MW-17B	9038	Sulfate	Total/NA	mg/L	8	2.0	51.5	☐	41.329 - 82.996	☐	42.8 - 87
480-193336-Q-1	SLC-2A	9038	Sulfate	Total/NA	mg/L	8	5.0	93.0	☑	0 - 0	☑	0 - 0
480-193336-Q-2	PLC-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 118.419	☐	0 - 127.2
480-193336-Q-3	PLC-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 6.368	☐	0 - 6.84
480-193336-Q-5	SLC-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193336-Q-6	PLC-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 9.211	☐	0 - 7.92
480-193336-Q-7	LD-1	9038	Sulfate	Total/NA	mg/L	8	3.0	42.7	☐	36.367 - 123.958	☑	50.72 - 122.4
480-193337-H-1	CD-1	9038	Sulfate	Total/NA	mg/L	8	1.0	17.3	☐	10.432 - 28.668	☐	12.64 - 31.32
480-193337-H-2	CD-1RA	9038	Sulfate	Total/NA	mg/L	8	1.0	17.8	☐	5.672 - 28.503	☐	6.24 - 25.68
480-193369-K-1	MW-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.9	☐	0 - 38.339	☐	0 - 27.24
480-193369-K-2	MW-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-K-3	MW-2B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-K-4	MW-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	7.2	☐	0 - 23.524	☐	4.8 - 25.44
480-193369-K-5	DUP MW-1B	9038	Sulfate	Total/NA	mg/L	1	1.0	7.1	☑	7.8 - 7.8	☐	6.24 - 9.36
480-193436-K-2	MW-3A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-3	MW-3B	9038	Sulfate	Total/NA	mg/L	8	1.0	10.9	☐	4.627 - 16.923	☐	5.36 - 15.84
480-193436-K-4	MW-4A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.356	☐	0 - 8.76
480-193436-K-5	MW-5A	9038	Sulfate	Total/NA	mg/L	8	1.0	16.5	☐	3.112 - 26.588	☐	7.04 - 26.28
480-193436-K-6	MW-6A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-7	MW-6B	9038	Sulfate	Total/NA	mg/L	8	1.0	23.5	☐	0 - 41.713	☐	4.16 - 42.6
480-193436-K-8	MW-7A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 41.335	☐	0 - 44.4
480-193444-I-3	DUP-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 75.935	☐	0 - 62.4
480-193444-I-4	SW-2	9038	Sulfate	Total/NA	mg/L	8	2.0	40	☐	0 - 41.783	☑	6.4 - 37.2
480-193467-I-1	01FB	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-I-2	YSC01	9038	Sulfate	Total/NA	mg/L	8	5.0	35.4	☐	0 - 306.195	☐	0 - 216

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Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193467-I-3	YSC02	9038	Sulfate	Total/NA	mg/L	8	5.0	124	☐	90.207 - 136.043	☐	81.6 - 148.8
480-193467-I-4	YSP03R	9038	Sulfate	Total/NA	mg/L	8	5.0	158	☐	65.75 - 331.75	☐	108 - 308.4
480-193467-I-5	YSP05	9038	Sulfate	Total/NA	mg/L	8	1.0	36.3	☐	29.717 - 43.133	☐	25.68 - 48.48
480-193467-I-6	YSP08	9038	Sulfate	Total/NA	mg/L	8	50.0	1610	☐	1403.099 - 1804.401	☐	1176 - 2052
480-193467-I-7	YSP09	9038	Sulfate	Total/NA	mg/L	8	25.0	833	☐	722.844 - 882.656	☐	599.2 - 1004.4
480-193481-G-1	MH8L-MLD	9038	Sulfate	Total/NA	mg/L	8	30.0	698	☐	362.619 - 2034.631	☐	618.4 - 1776
480-193482-G-1	172R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-G-2	413R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-G-3	173R	9038	Sulfate	Total/NA	mg/L	8	20.0	629	☐	560.507 - 711.493	☐	478.4 - 807.6
480-193482-G-4	171R	9038	Sulfate	Total/NA	mg/L	8	20.0	473	☐	373.205 - 562.295	☐	345.6 - 643.2
480-193482-G-5	169RR	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 11.06	☐	0 - 11.88
480-193482-G-6	170R	9038	Sulfate	Total/NA	mg/L	8	50.0	1620	☐	1596.505 - 2043.495	☐	1360 - 2352
480-193482-G-7	302R	9038	Sulfate	Total/NA	mg/L	8	3.0	56.4	☐	0 - 306.717	☑	58.48 - 289.2 OK
480-193482-G-8	301RR	9038	Sulfate	Total/NA	mg/L	8	40.0	1200	☐	598.967 - 1638.783	☐	568.8 - 1572
480-193482-G-9	300R	9038	Sulfate	Total/NA	mg/L	8	10.0	361	☐	91.276 - 482.974	☐	145.6 - 441.6
480-193512-K-1	WS-1	9038	Sulfate	Total/NA	mg/L	8	1.0	33.6	☐	0 - 75.901	☐	0 - 47.76
480-193512-K-2	CW-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 70.622	☐	0 - 54.48
480-193512-K-3	CW-15	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 48.258	☐	0 - 38.4
480-193512-K-4	CW-16	9038	Sulfate	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0

Chauvin 12/30/2021 12/22/2021

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Wet Chemistry Dept

Analysis: Sulfate

Method: 9038

Date of Analytical Run: 12/16/21

Analyst/Primary Reviewer: SMW

Date of Primary Review: 12/17/21

Secondary Reviewer: _____

Date of Secondary Review: _____

Prep Batch Number					
Analytical Batch Number	609236				

Criteria for QC	1st Level	2nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, r > or = 0.995, pH meter slope 90-110% (if applicable)	Y			
Was Data Imported X Manually Entered ____ Balance Interface Used ____	Impt			
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Y			
Were the ICB, CCB and MB all <RL?	Y			
Was there a CCV/CCB combination run after every 10 samples or less?	Y			
Was there an LCS run with every batch of 20 samples or less?	Y			
Was there a DU, MS or MSD run with every batch of 20 samples or less?	Y			
Were all MS/MSD results within acceptable limits for QC recovery?	N			
Were all DU or MSD RPDs within acceptable limits for QC recovery?	Y			
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	Y			
Are dilution factors all present and correct?	Y			
Do all entries match raw data?	Y			
Were there any holding time violations in this batch?	N			**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y			
Were any NCMs needed in the batch?	N			NCM #s:
Data scanned in?	Y			

Sulfate

9038/D516

1000 PPM	(MS/MSD/CAL)	6560004	EXP: 11/30/2022
30 PPM	(CCV/LCS)	6791930	EXP: 12/20/2021
Precipitating Solution:		6791929	EXP: 12/20/2021
ICV: made from IC standard		6791931	EXP: 02/22/2022

CURVE:

Kone 1: 11/19/2019 Batch: 505599
100 ppm: 5657751

Kone 2: 06/29/2020 Batch: 538610
100 ppm: 5994552

Kone 3: 07/23/2019 Batch: 483387
100 ppm: 5409342

Gallery 1: 12/16/2021 Batch: 609236
100 ppm: 6822609

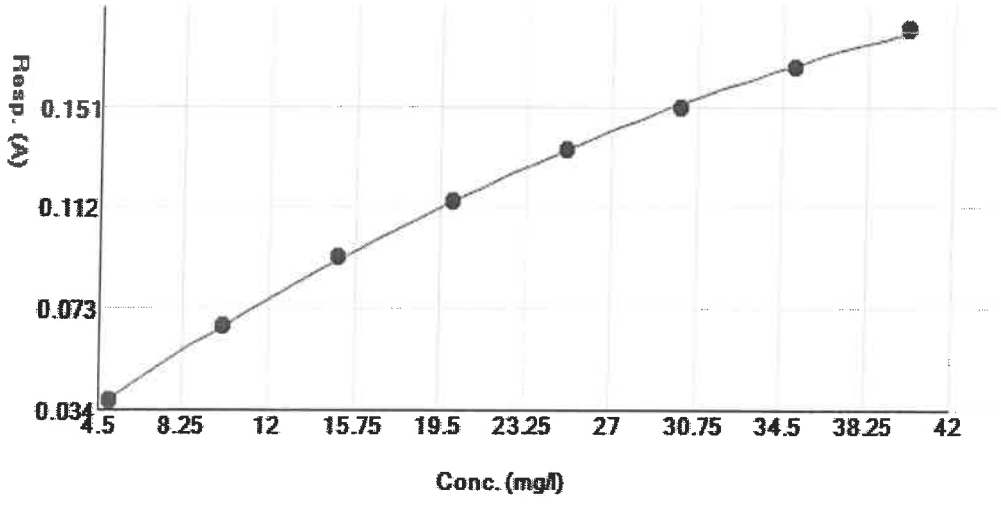
Calibration results

SO4 Version number 1.3

Date	12/16/2021	**User**	BufGallery1
Time	7:26:30PM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	SO4	**Coeff. of deter.**	0.999645
Status	Accepted	**Total factor**	246.737
Accepted	12/16/2021 7:26 PM		
Checked	12/16/2021 7:26 PM	Zero-order factor	0.008
User name	BufGallery1	1st order factor	0.006
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
SO4 5	0.037	4.844	5.000	Default	
SO4 10	0.067	10.097	10.000	Default	
SO4 15	0.093	15.241	15.000	Default	
SO4 20	0.114	20.010	20.000	Default	
SO4 25	0.135	25.054	25.000	Default	
SO4 30	0.151	29.656	30.000	Default	
SO4 35	0.166	34.626	35.000	Default	
SO4 40	0.181	40.512	40.000	Default	
ICB	0.013	0.59	0.00	Default	Outside calibration
SO4 ICV	0.156	31.04	30.00	Default	



Water blank results

Date 12/17/2021 **User** BufGallery1

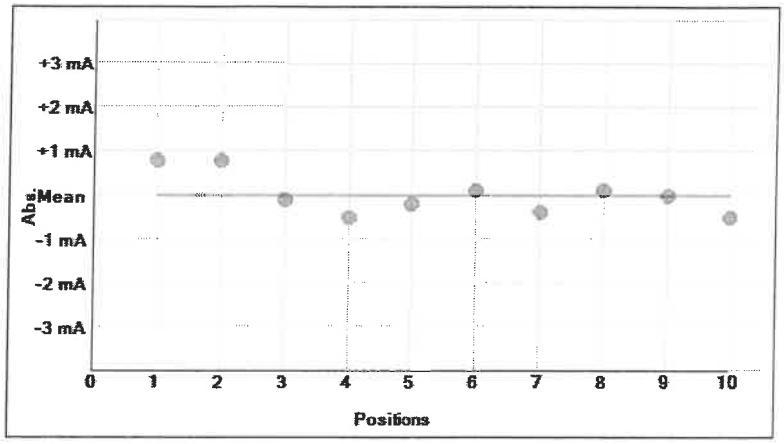
Time 4:13:02AM **Software version: 6.0.2**

Measurement time
12/16/2021 6:45 PM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1003.1**	**0.5**
420	-1036.4	0.2
480	-1046.9	0.2
510	-1050.5	0.2
540	-1054.0	0.1
575	-1057.1	0.2
600	-1058.6	0.2
620	-1060.0	0.2
660	-1062.3	0.1
700	-1063.5	0.1
880	-1047.0	0.2

340



Results by Test

Date 12/17/2021 **User** BufGallery1

Time 4:00:07AM **Software version: 6.0.2**

Test name SO4

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	CCB	1.3	0.53	mg/l		0.0	man acc	Outside calibration
2	CCV SO4	1.3	30.24	mg/l		0.0	man acc	
7	CCB	1.3	1.83	mg/l		0.0	man acc	Outside calibration
8	CCV SO4	1.3	30.41	mg/l		0.0	man acc	
11	480-193026-G-4	1.3	20.21	mg/l		0.0	man acc	
12	480-193026-G-5	1.3	7.13	mg/l		0.0	man acc	
13	CCB	1.3	0.54	mg/l		0.0	man acc	Outside calibration
14	CCV SO4	1.3	30.44	mg/l		0.0	man acc	
16	480-193026-G-6	1.3	0.61	mg/l		0.0	man acc	Outside calibration
17	480-193199-G-1	1.3	0.24	mg/l		0.0	man acc	Outside calibration
18	480-193199-G-2	1.3	0.32	mg/l		0.0	man acc	Outside calibration
19	480-193199-G-3	1.3	0.72	mg/l		0.0	man acc	Outside calibration
20	CCB	1.3	1.01	mg/l		0.0	man acc	Outside calibration
21	CCV SO4	1.3	30.61	mg/l		0.0	man acc	
22	480-193199-G-4	1.3	27.35	mg/l		0.0	man acc	
23	480-193199-G-5	1.3	0.29	mg/l		0.0	man acc	Outside calibration
24	480-193026-G-1	1.3	239.26	mg/l		9.0	man acc	
26	CCB	1.3	0.78	mg/l		0.0	man acc	Outside calibration
27	CCV SO4	1.3	30.89	mg/l		0.0	man acc	
28	ms480-193026-G-1	1.3	252.43	mg/l		9.0	man acc	
29	msd480-193026-G-	1.3	258.10	mg/l		9.0	man acc	
31	480-193199-G-7	1.3	58.55	mg/l		2.0	man acc	
37	CCB	1.3	0.45	mg/l		0.0	man acc	Outside calibration
38	CCV SO4	1.3	29.94	mg/l		0.0	man acc	
43	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
44	CCV SO4	1.3	29.24	mg/l		0.0	man acc	
45	ms480-193241-I-2	1.3	31.76	mg/l		0.0	man acc	
46	msd480-193241-I-2	1.3	34.56	mg/l		0.0	man acc	
49	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
50	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
51	480-193241-I-5	1.3	15.80	mg/l		0.0	man acc	
52	480-193241-I-6	1.3	16.02	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
53	ms480-193241-I-6	1.3	36.21	mg/l		0.0	man acc	
54	msd480-193241-I-6	1.3	36.61	mg/l		0.0	man acc	
55	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
56	CCV SO4	1.3	29.72	mg/l		0.0	man acc	
57	480-193243-I-1	1.3	0.38	mg/l		0.0	man acc	Outside calibration
58	480-193243-I-2	1.3	1.58	mg/l		0.0	man acc	Outside calibration
59	480-193265-G-1	1.3	148.26	mg/l		9.0	man acc	
60	480-193265-G-2	1.3	264.60	mg/l		9.0	man acc	
61	CCB	1.3	0.33	mg/l		0.0	man acc	Outside calibration
62	CCV SO4	1.3	30.05	mg/l		0.0	man acc	
64	480-193265-G-4	1.3	180.61	mg/l		4.0	man acc	
65	480-193265-G-5	1.3	151.66	mg/l		4.0	man acc	
66	480-193265-G-6	1.3	154.37	mg/l		4.0	man acc	
67	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
68	CCV SO4	1.3	29.74	mg/l		0.0	man acc	
73	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
74	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
77	480-193265-G-3	1.3	497.87	mg/l		19.0	man acc	
78	ms480-193290-I-2	1.3	51.11	mg/l		1.0	man acc	
79	CCB	1.3	0.27	mg/l		0.0	man acc	Outside calibration
80	CCV SO4	1.3	29.53	mg/l		0.0	man acc	
84	CCB	1.3	0.59	mg/l		0.0	man acc	Outside calibration
85	CCV SO4	1.3	29.38	mg/l		0.0	man acc	
87	ms480-193290-I-4	1.3	31.64	mg/l		0.0	man acc	
89	msd480-193290-I-4	1.3	31.02	mg/l		0.0	man acc	
91	CCB	1.3	0.36	mg/l		0.0	man acc	Outside calibration
92	CCV SO4	1.3	29.90	mg/l		0.0	man acc	
97	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
98	CCV SO4	1.3	29.39	mg/l		0.0	man acc	
100	ms480-193290-I-9	1.3	160.89	mg/l		4.0	man acc	
101	msd480-193290-I-9	1.3	150.48	mg/l		4.0	man acc	
102	CCB	1.3	0.42	mg/l		0.0	man acc	Outside calibration
104	CCV SO4	1.3	31.98	mg/l		0.0	man acc	
105	ms480-193305-E-1	1.3	525.78	mg/l		24.0	man acc	
106	msd480-193305-E-	1.3	529.05	mg/l		24.0	man acc	
107	480-193310-G-1	1.3	1.72	mg/l		0.0	man acc	Outside calibration
108	480-193310-G-2	1.3	0.39	mg/l		0.0	man acc	Outside calibration
109	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
110	CCV SO4	1.3	29.14	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
111	480-193310-G-3	1.3	1.01	mg/l		0.0	man acc	Outside calibration
112	480-193310-G-4	1.3	0.41	mg/l		0.0	man acc	Outside calibration
113	480-193310-G-5	1.3	0.50	mg/l		0.0	man acc	Outside calibration
114	480-193310-G-6	1.3	0.67	mg/l		0.0	man acc	Outside calibration
115	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
116	CCV SO4	1.3	28.91	mg/l		0.0	man acc	
117	480-193310-G-7	1.3	13.85	mg/l		0.0	man acc	
118	480-193310-G-8	1.3	0.28	mg/l		0.0	man acc	Outside calibration
119	480-193317-D-1	1.3	29.36	mg/l		0.0	man acc	
120	480-193317-D-2	1.3	27.32	mg/l		0.0	man acc	
121	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
122	CCV SO4	1.3	29.12	mg/l		0.0	man acc	
123	480-193317-D-3	1.3	23.73	mg/l		0.0	man acc	
124	480-193317-D-4	1.3	24.23	mg/l		0.0	man acc	
126	480-193317-D-6	1.3	28.04	mg/l		0.0	man acc	
127	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
128	CCV SO4	1.3	29.11	mg/l		0.0	man acc	
133	CCB	1.3	0.31	mg/l		0.0	man acc	Outside calibration
134	CCV SO4	1.3	29.37	mg/l		0.0	man acc	
137	480-193335-I-2	1.3	30.53	mg/l		0.0	man acc	
138	ms480-193335-I-2	1.3	49.23	mg/l		1.0	man acc	
141	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
142	CCV SO4	1.3	29.63	mg/l		0.0	man acc	
143	msd480-193335-I-2	1.3	49.90	mg/l		1.0	man acc	
144	480-193335-I-3	1.3	20.86	mg/l		0.0	man acc	
145	480-193317-D-5	1.3	48.01	mg/l		1.0	man acc	
146	CCB	1.3	0.32	mg/l		0.0	man acc	Outside calibration
148	CCV SO4	1.3	30.05	mg/l		0.0	man acc	
149	480-193317-D-7	1.3	36.13	mg/l		1.0	man acc	
150	480-193317-D-8	1.3	55.61	mg/l		1.0	man acc	
151	480-193334-J-1	1.3	78.00	mg/l		1.0	man acc	
152	msd480-193335-I-3	1.3	43.94	mg/l		1.0	man acc	
156	CCB	1.3	0.48	mg/l		0.0	man acc	Outside calibration
157	CCV SO4	1.3	28.71	mg/l		0.0	man acc	
158	CCB	1.3	0.43	mg/l		0.0	man acc	Outside calibration
159	CCV SO4	1.3	29.82	mg/l		0.0	man acc	
160	480-193024-G-1	1.3	448.33	mg/l		19.0	man acc	
162	480-193026-G-3	1.3	1.01	mg/l		0.0	man acc	Outside calibration
164	CCB	1.3	0.43	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
165	CCV SO4	1.3	29.45	mg/l		0.0	man acc	
166	480-193199-G-8	1.3	0.21	mg/l		0.0	man acc	Outside calibration
167	ms480-193199-G-7	1.3	72.73	mg/l		4.0	man acc	
168	msd480-193199-G-	1.3	82.48	mg/l		4.0	man acc	
169	480-193203-G-1	1.3	0.46	mg/l		0.0	man acc	Outside calibration
170	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
171	CCV SO4	1.3	30.29	mg/l		0.0	man acc	
173	480-193241-I-1	1.3	0.42	mg/l		0.0	man acc	Outside calibration
174	480-193241-I-2	1.3	9.58	mg/l		0.0	man acc	
175	480-193241-I-3	1.3	23.39	mg/l		0.0	man acc	
176	CCB	1.3	0.38	mg/l		0.0	man acc	Outside calibration
177	CCV SO4	1.3	30.02	mg/l		0.0	man acc	
178	480-193241-I-4	1.3	23.85	mg/l		0.0	man acc	
179	480-193265-G-9	1.3	33.04	mg/l		0.0	man acc	
180	480-193265-G-7	1.3	20.82	mg/l		1.0	man acc	
181	480-193265-G-8	1.3	867.42	mg/l		24.0	man acc	Test limit High
182	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
183	CCV SO4	1.3	28.98	mg/l		0.0	man acc	
184	480-193265-G-10	1.3	2.25	mg/l		0.0	man acc	Outside calibration
185	480-193290-I-2	1.3	31.60	mg/l		0.0	man acc	
186	480-193265-G-11	1.3	308.21	mg/l		9.0	man acc	
187	msd480-193290-I-2	1.3	52.31	mg/l		1.0	man acc	
188	CCB	1.3	0.22	mg/l		0.0	man acc	Outside calibration
189	CCV SO4	1.3	30.02	mg/l		0.0	man acc	
190	480-193290-I-4	1.3	9.43	mg/l		0.0	man acc	
191	480-193290-I-5	1.3	14.90	mg/l		0.0	man acc	
192	480-193290-I-3	1.3	40.66	mg/l		1.0	man acc	
193	480-193290-I-6	1.3	15.77	mg/l		0.0	man acc	
194	CCB	1.3	0.30	mg/l		0.0	man acc	Outside calibration
195	CCV SO4	1.3	29.55	mg/l		0.0	man acc	
198	CCB	1.3	0.39	mg/l		0.0	man acc	Outside calibration
201	CCV SO4	1.3	29.54	mg/l		0.0	man acc	
204	480-193331-G-2	1.3	33.47	mg/l		1.0	man acc	
205	ms480-193335-I-3	1.3	42.70	mg/l		1.0	man acc	
206	CCB	1.3	0.08	mg/l		0.0	man acc	Outside calibration
207	CCV SO4	1.3	30.62	mg/l		0.0	man acc	
208	480-193335-I-4	1.3	0.27	mg/l		0.0	man acc	Outside calibration
209	480-193335-I-5	1.3	17.94	mg/l		0.0	man acc	
211	480-193335-I-6	1.3	51.48	mg/l		1.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
212	CCB	1.3	0.33	mg/l		0.0	man acc	Outside calibration
213	CCV SO4	1.3	29.50	mg/l		0.0	man acc	
215	CCB	1.3	0.35	mg/l		0.0	man acc	Outside calibration
216	CCV SO4	1.3	29.34	mg/l		0.0	man acc	
217	CCB	1.3	0.00	mg/l		0.0	man acc	Outside calibration
218	CCV SO4	1.3	28.36	mg/l		0.0	man acc	
220	480-193199-G-6	1.3	25.13	mg/l		1.0	man acc	
221	480-193203-G-2	1.3	57.67	mg/l		1.0	man acc	
222	480-193290-I-7	1.3	-0.12	mg/l		0.0	man acc	Outside calibration
223	CCB	1.3	-0.09	mg/l		0.0	man acc	Outside calibration
224	CCV SO4	1.3	27.52	mg/l		0.0	man acc	
225	480-193331-I-1	1.3	3.97	mg/l		0.0	man acc	Outside calibration
226	480-193290-I-8	1.3	10.98	mg/l		1.0	man acc	
227	480-193290-I-9	1.3	131.06	mg/l		4.0	man acc	
231	480-193335-I-1	1.3	30.22	mg/l		0.0	man acc	
234	CCB	1.3	-0.07	mg/l		0.0	man acc	Outside calibration
235	CCV SO4	1.3	28.01	mg/l		0.0	man acc	
236	480-193026-G-2	1.3	18.17	mg/l		1.0	man acc	
237	480-193305-E-1	1.3	528.97	mg/l		24.0	man acc	
240	CCB	1.3	-0.06	mg/l		0.0	man acc	Outside calibration
241	CCV SO4	1.3	27.65	mg/l		0.0	man acc	
243	480-193336-Q-2	1.3	-1.64	mg/l		0.0	man acc	Outside calibration
244	480-193336-Q-3	1.3	2.73	mg/l		0.0	man acc	Outside calibration
245	480-193336-Q-5	1.3	0.23	mg/l		0.0	man acc	Outside calibration
246	CCB	1.3	-0.12	mg/l		0.0	man acc	Outside calibration
247	CCV SO4	1.3	27.99	mg/l		0.0	man acc	
248	480-193336-Q-6	1.3	3.84	mg/l		0.0	man acc	Outside calibration
249	480-193336-Q-7	1.3	42.69	mg/l		2.0	man acc	
250	480-193337-H-1	1.3	17.27	mg/l		0.0	man acc	
251	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
252	CCV SO4	1.3	27.24	mg/l		0.0	man acc	
253	ms480-193337-H-1	1.3	36.91	mg/l		1.0	man acc	
254	msd480-193337-H-	1.3	37.60	mg/l		1.0	man acc	
255	480-193337-H-2	1.3	17.76	mg/l		0.0	man acc	
256	CCB	1.3	-0.25	mg/l		0.0	man acc	Outside calibration
258	CCV SO4	1.3	28.61	mg/l		0.0	man acc	
260	msd480-193337-H-	1.3	37.48	mg/l		1.0	man acc	
261	480-193369-K-1	1.3	17.94	mg/l		0.0	man acc	
262	480-193369-K-2	1.3	-0.16	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
263	CCB	1.3	-0.18	mg/l		0.0	man acc	Outside calibration
264	CCV SO4	1.3	27.82	mg/l		0.0	man acc	
265	480-193369-K-3	1.3	-0.03	mg/l		0.0	man acc	Outside calibration
266	480-193369-K-4	1.3	7.21	mg/l		0.0	man acc	
267	480-193369-K-5	1.3	7.08	mg/l		0.0	man acc	
269	CCB	1.3	-0.19	mg/l		0.0	man acc	Outside calibration
270	CCV SO4	1.3	27.65	mg/l		0.0	man acc	
271	480-193397-D-2	1.3	3.37	mg/l		0.0	man acc	Outside calibration
274	480-193397-D-5	1.3	22.64	mg/l		0.0	man acc	
275	CCB	1.3	-0.21	mg/l		0.0	man acc	Outside calibration
276	CCV SO4	1.3	27.81	mg/l		0.0	man acc	
277	480-193397-D-6	1.3	31.06	mg/l		0.0	man acc	
278	480-193336-Q-1	1.3	93.02	mg/l		4.0	man acc	
280	480-193436-K-2	1.3	0.02	mg/l		0.0	man acc	Outside calibration
281	CCB	1.3	-0.16	mg/l		0.0	man acc	Outside calibration
282	CCV SO4	1.3	27.72	mg/l		0.0	man acc	
283	480-193436-K-3	1.3	10.88	mg/l		0.0	man acc	
284	ms480-193436-K-3	1.3	33.25	mg/l		1.0	man acc	
285	480-193397-D-1	1.3	33.10	mg/l		1.0	man acc	
286	480-193397-D-3	1.3	52.14	mg/l		1.0	man acc	
287	CCB	1.3	-0.26	mg/l		0.0	man acc	Outside calibration
288	CCV SO4	1.3	27.49	mg/l		0.0	man acc	
289	msd480-193436-K-	1.3	36.07	mg/l		1.0	man acc	
290	480-193436-K-4	1.3	1.52	mg/l		0.0	man acc	Outside calibration
291	480-193397-D-4	1.3	60.96	mg/l		1.0	man acc	
292	480-193436-K-5	1.3	16.49	mg/l		0.0	man acc	
293	CCB	1.3	-0.11	mg/l		0.0	man acc	Outside calibration
294	CCV SO4	1.3	30.69	mg/l		0.0	man acc	
295	ms480-193436-K-5	1.3	36.09	mg/l		1.0	man acc	
296	msd480-193436-K-	1.3	39.57	mg/l		0.0	man acc	
297	480-193436-K-6	1.3	0.09	mg/l		0.0	man acc	Outside calibration
298	480-193397-D-7	1.3	50.78	mg/l		1.0	man acc	
299	CCB	1.3	-0.04	mg/l		0.0	man acc	Outside calibration
300	CCV SO4	1.3	27.27	mg/l		0.0	man acc	
301	480-193436-K-7	1.3	23.49	mg/l		0.0	man acc	
302	480-193436-K-8	1.3	0.31	mg/l		0.0	man acc	Outside calibration
303	480-193439-H-1	1.3	16.99	mg/l		0.0	man acc	
304	480-193439-H-2	1.3	15.81	mg/l		0.0	man acc	
305	CCB	1.3	0.02	mg/l		0.0	man acc	Outside calibration

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
306	CCV SO4	1.3	27.94	mg/l		0.0	man acc	
307	480-193439-H-3	1.3	17.36	mg/l		0.0	man acc	
308	480-193439-H-4	1.3	16.10	mg/l		0.0	man acc	
309	480-193439-H-5	1.3	15.78	mg/l		0.0	man acc	
310	480-193439-H-6	1.3	1.50	mg/l		0.0	man acc	Outside calibration
311	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
312	CCV SO4	1.3	28.50	mg/l		0.0	man acc	
313	480-193439-H-7	1.3	11.64	mg/l		0.0	man acc	
315	480-193439-H-9	1.3	28.03	mg/l		0.0	man acc	
319	CCB	1.3	-0.01	mg/l		0.0	man acc	Outside calibration
320	CCV SO4	1.3	28.08	mg/l		0.0	man acc	
321	480-193439-H-11	1.3	24.25	mg/l		0.0	man acc	
322	480-193444-I-1	1.3	0.66	mg/l		0.0	man acc	Outside calibration
323	480-193444-I-2	1.3	0.08	mg/l		0.0	man acc	Outside calibration
324	480-193444-I-3	1.3	0.67	mg/l		0.0	man acc	Outside calibration
325	CCB	1.3	0.08	mg/l		0.0	man acc	Outside calibration
326	CCV SO4	1.3	28.05	mg/l		0.0	man acc	
327	ms480-193444-I-3	1.3	21.52	mg/l		1.0	man acc	
328	msd480-193444-I-3	1.3	21.39	mg/l		1.0	man acc	
332	ms480-193444-I-4	1.3	59.66	mg/l		1.0	man acc	
333	msd480-193444-I-4	1.3	60.81	mg/l		1.0	man acc	
334	CCB	1.3	0.66	mg/l		0.0	man acc	Outside calibration
335	CCV SO4	1.3	29.70	mg/l		0.0	man acc	
337	480-193444-I-6	1.3	2.30	mg/l		0.0	man acc	Outside calibration
338	480-193467-I-1	1.3	0.59	mg/l		0.0	man acc	Outside calibration
339	ms480-193467-I-1	1.3	22.02	mg/l		0.0	man acc	
340	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
341	CCV SO4	1.3	29.19	mg/l		0.0	man acc	
342	msd480-193467-I-1	1.3	21.36	mg/l		0.0	man acc	
343	480-193444-I-4	1.3	39.64	mg/l		1.0	man acc	
344	480-193467-I-2	1.3	35.43	mg/l		4.0	man acc	
345	480-193439-H-10	1.3	95.98	mg/l		4.0	man acc	
346	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
347	CCV SO4	1.3	30.34	mg/l		0.0	man acc	
348	480-193439-H-8	1.3	88.12	mg/l		4.0	man acc	
349	480-193467-I-3	1.3	124.49	mg/l		4.0	man acc	
351	480-193467-I-4	1.3	158.35	mg/l		4.0	man acc	
352	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
353	CCV SO4	1.3	30.91	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
354	480-193467-I-5	1.3	36.31	mg/l		0.0	man acc	
355	480-193467-I-6	1.3	1,611.10	mg/l		49.0	man acc	Test limit High
356	480-193467-I-7	1.3	833.00	mg/l		24.0	man acc	Test limit High
357	480-193481-G-1	1.3	698.32	mg/l		29.0	man acc	
358	CCB	1.3	0.54	mg/l		0.0	man acc	Outside calibration
359	CCV SO4	1.3	29.95	mg/l		0.0	man acc	
360	480-193482-G-1	1.3	0.32	mg/l		0.0	man acc	Outside calibration
361	480-193482-G-2	1.3	0.35	mg/l		0.0	man acc	Outside calibration
362	480-193482-G-3	1.3	628.62	mg/l		19.0	man acc	Test limit High
363	480-193444-I-5	1.3	92.51	mg/l		4.0	man acc	
364	CCB	1.3	0.58	mg/l		0.0	man acc	Outside calibration
365	CCV SO4	1.3	31.06	mg/l		0.0	man acc	
366	480-193482-G-4	1.3	473.13	mg/l		19.0	man acc	
367	480-193482-G-5	1.3	0.33	mg/l		0.0	man acc	Outside calibration
368	480-193482-G-6	1.3	1,623.59	mg/l		49.0	man acc	Test limit High
369	480-193482-G-7	1.3	56.37	mg/l		2.0	man acc	
370	CCB	1.3	0.40	mg/l		0.0	man acc	Outside calibration
371	CCV SO4	1.3	29.40	mg/l		0.0	man acc	
372	480-193482-G-8	1.3	1,201.07	mg/l		39.0	man acc	Test limit High
373	480-193482-G-9	1.3	361.30	mg/l		9.0	man acc	
374	480-193512-K-1	1.3	33.56	mg/l		0.0	man acc	
375	480-193512-K-2	1.3	0.67	mg/l		0.0	man acc	Outside calibration
376	CCB	1.3	0.48	mg/l		0.0	man acc	Outside calibration
377	CCV SO4	1.3	30.16	mg/l		0.0	man acc	
378	480-193512-K-3	1.3	2.66	mg/l		0.0	man acc	Outside calibration
379	480-193512-K-4	1.3	0.52	mg/l		0.0	man acc	Outside calibration
380	480-193526-C-5	1.3	21.67	mg/l		0.0	man acc	
382	CCB	1.3	0.55	mg/l		0.0	man acc	Outside calibration
383	CCV SO4	1.3	30.06	mg/l		0.0	man acc	
385	480-193526-C-6	1.3	21.74	mg/l		0.0	man acc	
387	480-193531-G-2	1.3	1.39	mg/l		0.0	man acc	Outside calibration
396	480-193531-G-7	1.3	32.06	mg/l		0.0	man acc	
399	ms480-193526-C-5	1.3	41.67	mg/l		1.0	man acc	
400	CCB	1.3	0.56	mg/l		0.0	man acc	Outside calibration
401	CCV SO4	1.3	30.14	mg/l		0.0	man acc	
402	msd480-193526-C-	1.3	40.96	mg/l		1.0	man acc	
403	480-193531-G-1	1.3	12.29	mg/l		1.0	man acc	
404	CCB	1.3	0.61	mg/l		0.0	man acc	Outside calibration
405	CCV SO4	1.3	29.85	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
406	480-193531-G-3	1.3	35.46	mg/l		1.0	man acc	
407	480-193531-G-4	1.3	60.48	mg/l		1.0	man acc	
408	480-193531-G-5	1.3	48.41	mg/l		1.0	man acc	
409	480-193531-G-6	1.3	59.56	mg/l		1.0	man acc	
412	CCB	1.3	0.51	mg/l		0.0	man acc	Outside calibration
413	CCV SO4	1.3	29.96	mg/l		0.0	man acc	
414	ms480-193337-H-2	1.3	40.44	mg/l		1.0	man acc	
415	CCB	1.3	0.34	mg/l		0.0	man acc	Outside calibration
416	CCV SO4	1.3	30.40	mg/l		0.0	man acc	

609236

Results by Test

Date 12/17/2021 **User** BufGallery1

Time 4:08:01AM **Software version: 6.0.2**

Test name SO4 KIN

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
1	480-193024-G-1	1.1	-0.0046	mg/l		19.0	man acc	Reaction direction
6	480-193026-G-3	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
7	480-193026-G-4	1.1	-0.0048	mg/l		0.0	man acc	Point(s) out of curve, Reaction directi
8	480-193026-G-5	1.1	0.0001	mg/l		0.0	man acc	Point(s) out of curve
9	480-193026-G-6	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
10	480-193199-G-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
11	480-193199-G-2	1.1	0.0000	mg/l		0.0	man acc	
12	480-193199-G-3	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction
13	480-193199-G-4	1.1	-0.0019	mg/l		0.0	man acc	Reaction direction
14	480-193199-G-5	1.1	0.0001	mg/l		0.0	man acc	
16	480-193199-G-7	1.1	0.0362	mg/l		2.0	man acc	Point(s) out of curve
19	480-193199-G-8	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
20	480-193203-G-1	1.1	0.0013	mg/l		0.0	man acc	
22	480-193241-I-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
23	480-193241-I-2	1.1	0.0025	mg/l		0.0	man acc	
24	ms480-193241-I-2	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
25	msd480-193241-I-2	1.1	0.0001	mg/l		0.0	man acc	
26	480-193241-I-3	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
27	480-193241-I-4	1.1	0.0009	mg/l		0.0	man acc	
28	480-193241-I-5	1.1	0.0022	mg/l		0.0	man acc	
29	480-193241-I-6	1.1	0.0004	mg/l		0.0	man acc	
30	ms480-193241-I-6	1.1	-0.0007	mg/l		0.0	man acc	Reaction direction
31	msd480-193241-I-6	1.1	-0.0009	mg/l		0.0	man acc	Reaction direction
32	480-193243-I-1	1.1	0.0001	mg/l		0.0	man acc	
33	480-193243-I-2	1.1	0.0007	mg/l		0.0	man acc	
34	480-193265-G-1	1.1	0.0145	mg/l		9.0	man acc	
35	480-193265-G-2	1.1	0.0116	mg/l		9.0	man acc	Point(s) out of curve
37	480-193265-G-4	1.1	0.0088	mg/l		4.0	man acc	
38	480-193265-G-5	1.1	0.0040	mg/l		4.0	man acc	
39	480-193265-G-6	1.1	0.0036	mg/l		4.0	man acc	
42	480-193265-G-9	1.1	0.0052	mg/l		0.0	man acc	Point(s) out of curve
43	480-193265-G-10	1.1	0.0002	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
44	480-193265-G-11	1.1	-0.0010	mg/l		9.0	man acc	Reaction direction
45	480-193290-I-2	1.1	0.0010	mg/l		0.0	man acc	
46	ms480-193290-I-2	1.1	0.0018	mg/l		1.0	man acc	
47	msd480-193290-I-2	1.1	0.0019	mg/l		1.0	man acc	
49	480-193290-I-4	1.1	0.0010	mg/l		0.0	man acc	Blank init abs. low
50	ms480-193290-I-4	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
51	msd480-193290-I-4	1.1	-0.0004	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
52	480-193290-I-5	1.1	0.0006	mg/l		0.0	man acc	
53	480-193290-I-6	1.1	0.0006	mg/l		0.0	man acc	
56	480-193290-I-9	1.1	0.0085	mg/l		4.0	man acc	
57	ms480-193290-I-9	1.1	0.0025	mg/l		4.0	man acc	
58	msd480-193290-I-9	1.1	0.0025	mg/l		4.0	man acc	
59	480-193305-E-1	1.1	0.0444	mg/l		24.0	man acc	
60	ms480-193305-E-1	1.1	0.0408	mg/l		24.0	man acc	
61	msd480-193305-E-	1.1	0.0382	mg/l		24.0	man acc	
62	480-193310-G-1	1.1	0.0004	mg/l		0.0	man acc	
63	480-193310-G-2	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
64	480-193310-G-3	1.1	0.0001	mg/l		0.0	man acc	
65	480-193310-G-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
66	480-193310-G-5	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction
67	480-193310-G-6	1.1	0.0002	mg/l		0.0	man acc	
68	480-193310-G-7	1.1	0.0008	mg/l		0.0	man acc	
69	480-193310-G-8	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
70	480-193317-D-1	1.1	0.0010	mg/l		0.0	man acc	
71	480-193317-D-2	1.1	0.0012	mg/l		0.0	man acc	
72	480-193317-D-3	1.1	0.0015	mg/l		0.0	man acc	
73	480-193317-D-4	1.1	0.0015	mg/l		0.0	man acc	
75	480-193317-D-6	1.1	0.0021	mg/l		0.0	man acc	
78	480-193331-I-1	1.1	-0.0007	mg/l		0.0	man acc	Reaction direction
81	480-193335-I-1	1.1	0.0008	mg/l		0.0	man acc	
82	480-193335-I-2	1.1	0.0012	mg/l		0.0	man acc	
83	ms480-193335-I-2	1.1	0.0016	mg/l		1.0	man acc	
84	msd480-193335-I-2	1.1	0.0017	mg/l		1.0	man acc	
85	480-193335-I-3	1.1	0.0018	mg/l		0.0	man acc	
86	ms480-193335-I-3	1.1	0.0022	mg/l		1.0	man acc	Blank init abs. low
87	msd480-193335-I-3	1.1	0.0025	mg/l		1.0	man acc	
88	480-193335-I-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
89	480-193335-I-5	1.1	0.0016	mg/l		0.0	man acc	
90	480-193335-I-6	1.1	-0.0012	mg/l		1.0	man acc	Point(s) out of curve, Reaction directi

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
91	480-193026-G-1	1.1	-0.0025	mg/l		9.0	man acc	Reaction direction
92	ms480-193026-G-1	1.1	-0.0045	mg/l		9.0	man acc	Reaction direction
93	msd480-193026-G-	1.1	-0.0034	mg/l		9.0	man acc	Reaction direction
94	480-193265-G-3	1.1	-0.0105	mg/l		19.0	man acc	Reaction direction
95	480-193317-D-5	1.1	0.0016	mg/l		1.0	man acc	
96	ms480-193199-G-7	1.1	0.0147	mg/l		4.0	man acc	Point(s) out of curve
97	msd480-193199-G-	1.1	0.0162	mg/l		4.0	man acc	Point(s) out of curve
98	480-193265-G-7	1.1	0.0069	mg/l		1.0	man acc	Point(s) out of curve
99	480-193265-G-8	1.1	-0.0149	mg/l		24.0	man acc	Reaction direction, Blank init abs. low
100	480-193290-I-3	1.1	0.0003	mg/l		1.0	man acc	
101	480-193331-G-2	1.1	0.0043	mg/l		1.0	man acc	
102	480-193199-G-6	1.1	-0.0042	mg/l		1.0	man acc	Reaction direction
103	480-193203-G-2	1.1	0.0044	mg/l		1.0	man acc	Point(s) out of curve
104	480-193290-I-7	1.1	0.0000	mg/l		0.0	man acc	
105	480-193290-I-8	1.1	0.0017	mg/l		1.0	man acc	
106	480-193026-G-2	1.1	0.0186	mg/l		1.0	man acc	Point(s) out of curve
107	480-193317-D-7	1.1	0.0030	mg/l		1.0	man acc	
108	480-193317-D-8	1.1	0.0012	mg/l		1.0	man acc	Blank init abs. low
109	480-193334-J-1	1.1	0.0077	mg/l		1.0	man acc	Point(s) out of curve
111	480-193336-Q-2	1.1	-0.0328	mg/l		0.0	man acc	Point(s) out of curve, Reaction directi
112	480-193336-Q-3	1.1	0.0012	mg/l		0.0	man acc	
113	480-193336-Q-5	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
114	480-193336-Q-6	1.1	0.0016	mg/l		0.0	man acc	
115	480-193336-Q-7	1.1	0.0089	mg/l		2.0	man acc	Point(s) out of curve
116	480-193337-H-1	1.1	0.0022	mg/l		0.0	man acc	Point(s) out of curve
117	ms480-193337-H-1	1.1	0.0032	mg/l		1.0	man acc	
118	msd480-193337-H-	1.1	0.0029	mg/l		1.0	man acc	
119	480-193337-H-2	1.1	0.0021	mg/l		0.0	man acc	Point(s) out of curve
120	ms480-193337-H-2	1.1	0.0026	mg/l		1.0	man acc	
121	msd480-193337-H-	1.1	0.0024	mg/l		1.0	man acc	
122	480-193369-K-1	1.1	0.0020	mg/l		0.0	man acc	
123	480-193369-K-2	1.1	0.0001	mg/l		0.0	man acc	
124	480-193369-K-3	1.1	0.0001	mg/l		0.0	man acc	
125	480-193369-K-4	1.1	0.0041	mg/l		0.0	man acc	Point(s) out of curve
126	480-193369-K-5	1.1	0.0043	mg/l		0.0	man acc	Point(s) out of curve
128	480-193397-D-2	1.1	0.0008	mg/l		0.0	man acc	
131	480-193397-D-5	1.1	0.0024	mg/l		0.0	man acc	Blank init abs. low
132	480-193397-D-6	1.1	0.0016	mg/l		0.0	man acc	
134	480-193436-K-2	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
135	480-193436-K-3	1.1	0.0041	mg/l		0.0	man acc	Point(s) out of curve
136	ms480-193436-K-3	1.1	0.0035	mg/l		1.0	man acc	
137	msd480-193436-K-	1.1	0.0035	mg/l		1.0	man acc	
138	480-193436-K-4	1.1	0.0014	mg/l		0.0	man acc	
139	480-193436-K-5	1.1	0.0026	mg/l		0.0	man acc	Point(s) out of curve
140	ms480-193436-K-5	1.1	0.0034	mg/l		1.0	man acc	
141	msd480-193436-K-	1.1	0.0000	mg/l		0.0	man acc	
142	480-193436-K-6	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
143	480-193436-K-7	1.1	0.0017	mg/l		0.0	man acc	
144	480-193436-K-8	1.1	0.0001	mg/l		0.0	man acc	
145	480-193439-H-1	1.1	0.0007	mg/l		0.0	man acc	
146	480-193439-H-2	1.1	0.0013	mg/l		0.0	man acc	
147	480-193439-H-3	1.1	0.0014	mg/l		0.0	man acc	
148	480-193439-H-4	1.1	0.0019	mg/l		0.0	man acc	
149	480-193439-H-5	1.1	0.0011	mg/l		0.0	man acc	
150	480-193439-H-6	1.1	0.0003	mg/l		0.0	man acc	
151	480-193439-H-7	1.1	0.0008	mg/l		0.0	man acc	
153	480-193439-H-9	1.1	0.0002	mg/l		0.0	man acc	
155	480-193439-H-11	1.1	0.0010	mg/l		0.0	man acc	
156	480-193444-I-1	1.1	0.0004	mg/l		0.0	man acc	
157	480-193444-I-2	1.1	0.0000	mg/l		0.0	man acc	Reaction direction
158	480-193444-I-3	1.1	0.0003	mg/l		0.0	man acc	
159	ms480-193444-I-3	1.1	0.0026	mg/l		1.0	man acc	
160	msd480-193444-I-3	1.1	0.0026	mg/l		1.0	man acc	
162	ms480-193444-I-4	1.1	0.0004	mg/l		1.0	man acc	Point(s) out of curve
163	msd480-193444-I-4	1.1	-0.0002	mg/l		1.0	man acc	Reaction direction
165	480-193444-I-6	1.1	0.0018	mg/l		0.0	man acc	
166	480-193467-I-1	1.1	0.0000	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
167	ms480-193467-I-1	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
168	msd480-193467-I-1	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
169	480-193467-I-2	1.1	0.0099	mg/l		4.0	man acc	
170	480-193467-I-3	1.1	0.0037	mg/l		4.0	man acc	
171	480-193467-I-4	1.1	-0.0001	mg/l		4.0	man acc	Reaction direction
172	480-193467-I-5	1.1	0.0006	mg/l		0.0	man acc	
173	480-193467-I-6	1.1	-0.0368	mg/l		49.0	man acc	Reaction direction, Blank init abs. low
174	480-193467-I-7	1.1	-0.0179	mg/l		24.0	man acc	Reaction direction
175	480-193481-G-1	1.1	-0.0041	mg/l		29.0	man acc	Reaction direction
176	480-193482-G-1	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction
177	480-193482-G-2	1.1	-0.0003	mg/l		0.0	man acc	Reaction direction

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
178	480-193482-G-3	1.1	-0.0102	mg/l		19.0	man acc	Reaction direction
179	480-193482-G-4	1.1	-0.0003	mg/l		19.0	man acc	Reaction direction
180	480-193482-G-5	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction
181	480-193482-G-6	1.1	-0.0545	mg/l		49.0	man acc	Reaction direction
182	480-193482-G-7	1.1	0.0420	mg/l		2.0	man acc	Point(s) out of curve
183	480-193482-G-8	1.1	-0.0211	mg/l		39.0	man acc	Reaction direction, Blank init abs. low
184	480-193482-G-9	1.1	0.0153	mg/l		9.0	man acc	
185	480-193512-K-1	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
186	480-193512-K-2	1.1	-0.0002	mg/l		0.0	man acc	Reaction direction, Blank init abs. low
187	480-193512-K-3	1.1	0.0019	mg/l		0.0	man acc	
188	480-193512-K-4	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
189	480-193526-C-5	1.1	0.0015	mg/l		0.0	man acc	
192	480-193526-C-6	1.1	0.0015	mg/l		0.0	man acc	
194	480-193531-G-2	1.1	-0.0001	mg/l		0.0	man acc	Reaction direction
199	480-193531-G-7	1.1	-0.0005	mg/l		0.0	man acc	Reaction direction
200	480-193336-Q-1	1.1	0.0104	mg/l		4.0	man acc	
201	480-193397-D-1	1.1	0.0039	mg/l		1.0	man acc	Point(s) out of curve
202	480-193397-D-3	1.1	0.0013	mg/l		1.0	man acc	
203	480-193397-D-4	1.1	0.0008	mg/l		1.0	man acc	
204	480-193397-D-7	1.1	0.0025	mg/l		1.0	man acc	
205	480-193444-I-4	1.1	0.0040	mg/l		1.0	man acc	
206	480-193439-H-8	1.1	0.0102	mg/l		4.0	man acc	
207	480-193439-H-10	1.1	0.0017	mg/l		4.0	man acc	
208	480-193444-I-5	1.1	0.0121	mg/l		4.0	man acc	Point(s) out of curve
209	ms480-193526-C-5	1.1	0.0011	mg/l		1.0	man acc	
210	msd480-193526-C-	1.1	0.0010	mg/l		1.0	man acc	
211	480-193531-G-1	1.1	0.0043	mg/l		1.0	man acc	
212	480-193531-G-3	1.1	0.0003	mg/l		1.0	man acc	
213	480-193531-G-4	1.1	-0.0007	mg/l		1.0	man acc	Reaction direction
214	480-193531-G-5	1.1	0.0019	mg/l		1.0	man acc	
215	480-193531-G-6	1.1	0.0003	mg/l		1.0	man acc	

Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193024-G-1	20-183-2R	9038	Sulfate	Total/NA	mg/L	6	20.0	448	☐	315.738 - 796.262	☐	350.4 - 778.8
480-193026-G-1	98-187-2	9038	Sulfate	Total/NA	mg/L	8	10.0	239	☐	0 - 336.988	☐	53.76 - 292.8
480-193026-G-2	98-188-1	9038	Sulfate	Total/NA	mg/L	8	2.0	18.2	☐	0 - 235.061	☐	0 - 212.4
480-193026-G-3	98-188-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193026-G-4	98-188-3	9038	Sulfate	Total/NA	mg/L	8	1.0	20.2	☑	0 - 0	☑	0 - 0
480-193026-G-5	98-193-2	9038	Sulfate	Total/NA	mg/L	8	1.0	7.1	☑	0 - 0	☑	0 - 0
480-193026-G-6	98-194-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-1	03-197-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-2	03-197-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-3	03-198-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-4	03-198-2	9038	Sulfate	Total/NA	mg/L	8	1.0	27.3	☐	0 - 61.922	☐	5.6 - 52.2
480-193199-G-5	03-199-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193199-G-6	03-199-2	9038	Sulfate	Total/NA	mg/L	8	2.0	25.1	☐	0 - 283.816	☐	0 - 210
480-193199-G-7	03-200-1	9038	Sulfate	Total/NA	mg/L	8	3.0	58.6	☐	30.057 - 128.668	☐	40 - 120
480-193199-G-8	03-200-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193203-G-1	88-148-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193203-G-2	96-148-2R	9038	Sulfate	Total/NA	mg/L	8	2.0	57.7	☐	0 - 122.217	☐	0 - 124.8
480-193241-I-1	01FB	D516	Sulfate	Total/NA	mg/L as N	8	1.0	ND	☐	0 - 28.041	☐	0 - 30.12
480-193241-I-2	MW04	D516	Sulfate	Total/NA	mg/L as N	8	1.0	9.6	☐	5.942 - 19.183	☐	8.48 - 20.16
480-193241-I-3	MW05	D516	Sulfate	Total/NA	mg/L as N	8	1.0	23.4	☐	16.613 - 32.462	☐	18.16 - 37.2
480-193241-I-4	MW06D	D516	Sulfate	Total/NA	mg/L as N	8	1.0	23.9	☐	13.183 - 25.292	☐	13.84 - 28.44
480-193241-I-5	MW06S	D516	Sulfate	Total/NA	mg/L as N	8	1.0	15.8	☐	9.602 - 20.998	☐	8.72 - 21.72
480-193241-I-6	MW07	D516	Sulfate	Total/NA	mg/L as N	8	1.0	16.0	☐	11.142 - 18.633	☐	10.48 - 20.52
480-193243-I-1	SW001	D516	Sulfate	Total/NA	mg/L	6	1.0	ND	☐	0 - 49.646	☐	0 - 43.8
480-193243-I-2	SW003	D516	Sulfate	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0
480-193265-G-1	89-156-2	9038	Sulfate	Total/NA	mg/L	8	10.0	148	☐	10.6 - 643.4	☑	202.4 - 705.6
480-193265-G-10	357R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193265-G-11	D-19RR	9038	Sulfate	Total/NA	mg/L	8	10.0	308	☐	0 - 532.366	☐	0 - 378
480-193265-G-2	98-156-3	9038	Sulfate	Total/NA	mg/L	8	10.0	265	☐	0 - 958.473	☐	57.44 - 687.6
480-193265-G-3	98-186-2	9038	Sulfate	Total/NA	mg/L	8	20.0	498	☐	10.6 - 643.4	☐	202.4 - 705.6
480-193265-G-4	75R	9038	Sulfate	Total/NA	mg/L	8	5.0	181	☐	96.975 - 268.775	☐	108 - 292.8
480-193265-G-5	76R	9038	Sulfate	Total/NA	mg/L	8	5.0	152	☐	135.831 - 210.169	☐	125.6 - 230.4
480-193265-G-6	DUP@76R	9038	Sulfate	Total/NA	mg/L	1	5.0	154	☑	146 - 146	☐	116.8 - 175.2
480-193265-G-7	94R	9038	Sulfate	Total/NA	mg/L	8	2.0	20.8	☐	0 - 158.527	☐	13.2 - 162
480-193265-G-8	PELA-4	9038	Sulfate	Total/NA	mg/L	8	25.0	867	☐	0 - 1148.456	☐	180 - 948
480-193265-G-9	89-167-3	9038	Sulfate	Total/NA	mg/L	8	1.0	33.0	☐	0 - 85.88	☐	0 - 79.44
480-193290-I-2	MW-13S	9038	Sulfate	Total/NA	mg/L	8	1.0	31.6	☐	20.607 - 44.693	☐	20.08 - 45.96
480-193290-I-3	MW-19D	9038	Sulfate	Total/NA	mg/L	8	2.0	40.7	☐	0 - 47.396	☐	7.92 - 43.56
480-193290-I-4	MW-19S	9038	Sulfate	Total/NA	mg/L	8	1.0	9.4	☐	5.129 - 11.996	☐	5.76 - 12.36

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Historical Data Summary Report

For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193290-I-5	MW-7S	9038	Sulfate	Total/NA	mg/L	8	1.0	14.9	☐	12.755 - 47.72	☑	18.96 - 47.04
480-193290-I-6	MW-DUP	9038	Sulfate	Total/NA	mg/L	8	1.0	15.8	☐	0 - 106.443	☐	0 - 104.4
480-193290-I-7	MW-14S	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 95.4	☐	0 - 102.36
480-193290-I-8	MW-15S	9038	Sulfate	Total/NA	mg/L	8	2.0	11.0	☐	0 - 227.301	☐	0 - 184.8
480-193290-I-9	MW-6S2	9038	Sulfate	Total/NA	mg/L	8	5.0	131	☐	112.873 - 192.627	☐	103.2 - 205.2
480-193305-E-1	MHOLT	D516	Sulfate	Total/NA	mg/L	8	25.0	529	☐	202.379 - 1011.871	☐	303.2 - 939.6
480-193331-G-2	MW-16D	9038	Sulfate	Total/NA	mg/L	8	2.0	33.5	☐	28.997 - 50.128	☐	27.36 - 54.72
480-193331-I-1	MW-16S	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193334-J-1	WMNMH1	D516	Sulfate	Total/NA	mg/L	8	2.0	78.0	☐	0 - 399.614	☐	0 - 397.2
480-193335-I-1	MW-12AA	9038	Sulfate	Total/NA	mg/L	8	1.0	30.2	☐	15.534 - 40.316	☐	16.32 - 38.4
480-193335-I-2	MW-12BBB	9038	Sulfate	Total/NA	mg/L	8	1.0	30.5	☐	20.854 - 38.696	☐	18.48 - 41.04
480-193335-I-3	MW-13A	9038	Sulfate	Total/NA	mg/L	8	1.0	20.9	☐	18.749 - 26.076	☐	16.56 - 28.92
480-193335-I-4	MW-13B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193335-I-5	MW-17A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.9	☐	0.937 - 40.063	☐	9.52 - 35.88
480-193335-I-6	MW-17B	9038	Sulfate	Total/NA	mg/L	8	2.0	51.5	☐	41.329 - 82.996	☐	42.8 - 87
480-193336-Q-1	SLC-2A	9038	Sulfate	Total/NA	mg/L	8	5.0	93.0	☑	0 - 0	☑	0 - 0
480-193336-Q-2	PLC-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 118.419	☐	0 - 127.2
480-193336-Q-3	PLC-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 6.368	☐	0 - 6.84
480-193336-Q-5	SLC-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193336-Q-6	PLC-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 9.211	☐	0 - 7.92
480-193336-Q-7	LD-1	9038	Sulfate	Total/NA	mg/L	8	3.0	42.7	☐	36.367 - 123.958	☑	50.72 - 122.4
480-193337-H-1	CD-1	9038	Sulfate	Total/NA	mg/L	8	1.0	17.3	☐	10.432 - 28.668	☐	12.64 - 31.32
480-193337-H-2	CD-1RA	9038	Sulfate	Total/NA	mg/L	8	1.0	17.8	☐	5.672 - 28.503	☐	6.24 - 25.68
480-193369-K-1	MW-1A	9038	Sulfate	Total/NA	mg/L	8	1.0	17.9	☐	0 - 38.339	☐	0 - 27.24
480-193369-K-2	MW-2A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-K-3	MW-2B	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193369-K-4	MW-1B	9038	Sulfate	Total/NA	mg/L	8	1.0	7.2	☐	0 - 23.524	☐	4.8 - 25.44
480-193369-K-5	DUP MW-1B	9038	Sulfate	Total/NA	mg/L	1	1.0	7.1	☑	7.8 - 7.8	☐	6.24 - 9.36
480-193436-K-2	MW-3A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-3	MW-3B	9038	Sulfate	Total/NA	mg/L	8	1.0	10.9	☐	4.627 - 16.923	☐	5.36 - 15.84
480-193436-K-4	MW-4A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.356	☐	0 - 8.76
480-193436-K-5	MW-5A	9038	Sulfate	Total/NA	mg/L	8	1.0	16.5	☐	3.112 - 26.588	☐	7.04 - 26.28
480-193436-K-6	MW-6A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-7	MW-6B	9038	Sulfate	Total/NA	mg/L	8	1.0	23.5	☐	0 - 41.713	☐	4.16 - 42.6
480-193436-K-8	MW-7A	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 41.335	☐	0 - 44.4
480-193444-I-3	DUP-1	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 75.935	☐	0 - 62.4
480-193444-I-4	SW-2	9038	Sulfate	Total/NA	mg/L	8	2.0	40	☐	0 - 41.783	☑	6.4 - 37.2
480-193467-I-1	01FB	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-I-2	YSC01	9038	Sulfate	Total/NA	mg/L	8	5.0	35.4	☐	0 - 306.195	☐	0 - 216

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For Batch 609236

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193467-I-3	YSC02	9038	Sulfate	Total/NA	mg/L	8	5.0	124	☐	90.207 - 136.043	☐	81.6 - 148.8
480-193467-I-4	YSP03R	9038	Sulfate	Total/NA	mg/L	8	5.0	158	☐	65.75 - 331.75	☐	108 - 308.4
480-193467-I-5	YSP05	9038	Sulfate	Total/NA	mg/L	8	1.0	36.3	☐	29.717 - 43.133	☐	25.68 - 48.48
480-193467-I-6	YSP08	9038	Sulfate	Total/NA	mg/L	8	50.0	1610	☐	1403.099 - 1804.401	☐	1176 - 2052
480-193467-I-7	YSP09	9038	Sulfate	Total/NA	mg/L	8	25.0	833	☐	722.844 - 882.656	☐	599.2 - 1004.4
480-193481-G-1	MH8L-MLD	9038	Sulfate	Total/NA	mg/L	8	30.0	698	☐	362.619 - 2034.631	☐	618.4 - 1776
480-193482-G-1	172R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-G-2	413R	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193482-G-3	173R	9038	Sulfate	Total/NA	mg/L	8	20.0	629	☐	560.507 - 711.493	☐	478.4 - 807.6
480-193482-G-4	171R	9038	Sulfate	Total/NA	mg/L	8	20.0	473	☐	373.205 - 562.295	☐	345.6 - 643.2
480-193482-G-5	169RR	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 11.06	☐	0 - 11.88
480-193482-G-6	170R	9038	Sulfate	Total/NA	mg/L	8	50.0	1620	☐	1596.505 - 2043.495	☐	1360 - 2352
480-193482-G-7	302R	9038	Sulfate	Total/NA	mg/L	8	3.0	56.4	☐	0 - 306.717	☑	58.48 - 289.2 OK
480-193482-G-8	301RR	9038	Sulfate	Total/NA	mg/L	8	40.0	1200	☐	598.967 - 1638.783	☐	568.8 - 1572
480-193482-G-9	300R	9038	Sulfate	Total/NA	mg/L	8	10.0	361	☐	91.276 - 482.974	☐	145.6 - 441.6
480-193512-K-1	WS-1	9038	Sulfate	Total/NA	mg/L	8	1.0	33.6	☐	0 - 75.901	☐	0 - 47.76
480-193512-K-2	CW-2	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 70.622	☐	0 - 54.48
480-193512-K-3	CW-15	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐	0 - 48.258	☐	0 - 38.4
480-193512-K-4	CW-16	9038	Sulfate	Total/NA	mg/L	2	1.0	ND	☐	0 - 0	☐	0 - 0

General Chemistry Worksheet

609137

Batch Number: 480-609137
Method: SM 2540C
Analyst: Olson, Jeffrey G

Date Open: Dec 16 2021 11:55AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	CrucibleID	Tare Weight	Initial weight/volume of sample	Percent different between 1st & 2nd	Percent different between 2nd & 3rd	QC Check for third weight Comparison
MB~480-609137/1		2540C_Calcd		MB	116.1289 g	100 mL	N/A No Unit	N/A No Unit	N/A
LCS~480-609137/2		2540C_Calcd		LCS	110.6471 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193410-B-1	SW-1A	2540C_Calcd	T	3	117.4885 g	50 mL	N/A No Unit	N/A No Unit	N/A
480-193410-B-1~DU		2540C_Calcd	T	4	115.4758 g	50 mL	N/A No Unit	N/A No Unit	N/A
480-193410-A-2	SW-1B	2540C_Calcd	T	5	112.0384 g	50 mL	N/A No Unit	N/A No Unit	N/A
480-193410-C-3	SW-2A	2540C_Calcd	T	6	111.1154 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193411-A-1	ST-5	2540C_Calcd	T	7	112.6050 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193411-A-2	ST-3	2540C_Calcd	T	8	112.5982 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193411-A-3	03FB	2540C_Calcd	T	9	121.4184 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193422-C-1	303AR	2540C_Calcd	T	10	118.4317 g	50 mL	N/A No Unit	N/A No Unit	N/A
480-193422-C-2	304R	2540C_Calcd	T	11	118.7845 g	50 mL	N/A No Unit	N/A No Unit	N/A
480-193422-C-3	305R	2540C_Calcd	T	12	111.7838 g	25 mL	N/A No Unit	N/A No Unit	N/A
480-193422-C-4	326R	2540C_Calcd	T	13	111.8337 g	50 mL	N/A No Unit	N/A No Unit	N/A
480-193422-C-5	327	2540C_Calcd	T	14	115.8235 g	25 mL	N/A No Unit	N/A No Unit	N/A
480-193422-C-6	328	2540C_Calcd	T	15	105.0155 g	5 mL	N/A No Unit	N/A No Unit	N/A
480-193422-C-7	333R	2540C_Calcd	T	16	121.0794 g	50 mL	N/A No Unit	N/A No Unit	N/A
480-193422-C-8	334R	2540C_Calcd	T	17	111.6532 g	25 mL	N/A No Unit	N/A No Unit	N/A
480-193422-C-9	335	2540C_Calcd	T	18	111.4773 g	50 mL	N/A No Unit	N/A No Unit	N/A
480-193422-C-10	336	2540C_Calcd	T	19	113.1797 g	50 mL	N/A No Unit	N/A No Unit	N/A
480-193436-B-2	MW-3A	2540C_Calcd	T	20	108.4431 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193436-B-3	MW-3B	2540C_Calcd	T	21	116.6998 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193436-B-3~DU		2540C_Calcd	T	22	111.4776 g	100 mL	N/A No Unit	N/A No Unit	N/A

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12/30/2021

Historical Data Summary Report

For Batch 609137

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193410-A-2	SW-1B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	3	1.0	1200	☐	0 - 2521.826	☐	856 - 1284
480-193410-B-1	SW-1A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	5	1.0	1300	☐	0 - 2129.53	☐	432 - 2028
480-193410-C-3	SW-2A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	1	1.0	633	☑	599 - 599	☐	479.2 - 718.8
480-193411-A-1	ST-5	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	231	☐	0 - 1703.762	☐	171.2 - 1332
480-193411-A-2	ST-3	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	302	☐	0 - 1688.122	☑	306.4 - 1464 OK
480-193411-A-3	03FB	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193422-C-1	303AR	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	1810	☑	2046.335 - 3161.165	☐	1800 - 3480
480-193422-C-10	336	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	1900	☐	1162.427 - 2325.073	☐	1104 - 2364
480-193422-C-2	304R	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	1750	☐	1330.302 - 3149.698	☐	1448 - 3168
480-193422-C-3	305R	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2200	☐	0 - 10855.965	☐	2024 - 9576
480-193422-C-4	326R	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2010	☐	1193.931 - 2961.069	☐	1208 - 3132
480-193422-C-5	327	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	3320	☐	2978.646 - 6386.354	☐	3248 - 7272
480-193422-C-6	328	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	14000	☐	532.188 - 40042.812	☐	10080 - 35760
480-193422-C-7	333R	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2120	☐	1778.335 - 2829.165	☐	1592 - 2976
480-193422-C-8	334R	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2460	☐	1343.526 - 3541.474	☐	1480 - 3636
480-193422-C-9	335	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	2120	☐	1687.818 - 2914.682	☐	1632 - 3192
480-193436-B-2	MW-3A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	124	☐	0 - 573.912	☐	98.4 - 627.6
480-193436-B-3	MW-3B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	264	☐	124.695 - 319.805	☐	140.8 - 346.8

609158

General Chemistry Worksheet

Batch Number: 480-609158
Method: SM 2540C
Analyst: Olson, Jeffrey G

Date Open: Dec 16 2021 1:25PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	CrucibleID	Tare Weight	Initial weight/volume of sample	Percent different between 1st & 2nd	Percent different between 2nd & 3rd	QC Check for third weight Comparison
MB~480-609158/1		2540C_Calcd		MB	109.8952 g	100 mL	N/A No Unit	N/A No Unit	N/A
LCS~480-609158/2		2540C_Calcd		LCS	116.8947 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193436-B-4	MW-4A	2540C_Calcd	T	3	115.2836 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193436-B-4~DU		2540C_Calcd	T	4	121.4422 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193436-B-5	MW-5A	2540C_Calcd	T	5	117.4554 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193436-B-6	MW-6A	2540C_Calcd	T	6	114.1964 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193436-B-7	MW-6B	2540C_Calcd	T	7	97.7922 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193436-B-8	MW-7A	2540C_Calcd	T	8	116.0437 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193460-K-1	MW-29CU	2540C_Calcd	T	9	112.3547 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193460-K-2	MW-10CUR	2540C_Calcd	T	10	107.9438 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193467-A-1	01FB	2540C_Calcd	T	11	120.1878 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193467-A-2	YSC01	2540C_Calcd	T	12	115.9687 g	50 mL	N/A No Unit	N/A No Unit	N/A
480-193467-A-3	YSC02	2540C_Calcd	T	13	105.6493 g	50 mL	N/A No Unit	N/A No Unit	N/A
480-193467-A-4	YSP03R	2540C_Calcd	T	14	106.1971 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193467-A-5	YSP05	2540C_Calcd	T	15	122.8668 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193498-A-1	FIELD BLANK	2540C_Calcd	T	16	112.5352 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193498-A-2	MW-1C	2540C_Calcd	T	17	111.4322 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193498-A-3	MW-2B	2540C_Calcd	T	18	107.6039 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193498-A-4	MW-30CU	2540C_Calcd	T	19	117.4375 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193498-A-5	MW-31CU	2540C_Calcd	T	20	117.0195 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193498-A-6	MW-4A	2540C_Calcd	T	21	109.4988 g	100 mL	N/A No Unit	N/A No Unit	N/A
480-193498-A-6~DU		2540C_Calcd	T	22	114.7673 g	100 mL	N/A No Unit	N/A No Unit	N/A

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Historical Data Summary Report

For Batch 609158

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193436-B-4	MW-4A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	468	☐	320.538 - 564.462	☐	300 - 615.6
480-193436-B-5	MW-5A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	183	☐	41.258 - 344.992	☐	109.6 - 363.6
480-193436-B-6	MW-6A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	259	☐	167.366 - 440.884	☐	184.8 - 430.8
480-193436-B-7	MW-6B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	180	☐	92.26 - 405.49	☐	136 - 400.8
480-193436-B-8	MW-7A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	295	☐	190.319 - 762.431	☐	244 - 685.2
480-193460-K-1	MW-29CU	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	1	1.0	103	☑	86 - 86	☐	68.8 - 103.2
480-193460-K-2	MW-10CUR	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	1	1.0	137	☑	132 - 132	☐	105.6 - 158.4
480-193467-A-1	01FB	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	ND	☐	0 - 8.937	☐	0 - 9.6
480-193467-A-2	YSC01	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	862	☐	0 - 1888.221	☐	352 - 1872
480-193467-A-3	YSC02	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	1160	☐	0 - 2884.495	☐	498.4 - 2700
480-193467-A-4	YSP03R	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	583	☐	544.477 - 947.023	☐	540 - 1018.8
480-193467-A-5	YSP05	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	747	☐	446.566 - 1223.684	☐	541.6 - 1320
480-193498-A-1	FIELD BLANK	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	ND	☐	0 - 35.749	☐	0 - 38.4
480-193498-A-2	MW-1C	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	563	☐	0 - 737.9	☐	117.6 - 652.8
480-193498-A-3	MW-2B	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	89.0	☐	0 - 135.064	☐	20.8 - 106.8
480-193498-A-4	MW-30CU	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	308	☐	17.264 - 574.986	☐	158.4 - 580.8
480-193498-A-5	MW-31CU	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	90.0	☐	0 - 547.995	☐	60.8 - 444
480-193498-A-6	MW-4A	2540C_Calcd	Total Dissolved Solids	Total/NA	mg/L	8	1.0	137	☐	44.914 - 237.586	☐	72 - 214.8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Wet Chemistry Dept

Analysis: Chloride

Method: 9251

Analyst/Primary Reviewer: SRW

Secondary Reviewer: [illegible]

Date of Analytical Run: 12/17/21

Date of Primary Review: 12/17/21

Date of Secondary Review: 12/29/21

Prep Batch Number					
Analytical Batch Number	609377				

Criteria for QC	1st Level	2nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, r > or = 0.995, pH meter slope 90-110% (if applicable)	Y			
Was Data Imported X / Manually Entered ___ / Balance Interface Used ___	Impt			
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Y			
Were the ICB, CCB and MB all <RL?	Y			
Was there a CCV/CCB combination run after every 10 samples or less?	Y			
Was there an LCS run with every batch of 20 samples or less?	Y			
Was there a DU, MS or MSD run with every batch of 20 samples or less?	Y			
Were all MS/MSD results within acceptable limits for QC recovery?	N			
Were all DU or MSD RPDs within acceptable limits for QC recovery?	Y			
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	Y			
Are dilution factors all present and correct?	Y			
Do all entries match raw data?	Y			
Were there any holding time violations in this batch?	Y			**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y			
Were any NCMs needed in the batch?	Y			NCM #s: 576755
Data scanned in?	Y			

SB 12/29/21

Chloride

325.2/SM4500_CL_E/9251

1000 PPM (MS/MSD/CAL)	5222530	EXP: 04/12/2024
25 PPM (CCV/LCS)	6815292	EXP: 01/10/2022
Color reagent:	6344179	EXP: 02/28/2022
ERA Minerals (ICV): Actual = 61.9 MG/L Range = 56.3 – 66.9 MG/L	6318066	EXP: 04/01/2023

CURVE:

Kone 1: 06-13-2019 50ppm: 5352373	Batch: 478009
Kone 2: 06-24-2020 50ppm: 5988654	Batch: 537874
Kone 3: 05-11-2020 50 ppm: 5915012	Batch: 531059
Gallery 1: 12-13-2021 50 ppm: 6815388	Batch: 608717

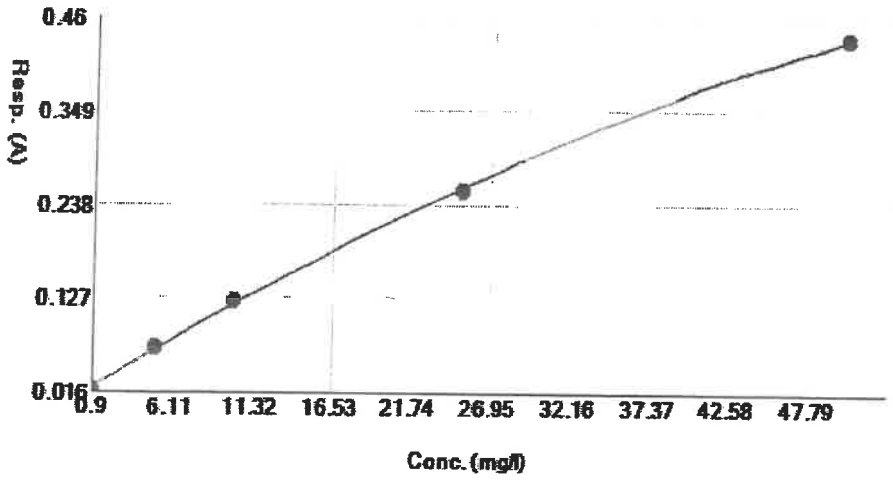
Calibration results

CL Version number 1.13

Date	12/17/2021	**User**	BufGallery1
Time	8:33:30PM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	CL	**Coeff. of deter.**	0.999537
Status	Accepted	**Total factor**	118.959
Accepted	12/13/2021 6:16 PM		
Checked	12/13/2021 6:16 PM	Zero-order factor	0.010
User name	BufGallery1	1st order factor	0.011
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
CL-50	0.018	0.683	1.000	Default	
CL-50	0.067	5.118	5.000	Default	
CL-50	0.123	10.497	10.000	Default	
CL-50	0.255	24.597	25.000	Default	
CL-50	0.434	50.115	50.000	Default	
CL CCVL	0.021	0.93	1.00	Default	QC, Outside calibration
CL-ICV	0.312	31.60	25.00	Default	QC, Rule 1 violated
ICB	0.006	-0.35	0.00	Default	QC, Outside calibration



Water blank results

Date 12/17/2021 **User** BufGallery1

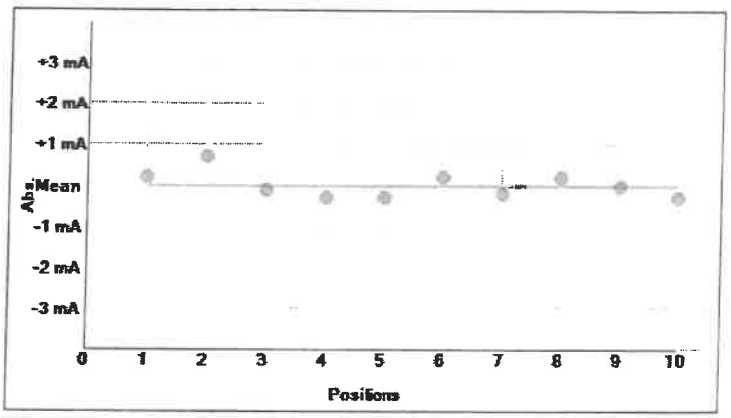
Time 8:34:02PM **Software version: 6.0.2**

Measurement time
12/17/2021 5:54 PM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1003.4**	**0.3**
420	-1036.3	0.3
480	-1046.9	0.2
510	-1050.5	0.1
540	-1054.0	0.1
575	-1057.1	0.1
600	-1058.6	0.1
620	-1060.0	0.1
660	-1062.3	0.1
700	-1063.3	0.9
880	-1046.9	0.5

340



609317

Results by Test

Date 12/17/2021 **User** BufGallery1

Time 9:48:31PM **Software version: 6.0.2**

Test name CL

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
5	era	1.13	58.21	mg/l		1.0	man acc	
10	CCB	1.13	-0.54	mg/l		0.0	man acc	Outside calibration
11	CCV CL	1.13	26.29	mg/l		0.0	man acc	
12	LCS CL	1.13	26.12	mg/l		0.0	man acc	
13	MB	1.13	-0.35	mg/l		0.0	man acc	Outside calibration
14	480-192096-I-5	1.13	18.90	mg/l		0.0	man acc	
15	ms480-192096-I-5	1.13	39.07	mg/l		0.0	man acc	
16	msd480-192096-I-5	1.13	39.85	mg/l		0.0	man acc	
17	480-193335-I-5	1.13	30.54	mg/l		0.0	man acc	
19	480-193383-E-1	1.13	20.81	mg/l		0.0	man acc	
20	ms480-193383-E-1	1.13	40.46	mg/l		0.0	man acc	
21	msd480-193383-E-	1.13	41.28	mg/l		0.0	man acc	
22	CCB	1.13	-0.52	mg/l		0.0	man acc	Outside calibration
23	CCV CL	1.13	26.30	mg/l		0.0	man acc	
24	LCS CL	1.13	26.29	mg/l		0.0	man acc	
25	MB	1.13	-0.23	mg/l		0.0	man acc	Outside calibration
27	480-193383-D-3	1.13	330.89	mg/l		9.0	man acc	
28	480-193385-Q-1	1.13	81.23	mg/l		1.0	man acc	
40	480-193411-G-1	1.13	30.44	mg/l		0.0	man acc	
42	480-193411-G-3	1.13	-0.48	mg/l		0.0	man acc	Outside calibration
43	CCB	1.13	-0.41	mg/l		0.0	man acc	Outside calibration
44	CCV CL	1.13	26.36	mg/l		0.0	man acc	
45	LCS CL	1.13	26.25	mg/l		0.0	man acc	
46	MB	1.13	-0.34	mg/l		0.0	man acc	Outside calibration
47	ms480-193411-G-3	1.13	22.70	mg/l		0.0	man acc	
48	480-193416-D-1	1.13	22.96	mg/l		0.0	man acc	
49	480-193436-K-2	1.13	0.35	mg/l		0.0	man acc	Outside calibration
50	480-193436-K-3	1.13	21.26	mg/l		0.0	man acc	
51	480-193410-G-1	1.13	416.76	mg/l		9.0	man acc	
54	480-193436-K-4	1.13	9.87	mg/l		0.0	man acc	
55	ms480-193436-K-4	1.13	31.59	mg/l		0.0	man acc	
56	msd480-193436-K-	1.13	31.79	mg/l		0.0	man acc	

SG

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
57	CCB	1.13	-0.77	mg/l		0.0	man acc	Outside calibration
58	CCV CL	1.13	26.19	mg/l		0.0	man acc	
59	LCS CL	1.13	26.11	mg/l		0.0	man acc	
60	MB	1.13	-0.39	mg/l		0.0	man acc	Outside calibration
61	480-193436-K-5	1.13	4.77	mg/l		0.0	man acc	
62	480-193436-K-6	1.13	2.11	mg/l		0.0	man acc	
63	480-193436-K-7	1.13	18.35	mg/l		0.0	man acc	
64	480-193436-K-8	1.13	9.79	mg/l		0.0	man acc	
77	msd480-193411-G-	1.13	23.67	mg/l		0.0	man acc	
81	480-193397-D-2	1.13	78.13	mg/l		1.0	man acc	
82	480-193397-D-3	1.13	78.07	mg/l		1.0	man acc	
87	480-193411-G-2	1.13	77.31	mg/l		1.0	man acc	
88	CCB	1.13	-0.37	mg/l		0.0	man acc	Outside calibration
89	CCV CL	1.13	26.22	mg/l		0.0	man acc	
90	LCS CL	1.13	26.43	mg/l		0.0	man acc	
91	MB	1.13	-0.31	mg/l		0.0	man acc	Outside calibration
95	480-193382-K-1	1.13	2,394.49	mg/l		59.0	man acc	
96	480-193383-E-2	1.13	802.91	mg/l		19.0	man acc	
97	480-193410-G-2	1.13	205.74	mg/l		4.0	man acc	
100	480-193439-H-6	1.13	36.39	mg/l		0.0	man acc	
101	480-193439-H-7	1.13	8.99	mg/l		0.0	man acc	
112	480-193439-H-11	1.13	4.27	mg/l		0.0	man acc	
113	480-193444-I-1	1.13	47.01	mg/l		0.0	man acc	
115	CCB	1.13	-0.68	mg/l		0.0	man acc	Outside calibration
116	CCV CL	1.13	26.07	mg/l		0.0	man acc	
117	LCS CL	1.13	26.21	mg/l		0.0	man acc	
118	MB	1.13	-0.38	mg/l		0.0	man acc	Outside calibration
120	480-193397-D-1	1.13	139.91	mg/l		4.0	man acc	
121	480-193397-D-4	1.13	164.49	mg/l		4.0	man acc	
125	480-193397-D-5	1.13	114.70	mg/l		4.0	man acc	
126	480-193397-D-6	1.13	171.48	mg/l		4.0	man acc	
127	480-193397-D-7	1.13	114.22	mg/l		4.0	man acc	
133	480-193410-G-3	1.13	332.10	mg/l		9.0	man acc	
134	CCB	1.13	-0.54	mg/l		0.0	man acc	Outside calibration
135	CCV CL	1.13	26.28	mg/l		0.0	man acc	
136	LCS CL	1.13	26.21	mg/l		0.0	man acc	
137	MB	1.13	-0.52	mg/l		0.0	man acc	Outside calibration
138	480-193439-H-1	1.13	142.81	mg/l		4.0	man acc	
139	ms480-193439-H-1	1.13	158.26	mg/l		4.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
140	msd480-193439-H-	1.13	159.79	mg/l		4.0	man acc	
141	480-193439-H-2	1.13	138.94	mg/l		4.0	man acc	
147	480-193460-P-1	1.13	3.84	mg/l		0.0	man acc	
148	ms480-193460-P-1	1.13	25.70	mg/l		0.0	man acc	
149	msd480-193460-P-	1.13	25.67	mg/l		0.0	man acc	
153	CCB	1.13	-0.82	mg/l		0.0	man acc	Outside calibration
154	CCV CL	1.13	26.24	mg/l		0.0	man acc	
155	LCS CL	1.13	26.15	mg/l		0.0	man acc	
156	MB	1.13	-0.27	mg/l		0.0	man acc	Outside calibration
157	480-193460-P-2	1.13	3.70	mg/l		0.0	man acc	
158	480-193467-I-1	1.13	-0.53	mg/l		0.0	man acc	Outside calibration
159	ms480-193467-I-1	1.13	22.63	mg/l		0.0	man acc	
160	msd480-193467-I-1	1.13	22.67	mg/l		0.0	man acc	
165	480-193439-H-3	1.13	206.91	mg/l		4.0	man acc	
166	480-193439-H-4	1.13	181.51	mg/l		4.0	man acc	
167	ms480-193439-H-4	1.13	197.82	mg/l		4.0	man acc	
168	msd480-193439-H-	1.13	194.72	mg/l		4.0	man acc	
169	CCB	1.13	-0.08	mg/l		0.0	man acc	Outside calibration
170	CCV CL	1.13	26.51	mg/l		0.0	man acc	
172	480-193439-H-5	1.13	140.95	mg/l		4.0	man acc	
173	480-193467-I-2	1.13	302.80	mg/l		9.0	man acc	
174	480-193467-I-3	1.13	332.21	mg/l		9.0	man acc	
175	480-193467-I-4	1.13	111.44	mg/l		2.0	man acc	
177	480-193439-H-9	1.13	149.75	mg/l		4.0	man acc	
180	480-193439-H-10	1.13	216.80	mg/l		4.0	man acc	
181	480-193467-I-6	1.13	9.67	mg/l		0.0	man acc	
182	CCB	1.13	-0.42	mg/l		0.0	man acc	Outside calibration
183	CCV CL	1.13	26.43	mg/l		0.0	man acc	
184	LCS CL	1.13	26.51	mg/l		0.0	man acc	
185	MB	1.13	-0.21	mg/l		0.0	man acc	Outside calibration
188	480-193467-I-5	1.13	209.06	mg/l		4.0	man acc	
189	480-193467-I-7	1.13	95.94	mg/l		1.0	man acc	
190	480-193470-D-1	1.13	429.04	mg/l		9.0	man acc	
192	480-193482-G-1	1.13	212.27	mg/l		4.0	man acc	
193	480-193482-G-2	1.13	315.61	mg/l		9.0	man acc	
194	ms480-193482-G-2	1.13	325.38	mg/l		9.0	man acc	
195	CCB	1.13	-0.42	mg/l		0.0	man acc	Outside calibration
196	CCV CL	1.13	26.20	mg/l		0.0	man acc	
197	LCS CL	1.13	25.95	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
200	MB	1.13	-0.54	mg/l		0.0	man acc	Outside calibration
201	480-193482-G-4	1.13	1,878.75	mg/l		39.0	man acc	
202	480-193482-G-5	1.13	218.94	mg/l		4.0	man acc	
204	480-193439-H-8	1.13	352.45	mg/l		9.0	man acc	
209	480-193482-G-8	1.13	68.68	mg/l		4.0	man acc	
211	ms480-193482-G-8	1.13	89.53	mg/l		4.0	man acc	
212	msd480-193482-G-	1.13	91.48	mg/l		4.0	man acc	
213	480-193444-I-3	1.13	45.83	mg/l		1.0	man acc	
214	480-193444-I-2	1.13	357.78	mg/l		9.0	man acc	
218	CCB	1.13	0.15	mg/l		0.0	man acc	Outside calibration
219	CCV CL	1.13	26.44	mg/l		0.0	man acc	
223	LCS CL	1.13	26.13	mg/l		0.0	man acc	
224	MB	1.13	-0.46	mg/l		0.0	man acc	Outside calibration
225	480-193562-K-2	1.13	601.04	mg/l		14.0	man acc	
227	480-193562-K-4	1.13	73.41	mg/l		1.0	man acc	
228	480-193482-G-6	1.13	568.31	mg/l		19.0	man acc	
229	480-193562-K-6	1.13	67.23	mg/l		1.0	man acc	
230	480-193562-K-7	1.13	77.30	mg/l		2.0	man acc	
231	480-193562-K-8	1.13	21.65	mg/l		1.0	man acc	
234	CCB	1.13	0.01	mg/l		0.0	man acc	Outside calibration
236	CCV CL	1.13	26.22	mg/l		0.0	man acc	
237	LCS CL	1.13	26.29	mg/l		0.0	man acc	
238	MB	1.13	-0.46	mg/l		0.0	man acc	Outside calibration
239	480-193562-K-3	1.13	153.14	mg/l		4.0	man acc	
258	480-193597-F-1	1.13	4,947.00	mg/l		199.0	man acc	
259	480-193444-I-4	1.13	164.95	mg/l		4.0	man acc	
260	480-193444-I-5	1.13	2,099.11	mg/l		59.0	man acc	
261	480-193444-I-6	1.13	3,362.52	mg/l		79.0	man acc	
262	480-193481-G-1	1.13	31.71	mg/l		0.0	man acc	
263	msd480-193482-G-	1.13	326.80	mg/l		9.0	man acc	
265	480-193482-G-7	1.13	227.78	mg/l		9.0	man acc	
266	CCB	1.13	-0.55	mg/l		0.0	man acc	Outside calibration
267	CCV CL	1.13	26.17	mg/l		0.0	man acc	
268	LCS CL	1.13	26.06	mg/l		0.0	man acc	
269	MB	1.13	-0.44	mg/l		0.0	man acc	Outside calibration
270	480-193482-G-9	1.13	394.61	mg/l		9.0	man acc	
272	480-193562-K-5	1.13	4.67	mg/l		0.0	man acc	
277	480-193562-K-1	1.13	629.67	mg/l		19.0	man acc	
286	480-193482-G-3	1.13	2,059.79	mg/l		49.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
287	CCB	1.13	-0.34	mg/l		0.0	man acc	Outside calibration
288	CCV CL	1.13	26.30	mg/l		0.0	man acc	
289	LCS CL	1.13	26.26	mg/l		0.0	man acc	
290	MB	1.13	-0.45	mg/l		0.0	man acc	Outside calibration

Historical Data Summary Report

For Batch 609377

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-192096-I-5	MW-8I	9251	Chloride	Total/NA	mg/L	8	1.0	18.9	☑	194.975 - 337.025	☑	188.8 - 360
480-193335-I-5	MW-17A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	30.5	☑	18.69 - 25.11	☑	16.16 - 28.92
480-193382-K-1	INFLUENT	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	60.0	2390	☐	728.574 - 3163.926	☐	984 - 3060
480-193383-D-3	LDZ 6	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	10.0	331	☐	275.034 - 438.466	☐	260.8 - 505.2
480-193383-E-1	LDZ 1&2	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	20.8	☐	7.183 - 30.867	☐	9.92 - 30.72
480-193383-E-2	LDZ 7	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	20.0	803	☐	246.504 - 1072.746	☐	364 - 1066.8
480-193385-O-1	MW-21SR	9251	Chloride	Total/NA	mg/L	1	2.0	81.2	☑	59.9 - 59.9	☑	47.92 - 71.88
480-193410-G-1	SW-1A	9251	Chloride	Total/NA	mg/L	5	10.0	417	☑	0 - 406.552	☑	66.08 - 375.6
480-193410-G-2	SW-1B	9251	Chloride	Total/NA	mg/L	3	5.0	206	☐	0 - 715.385	☐	167.013 - 250.52
480-193410-G-3	SW-2A	9251	Chloride	Total/NA	mg/L	1	10.0	332	☑	50.7 - 50.7	☑	40.56 - 60.84
480-193411-G-1	ST-5	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	30.4	☐	0 - 210.613	☐	5.52 - 166.8
480-193411-G-2	ST-3	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	2.0	77.3	☐	0 - 194.103	☐	27.04 - 166.8
480-193411-G-3	03FB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-2	MW-3A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 9.357	☐	0 - 7.08
480-193436-K-3	MW-3B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	21.3	☐	19.198 - 24.052	☐	16.16 - 27.24
480-193436-K-4	MW-4A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	9.9	☐	8.5 - 13.9	☐	7.92 - 15.12
480-193436-K-5	MW-5A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	4.8	☐	1.831 - 9.994	☐	3.76 - 11.28
480-193436-K-6	MW-6A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	2.1	☐	0 - 131.883	☐	1.44 - 109.32
480-193436-K-7	MW-6B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	18.3	☐	0 - 90.43	☐	5.36 - 81.12
480-193436-K-8	MW-7A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	9.8	☐	0 - 65.417	☐	6.48 - 51.96
480-193444-I-3	DUP-1	9251	Chloride	Total/NA	mg/L	8	2.0	46	☐	0 - 650.45	☐	2.08 - 600
480-193444-I-4	SW-2	9251	Chloride	Total/NA	mg/L	8	5.0	160	☐	19.29 - 162.96	☐	51.2 - 168
480-193460-P-1	MW-29CU	9251	Chloride	Total/NA	mg/L	1	1.0	3.8	☑	1.7 - 1.7	☑	1.36 - 2.04
480-193460-P-2	MW-10CUR	9251	Chloride	Total/NA	mg/L	1	1.0	3.7	☑	6 - 6	☑	4.8 - 7.2
480-193467-I-1	01FB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-I-2	YSC01	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	10.0	303	☐	0 - 971.891	☐	24.32 - 918
480-193467-I-3	YSC02	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	10.0	332	☐	0 - 764.108	☐	67.6 - 622.8
480-193467-I-4	YSP03R	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	3.0	111	☐	62.707 - 197.468	☐	70.96 - 196.8
480-193467-I-5	YSP05	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	5.0	209	☐	153.337 - 257.163	☐	130.4 - 265.2
480-193467-I-6	YSP08	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	9.7	☐	8.168 - 11.107	☐	7.36 - 12.96
480-193467-I-7	YSP09	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	2.0	95.9	☐	77.45 - 96.9	☐	64.88 - 110.52
480-193470-D-1	LDZ 3	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	10.0	429	☐	0 - 618.985	☐	118.4 - 508.8
480-193481-G-1	MH8L-MLD	9251	Chloride	Total/NA	mg/L	8	1.0	31.7	☐	0 - 13012.86	☐	20.24 - 8064
480-193482-G-1	172R	9251	Chloride	Total/NA	mg/L	8	5.0	212	☐	159.349 - 262.901	☐	145.6 - 284.4
480-193482-G-2	413R	9251	Chloride	Total/NA	mg/L	8	10.0	316	☐	247.587 - 376.413	☐	225.6 - 404.4
480-193482-G-3	173R	9251	Chloride	Total/NA	mg/L	8	50.0	2060	☐	1067.384 - 2522.616	☐	1000 - 2496
480-193482-G-4	171R	9251	Chloride	Total/NA	mg/L	8	40.0	1880	☐	956.371 - 2206.129	☐	968 - 2256
480-193482-G-5	169RR	9251	Chloride	Total/NA	mg/L	8	5.0	219	☐	165.658 - 257.342	☐	149.6 - 273.6
480-193482-G-6	170R	9251	Chloride	Total/NA	mg/L	8	20.0	568	☐	262.87 - 585.13	☐	260 - 633.6

Historical Data Summary Report

For Batch 609377

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193482-G-7	302R	9251	Chloride	Total/NA	mg/L	8	10.0	228	☐	212.853 - 357.397	☐	193.6 - 382.8
480-193482-G-8	301RR	9251	Chloride	Total/NA	mg/L	8	5.0	68.7	☑	126.099 - 184.651	☑	115.2 - 204 OK
480-193482-G-9	300R	9251	Chloride	Total/NA	mg/L	8	10.0	395	☐	236.35 - 500.4	☐	232.8 - 502.8
480-193562-K-1	DUP-1	9251	Chloride	Total/NA	mg/L	8	20.0	630	☑	0 - 230.123	☑	2.08 - 204 OK
480-193562-K-2	MW-1I	9251	Chloride	Total/NA	mg/L	2	15.0	600	☐	330 - 690	☐	408 - 612
480-193562-K-3	MW-2S	9251	Chloride	Total/NA	mg/L	8	5.0	150	☑	0 - 148.263	☐	3.28 - 156
480-193562-K-4	MW-3I	9251	Chloride	Total/NA	mg/L	2	2.0	73	☐	58 - 94	☐	60.8 - 91.2
480-193562-K-5	MW-4S	9251	Chloride	Total/NA	mg/L	8	1.0	4.7	☐	0 - 70.243	☑	12 - 63.6 OK
480-193562-K-6	MW-6I	9251	Chloride	Total/NA	mg/L	2	2.0	67	☐	33 - 102	☐	54 - 81
480-193562-K-7	SUR-1	9251	Chloride	Total/NA	mg/L	8	3.0	77	☐	0 - 308.446	☐	29.6 - 288
480-193562-K-8	SUR-2	9251	Chloride	Total/NA	mg/L	8	2.0	22	☐	0 - 363.917	☐	21.6 - 384
480-193597-F-1	21-08636 HMV	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	200.0	4900	☐	0 - 19726.812	☐	3920 - 16800

12/30/2021

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Coversheet—Wet Chemistry Dept

Analysis: Chloride

Method: 9251

Analyst/Primary Reviewer: SRW

Secondary Reviewer: _____

Date of Analytical Run: 12/17/21

Date of Primary Review: 12/17/21

Date of Secondary Review: _____

Prep Batch Number					
Analytical Batch Number	609377				

Criteria for QC	1st Level	2nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, r > or = 0.995, pH meter slope 90-110% (if applicable)	Y			
Was Data Imported X Manually Entered ____ Balance Interface Used ____	Impt			
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Y			
Were the ICB, CCB and MB all <RL?	Y			
Was there a CCV/CCB combination run after every 10 samples or less?	Y			
Was there an LCS run with every batch of 20 samples or less?	Y			
Was there a DU, MS or MSD run with every batch of 20 samples or less?	Y			
Were all MS/MSD results within acceptable limits for QC recovery?	N			
Were all DU or MSD RPDs within acceptable limits for QC recovery?	Y			
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	Y			
Are dilution factors all present and correct?	Y			
Do all entries match raw data?	Y			
Were there any holding time violations in this batch?	Y			**NOTE!** The PM and QA Manager must be notified by email *immediately* of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y			
Were any NCMs needed in the batch?	Y			NCM #s: 576755
Data scanned in?	Y			

Chloride

325.2/SM4500_CL_E/9251

1000 PPM	(MS/MSD/CAL)	5222530	EXP: 04/12/2024
25 PPM	(CCV/LCS)	6815292	EXP: 01/10/2022
Color reagent:		6344179	EXP: 02/28/2022

ERA Minerals (ICV): 6318066 EXP: 04/01/2023
Actual = 61.9 MG/L
Range = 56.3 – 66.9 MG/L

CURVE:

Kone 1: 06-13-2019 Batch: 478009
50ppm: 5352373

Kone 2: 06-24-2020 Batch: 537874
50ppm: 5988654

Kone 3: 05-11-2020 Batch: 531059
50 ppm: 5915012

Gallery 1: 12-13-2021 Batch: 608717
50 ppm: 6815388

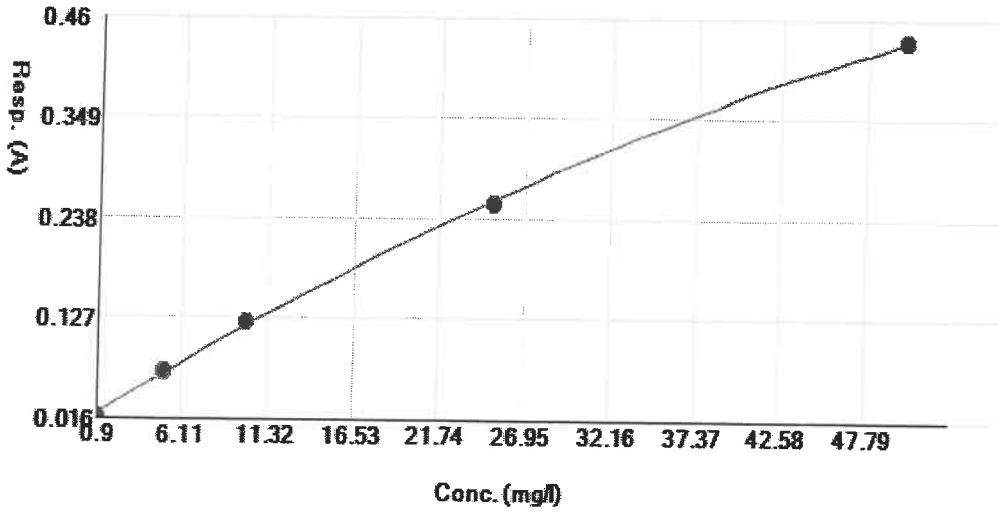
Calibration results

CL Version number 1.13

Date	12/17/2021	**User**	BufGallery1
Time	8:33:30PM	**Software version: 6.0.2**	
Analyzer name	Analyzer 1		

Test	CL	**Coeff. of deter.**	0.999537
Status	Accepted	**Total factor**	118.959
Accepted	12/13/2021 6:16 PM		
Checked	12/13/2021 6:16 PM	Zero-order factor	0.010
User name	BufGallery1	1st order factor	0.011
Comment		2nd order factor	0.000
Errors			

Cal/Ctrl	Response	Calc. conc.	Given conc.	Lot	Errors
CL-50	0.018	0.683	1.000	Default	
CL-50	0.067	5.118	5.000	Default	
CL-50	0.123	10.497	10.000	Default	
CL-50	0.255	24.597	25.000	Default	
CL-50	0.434	50.115	50.000	Default	
CL CCVL	0.021	0.93	1.00	Default	QC, Outside calibration
CL-ICV	0.312	31.60	25.00	Default	QC, Rule 1 violated
ICB	0.006	-0.35	0.00	Default	QC, Outside calibration



Water blank results

Date 12/17/2021 **User** BufGallery1

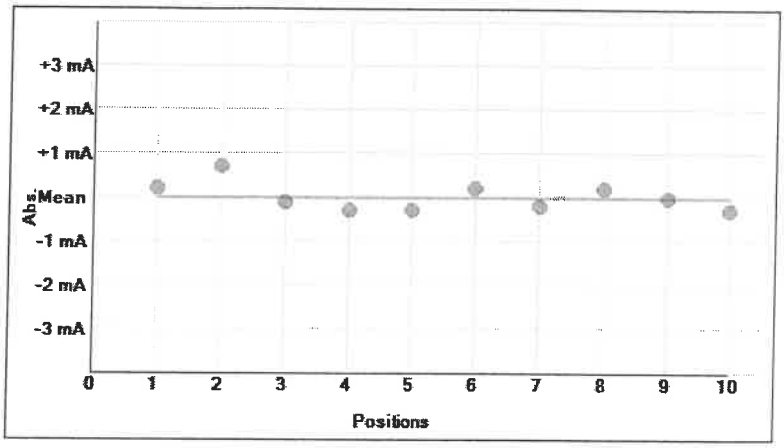
Time 8:34:02PM **Software version: 6.0.2**

Measurement time
12/17/2021 5:54 PM

MAX acceptable SD (mA)
2

Wavelength (nm)	Abs (mA)	SD (mA)
340	**-1003.4**	**0.3**
420	-1036.3	0.3
480	-1046.9	0.2
510	-1050.5	0.1
540	-1054.0	0.1
575	-1057.1	0.1
600	-1058.6	0.1
620	-1060.0	0.1
660	-1062.3	0.1
700	-1063.3	0.9
880	-1046.9	0.5

340



Results by Test

Date 12/17/2021 **User** BufGallery1

Time 9:48:31PM **Software version: 6.0.2**

Test name CL

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
5	era	1.13	58.21	mg/l		1.0	man acc	
10	CCB	1.13	-0.54	mg/l		0.0	man acc	Outside calibration
11	CCV CL	1.13	26.29	mg/l		0.0	man acc	
12	LCS CL	1.13	26.12	mg/l		0.0	man acc	
13	MB	1.13	-0.35	mg/l		0.0	man acc	Outside calibration
14	480-192096-I-5	1.13	18.90	mg/l		0.0	man acc	
15	ms480-192096-I-5	1.13	39.07	mg/l		0.0	man acc	
16	msd480-192096-I-5	1.13	39.85	mg/l		0.0	man acc	
17	480-193335-I-5	1.13	30.54	mg/l		0.0	man acc	
19	480-193383-E-1	1.13	20.81	mg/l		0.0	man acc	
20	ms480-193383-E-1	1.13	40.46	mg/l		0.0	man acc	
21	msd480-193383-E-	1.13	41.28	mg/l		0.0	man acc	
22	CCB	1.13	-0.52	mg/l		0.0	man acc	Outside calibration
23	CCV CL	1.13	26.30	mg/l		0.0	man acc	
24	LCS CL	1.13	26.29	mg/l		0.0	man acc	
25	MB	1.13	-0.23	mg/l		0.0	man acc	Outside calibration
27	480-193383-D-3	1.13	330.89	mg/l		9.0	man acc	
28	480-193385-Q-1	1.13	81.23	mg/l		1.0	man acc	
40	480-193411-G-1	1.13	30.44	mg/l		0.0	man acc	
42	480-193411-G-3	1.13	-0.48	mg/l		0.0	man acc	Outside calibration
43	CCB	1.13	-0.41	mg/l		0.0	man acc	Outside calibration
44	CCV CL	1.13	26.36	mg/l		0.0	man acc	
45	LCS CL	1.13	26.25	mg/l		0.0	man acc	
46	MB	1.13	-0.34	mg/l		0.0	man acc	Outside calibration
47	ms480-193411-G-3	1.13	22.70	mg/l		0.0	man acc	
48	480-193416-D-1	1.13	22.96	mg/l		0.0	man acc	
49	480-193436-K-2	1.13	0.35	mg/l		0.0	man acc	Outside calibration
50	480-193436-K-3	1.13	21.26	mg/l		0.0	man acc	
51	480-193410-G-1	1.13	416.76	mg/l		9.0	man acc	
54	480-193436-K-4	1.13	9.87	mg/l		0.0	man acc	
55	ms480-193436-K-4	1.13	31.59	mg/l		0.0	man acc	
56	msd480-193436-K-	1.13	31.79	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
57	CCB	1.13	-0.77	mg/l		0.0	man acc	Outside calibration
58	CCV CL	1.13	26.19	mg/l		0.0	man acc	
59	LCS CL	1.13	26.11	mg/l		0.0	man acc	
60	MB	1.13	-0.39	mg/l		0.0	man acc	Outside calibration
61	480-193436-K-5	1.13	4.77	mg/l		0.0	man acc	
62	480-193436-K-6	1.13	2.11	mg/l		0.0	man acc	
63	480-193436-K-7	1.13	18.35	mg/l		0.0	man acc	
64	480-193436-K-8	1.13	9.79	mg/l		0.0	man acc	
77	msd480-193411-G-	1.13	23.67	mg/l		0.0	man acc	
81	480-193397-D-2	1.13	78.13	mg/l		1.0	man acc	
82	480-193397-D-3	1.13	78.07	mg/l		1.0	man acc	
87	480-193411-G-2	1.13	77.31	mg/l		1.0	man acc	
88	CCB	1.13	-0.37	mg/l		0.0	man acc	Outside calibration
89	CCV CL	1.13	26.22	mg/l		0.0	man acc	
90	LCS CL	1.13	26.43	mg/l		0.0	man acc	
91	MB	1.13	-0.31	mg/l		0.0	man acc	Outside calibration
95	480-193382-K-1	1.13	2,394.49	mg/l		59.0	man acc	
96	480-193383-E-2	1.13	802.91	mg/l		19.0	man acc	
97	480-193410-G-2	1.13	205.74	mg/l		4.0	man acc	
100	480-193439-H-6	1.13	36.39	mg/l		0.0	man acc	
101	480-193439-H-7	1.13	8.99	mg/l		0.0	man acc	
112	480-193439-H-11	1.13	4.27	mg/l		0.0	man acc	
113	480-193444-I-1	1.13	47.01	mg/l		0.0	man acc	
115	CCB	1.13	-0.68	mg/l		0.0	man acc	Outside calibration
116	CCV CL	1.13	26.07	mg/l		0.0	man acc	
117	LCS CL	1.13	26.21	mg/l		0.0	man acc	
118	MB	1.13	-0.38	mg/l		0.0	man acc	Outside calibration
120	480-193397-D-1	1.13	139.91	mg/l		4.0	man acc	
121	480-193397-D-4	1.13	164.49	mg/l		4.0	man acc	
125	480-193397-D-5	1.13	114.70	mg/l		4.0	man acc	
126	480-193397-D-6	1.13	171.48	mg/l		4.0	man acc	
127	480-193397-D-7	1.13	114.22	mg/l		4.0	man acc	
133	480-193410-G-3	1.13	332.10	mg/l		9.0	man acc	
134	CCB	1.13	-0.54	mg/l		0.0	man acc	Outside calibration
135	CCV CL	1.13	26.28	mg/l		0.0	man acc	
136	LCS CL	1.13	26.21	mg/l		0.0	man acc	
137	MB	1.13	-0.52	mg/l		0.0	man acc	Outside calibration
138	480-193439-H-1	1.13	142.81	mg/l		4.0	man acc	
139	ms480-193439-H-1	1.13	158.26	mg/l		4.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
140	msd480-193439-H-	1.13	159.79	mg/l		4.0	man acc	
141	480-193439-H-2	1.13	138.94	mg/l		4.0	man acc	
147	480-193460-P-1	1.13	3.84	mg/l		0.0	man acc	
148	ms480-193460-P-1	1.13	25.70	mg/l		0.0	man acc	
149	msd480-193460-P-	1.13	25.67	mg/l		0.0	man acc	
153	CCB	1.13	-0.82	mg/l		0.0	man acc	Outside calibration
154	CCV CL	1.13	26.24	mg/l		0.0	man acc	
155	LCS CL	1.13	26.15	mg/l		0.0	man acc	
156	MB	1.13	-0.27	mg/l		0.0	man acc	Outside calibration
157	480-193460-P-2	1.13	3.70	mg/l		0.0	man acc	
158	480-193467-I-1	1.13	-0.53	mg/l		0.0	man acc	Outside calibration
159	ms480-193467-I-1	1.13	22.63	mg/l		0.0	man acc	
160	msd480-193467-I-1	1.13	22.67	mg/l		0.0	man acc	
165	480-193439-H-3	1.13	206.91	mg/l		4.0	man acc	
166	480-193439-H-4	1.13	181.51	mg/l		4.0	man acc	
167	ms480-193439-H-4	1.13	197.82	mg/l		4.0	man acc	
168	msd480-193439-H-	1.13	194.72	mg/l		4.0	man acc	
169	CCB	1.13	-0.08	mg/l		0.0	man acc	Outside calibration
170	CCV CL	1.13	26.51	mg/l		0.0	man acc	
172	480-193439-H-5	1.13	140.95	mg/l		4.0	man acc	
173	480-193467-I-2	1.13	302.80	mg/l		9.0	man acc	
174	480-193467-I-3	1.13	332.21	mg/l		9.0	man acc	
175	480-193467-I-4	1.13	111.44	mg/l		2.0	man acc	
177	480-193439-H-9	1.13	149.75	mg/l		4.0	man acc	
180	480-193439-H-10	1.13	216.80	mg/l		4.0	man acc	
181	480-193467-I-6	1.13	9.67	mg/l		0.0	man acc	
182	CCB	1.13	-0.42	mg/l		0.0	man acc	Outside calibration
183	CCV CL	1.13	26.43	mg/l		0.0	man acc	
184	LCS CL	1.13	26.51	mg/l		0.0	man acc	
185	MB	1.13	-0.21	mg/l		0.0	man acc	Outside calibration
188	480-193467-I-5	1.13	209.06	mg/l		4.0	man acc	
189	480-193467-I-7	1.13	95.94	mg/l		1.0	man acc	
190	480-193470-D-1	1.13	429.04	mg/l		9.0	man acc	
192	480-193482-G-1	1.13	212.27	mg/l		4.0	man acc	
193	480-193482-G-2	1.13	315.61	mg/l		9.0	man acc	
194	ms480-193482-G-2	1.13	325.38	mg/l		9.0	man acc	
195	CCB	1.13	-0.42	mg/l		0.0	man acc	Outside calibration
196	CCV CL	1.13	26.20	mg/l		0.0	man acc	
197	LCS CL	1.13	25.95	mg/l		0.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
200	MB	1.13	-0.54	mg/l		0.0	man acc	Outside calibration
201	480-193482-G-4	1.13	1,878.75	mg/l		39.0	man acc	
202	480-193482-G-5	1.13	218.94	mg/l		4.0	man acc	
204	480-193439-H-8	1.13	352.45	mg/l		9.0	man acc	
209	480-193482-G-8	1.13	68.68	mg/l		4.0	man acc	
211	ms480-193482-G-8	1.13	89.53	mg/l		4.0	man acc	
212	msd480-193482-G-	1.13	91.48	mg/l		4.0	man acc	
213	480-193444-I-3	1.13	45.83	mg/l		1.0	man acc	
214	480-193444-I-2	1.13	357.78	mg/l		9.0	man acc	
218	CCB	1.13	0.15	mg/l		0.0	man acc	Outside calibration
219	CCV CL	1.13	26.44	mg/l		0.0	man acc	
223	LCS CL	1.13	26.13	mg/l		0.0	man acc	
224	MB	1.13	-0.46	mg/l		0.0	man acc	Outside calibration
225	480-193562-K-2	1.13	601.04	mg/l		14.0	man acc	
227	480-193562-K-4	1.13	73.41	mg/l		1.0	man acc	
228	480-193482-G-6	1.13	568.31	mg/l		19.0	man acc	
229	480-193562-K-6	1.13	67.23	mg/l		1.0	man acc	
230	480-193562-K-7	1.13	77.30	mg/l		2.0	man acc	
231	480-193562-K-8	1.13	21.65	mg/l		1.0	man acc	
234	CCB	1.13	0.01	mg/l		0.0	man acc	Outside calibration
236	CCV CL	1.13	26.22	mg/l		0.0	man acc	
237	LCS CL	1.13	26.29	mg/l		0.0	man acc	
238	MB	1.13	-0.46	mg/l		0.0	man acc	Outside calibration
239	480-193562-K-3	1.13	153.14	mg/l		4.0	man acc	
258	480-193597-F-1	1.13	4,947.00	mg/l		199.0	man acc	
259	480-193444-I-4	1.13	164.95	mg/l		4.0	man acc	
260	480-193444-I-5	1.13	2,099.11	mg/l		59.0	man acc	
261	480-193444-I-6	1.13	3,362.52	mg/l		79.0	man acc	
262	480-193481-G-1	1.13	31.71	mg/l		0.0	man acc	
263	msd480-193482-G-	1.13	326.80	mg/l		9.0	man acc	
265	480-193482-G-7	1.13	227.78	mg/l		9.0	man acc	
266	CCB	1.13	-0.55	mg/l		0.0	man acc	Outside calibration
267	CCV CL	1.13	26.17	mg/l		0.0	man acc	
268	LCS CL	1.13	26.06	mg/l		0.0	man acc	
269	MB	1.13	-0.44	mg/l		0.0	man acc	Outside calibration
270	480-193482-G-9	1.13	394.61	mg/l		9.0	man acc	
272	480-193562-K-5	1.13	4.67	mg/l		0.0	man acc	
277	480-193562-K-1	1.13	629.67	mg/l		19.0	man acc	
286	480-193482-G-3	1.13	2,059.79	mg/l		49.0	man acc	

Nbr.	Sample/ctrl ID	Test version	Result	Unit	Note	Dil. 1 +	Status	Errors
287	CCB	1.13	-0.34	mg/l		0.0	man acc	Outside calibration
288	CCV CL	1.13	26.30	mg/l		0.0	man acc	
289	LCS CL	1.13	26.26	mg/l		0.0	man acc	
290	MB	1.13	-0.45	mg/l		0.0	man acc	Outside calibration

Historical Data Summary Report

For Batch 609377

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-192096-I-5	MW-8I	9251	Chloride	Total/NA	mg/L	8	1.0	18.9 19.2	☑	194.975 - 337.025	☑	188.8 - 360
480-193335-I-5	MW-17A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	30.5	☑	18.69 - 25.11	☑	16.16 - 28.92
480-193382-K-1	INFLUENT	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	60.0	2390	☐	728.574 - 3163.926	☐	984 - 3060
480-193383-D-3	LDZ 6	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	10.0	331	☐	275.034 - 438.466	☐	260.8 - 505.2
480-193383-E-1	LDZ 1&2	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	20.8	☐	7.183 - 30.867	☐	9.92 - 30.72
480-193383-E-2	LDZ 7	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	20.0	803	☐	246.504 - 1072.746	☐	364 - 1066.8
480-193385-O-1	MW-21SR	9251	Chloride	Total/NA	mg/L	1	2.0	81.2	☑	59.9 - 59.9	☑	47.92 - 71.88
480-193410-G-1	SW-1A	9251	Chloride	Total/NA	mg/L	5	10.0	417	☑	0 - 406.552	☑	66.08 - 375.6
480-193410-G-2	SW-1B	9251	Chloride	Total/NA	mg/L	3	5.0	206	☐	0 - 715.385	☐	167.013 - 250.52
480-193410-G-3	SW-2A	9251	Chloride	Total/NA	mg/L	1	10.0	332	☑	50.7 - 50.7	☑	40.56 - 60.84
480-193411-G-1	ST-5	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	30.4	☐	0 - 210.613	☐	5.52 - 166.8
480-193411-G-2	ST-3	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	2.0	77.3	☐	0 - 194.103	☐	27.04 - 166.8
480-193411-G-3	03FB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-K-2	MW-3A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 9.357	☐	0 - 7.08
480-193436-K-3	MW-3B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	21.3	☐	19.198 - 24.052	☐	16.16 - 27.24
480-193436-K-4	MW-4A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	9.9	☐	8.5 - 13.9	☐	7.92 - 15.12
480-193436-K-5	MW-5A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	4.8	☐	1.831 - 9.994	☐	3.76 - 11.28
480-193436-K-6	MW-6A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	2.1	☐	0 - 131.883	☐	1.44 - 109.32
480-193436-K-7	MW-6B	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	18.3	☐	0 - 90.43	☐	5.36 - 81.12
480-193436-K-8	MW-7A	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	9.8	☐	0 - 65.417	☐	6.48 - 51.96
480-193444-I-3	DUP-1	9251	Chloride	Total/NA	mg/L	8	2.0	46	☐	0 - 650.45	☐	2.08 - 600
480-193444-I-4	SW-2	9251	Chloride	Total/NA	mg/L	8	5.0	160	☐	19.29 - 162.96	☐	51.2 - 168
480-193460-P-1	MW-29CU	9251	Chloride	Total/NA	mg/L	1	1.0	3.8	☑	1.7 - 1.7	☑	1.36 - 2.04
480-193460-P-2	MW-10CUR	9251	Chloride	Total/NA	mg/L	1	1.0	3.7	☑	6 - 6	☑	4.8 - 7.2
480-193467-I-1	01FB	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-I-2	YSC01	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	10.0	303	☐	0 - 971.891	☐	24.32 - 918
480-193467-I-3	YSC02	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	10.0	332	☐	0 - 764.108	☐	67.6 - 622.8
480-193467-I-4	YSP03R	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	3.0	111	☐	62.707 - 197.468	☐	70.96 - 196.8
480-193467-I-5	YSP05	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	5.0	209	☐	153.337 - 257.163	☐	130.4 - 265.2
480-193467-I-6	YSP08	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	1.0	9.7	☐	8.168 - 11.107	☐	7.36 - 12.96
480-193467-I-7	YSP09	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	2.0	95.9	☐	77.45 - 96.9	☐	64.88 - 110.52
480-193470-D-1	LDZ 3	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	10.0	429	☐	0 - 618.985	☐	118.4 - 508.8
480-193481-G-1	MH8L-MLD	9251	Chloride	Total/NA	mg/L	8	1.0	31.7	☐	0 - 13012.86	☐	20.24 - 8064
480-193482-G-1	172R	9251	Chloride	Total/NA	mg/L	8	5.0	212	☐	159.349 - 262.901	☐	145.6 - 284.4
480-193482-G-2	413R	9251	Chloride	Total/NA	mg/L	8	10.0	316	☐	247.587 - 376.413	☐	225.6 - 404.4
480-193482-G-3	173R	9251	Chloride	Total/NA	mg/L	8	50.0	2060	☐	1067.384 - 2522.616	☐	1000 - 2496
480-193482-G-4	171R	9251	Chloride	Total/NA	mg/L	8	40.0	1880	☐	956.371 - 2206.129	☐	968 - 2256
480-193482-G-5	169RR	9251	Chloride	Total/NA	mg/L	8	5.0	219	☐	165.658 - 257.342	☐	149.6 - 273.6
480-193482-G-6	170R	9251	Chloride	Total/NA	mg/L	8	20.0	568	☐	262.87 - 585.13	☐	260 - 633.6

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12/30/2021

Historical Data Summary Report

For Batch 609377

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193482-G-7	302R	9251	Chloride	Total/NA	mg/L	8	10.0	228	☐	212.853 - 357.397	☐	193.6 - 382.8
480-193482-G-8	301RR	9251	Chloride	Total/NA	mg/L	8	5.0	68.7	☑	126.099 - 184.651	☑	115.2 - 204
480-193482-G-9	300R	9251	Chloride	Total/NA	mg/L	8	10.0	395	☐	236.35 - 500.4	☐	232.8 - 502.8
480-193562-K-1	DUP-1	9251	Chloride	Total/NA	mg/L	8	20.0	630	☑	0 - 230.123	☑	2.08 - 204
480-193562-K-2	MW-1I	9251	Chloride	Total/NA	mg/L	2	15.0	600	☐	330 - 690	☐	408 - 612
480-193562-K-3	MW-2S	9251	Chloride	Total/NA	mg/L	8	5.0	150	☑	0 - 148.263	☐	3.28 - 156
480-193562-K-4	MW-3I	9251	Chloride	Total/NA	mg/L	2	2.0	73	☐	58 - 94	☐	60.8 - 91.2
480-193562-K-5	MW-4S	9251	Chloride	Total/NA	mg/L	8	1.0	4.7	☐	0 - 70.243	☑	12 - 63.6
480-193562-K-6	MW-6I	9251	Chloride	Total/NA	mg/L	2	2.0	67	☐	33 - 102	☐	54 - 81
480-193562-K-7	SUR-1	9251	Chloride	Total/NA	mg/L	8	3.0	77	☐	0 - 308.446	☐	29.6 - 288
480-193562-K-8	SUR-2	9251	Chloride	Total/NA	mg/L	8	2.0	22	☐	0 - 363.917	☐	21.6 - 384
480-193597-F-1	21-08636 HMV	SM4500_Cl_I	Chloride	Total/NA	mg/L	8	200.0	4900	☐	0 - 19726.812	☐	3920 - 16800

Rev. 4.1
05/21/2021

Eurofins TestAmerica Buffalo
BOD Documentation for BOD
Logbook # A21-19

BOD # 609214
Batch # Prenus #2

Analyst RM

Date & Time run set up 12/16/21

Initial DO Air Calibration 985.5 @ 24.0 8.49 → 8.18
Barometer ID SN 19270671

Date & Time of read RM 10:31 12/21/21

Final DO Air Calibration 996.7 @ 23.5°C 8.47 → 8.34
Barometer ID SN 19270671

pH check of samples (6.0-8.0) ✓ See Bottom

Residual Chlorine check of samples ✓

Temperature Check of samples Measured Temperature= ✓
*** (20+/- 3°C)** *Corrected Temperature=
(after Correction factor has been applied)

Temperature Check of Dilution Water Measured Temperature= Carboy 6 @ 22.4°C
*** (20+/- 3°C)** *Corrected Temperature= (after Correction factor has been applied)

Solutions

BOD SEED: 656163 **CBOD SEED:** —

GLUCOSE: 6646331 **GLUTAMIC ACID:** 6294365

H2SO4: 6130250 **NaOH:** —

Sodium Sulfite: —

CARBOY NUTIENT BUFFER PILLOWS: —

BOD BOTTLE NUTRIENT BUFFER PILLOWS: 6614223 1

Check, MS, MSD CONCENTRATION: ACTUAL VALUE: 198 mg/L RANGE: 167.5 – 228.5 mg/L

Incubator # 2

GGA: GLUCOSE: 0.1503 GLUTAMIC ACID: 0.1504

Reviewed by: RM **Date:** 12/21/21

164/200

Historical Data Summary Report

For Batch 609214

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193376-C-1	EFFLUENT	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	68.3	☐	0 - 5057.365	☐	26.8 - 5400
480-193398-A-1	WWE Eff.Comp.	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	5	1100	☑	0 - 460.936	☑	24 - 372
480-193422-A-11	337	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	10	☐	0 - 78.01	☐	0 - 82.44
480-193422-A-12	338	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-A-2	MW-3A	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-A-3	MW-3B	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-A-4	MW-4A	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-A-5	MW-5A	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-A-6	MW-6A	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 32.055	☐	0 - 34.32
480-193436-A-7	MW-6B	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-A-8	MW-7A	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193437-A-1	COND1	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	288	☑	0 - 265.964	☑	5.76 - 270
480-193443-A-1	SRM01	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	107	☐	0 - 274.933	☐	0 - 212.4
480-193443-A-2	SRM02	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	150	☐	39.073 - 380.177	☐	90.4 - 320.4
480-193443-A-3	SRM03	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	3	2	201	☐	0 - 11741.103	☑	1873.067 - 2809.6
480-193445-A-1	MILL EFFLUENT	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	10	6200	☑	1059.651 - 3640.349	☑	1200 - 3600
480-193446-A-1	WWE Eff.Comp.	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	210	☐	0 - 471.018	☐	24 - 372
480-193449-C-1	LEACHATE COMP	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	17.3	☐	0.332 - 44.518	☐	11.6 - 47.52
480-193468-A-1	EFFLUENT	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.159	☐	0 - 6.84
480-193472-A-1	INFLUENT	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	>37.7	☐	0 - 667.206	☑	22.48 - 570
480-193472-A-2	EFFLUENT	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.159	☐	0 - 6.84
480-193473-A-1	EFFLUENT	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.159	☐	0 - 6.84
480-193474-A-1	INFLUENT	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 667.206	☑	22.48 - 570
480-193474-A-2	EFFLUENT	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	4.2	☐	0 - 10.159	☐	0 - 6.84
480-193476-A-1	INFLUENT	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 667.206	☑	22.48 - 570

Historical Data Summary Report

For Batch 609214

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193476-A-2	EFFLUENT	5210B	Biochemical Oxygen Demand	Total/NA	mg/L	8	1.0	ND	☐	0 - 10.159	☐	0 - 6.84

Intials Operator: RM
Finals Operator: RM

PC-BOD Post Run Final Report

Flag Definitions

SR	Standard - Outside of range
SAR	Standard average out of range
bSS	Blank supersaturated
bDe	Blank - Depletion
cD	Seed - Depletion
cF	Seed - Final DO
cR	Seed - Range
kD	Spike - Depletion
kF	Spike - Final DO
kR	Spike - Range
sD	
sF	Sample Limit - Depletion
	Sample Limit - Final DO
gF	
gD	Group Failure - Final DO
gT	Group Failure - Depletion
	Group Failure - Toxicity
In+	
In-	
iT	
fT	

12/30/2021

Run Number: 10365
OrderNumber: PC_BOD_20211216-1
Start Time: 8:54 AM
Start Date: 12/16/2021
Finish Time: 12:57 PM
Finish Date: 12/21/2021

BOD Seed Correction: (per ml of seed) .16
CBOD Seed Correction: (per ml of seed) .00
BOD Blank Average Depletion: .19
CBOD Blank Average Depletion: .00
Correction Factor: 1.00

Reading
96.20

Readingfinal
96.20

AtmoPressure
731.00

AtmosUnits
mmHg

AtmoPressurefinal
731.00

AtmosUnitsfinal
mmHg

Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
1	Rinse		1.00	.00	.00	7.15	22.30	7.09	20.10	.06	< .00	.00	sD
2	Rinse		1.00	.00	.00	7.46	22.10	7.50	20.20	-.04	< .00	.00	sD
3	Rinse		1.00	.00	.00	7.60	22.10	7.59	20.50	.01	< .00	.00	sD
4	Rinse		1.00	.00	.00	7.57	22.10	7.53	20.80	.04	< .00	< 2.00	sDgD
5	Blank		1.00	.00	.00	7.72	22.10	7.41	21.10	.31	.00	.00	bDe
6	Seed		1.00	.00	20.00	7.19	21.90	3.44	21.30	3.75	.00	.00	
7	Seed		1.00	.00	20.00	7.32	22.00	4.21	20.10	3.11	.00	.00	
8	Seed		1.00	.00	20.00	7.37	22.00	4.48	20.30	2.89	.00	.00	
9	Check		1.00	6.00	4.00	7.52	22.10	3.14	20.60	4.38	186.50	.00	
10	Check		1.00	6.00	4.00	7.49	22.10	3.23	20.40	4.26	180.50	.00	
11	Check		1.00	6.00	4.00	7.55	22.10	3.16	20.50	4.39	187.00	.00	
12	193376-C-1		5.00	100.00	.00	7.02	21.80	.17	20.90	6.85	> 102.75	.00	sF
13	193376-C-1		5.00	50.00	.00	7.36	22.10	.23	20.10	7.13	> 213.90	.00	sF

184.6

Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
14	193376-C-1		5.00	25.00	.00	7.67	22.10	2.03	20.00	5.64	338.40	.00	
15	193376-C-1		5.00	10.00	.00	7.54	22.10	5.24	20.00	2.30	345.00	.00	5.695
16	193376-C-1		5.00	5.00	.00	7.58	22.10	6.52	20.20	1.06	< 318.00	.00	sD
17	193376-C-1		5.00	3.00	.00	7.55	22.10	6.92	20.40	.63	< 315.00	341.70	160 sDgT
18	193398-A-1		1.00	100.00	.00	7.07	22.00	.17	20.60	6.90	> 20.70	.00	sF
19	193398-A-1		1.00	50.00	.00	7.51	22.20	.11	19.90	7.40	> 44.40	.00	sF
20	193398-A-1		1.00	25.00	.00	7.35	22.10	.16	19.90	7.19	> 86.28	.00	sF
21	193398-A-1		1.00	10.00	.00	7.52	22.10	1.34	20.20	6.18	185.40	.00	
22	193398-A-1		1.00	5.00	.00	7.58	22.00	3.35	20.10	4.23	253.80	.00	7.5356
23	193398-A-1		1.00	3.00	.00	7.55	22.10	5.16	20.10	2.39	239.00	226.07	130 gT
24	193422-A-11		1.00	100.00	.00	7.51	22.30	4.18	20.40	3.33	9.99	.00	
1	193422-A-11		1.00	50.00	.00	7.32	22.50	5.47	19.80	1.85	< 11.10	.00	sD
2	193422-A-11		1.00	25.00	.00	7.53	22.30	6.69	19.50	.84	< 10.08	.00	sD
3	193422-A-11		1.00	10.00	.00	7.48	22.30	7.38	19.40	.10	< 3.00	.00	sD
4	193422-A-11		1.00	5.00	.00	7.65	22.20	7.58	19.20	.07	< 4.20	.00	3.33 sD
5	193422-A-11		1.00	3.00	.00	7.54	22.20	7.50	19.00	.04	< 4.00	9.99	13 sDgT
6	193422-A-12		1.00	300.00	.00	7.63	22.20	7.02	19.20	.61	< .61	.00	sD
7	193422-A-12		1.00	200.00	.00	7.80	22.20	7.49	19.20	.31	< .46	.00	sD
8	193422-A-12		1.00	100.00	.00	7.22	22.30	7.24	19.20	-.02	< -.06	< .61	sDgDgT
9	193433-E-1		1.00	300.00	.00	7.45	21.90	.27	19.50	7.18	> 7.18	.00	sF
10	193433-E-1		1.00	200.00	.00	7.47	21.80	.13	19.10	7.34	> 11.01	.00	sF
11	193433-E-1		1.00	100.00	.00	7.73	21.40	.12	18.90	7.61	> 22.83	> 22.83	sFgFgT
12	193435-Y-2		1.00	300.00	.00	7.03	21.80	7.05	19.00	-.02	< -.02	.00	sD
13	193435-Y-2		1.00	200.00	.00	7.19	22.00	7.04	19.20	.15	< .23	.00	sD
14	193435-Y-2		1.00	100.00	.00	7.40	22.00	7.37	19.20	.03	< .09	< 10	sDgDgT
15	193435-Y-4		1.00	300.00	.00	7.32	21.90	7.22	19.40	.10	< .10	.00	sD
16	193435-Y-4		1.00	200.00	.00	7.32	22.10	7.38	19.30	-.06	< -.09	.00	sD

Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
17	193435-Y-4		1.00	100.00	.00	7.33	22.10	7.30	19.10	.03	< .09	< .10	sDgDgT
18	193435-Y-6		1.00	300.00	.00	7.58	22.10	7.56	19.10	.02	< .02	.00	sD
19	193435-Y-6		1.00	200.00	.00	7.77	22.00	7.79	19.30	-.02	< -.03	.00	sD
20	193435-Y-6		1.00	100.00	.00	7.24	22.20	7.34	19.50	-.10	< -.30	< .10	sDgDgT
21	193435-Y-6MS		5.00	50.00	.00	7.28	22.20	1.53	19.70	5.75	172.50	.00	
22	193435-Y-6MS		5.00	25.00	.00	7.42	22.20	4.40	19.60	3.02	181.20	.00	5.895
23	193435-Y-6MS		5.00	10.00	.00	7.52	22.20	6.25	19.60	1.27	< 190.50	176.85	/30 sD
24	193435-Y-6MSD		5.00	50.00	.00	7.27	22.30	3.55	19.70	3.72	111.60	.00	
1	193435-Y-6MSD		5.00	25.00	.00	7.21	22.90	4.26	19.80	2.95	177.00	.00	4.81
2	193435-Y-6MSD		5.00	10.00	.00	7.36	22.50	6.44	19.40	.92	< 138.00	144.30	/30 sD
3	193436-A-2		1.00	300.00	.00	7.02	22.40	6.24	19.60	.78	< .78	.00	sD
4	193436-A-2		1.00	200.00	.00	7.33	22.40	6.66	19.60	.67	< 1.00	.00	sD
5	193436-A-2		1.00	100.00	.00	7.15	22.30	6.66	19.60	.49	< 1.47	< .78	sDgDgT
6	193436-A-3		1.00	300.00	.00	7.12	22.10	7.04	19.70	.08	< .08	.00	sD
7	193436-A-3		1.00	200.00	.00	7.24	22.20	7.37	19.50	-.13	< -.19	.00	sD
8	193436-A-3		1.00	100.00	.00	7.48	22.30	7.58	19.70	-.10	< -.30	< .10	sDgDgT
9	193436-A-4		1.00	300.00	.00	7.33	22.30	7.16	20.10	.17	< .17	.00	sD
10	193436-A-4		1.00	200.00	.00	7.48	22.20	7.44	20.10	.04	< .06	.00	sD
11	193436-A-4		1.00	100.00	.00	7.28	22.20	7.52	20.30	-.24	< -.72	< .17	sDgDgT
12	193436-A-5		1.00	300.00	.00	7.83	21.90	7.56	20.80	.27	< .27	.00	sD
13	193436-A-5		1.00	200.00	.00	7.56	22.10	7.54	19.70	.02	< .03	.00	sD
14	193436-A-5		1.00	100.00	.00	7.56	22.10	7.48	19.50	.08	< .24	< .27	sDgDgT
15	193436-A-6		1.00	300.00	.00	7.42	21.80	7.38	19.70	.04	< .04	.00	sD
16	193436-A-6		1.00	200.00	.00	7.45	22.00	7.55	19.90	-.10	< -.15	.00	sD
17	193436-A-6		1.00	100.00	.00	7.51	22.20	7.41	20.10	.10	< .30	< .10	sDgDgT
18	193436-A-7		1.00	300.00	.00	7.35	22.00	7.23	20.30	.12	< .12	.00	sD
19	193436-A-7		1.00	200.00	.00	7.31	22.10	7.30	19.50	.01	< .01	.00	sD

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Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
20	193436-A-7		1.00	100.00	.00	7.29	22.30	7.43	19.60	-.14	< -.42	< .12	sDgDgT
21	193436-A-8		1.00	300.00	.00	7.14	22.20	6.66	19.90	.48	< .48	.00	sD
22	193436-A-8		1.00	200.00	.00	7.23	22.20	6.84	19.90	.39	< .59	.00	sD
23	193436-A-8		1.00	100.00	.00	7.38	22.30	7.27	19.90	.11	< .33	< .48	sDgDgT
24	193437-A-1		1.00	100.00	.00	7.20	22.90	.17	20.30	7.03	> 21.09	.00	sF
1	193437-A-1		1.00	50.00	.00	7.02	22.40	.34	19.70	6.68	> 40.08	.00	sF
2	193437-A-1		1.00	25.00	.00	7.89	21.70	1.17	19.40	6.72	80.64	.00	
3	193437-A-1		1.00	10.00	.00	7.15	22.20	2.26	19.30	4.89	146.70	.00	
4	193437-A-1		1.00	5.00	.00	7.15	22.30	1.53	19.40	5.62	337.20	.00	23.99
5	193437-A-1		1.00	3.00	.00	7.38	22.20	1.51	19.40	5.87	587.00	287.88/12	gT
6	193443-A-1		1.00	100.00	.00	7.12	22.00	.23	21.00	6.89	> 20.67	.00	sF
7	193443-A-1		1.00	50.00	.00	7.14	22.40	.15	19.30	6.99	> 41.94	.00	sF
8	193443-A-1		1.00	25.00	.00	7.26	22.30	.12	19.20	7.14	> 85.68	.00	sF
9	193443-A-1		1.00	10.00	.00	7.43	22.30	3.86	19.20	3.57	107.10	.00	
10	193443-A-1		1.00	5.00	.00	7.45	22.20	5.90	19.20	1.55	< 93.00	.00	3.57 sD
11	193443-A-1		1.00	3.00	.00	7.50	22.20	6.80	19.10	.70	< 70.00	107.10/30	sDgT
12	193443-A-2		1.00	100.00	.00	7.97	21.40	.15	20.90	7.82	> 23.46	.00	sF
13	193443-A-2		1.00	50.00	.00	7.11	22.50	.13	19.40	6.98	> 41.88	.00	sF
14	193443-A-2		1.00	25.00	.00	7.24	22.30	.12	19.20	7.12	> 85.44	.00	sF
15	193443-A-2		1.00	10.00	.00	7.41	22.30	2.44	19.10	4.97	149.10	.00	
16	193443-A-2		1.00	5.00	.00	7.44	22.30	4.93	19.20	2.51	150.60	.00	4.995
17	193443-A-2		1.00	3.00	.00	7.46	22.20	6.36	19.10	1.10	< 110.00	149.85/30	sDgT
18	Blank		1.00	.00	.00	7.41	22.30	7.33	19.00	.08	.00	.00	
19	Check		1.00	6.00	.00	7.39	22.30	3.88	19.50	3.51	175.50	.00	
20	Check		1.00	6.00	4.00	7.48	22.20	3.43	19.30	4.05	170.00	.00	
21	Check		1.00	6.00	4.00	7.38	22.20	3.49	19.50	3.89	162.00	176.92	
22	193443-A-3		2.00	100.00	4.00	7.68	21.70	.16	20.20	7.52	> 41.22	.00	sF

Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
23	193443-A-3		2.00	50.00	4.00	7.65	22.20	1.26	19.90	6.39	68.88	.00	
24	193443-A-3		2.00	25.00	4.00	7.09	22.40	.12	19.20	6.97	> 151.68	.00	sF
1	193443-A-3		2.00	10.00	4.00	7.01	22.50	1.82	19.60	5.19	272.40	.00	
2	193443-A-3		2.00	5.00	4.00	7.27	22.30	4.43	19.20	2.84	262.80	.00	16.78
3	193443-A-3		2.00	3.00	4.00	7.12	22.10	5.52	19.10	1.60	< 190.00	201.36/12	sDgT
4	193445-A-1		10.00	100.00	4.00	8.48	19.10	.22	20.30	8.26	> 228.30	.00	sF
5	193445-A-1		10.00	50.00	4.00	7.66	21.70	.13	19.00	7.53	> 412.80	.00	sF
6	193445-A-1		10.00	25.00	4.00	7.36	22.10	.14	19.00	7.22	> 788.40	.00	sF
7	193445-A-1		10.00	10.00	4.00	7.05	22.20	.16	19.30	6.89	> 1,872.00	.00	sF
8	193445-A-1		10.00	5.00	4.00	7.07	22.20	.13	19.30	6.94	> 3,774.00	.00	2083 sF
9	193445-A-1		10.00	3.00	4.00	7.07	22.20	.17	19.30	6.90	> 6,250.00	> 6,250.00/30	sFgFgT
10	193446-A-1		1.00	100.00	4.00	7.38	22.10	.17	19.40	7.21	> 19.68	.00	sF
11	193446-A-1		1.00	50.00	4.00	7.15	22.10	.14	19.30	7.01	> 38.16	.00	sF
12	193446-A-1		1.00	25.00	4.00	7.06	22.10	.13	19.40	6.93	> 75.36	.00	sF
13	193446-A-1		1.00	10.00	4.00	7.08	22.10	.18	19.80	6.90	> 187.50	.00	3.493 sF
14	193446-A-1		1.00	5.00	4.00	7.10	22.00	2.58	19.70	4.52	232.20	.00	
15	193446-A-1		1.00	3.00	4.00	7.11	22.10	4.59	19.60	2.52	187.00	209.60/60	gT
16	193449-C-1		1.00	300.00	4.00	7.63	22.10	.15	19.80	7.48	> 6.83	.00	sF
17	193449-C-1		1.00	200.00	4.00	7.19	22.30	.13	20.00	7.06	> 9.62	.00	sF
18	193449-C-1		1.00	100.00	4.00	7.06	22.20	.14	20.00	6.92	> 18.81	.00	2.88 sF
19	193449-C-1		1.00	50.00	4.00	7.27	22.20	3.74	19.70	3.53	17.28	17.28/6	gT
20	193468-A-1		1.00	300.00	4.00	8.85	22.00	8.00	19.90	.85	< .20	.00	sD
21	193468-A-1		1.00	200.00	4.00	7.88	22.20	7.16	20.30	.72	< .10	.00	sD
22	193468-A-1		1.00	100.00	4.00	7.37	22.10	6.82	20.40	.55	< -.30	< .20	sDgDgT
23	193472-A-1		1.00	300.00	4.00	8.10	22.10	.16	20.40	7.94	> 7.29	.00	sF
24	193472-A-1		1.00	200.00	4.00	7.60	22.20	.09	20.00	7.51	> 10.29	.00	sF
1	193472-A-1		1.00	100.00	4.00	7.51	21.90	.18	19.90	7.33	> 20.04	.00	sF

Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
2	193472-A-1		1.00	50.00	4.00	7.09	22.10	.15	19.70	6.94	> 37.74	> 37.74	sFgFgT
3	193472-A-2		1.00	300.00	4.00	8.30	22.10	8.26	19.80	.04	< -.61	.00	sD
4	193472-A-2		1.00	200.00	4.00	7.70	22.20	7.79	19.80	-.09	< -1.11	.00	sD
5	193472-A-2		1.00	100.00	4.00	7.29	22.10	7.17	19.50	.12	< -1.59	< .00	sDgD
6	193473-A-1		1.00	300.00	4.00	8.09	22.00	7.33	19.60	.76	< .11	.00	sD
7	193473-A-1		1.00	200.00	4.00	7.57	22.20	7.08	19.40	.49	< -.24	.00	sD
8	193473-A-1		1.00	100.00	4.00	7.35	22.20	6.93	19.40	.42	< -.69	< .11	sDgDgT
9	193474-A-1		1.00	300.00	4.00	7.26	21.90	.14	19.40	7.12	> 6.47	.00	sF
10	193474-A-1		1.00	200.00	4.00	8.08	22.00	.11	19.40	7.97	> 10.98	.00	sF
11	193474-A-1		1.00	100.00	4.00	7.59	22.00	.18	19.30	7.41	> 20.28	.00	sF
12	193474-A-1		1.00	50.00	4.00	7.21	22.10	.39	19.30	6.82	> 37.02	.00	sF
13	193474-A-1		1.00	25.00	4.00	7.40	22.00	5.46	19.20	1.94	< 15.48	.00	sDgT
14	193474-A-2		1.00	300.00	4.00	7.14	21.90	4.01	19.10	3.13	2.48	.00	
15	193474-A-2		1.00	200.00	4.00	7.04	22.00	3.78	19.40	3.26	3.92	.00	
16	193474-A-2		1.00	100.00	4.00	7.11	22.00	4.40	19.40	2.71	6.18	4.19	gT
17	193476-A-1		1.00	300.00	4.00	7.14	22.00	6.51	19.40	.63	< -.02	.00	sD
18	193476-A-1		1.00	200.00	4.00	7.17	21.90	6.48	19.20	.69	< .06	.00	sD
19	193476-A-1		1.00	100.00	4.00	7.04	21.90	6.64	19.10	.40	< -.75	.00	sD
20	193476-A-1		1.00	50.00	4.00	7.16	21.90	6.72	19.50	.44	< -1.26	.00	sD
21	193476-A-1		1.00	25.00	4.00	7.21	21.90	6.79	19.50	.42	< -2.76	< .00	sDgDgT
22	193476-A-2		1.00	300.00	4.00	7.95	21.90	5.69	19.60	2.26	1.61	.00	
23	193476-A-2		1.00	200.00	4.00	7.56	22.00	6.44	19.50	1.12	< .70	.00	sD
24	193476-A-2		1.00	100.00	4.00	7.30	22.00	6.24	19.50	1.06	< 1.23	1.61	sDgT
1	193486-B-1		10.00	100.00	4.00	7.24	21.90	6.35	19.70	.89	< 7.20	.00	sD
2	193486-B-1		10.00	50.00	4.00	7.09	22.00	6.42	19.40	.67	< 1.20	.00	sD
3	193486-B-1		10.00	25.00	4.00	7.24	22.00	6.78	19.20	.46	< -22.80	.00	sD
4	193486-B-1		10.00	10.00	4.00	7.27	22.00	6.90	19.20	.37	< -84.00	.00	sD

Bottle #	Sample Name	Sample ID	Predilution Factor	Sample Vol	Seed Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD\ CBOD	BOD\CBOD Average	Flags
5	193486-B-1		10.00	5.00	4.00	7.04	22.00	6.75	19.20	.29	< -216.00	.00	sD
6	193486-B-1		10.00	3.00	4.00	7.21	22.00	6.80	19.30	.41	< -240.00	< 10.00	sDgDgT
7	193490-B-1		1.00	100.00	4.00	7.37	22.10	.18	19.40	7.19	> 19.62	.00	sF
8	193490-B-1		1.00	50.00	4.00	7.43	22.00	.13	19.40	7.30	> 39.90	.00	sF
9	193490-B-1		1.00	25.00	4.00	7.64	21.60	.13	19.40	7.51	> 82.32	.00	sF
10	193490-B-1		1.00	10.00	4.00	7.02	22.00	2.78	19.50	4.24	107.70	.00	
11	193490-B-1		1.00	5.00	4.00	7.13	22.10	3.60	19.40	3.53	172.80	.00	
12	193490-B-1		1.00	3.00	4.00	7.16	22.00	5.27	19.50	1.89	< 124.00	140.25	sDgT
13	193490-B-1 DU		1.00	50.00	4.00	7.31	21.90	.22	19.90	7.09	> 38.64	> 38.64	sFgF

3.33 /30

4.675 /30

6.44 /6

12/30/2021

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Operator: RM

Test America Buffalo
PC-BOD Initial Report

Start Date: 12/16/2021

Start Time: 8:54 AM

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
1	1	Rinse		1.00	.00	.00	.00	7.15	22.30
1	2	Rinse		1.00	.00	.00	.00	7.46	22.10
1	3	Rinse		1.00	.00	.00	.00	7.60	22.10
1	4	Rinse		1.00	.00	.00	.00	7.57	22.10
1	5	Blank		1.00	.00	.00	.00	7.72	22.10
1	6	Seed		1.00	.00	20.00	.00	7.19	21.90
1	7	Seed		1.00	.00	20.00	.00	7.32	22.00
1	8	Seed		1.00	.00	20.00	.00	7.37	22.00
1	9	Check		1.00	6.00	4.00	.00	7.52	22.10
1	10	Check		1.00	6.00	4.00	.00	7.49	22.10
1	11	Check		1.00	6.00	4.00	.00	7.55	22.10
1	12	193376-C-1		5.00	100.00	.00	.00	7.02	21.80
1	13	193376-C-1		5.00	50.00	.00	.00	7.36	22.10
1	14	193376-C-1		5.00	25.00	.00	.00	7.67	22.10
1	15	193376-C-1		5.00	10.00	.00	.00	7.54	22.10
1	16	193376-C-1		5.00	5.00	.00	.00	7.58	22.10
1	17	193376-C-1		5.00	3.00	.00	.00	7.55	22.10
1	18	193398-A-1		1.00	100.00	.00	.00	7.07	22.00
1	19	193398-A-1		1.00	50.00	.00	.00	7.51	22.20
1	20	193398-A-1		1.00	25.00	.00	.00	7.35	22.10
1	21	193398-A-1		1.00	10.00	.00	.00	7.52	22.10

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
1	22	193398-A-1		1.00	5.00	.00	.00	7.58	22.00
1	23	193398-A-1		1.00	3.00	.00	.00	7.55	22.10
1	24	193422-A-11		1.00	100.00	.00	.00	7.51	22.30
2	1	193422-A-11		1.00	50.00	.00	.00	7.32	22.50
2	2	193422-A-11		1.00	25.00	.00	.00	7.53	22.30
2	3	193422-A-11		1.00	10.00	.00	.00	7.48	22.30
2	4	193422-A-11		1.00	5.00	.00	.00	7.65	22.20
2	5	193422-A-11		1.00	3.00	.00	.00	7.54	22.20
2	6	193422-A-12		1.00	300.00	.00	.00	7.63	22.20
2	7	193422-A-12		1.00	200.00	.00	.00	7.80	22.20
2	8	193422-A-12		1.00	100.00	.00	.00	7.22	22.30
2	9	193433-E-1		1.00	300.00	.00	.00	7.45	21.90
2	10	193433-E-1		1.00	200.00	.00	.00	7.47	21.80
2	11	193433-E-1		1.00	100.00	.00	.00	7.73	21.40
2	12	193435-Y-2		1.00	300.00	.00	.00	7.03	21.80
2	13	193435-Y-2		1.00	200.00	.00	.00	7.19	22.00
2	14	193435-Y-2		1.00	100.00	.00	.00	7.40	22.00
2	15	193435-Y-4		1.00	300.00	.00	.00	7.32	21.90
2	16	193435-Y-4		1.00	200.00	.00	.00	7.32	22.10
2	17	193435-Y-4		1.00	100.00	.00	.00	7.33	22.10
2	18	193435-Y-6		1.00	300.00	.00	.00	7.58	22.10
2	19	193435-Y-6		1.00	200.00	.00	.00	7.77	22.00
2	20	193435-Y-6		1.00	100.00	.00	.00	7.24	22.20
2	21	193435-Y-6MS		5.00	50.00	.00	.00	7.28	22.20
2	22	193435-Y-6MS		5.00	25.00	.00	.00	7.42	22.20

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
2	23	193435-Y-6MS		5.00	10.00	.00	.00	7.52	22.20
2	24	193435-Y-6MSD		5.00	50.00	.00	.00	7.27	22.30
3	1	193435-Y-6MSD		5.00	25.00	.00	.00	7.21	22.90
3	2	193435-Y-6MSD		5.00	10.00	.00	.00	7.36	22.50
3	3	193436-A-2		1.00	300.00	.00	.00	7.02	22.40
3	4	193436-A-2		1.00	200.00	.00	.00	7.33	22.40
3	5	193436-A-2		1.00	100.00	.00	.00	7.15	22.30
3	6	193436-A-3		1.00	300.00	.00	.00	7.12	22.10
3	7	193436-A-3		1.00	200.00	.00	.00	7.24	22.20
3	8	193436-A-3		1.00	100.00	.00	.00	7.48	22.30
3	9	193436-A-4		1.00	300.00	.00	.00	7.33	22.30
3	10	193436-A-4		1.00	200.00	.00	.00	7.48	22.20
3	11	193436-A-4		1.00	100.00	.00	.00	7.28	22.20
3	12	193436-A-5		1.00	300.00	.00	.00	7.83	21.90
3	13	193436-A-5		1.00	200.00	.00	.00	7.56	22.10
3	14	193436-A-5		1.00	100.00	.00	.00	7.56	22.10
3	15	193436-A-6		1.00	300.00	.00	.00	7.42	21.80
3	16	193436-A-6		1.00	200.00	.00	.00	7.45	22.00
3	17	193436-A-6		1.00	100.00	.00	.00	7.51	22.20
3	18	193436-A-7		1.00	300.00	.00	.00	7.35	22.00
3	19	193436-A-7		1.00	200.00	.00	.00	7.31	22.10
3	20	193436-A-7		1.00	100.00	.00	.00	7.29	22.30
3	21	193436-A-8		1.00	300.00	.00	.00	7.14	22.20
3	22	193436-A-8		1.00	200.00	.00	.00	7.23	22.20
3	23	193436-A-8		1.00	100.00	.00	.00	7.38	22.30

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
3	24	193437-A-1		1.00	100.00	.00	.00	7.20	22.90
4	1	193437-A-1		1.00	50.00	.00	.00	7.02	22.40
4	2	193437-A-1		1.00	25.00	.00	.00	7.89	21.70
4	3	193437-A-1		1.00	10.00	.00	.00	7.15	22.20
4	4	193437-A-1		1.00	5.00	.00	.00	7.15	22.30
4	5	193437-A-1		1.00	3.00	.00	.00	7.38	22.20
4	6	193443-A-1		1.00	100.00	.00	.00	7.12	22.00
4	7	193443-A-1		1.00	50.00	.00	.00	7.14	22.40
4	8	193443-A-1		1.00	25.00	.00	.00	7.26	22.30
4	9	193443-A-1		1.00	10.00	.00	.00	7.43	22.30
4	10	193443-A-1		1.00	5.00	.00	.00	7.45	22.20
4	11	193443-A-1		1.00	3.00	.00	.00	7.50	22.20
4	12	193443-A-2		1.00	100.00	.00	.00	7.97	21.40
4	13	193443-A-2		1.00	50.00	.00	.00	7.11	22.50
4	14	193443-A-2		1.00	25.00	.00	.00	7.24	22.30
4	15	193443-A-2		1.00	10.00	.00	.00	7.41	22.30
4	16	193443-A-2		1.00	5.00	.00	.00	7.44	22.30
4	17	193443-A-2		1.00	3.00	.00	.00	7.46	22.20
4	18	Blank		1.00	.00	.00	.00	7.41	22.30
4	19	Check		1.00	6.00	.00	.00	7.39	22.30
4	20	Check		1.00	6.00	4.00	.00	7.48	22.20
4	21	Check		1.00	6.00	4.00	.00	7.38	22.20
4	22	193443-A-3		2.00	100.00	4.00	.00	7.68	21.70
4	23	193443-A-3		2.00	50.00	4.00	.00	7.65	22.20
4	24	193443-A-3		2.00	25.00	4.00	.00	7.09	22.40

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
5	1	193443-A-3		2.00	10.00	4.00	.00	7.01	22.50
5	2	193443-A-3		2.00	5.00	4.00	.00	7.27	22.30
5	3	193443-A-3		2.00	3.00	4.00	.00	7.12	22.10
5	4	193445-A-1		10.00	100.00	4.00	.00	8.48	19.10
5	5	193445-A-1		10.00	50.00	4.00	.00	7.66	21.70
5	6	193445-A-1		10.00	25.00	4.00	.00	7.36	22.10
5	7	193445-A-1		10.00	10.00	4.00	.00	7.05	22.20
5	8	193445-A-1		10.00	5.00	4.00	.00	7.07	22.20
5	9	193445-A-1		10.00	3.00	4.00	.00	7.07	22.20
5	10	193446-A-1		1.00	100.00	4.00	.00	7.38	22.10
5	11	193446-A-1		1.00	50.00	4.00	.00	7.15	22.10
5	12	193446-A-1		1.00	25.00	4.00	.00	7.06	22.10
5	13	193446-A-1		1.00	10.00	4.00	.00	7.08	22.10
5	14	193446-A-1		1.00	5.00	4.00	.00	7.10	22.00
5	15	193446-A-1		1.00	3.00	4.00	.00	7.11	22.10
5	16	193449-C-1		1.00	300.00	4.00	.00	7.63	22.10
5	17	193449-C-1		1.00	200.00	4.00	.00	7.19	22.30
5	18	193449-C-1		1.00	100.00	4.00	.00	7.06	22.20
5	19	193449-C-1		1.00	50.00	4.00	.00	7.27	22.20
5	20	193468-A-1		1.00	300.00	4.00	.00	8.85	22.00
5	21	193468-A-1		1.00	200.00	4.00	.00	7.88	22.20
5	22	193468-A-1		1.00	100.00	4.00	.00	7.37	22.10
5	23	193472-A-1		1.00	300.00	4.00	.00	8.10	22.10
5	24	193472-A-1		1.00	200.00	4.00	.00	7.60	22.20
6	1	193472-A-1		1.00	100.00	4.00	.00	7.51	21.90

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
6	2	193472-A-1		1.00	50.00	4.00	.00	7.09	22.10
6	3	193472-A-2		1.00	300.00	4.00	.00	8.30	22.10
6	4	193472-A-2		1.00	200.00	4.00	.00	7.70	22.20
6	5	193472-A-2		1.00	100.00	4.00	.00	7.29	22.10
6	6	193473-A-1		1.00	300.00	4.00	.00	8.09	22.00
6	7	193473-A-1		1.00	200.00	4.00	.00	7.57	22.20
6	8	193473-A-1		1.00	100.00	4.00	.00	7.35	22.20
6	9	193474-A-1		1.00	300.00	4.00	.00	7.26	21.90
6	10	193474-A-1		1.00	200.00	4.00	.00	8.08	22.00
6	11	193474-A-1		1.00	100.00	4.00	.00	7.59	22.00
6	12	193474-A-1		1.00	50.00	4.00	.00	7.21	22.10
6	13	193474-A-1		1.00	25.00	4.00	.00	7.40	22.00
6	14	193474-A-2		1.00	300.00	4.00	.00	7.14	21.90
6	15	193474-A-2		1.00	200.00	4.00	.00	7.04	22.00
6	16	193474-A-2		1.00	100.00	4.00	.00	7.11	22.00
6	17	193476-A-1		1.00	300.00	4.00	.00	7.14	22.00
6	18	193476-A-1		1.00	200.00	4.00	.00	7.17	21.90
6	19	193476-A-1		1.00	100.00	4.00	.00	7.04	21.90
6	20	193476-A-1		1.00	50.00	4.00	.00	7.16	21.90
6	21	193476-A-1		1.00	25.00	4.00	.00	7.21	21.90
6	22	193476-A-2		1.00	300.00	4.00	.00	7.95	21.90
6	23	193476-A-2		1.00	200.00	4.00	.00	7.56	22.00
6	24	193476-A-2		1.00	100.00	4.00	.00	7.30	22.00
7	1	193486-B-1		10.00	100.00	4.00	.00	7.24	21.90
7	2	193486-B-1		10.00	50.00	4.00	.00	7.09	22.00

Order Number:

Rack #	Bottle #	Sample Name	Sample ID	Predilution	Sample Volume	Seed Volume	Inhibitor Volume	Initial DO	Initial Temp
7	3	193486-B-1		10.00	25.00	4.00	.00	7.24	22.00
7	4	193486-B-1		10.00	10.00	4.00	.00	7.27	22.00
7	5	193486-B-1		10.00	5.00	4.00	.00	7.04	22.00
7	6	193486-B-1		10.00	3.00	4.00	.00	7.21	22.00
7	7	193490-B-1		1.00	100.00	4.00	.00	7.37	22.10
7	8	193490-B-1		1.00	50.00	4.00	.00	7.43	22.00
7	9	193490-B-1		1.00	25.00	4.00	.00	7.64	21.60
7	10	193490-B-1		1.00	10.00	4.00	.00	7.02	22.00
7	11	193490-B-1		1.00	5.00	4.00	.00	7.13	22.10
7	12	193490-B-1		1.00	3.00	4.00	.00	7.16	22.00
7	13	193490-B-1 DU		1.00	50.00	4.00	.00	7.31	21.90

BOD BENCH SHEET

BATCH # 609214

ANALYST: RM
DATE: 12/16/21

SAMPLE ID	SAMPLE TEMP	SAMPLE pH	DILUTION FACTOR	SAMPLE RANGE	BOTTLE NUMBERS	CHLORINE
193376 C1	19.9	7.04	5x	100-3	12-17	NA
193398 A1	19.6	7.17	1x	100-3	18-23	
193422 A11	21.4	12.13/7.20	1x	100-3	24-29	
A12	21.7	7.39	1x	300-100	30-32	
193433 E1	21.3	6.51	1x	300-100	33-35	
193435 Y2	21.7	7.09	1x	300-100	36-38	
Y4	21.6	7.89	1x	300-100	39-41	
Y6	22.3	6.71	1x	300-100	42-44	
Y6 MS	22.3	6.71	5x	~~300-100~~ 50-10	45-47	
Y6 MSD	22.3	6.71	5x	~~300-100~~ 50-10	48-50	
193436 A2	21.6	6.71	1x	300-100	51-53	
A3	22.1	6.69	1x	300-100	54-56	
A4	22.0	6.87	1x	300-100	57-59	
A5	22.3	7.53	1x	300-100	60-62	
A6	22.3	6.76	1x	300-100	63-65	
A7	22.4	6.88	1x	300-100	66-68	
A8	21.1	6.44	1x	300-100	69-71	
193437 A1	21.6	6.50	1x	100-3	72-77	
193443 A1	21.9	7.38	1x	100-3	78-83	
A2	22.1	7.12	1x	100-3	84-89	

BOD BENCH SHEET

BATCH # 509214

ANALYST: RM
DATE: 12/16/21

SAMPLE ID	SAMPLE TEMP	SAMPLE pH	DILUTION FACTOR	SAMPLE RANGE	BOTTLE NUMBERS	CHLORINE
A3	21.3	7.07	2x	100-3	94-99	
143445 A1	22.8	6.86	10x	100-3	100-105	
143446 A1	22.6	7.31	1x	200-3	106-111	
143449 C1	22.1	7.93	1x	300-50	112-115	
143468 A1	22.3	7.73	1x	300-100	116-118	
143472 A1	21.9	7.18	1x	300-50	119-122	
A2	22.7	7.20	1x	300-100	123-125	
143473 A1	22.7	7.17	1x	300-200	126-128	
143474 A1	22.6	7.02	1x	300-25	129-133	
A2	22.6	7.36	1x	300-100	134-136	
143476 A1	22.1	7.33	1x	300-25	137-141	
A2	22.8	7.16	1x	300-10	142-144	
143486 B1	22.7	7.41	10x	100-3	145-150	
143490 B1	21.9	7.68	1x	100-3	151-156	
B1 Bv	21.9	7.68	1x	50	157	

Attachment 10.5
BOD pH Meter Calibration Sheet

BOD pH METER CALIBRATION

pH BUFFER	pH	TEMPERATURE	BUFFER ID
1.68	1.68	23.1	5774495
4.01	3.95	23.2	5930447
7.0	7.00	23.2	5930545
10.0	10.03	23.1	5930446
13.0	12.53	23.2	5814905

Analyst: RM

Date: 12/16/21

pH Meter ID: #1

pH Curve Slope: 98.4%

TOC Wheel Worksheet

BATCH # 609654/609664
Instrument # F
SRF # 57549

Method 5310
File Name 20211220F

	Sample ID	Dil	pH	Comment
1	Rinse			
2	CCV			
3	CCB			
4	MB			
5	LCS			
6	193597-G-1	80X		500mg 40mL
7	G-1 TIC	80X		V V
8	193382-P-1	20X		2mg 40mL
9	P-1 MS	20X		| V
10	P-1 MSD	20X		| V
11	193411-N-1			
12	N-2			
13	N-3			
14	CCV			
15	CCB			
16	193383-G-1			
17	G-2	4X		10mg 40mL
18	G-3			
19	193436-P-2			
20	P-3			
21	P-4			
22	P-5			
23	P-6			
24	P-7			
25	P-8			
26	CCV			
27	CCB			
28	MB			
29	LCS			
30	193467-N-1			
31	N-1 MS			> SPiT
32	N-1 MSD			
33	N-2			
34	N-3			
35	N-4			
36	N-5			
37	N-6			
38	CCV			
39	CCB			
40	193467-N-7			
41	193479-G-1			
42	620-2252-A-1			
43	680-130877-F-1			
44	F-2			
45	F-3			
46	F-4			

	Sample ID	Dil	pH	Comment
47	180130877-L-5			
48	193289-Q-1			
49	Q-2			
50	CCV			
51	CCB			
52	MB			
53	LCS			
54	193330-L-1			
55	M-1MS			
56	M-1MSD			>5 PPT
57	L-2			
58	L-3			
59	L-4			
60	L-5			
61	L-6			
62	CCV			
63	CCB			
64	193351-E-1			
65	E-2			
66	E-3			
67	193353-H-2			
68	-H-3			
69	193512-P-1			
70	-P-2			
71	P-3			
72	P-4			
73	193526-D-6			
74	CCV			
75	CCB			
76	MB			
77	LCS			
78	193526-D-5			
79	D-5 MS			
80	D-5 MSD			
81				
82				
83				
84				
85				
86	CCV			
87	CCB			

Date 12/29/21

Analyst KV

TIC 6503246

MS 6783095

CCV 6817397

LCS 6817398

All pH <2 KV

pipette (1000 uL) M430726

acid 6775594

sodium persulfate 6783105

phosphoric acid 6792764

BF-WC-TOCWW-016 Rev.1 8/7/2019

User ID:toc Name:Total Organic Carbon
Title:Mr Dept:OIC-TOC

Calibration - Quick View -TOC

Revision: 1-20211030F - Oct 30, 2021; 12-32-16 PM
Modified By: toc
Date Created: 2021/10/30; 01:34 PM
Last Modified: 2021/10/30; 04:10 PM
Last Calibrated: 2021/10/30; 04:10 PM

RF(ugC/k-cnt): 0.3329
R2: 0.9998
Reagent Blank(cts): 3,521
Offset Area(cts): 3,521
Offset Mass(ugC): -1.17

0.585 ppm / 0.483 MDL

Std #	Conc (PPM)	Volume (mL)	# Reps	Area	Std. Dev	%RSD	Date Analysed
RW	0.000	2.000	2	3,504	18	0.50	2021-10-30; 02:37PM
1	1.000	2.000	2	10,696	185	1.73	2021-10-30; 02:53PM
2	5.000	2.000	2	32,521	288	0.89	2021-10-30; 03:08PM
3	10.000	2.000	2	63,524	64	0.10	2021-10-30; 03:23PM
4	50.000	2.000	2	304,082	1,518	0.50	2021-10-30; 03:38PM
5	100.000	2.000	2	604,537	644	0.11	2021-10-30; 03:54PM

ICV > in batch 603075

ICB

stds 6682663

$(NaSO_4)_2$ 6699181

H_3PO_4 6683173

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
2	Rinse	12/20/2021 12:57:08PM	1	2715	0.000	0.000
		12/20/2021 1:02:53PM	2	1994	0.000	0.000
			Avg	2354	0.000	0.000
			Std. Dev	510		
			%RSD	21.66		
3	CCV	12/20/2021 1:11:54PM	1	365359	120.452	60.226
		12/20/2021 1:18:13PM	2	352760	116.258	58.129
			Avg	359060	118.360	59.178
			Std. Dev	8909		
			%RSD	2.48		
4	CCB	12/20/2021 1:26:48PM	1	2695	0.000	0.000
		12/20/2021 1:34:15PM	2	3057	0.000	0.000
			Avg	2876	0.000	0.000
			Std. Dev	256		
			%RSD	8.89		
5	MB	12/20/2021 1:42:17PM	1	2243	0.000	0.000
		12/20/2021 1:48:29PM	2	1994	0.000	0.000
			Avg	2118	0.000	0.000
			Std. Dev	176		
			%RSD	8.31		
6	LCS	12/20/2021 1:57:26PM	1	368150	121.382	60.691
		12/20/2021 2:03:40PM	2	362315	119.439	59.720
			Avg	365233	120.410	60.206
			Std. Dev	4126		
			%RSD	1.13		
7	480-193597-G-1^80	12/20/2021 2:13:27PM	1	27496	7.981	3.991
		12/20/2021 2:20:03PM	2	27694	8.047	4.024
			Avg	27595	8.010	4.008
			Std. Dev	140		
			%RSD	0.51		
8	480-193597-G-1 INF ^80	12/20/2021 2:28:56PM	1	23695	6.716	3.358
		12/20/2021 2:35:36PM	2	22605	6.353	3.177
			Avg	23150	6.530	3.268
			Std. Dev	771		
			%RSD	3.33		
9	480-193382-P-1 ^20	12/20/2021 2:45:20PM	1	439067	144.989	72.495
		12/20/2021 2:51:40PM	2	427003	140.973	70.487
			Avg	433035	142.980	71.491
			Std. Dev	8531		
			%RSD	1.97		
10	480-193382-Q-1 ms^20	12/20/2021 3:01:16PM	1	473061	156.305	78.153
		12/20/2021 3:07:28PM	2	464088	153.318	76.659

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	468575	154.810	77.406
			Std. Dev	6345		
			%RSD	1.35		
11	480-193382-Q-1 msd^20	12/20/2021 3:17:19PM	1	563241	186.325	93.163
		12/20/2021 3:23:29PM	2	545204	180.321	90.161
			Avg	554222	183.320	91.662
			Std. Dev	12754		
			%RSD	2.30		
12	480-193411-N-1	12/20/2021 3:32:08PM	1	31079	9.174	4.587
		12/20/2021 3:39:07PM	2	30232	8.892	4.446
			Avg	30655	9.030	4.516
			Std. Dev	599		
			%RSD	1.95		
13	480-193411-N-2	12/20/2021 3:48:01PM	1	36926	11.120	5.560
		12/20/2021 3:54:19PM	2	33382	9.941	4.970
			Avg	35154	10.530	5.265
			Std. Dev	2506		
			%RSD	7.13		
14	480-193411-N-3	12/20/2021 4:04:34PM	1	4097	0.192	0.096
		12/20/2021 4:09:55PM	2	3084	0.000	0.000
			Avg	3591	0.100	0.048
			Std. Dev	717		
			%RSD	19.97		
15	CCV	12/20/2021 4:19:38PM	1	358789	118.265	59.133
		12/20/2021 4:25:48PM	2	355738	117.250	58.625
			Avg	357263	117.760	58.879
			Std. Dev	2158		
			%RSD	0.60		
16	CCB	12/20/2021 4:34:40PM	1	2804	0.000	0.000
		12/20/2021 4:41:04PM	2	3100	0.000	0.000
			Avg	2952	0.000	0.000
			Std. Dev	209		
			%RSD	7.07		
17	480-193383-G-1	12/20/2021 4:50:19PM	1	19894	5.451	2.725
		12/20/2021 4:57:00PM	2	19282	5.247	2.623
			Avg	19588	5.350	2.674
			Std. Dev	433		
			%RSD	2.21		
18	480-193383-G-2^4	12/20/2021 5:05:45PM	1	203132	66.448	33.224
		12/20/2021 5:13:16PM	2	212664	69.622	34.811
			Avg	207898	68.040	34.018
			Std. Dev	6740		
			%RSD	3.24		

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
19	480-193383-G-3	12/20/2021 5:20:32PM	1	322823	106.293	53.146
		12/20/2021 5:26:56PM	2	312872	102.980	51.490
			Avg	317847	104.640	52.318
			Std. Dev	7037		
			%RSD	2.21		
20	480-193436-P-2	12/20/2021 5:35:54PM	1	30010	8.818	4.409
		12/20/2021 5:42:53PM	2	28834	8.426	4.213
			Avg	29422	8.620	4.311
			Std. Dev	832		
			%RSD	2.83		
21	480-193436-P-3	12/20/2021 5:51:03PM	1	8327	1.600	0.800
		12/20/2021 5:58:09PM	2	7493	1.322	0.661
			Avg	7910	1.460	0.730
			Std. Dev	590		
			%RSD	7.45		
22	480-193436-P-4	12/20/2021 6:06:01PM	1	16701	4.388	2.194
		12/20/2021 6:12:20PM	2	15073	3.845	1.923
			Avg	15887	4.120	2.058
			Std. Dev	1152		
			%RSD	7.25		
23	480-193436-P-5	12/20/2021 6:21:25PM	1	6593	1.023	0.511
		12/20/2021 6:27:45PM	2	5833	0.770	0.385
			Avg	6213	0.900	0.448
			Std. Dev	538		
			%RSD	8.65		
24	480-193436-P-6	12/20/2021 6:36:41PM	1	29533	8.659	4.330
		12/20/2021 6:42:56PM	2	28530	8.325	4.163
			Avg	29031	8.490	4.246
			Std. Dev	709		
			%RSD	2.44		
25	480-193436-P-7	12/20/2021 6:52:08PM	1	8177	1.550	0.775
		12/20/2021 6:58:17PM	2	7003	1.159	0.580
			Avg	7590	1.350	0.678
			Std. Dev	830		
			%RSD	10.94		
26	480-193436-P-8	12/20/2021 7:07:05PM	1	42395	12.941	6.470
		12/20/2021 7:13:22PM	2	41097	12.509	6.254
			Avg	41746	12.720	6.362
			Std. Dev	917		
			%RSD	2.20		
27	CCV	12/20/2021 7:22:24PM	1	350903	115.640	57.820
		12/20/2021 7:28:44PM	2	354184	116.732	58.366

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	352544	116.190	58.093
			Std. Dev	2320		
			%RSD	0.66		
28	CCB	12/20/2021 7:37:46PM	1	2681	0.000	0.000
		12/20/2021 7:44:10PM	2	2934	0.000	0.000
			Avg	2807	0.000	0.000
			Std. Dev	179		
			%RSD	6.38		
29	MB	12/20/2021 7:53:30PM	1	2531	0.000	0.000
		12/20/2021 7:59:05PM	2	2062	0.000	0.000
			Avg	2297	0.000	0.000
			Std. Dev	332		
			%RSD	14.44		
30	LCS	12/20/2021 8:08:48PM	1	365290	120.429	60.215
		12/20/2021 8:15:06PM	2	360250	118.752	59.376
			Avg	362770	119.590	59.796
			Std. Dev	3563		
			%RSD	0.98		
31	480-193467-N-1	12/20/2021 8:24:37PM	1	3131	0.000	0.000
		12/20/2021 8:30:36PM	2	2928	0.000	0.000
			Avg	3030	0.000	0.000
			Std. Dev	144		
			%RSD	4.75		
32	480-193467-O-1 ms	12/20/2021 8:40:00PM	1	158736	51.670	25.835
		12/20/2021 8:46:13PM	2	158485	51.586	25.793
			Avg	158610	51.630	25.814
			Std. Dev	177		
			%RSD	0.11		
33	480-193467-O-1 msd	12/20/2021 8:55:20PM	1	160038	52.103	26.052
		12/20/2021 9:01:34PM	2	159870	52.047	26.024
			Avg	159954	52.080	26.038
			Std. Dev	119		
			%RSD	0.07		
34	480-193467-O-2	12/20/2021 9:10:39PM	1	48781	15.067	7.533
		12/20/2021 9:17:07PM	2	48837	15.085	7.543
			Avg	48809	15.080	7.538
			Std. Dev	39		
			%RSD	0.08		
35	480-193467-N-3	12/20/2021 9:25:49PM	1	14160	3.542	1.771
		12/20/2021 9:32:11PM	2	12709	3.059	1.529
			Avg	13435	3.300	1.650
			Std. Dev	1026		
			%RSD	7.64		

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
36	480-193467-N-4	12/20/2021 9:40:57PM	1	7574	1.349	0.675
		12/20/2021 9:47:14PM	2	6118	0.864	0.432
			Avg	6846	1.110	0.554
			Std. Dev	1030		
			%RSD	15.04		
37	480-193467-N-5	12/20/2021 9:56:10PM	1	7338	1.271	0.635
		12/20/2021 10:02:36PM	2	6022	0.833	0.416
			Avg	6680	1.050	0.525
			Std. Dev	930		
			%RSD	13.93		
38	480-193467-N-6	12/20/2021 10:11:25PM	1	10401	2.290	1.145
		12/20/2021 10:17:55PM	2	8744	1.739	0.869
			Avg	9572	2.010	1.007
			Std. Dev	1172		
			%RSD	12.24		
39	CCV	12/20/2021 10:27:12PM	1	356036	117.349	58.674
		12/20/2021 10:33:31PM	2	355252	117.088	58.543
			Avg	355644	117.220	58.609
			Std. Dev	554		
			%RSD	0.16		
40	CCB	12/20/2021 10:42:47PM	1	3059	0.000	0.000
		12/20/2021 10:48:20PM	2	2446	0.000	0.000
			Avg	2752	0.000	0.000
			Std. Dev	434		
			%RSD	15.76		
41	480-193467-N-7	12/20/2021 10:57:24PM	1	12041	2.836	1.418
		12/20/2021 11:03:38PM	2	10223	2.231	1.115
			Avg	11132	2.530	1.267
			Std. Dev	1286		
			%RSD	11.55		
42	480-193470-G-1	12/20/2021 11:13:20PM	1	410541	135.493	67.747
		12/20/2021 11:20:38PM	2	404914	133.620	66.810
			Avg	407727	134.560	67.279
			Std. Dev	3979		
			%RSD	0.98		
43	620-2252-A-1	12/20/2021 11:28:30PM	1	49667	15.362	7.681
		12/20/2021 11:35:16PM	2	49091	15.170	7.585
			Avg	49379	15.270	7.633
			Std. Dev	407		
			%RSD	0.82		
44	180-130877-I-1	12/20/2021 11:43:21PM	1	10658	2.376	1.188
		12/20/2021 11:49:37PM	2	8417	1.630	0.815

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	9537	2.000	1.002
			Std. Dev	1584		
			%RSD	16.61		
45	180-130877-I-2	12/20/2021 11:58:30PI	1	10481	2.317	1.159
		12/21/2021 12:05:00AI	2	9505	1.992	0.996
			Avg	9993	2.150	1.078
			Std. Dev	690		
			%RSD	6.91		
46	180-130877-I-3	12/21/2021 12:13:46AI	1	6008	0.828	0.414
		12/21/2021 12:20:17AI	2	5491	0.656	0.328
			Avg	5750	0.740	0.371
			Std. Dev	365		
			%RSD	6.36		
47	180-130877-I-4	12/21/2021 12:28:47AI	1	8217	1.563	0.782
		12/21/2021 12:35:14AI	2	7322	1.265	0.633
			Avg	7769	1.410	0.708
			Std. Dev	633		
			%RSD	8.15		
48	180-130877-I-5	12/21/2021 12:44:07AI	1	7963	1.479	0.739
		12/21/2021 12:50:29AI	2	6913	1.129	0.565
			Avg	7438	1.300	0.652
			Std. Dev	743		
			%RSD	9.99		
49	480-193289-Q-1	12/21/2021 12:59:42AI	1	49647	15.355	7.678
		12/21/2021 1:06:09AM	2	47980	14.800	7.400
			Avg	48813	15.080	7.539
			Std. Dev	1179		
			%RSD	2.42		
50	480-193289-Q-2	12/21/2021 1:15:00AM	1	38179	11.537	5.769
		12/21/2021 1:21:20AM	2	37815	11.416	5.708
			Avg	37997	11.480	5.739
			Std. Dev	257		
			%RSD	0.68		
51	CCV	12/21/2021 1:30:22AM	1	356348	117.453	58.726
		12/21/2021 1:36:39AM	2	357381	117.796	58.898
			Avg	356864	117.620	58.812
			Std. Dev	730		
			%RSD	0.20		
52	CCB	12/21/2021 1:46:52AM	1	3595	0.025	0.012
		12/21/2021 1:51:47AM	2	2755	0.000	0.000
			Avg	3175	0.010	0.006
			Std. Dev	594		
			%RSD	18.71		

OI Corporation TOC Reporter 12-21-2021 10:50 AM

Instrument ID: F923730891 Wet-Chemistry

User ID:toc Name: Total Organic Carbon

Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
53	MB	12/21/2021 2:01:52AM	1	2002	0.000	0.000
		12/21/2021 2:08:13AM	2	2216	0.000	0.000
			Avg	2109	0.000	0.000
			Std. Dev	151		
			%RSD	7.15		
54	LCS	12/21/2021 2:16:58AM	1	368215	121.403	60.702
		12/21/2021 2:23:18AM	2	355501	117.171	58.585
			Avg	361858	119.290	59.644
			Std. Dev	8990		
			%RSD	2.48		
55	480-193330-L-1	12/21/2021 2:32:28AM	1	22636	6.363	3.182
		12/21/2021 2:38:55AM	2	21766	6.073	3.037
			Avg	22201	6.220	3.109
			Std. Dev	616		
			%RSD	2.77		
56	480-193330-M-1 ms	12/21/2021 2:47:28AM	1	177380	57.876	28.938
		12/21/2021 2:53:42AM	2	177636	57.961	28.981
			Avg	177508	57.920	28.959
			Std. Dev	181		
			%RSD	0.10		
57	480-193330-M-1 msd	12/21/2021 3:02:48AM	1	176611	57.620	28.810
		12/21/2021 3:08:59AM	2	178260	58.169	29.084
			Avg	177435	57.890	28.947
			Std. Dev	1166		
			%RSD	0.66		
58	480-193330-L-2	12/21/2021 3:18:04AM	1	21219	5.891	2.946
		12/21/2021 3:24:32AM	2	20570	5.675	2.838
			Avg	20894	5.780	2.892
			Std. Dev	459		
			%RSD	2.20		
59	480-193330-L-3	12/21/2021 3:33:13AM	1	8316	1.596	0.798
		12/21/2021 3:39:43AM	2	7564	1.346	0.673
			Avg	7940	1.470	0.735
			Std. Dev	532		
			%RSD	6.70		
60	480-193330-L-4	12/21/2021 3:48:45AM	1	27358	7.935	3.968
		12/21/2021 3:55:09AM	2	26948	7.799	3.899
			Avg	27153	7.870	3.934
			Std. Dev	290		
			%RSD	1.07		
61	480-193330-L-5	12/21/2021 4:04:08AM	1	36217	10.884	5.442
		12/21/2021 4:10:30AM	2	36474	10.970	5.485

User ID:toc Name: Total Organic Carbon
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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	36346	10.930	5.464
			Std. Dev	182		
			%RSD	0.50		
62	480-193330-L-6	12/21/2021 4:19:24AM	1	31942	9.461	4.731
		12/21/2021 4:25:40AM	2	31110	9.184	4.592
			Avg	31526	9.320	4.661
			Std. Dev	588		
			%RSD	1.87		
63	CCV	12/21/2021 4:34:50AM	1	362423	119.475	59.738
		12/21/2021 4:41:07AM	2	355772	117.261	58.631
			Avg	359097	118.370	59.184
			Std. Dev	4703		
			%RSD	1.31		
64	CCB	12/21/2021 4:51:08AM	1	2905	0.000	0.000
		12/21/2021 4:56:15AM	2	2368	0.000	0.000
			Avg	2636	0.000	0.000 LS
			Std. Dev	380		
			%RSD	14.41		
65	480-193351-E-1	12/21/2021 5:06:15AM	1	11684	2.717	1.359
		12/21/2021 5:12:56AM	2	10865	2.445	1.222
			Avg	11274	2.580	1.291
			Std. Dev	579		
			%RSD	5.14		
66	480-193351-E-2	12/21/2021 5:21:28AM	1	16448	4.303	2.152
		12/21/2021 5:27:43AM	2	15182	3.882	1.941
			Avg	15815	4.090	2.047
			Std. Dev	895		
			%RSD	5.66		
67	480-193351-E-3	12/21/2021 5:36:52AM	1	16979	4.480	2.239
		12/21/2021 5:43:11AM	2	15557	4.007	2.003
			Avg	16268	4.240	2.121
			Std. Dev	1006		
			%RSD	6.18		
68	480-193353-H-2	12/21/2021 5:52:08AM	1	23803	6.752	3.376
		12/21/2021 5:58:23AM	2	22305	6.253	3.127
			Avg	23054	6.500	3.251
			Std. Dev	1059		
			%RSD	4.60		
69	480-193353-H-3	12/21/2021 6:07:30AM	1	11430	2.633	1.317
		12/21/2021 6:14:09AM	2	10572	2.347	1.174
			Avg	11001	2.490	1.245
			Std. Dev	607		
			%RSD	5.52		

User ID:toc Name: Total Organic Carbon
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Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
70	480-193512-P-1	12/21/2021 6:22:34AM	1	3761	0.080	0.039
		12/21/2021 6:29:21AM	2	3439	0.000	0.000
			Avg	3600	0.040	0.020
			Std. Dev	228		
			%RSD	6.32		
71	480-193512-P-2	12/21/2021 6:37:57AM	1	4060	0.179	0.090
		12/21/2021 6:44:26AM	2	3400	0.000	0.000
			Avg	3730	0.090	0.045
			Std. Dev	467		
			%RSD	12.52		
72	480-193512-P-3	12/21/2021 6:53:23AM	1	4510	0.329	0.165
		12/21/2021 6:59:47AM	2	3466	0.000	0.000
			Avg	3988	0.160	0.083
			Std. Dev	738		
			%RSD	18.51		
73	480-193512-P-4	12/21/2021 7:08:50AM	1	17161	4.541	2.270
		12/21/2021 7:15:24AM	2	17181	4.547	2.274
			Avg	17171	4.540	2.272
			Std. Dev	14		
			%RSD	0.08		
74	480-193526-D-6	12/21/2021 7:24:15AM	1	12761	3.076	1.538
		12/21/2021 7:30:43AM	2	12488	2.985	1.493
			Avg	12624	3.030	1.516
			Std. Dev	193		
			%RSD	1.53		
75	CCV	12/21/2021 7:39:45AM	1	359767	118.591	59.296
		12/21/2021 7:45:55AM	2	359391	118.466	59.233
			Avg	359579	118.530	59.264
			Std. Dev	266		
			%RSD	0.07		
76	CCB	12/21/2021 7:55:24AM	1	2911	0.000	0.000
		12/21/2021 8:01:15AM	2	2527	0.000	0.000
			Avg	2719	0.000	0.000
			Std. Dev	271		
			%RSD	9.97		
77	MB	12/21/2021 8:11:05AM	1	1947	0.000	0.000
		12/21/2021 8:17:49AM	2	2149	0.000	0.000
			Avg	2048	0.000	0.000
			Std. Dev	143		
			%RSD	6.97		
78	LCS	12/21/2021 8:26:26AM	1	369437	121.810	60.904
		12/21/2021 8:32:43AM	2	370201	122.064	61.032

User ID:toc Name: Total Organic Carbon
Title:Mr Dept: OIC-TOC

Results - Workspace View - TOC

SP#	Sample ID	Date/Time Analysed	Rep #	Area (Counts)	Mass (ugC)	Conc (PPM)
			Avg	369819	121.940	60.968
			Std. Dev	540		
			%RSD	0.15		
79	480-193526-D-5	12/21/2021 8:41:47AM	1	14496	3.654	1.827
		12/21/2021 8:48:47AM	2	14131	3.532	1.766
			Avg	14313	3.590	1.797
			Std. Dev	259		
			%RSD	1.81		
80	480-193526-D-5 MS	12/21/2021 8:57:01AM	1	167923	54.728	27.363
		12/21/2021 9:03:11AM	2	169132	55.130	27.565
			Avg	168528	54.930	27.464
			Std. Dev	854		
			%RSD	0.51		
81	480-193526-D-5 MSD	12/21/2021 9:12:11AM	1	171554	55.936	27.968
		12/21/2021 9:18:23AM	2	175088	57.113	28.557
			Avg	173321	56.520	28.263
			Std. Dev	2499		
			%RSD	1.44		
82	CCV	12/21/2021 9:27:38AM	1	361367	119.124	59.562
		12/21/2021 9:33:56AM	2	360918	118.974	59.487
			Avg	361143	119.050	59.524
			Std. Dev	318		
			%RSD	0.09		
83	CCB	12/21/2021 9:43:30AM	1	3217	0.000	0.000
		12/21/2021 9:48:58AM	2	2608	0.000	0.000
			Avg	2913	0.000	0.000
			Std. Dev	430		
			%RSD	14.77		
84	CCVL	12/21/2021 10:03:49AM	1	9229	1.900	0.950
		12/21/2021 10:09:45AM	2	8761	1.744	0.872
			Avg	8995	1.820	0.911
			Std. Dev	331		
			%RSD	3.68		

Historical Data Summary Report

For Batch 609655

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193289-Q-1	S01U	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	7.5	☐	5.63 - 10.62	☐	5.84 - 11.64
480-193289-Q-2	T04D	SM5310D	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.7	☐	4.695 - 8.905	☐	4.72 - 9.96
480-193330-L-1	MW401	5310C	Total Organic Carbon	Total/NA	mg/L	4	1.0	3.1	☐	1.641 - 6.259	☐	2.4 - 6.12
480-193330-L-2	MW402	5310C	Total Organic Carbon	Total/NA	mg/L	4	1.0	2.9	☐	2.179 - 4.321	☐	2.16 - 4.44
480-193330-L-3	MW403	5310C	Total Organic Carbon	Total/NA	mg/L	4	1.0	ND	☐	0 - 2.104	☐	0 - 1.32
480-193330-L-4	MW412	5310C	Total Organic Carbon	Total/NA	mg/L	4	1.0	3.9	☐	2.755 - 5.795	☐	2.88 - 5.88
480-193330-L-5	MW413-21	5310C	Total Organic Carbon	Total/NA	mg/L	1	1.0	5.5	☑	6.4 - 6.4	☐	5.12 - 7.68
480-193330-L-6	MW414-21	5310C	Total Organic Carbon	Total/NA	mg/L	1	1.0	4.7	☑	5.9 - 5.9	☑	4.72 - 7.08
480-193382-P-1 ^20	INFLUENT	5310C	Total Organic Carbon	Total/NA	mg/L	8	20.0	1430	☑	184.413 - 1278.087	☑	344 - 1180.8
480-193383-G-1	LDZ 1&2	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	2.7	☑	3.306 - 7.419	☑	3.52 - 7.68
480-193383-G-2 ^4	LDZ 7	5310C	Total Organic Carbon	Total/NA	mg/L	8	4.0	136	☐	37.54 - 228.06	☐	70.48 - 229.2
480-193383-G-3	LDZ 6	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	52.3	☐	46.499 - 80.426	☐	44.56 - 88.44
480-193411-N-1	ST-5	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	4.5	☐	0 - 21.926	☐	1.92 - 23.76
480-193411-N-2	ST-3	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	5.3	☐	1.569 - 6.456	☐	2.56 - 6.84
480-193411-N-3	03FB	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-P-2	MW-3A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	4.4	☐	0 - 14.28	☐	0 - 14.52
480-193436-P-2	MW-3A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	4.2	☐	0 - 14.854	☐	0 - 15.24
480-193436-P-2	MW-3A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	4.3	☐	0 - 14.552	☐	0 - 14.88
480-193436-P-3	MW-3B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.473	☐	0 - 1.92
480-193436-P-3	MW-3B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.318	☐	0 - 1.92
480-193436-P-3	MW-3B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.318	☐	0 - 1.92
480-193436-P-4	MW-4A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	2.2	☐	0.798 - 3.102	☐	1.12 - 3.12
480-193436-P-4	MW-4A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	1.9	☐	0.695 - 3.205	☐	1.04 - 3.12
480-193436-P-4	MW-4A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	2.1	☐	0.692 - 3.183	☐	1.04 - 3.12
480-193436-P-5	MW-5A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-P-5	MW-5A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-P-5	MW-5A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193436-P-6	MW-6A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	4.3	☐	0 - 80.836	☐	2.4 - 87.24
480-193436-P-6	MW-6A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	4.2	☐	0 - 81.719	☐	2.4 - 88.2
480-193436-P-6	MW-6A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	4.2	☐	0 - 81.279	☐	2.4 - 87.72
480-193436-P-7	MW-6B	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 3.19	☐	0 - 2.4
480-193436-P-7	MW-6B	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 2.905	☐	0 - 2.16
480-193436-P-7	MW-6B	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 3.056	☐	0 - 2.16
480-193436-P-8	MW-7A	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	6.5	☐	0.53 - 10.495	☐	2.8 - 10.92
480-193436-P-8	MW-7A	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	6.3	☐	0.302 - 10.848	☐	2.8 - 11.52

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Historical Data Summary Report

For Batch 609655

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193436-P-8	MW-7A	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	6.4	☐	0.41 - 10.69	☐	2.8 - 11.28
480-193467-N-1	01FB	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193467-N-3	YSC02	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	1.7	☐	0.419 - 3.031	☐	1.12 - 3.36
480-193467-N-4	YSP03R	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.938	☐	0 - 1.56
480-193467-N-5	YSP05	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	ND	☐	0 - 4.528	☐	0 - 3.36
480-193467-N-6	YSP08	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	1.0	☐	0 - 1.712	☐	0 - 1.44
480-193467-N-7	YSP09	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	1.3	☐	0 - 2.503	☐	0 - 1.56
480-193467-O-2	YSC01	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	7.5	☐	0 - 17.817	☐	1.76 - 18.36
480-193470-G-1	LDZ 3	5310C	Total Organic Carbon	Total/NA	mg/L	8	1.0	67.3	☐	0 - 99.491	☐	21.44 - 83.64
480-193512-P-1	WS-1	5310C	TOC Result 1	Total/NA	mg/L	6	1.0	ND	☐	0 - 0	☐	0 - 0
480-193512-P-1	WS-1	5310C	TOC Result 2	Total/NA	mg/L	6	1.0	ND	☐	0 - 0	☐	0 - 0
480-193512-P-1	WS-1	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	6	1.0	ND	☐	0 - 0	☐	0 - 0
480-193512-P-2	CW-2	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193512-P-2	CW-2	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193512-P-2	CW-2	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 0	☐	0 - 0
480-193512-P-3	CW-15	5310C	TOC Result 1	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.712	☐	0 - 1.44
480-193512-P-3	CW-15	5310C	TOC Result 2	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.452	☐	0 - 1.56
480-193512-P-3	CW-15	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	8	1.0	ND	☐	0 - 1.712	☐	0 - 1.44
480-193512-P-4	CW-16	5310C	TOC Result 1	Total/NA	mg/L	2	1.0	2.3	☑	0 - 0	☑	0 - 0
480-193512-P-4	CW-16	5310C	TOC Result 2	Total/NA	mg/L	2	1.0	2.3	☑	0 - 0	☑	0 - 0
480-193512-P-4	CW-16	5310C	Total Organic Carbon - Duplicates	Total/NA	mg/L	2	1.0	2.3	☑	0 - 0	☑	0 - 0
480-193597-G-1	^8C21-08636 HMV	5310C	Total Organic Carbon	Total/NA	mg/L	8	80.0	320	☐	0 - 4319.466	☐	320 - 4080

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12/30/2021

Historical Data Summary Report

For Batch 609664

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail	3-Sigma Limits	Fail	Client Limits
480-193351-E-1	MW201A	SM5310_DOC	Dissolved Organic Carbon	Dissolved	mg/L	8	1.0	1.3	☐	0 - 3.461	☐	0.536 - 3.48
480-193351-E-2	MW227	SM5310_DOC	Dissolved Organic Carbon	Dissolved	mg/L	8	1.0	2.1	☐	0 - 4.108	☐	0.544 - 3.48
480-193351-E-3	MW228	SM5310_DOC	Dissolved Organic Carbon	Dissolved	mg/L	8	1.0	2.1	☐	0.258 - 4.117	☐	0.96 - 4.2
480-193353-H-3	MW225	SM5310_DOC	Dissolved Organic Carbon	Dissolved	mg/L	8	1.0	1.3	☐	0 - 2.454	☐	0 - 2.04

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609594 Batch Start Date: 12/21/21 01:30 Batch Analyst: Weglarski, Scott R

Batch Method: 310.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Minerals 00024	WC_50ppmALK 00180		
ICV 480-609594/7		310.2		2 mL	2 mL	# mL			
ICB 480-609594/8		310.2		2 mL	2 mL				
CCB 480-609594/17		310.2		2 mL	2 mL				
CCV 480-609594/18		310.2		2 mL	2 mL		# mL		
LCS 480-609594/19		310.2		2 mL	2 mL		# mL		
MB 480-609594/20		310.2		2 mL	2 mL				
CCB 480-609594/29		310.2		2 mL	2 mL				
CCV 480-609594/30		310.2		2 mL	2 mL		# mL		
CCB 480-609594/60		310.2		2 mL	2 mL				
CCV 480-609594/61		310.2		2 mL	2 mL		# mL		
MB 480-609594/63		310.2		2 mL	2 mL				
CCB 480-609594/72		310.2		2 mL	2 mL				
CCV 480-609594/73		310.2		2 mL	2 mL		# mL		
LCS 480-609594/74		310.2		2 mL	2 mL		# mL		
MB 480-609594/75		310.2		2 mL	2 mL				
480-193436-K-4	MW-4A	310.2	T	2 mL	2 mL				
480-193436-K-5	MW-5A	310.2	T	2 mL	2 mL				
480-193436-K-6	MW-6A	310.2	T	2 mL	2 mL				
480-193436-K-7	MW-6B	310.2	T	2 mL	2 mL				
480-193436-K-8	MW-7A	310.2	T	2 mL	2 mL				
CCB 480-609594/84		310.2		2 mL	2 mL				
CCV 480-609594/85		310.2		2 mL	2 mL		# mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609594 Batch Start Date: 12/21/21 01:30 Batch Analyst: Weglarski, Scott R

Batch Method: 310.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Minerals 00024	WC_50ppmALK 00180		
CCB 480-609594/123		310.2		2 mL	2 mL				
CCV 480-609594/124		310.2		2 mL	2 mL		# mL		
MB 480-609594/126		310.2		2 mL	2 mL				
CCB 480-609594/128		310.2		2 mL	2 mL				
CCV 480-609594/129		310.2		2 mL	2 mL		# mL		
LCS 480-609594/130		310.2		2 mL	2 mL		# mL		
MB 480-609594/131		310.2		2 mL	2 mL				
CCB 480-609594/140		310.2		2 mL	2 mL				
CCV 480-609594/141		310.2		2 mL	2 mL		# mL		
LCS 480-609594/142		310.2		2 mL	2 mL		# mL		
MB 480-609594/143		310.2		2 mL	2 mL				
480-193436-K-2	MW-3A	310.2	T	2 mL	2 mL				
480-193436-K-3	MW-3B	310.2	T	2 mL	2 mL				
CCB 480-609594/150		310.2		2 mL	2 mL				
CCV 480-609594/151		310.2		2 mL	2 mL		# mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609491 Batch Start Date: 12/20/21 10:38 Batch Analyst: Olson, Jeffrey G

Batch Method: Distill/CN Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	10ppm CN MS 00210	CN LCS 250 00234	LCS 400 00224	
MB 480-609491/1		Distill/CN, 335.4		6 mL	6 mL				
LCS 480-609491/2		Distill/CN, 335.4		6 mL	6 mL			6 mL	
LCS 480-609491/3		Distill/CN, 335.4		6 mL	6 mL		6 mL		
480-193436-E-2	MW-3A	Distill/CN, 335.4	T	6 mL	6 mL				
480-193436-E-2 DU	MW-3A	Distill/CN, 335.4	T	6 mL	6 mL				
480-193436-E-3	MW-3B	Distill/CN, 335.4	T	6 mL	6 mL				
480-193436-E-3 MS	MW-3B	Distill/CN, 335.4	T	6 mL	6 mL	60 uL			
480-193436-E-4	MW-4A	Distill/CN, 335.4	T	6 mL	6 mL				
480-193436-E-5	MW-5A	Distill/CN, 335.4	T	6 mL	6 mL				
480-193436-E-6	MW-6A	Distill/CN, 335.4	T	6 mL	6 mL				
480-193436-E-7	MW-6B	Distill/CN, 335.4	T	6 mL	6 mL				
480-193436-E-8	MW-7A	Distill/CN, 335.4	T	6 mL	6 mL				

Batch Notes	
Distillation Start Time	12/20/2021 10:30
Distillation End Time	12/20/2021 11:00
Chlorination Start Time	12/20/2021 10:30
Chlorination End Time	12/20/2021 11:00

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609504 Batch Start Date: 12/20/21 11:21 Batch Analyst: Olson, Jeffrey G

Batch Method: 335.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CN CCV 01615			
CCV 480-609504/1		335.4		5 mL	5 mL	# mL			
CCB 480-609504/2		335.4		5 mL	5 mL				
MB 480-609491/1-A		335.4		5 mL	5 mL				
LCS 480-609491/2-A		335.4		5 mL	5 mL				
LCS 480-609491/3-A		335.4		5 mL	5 mL				
480-193436-E-2-A	MW-3A	335.4	T	5 mL	5 mL				
480-193436-E-2-B DU	MW-3A	335.4	T	5 mL	5 mL				
480-193436-E-3-A	MW-3B	335.4	T	5 mL	5 mL				
480-193436-E-3-B MS	MW-3B	335.4	T	5 mL	5 mL				
480-193436-E-4-A	MW-4A	335.4	T	5 mL	5 mL				
480-193436-E-5-A	MW-5A	335.4	T	5 mL	5 mL				
CCV 480-609504/13		335.4		5 mL	5 mL	# mL			
CCB 480-609504/14		335.4		5 mL	5 mL				
480-193436-E-6-A	MW-6A	335.4	T	5 mL	5 mL				
480-193436-E-7-A	MW-6B	335.4	T	5 mL	5 mL				
480-193436-E-8-A	MW-7A	335.4	T	5 mL	5 mL				
CCV 480-609504/25		335.4		5 mL	5 mL	# mL			
CCB 480-609504/26		335.4		5 mL	5 mL				

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609504 Batch Start Date: 12/20/21 11:21 Batch Analyst: Olson, Jeffrey G

Batch Method: 335.4 Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609112 Batch Start Date: 12/16/21 09:27 Batch Analyst: Thomas, Christine L

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	NH3 CCV 01460			
CCV 480-609112/1		350.1		5 mL	5 mL	# mL			
CCB 480-609112/2		350.1		5 mL	5 mL				
MB 480-609112/3		350.1		5 mL	5 mL				
LCS 480-609112/4		350.1		5 mL	5 mL	# mL			
480-193436-C-2	MW-3A	350.1	T	5 mL	5 mL				
CCV 480-609112/13		350.1		5 mL	5 mL	# mL			
CCB 480-609112/14		350.1		5 mL	5 mL				
480-193436-C-3	MW-3B	350.1	T	5 mL	5 mL				
480-193436-C-4	MW-4A	350.1	T	5 mL	5 mL				
480-193436-C-5	MW-5A	350.1	T	5 mL	5 mL				
480-193436-C-6	MW-6A	350.1	T	5 mL	5 mL				
480-193436-C-7	MW-6B	350.1	T	5 mL	5 mL				
480-193436-C-8	MW-7A	350.1	T	5 mL	5 mL				
CCV 480-609112/25		350.1		5 mL	5 mL	# mL			
CCB 480-609112/26		350.1		5 mL	5 mL				
MB 480-609112/27		350.1		5 mL	5 mL				
LCS 480-609112/28		350.1		5 mL	5 mL	# mL			
CCV 480-609112/37		350.1		5 mL	5 mL	# mL			
CCB 480-609112/38		350.1		5 mL	5 mL				
CCV 480-609112/49		350.1		5 mL	5 mL	# mL			
CCB 480-609112/50		350.1		5 mL	5 mL				

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609112 Batch Start Date: 12/16/21 09:27 Batch Analyst: Thomas, Christine L

Batch Method: 350.1 Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609130 Batch Start Date: 12/16/21 11:28 Batch Analyst: Bauer, Katherine E

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TKN1000ppmSTD 00016			
MB 480-609130/1		351.2, 351.2		25 mL	25 mL				
LCS 480-609130/2		351.2, 351.2		25 mL	25 mL	0.0625 mL			
480-193436-C-2	MW-3A	351.2, 351.2	T	25 mL	25 mL				
480-193436-C-2 MS	MW-3A	351.2, 351.2	T	25 mL	25 mL	0.025 mL			
480-193436-C-3	MW-3B	351.2, 351.2	T	25 mL	25 mL				
480-193436-C-4	MW-4A	351.2, 351.2	T	25 mL	25 mL				
480-193436-C-5	MW-5A	351.2, 351.2	T	25 mL	25 mL				
480-193436-C-6	MW-6A	351.2, 351.2	T	25 mL	25 mL				
480-193436-C-7	MW-6B	351.2, 351.2	T	25 mL	25 mL				
480-193436-C-8	MW-7A	351.2, 351.2	T	25 mL	25 mL				

Batch Notes	
Block Digestor ID	-
Block Digestion Start time	-
Oven, Bath or Block Temperature 1	- Degrees C
Block Digestion End time	-
Oven, Bath or Block Temperature 2	- Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609250 Batch Start Date: 12/17/21 06:12 Batch Analyst: Thomas, Christine L

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TKN CCV 01308				
CCV 480-609250/1		351.2		2 mL	# mL				
CCB 480-609250/2		351.2		2 mL					
LCS 480-609130/2-A		351.2		2 mL					
CCV 480-609250/6		351.2		2 mL	# mL				
CCB 480-609250/7		351.2		2 mL					
MB 480-609130/1-A		351.2		2 mL					
CCV 480-609250/18		351.2		2 mL	# mL				
CCB 480-609250/19		351.2		2 mL					
CCV 480-609250/31		351.2		2 mL	# mL				
CCB 480-609250/32		351.2		2 mL					
480-193436-C-2-A	MW-3A	351.2	T	2 mL					
480-193436-C-2-B MS	MW-3A	351.2	T	2 mL					
480-193436-C-3-A	MW-3B	351.2	T	2 mL					
480-193436-C-4-A	MW-4A	351.2	T	2 mL					
480-193436-C-5-A	MW-5A	351.2	T	2 mL					
480-193436-C-6-A	MW-6A	351.2	T	2 mL					
480-193436-C-7-A	MW-6B	351.2	T	2 mL					
480-193436-C-8-A	MW-7A	351.2	T	2 mL					
CCV 480-609250/43		351.2		2 mL	# mL				
CCB 480-609250/44		351.2		2 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609250 Batch Start Date: 12/17/21 06:12 Batch Analyst: Thomas, Christine L

Batch Method: 351.2 Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609392 Batch Start Date: 12/17/21 19:30 Batch Analyst: Stone, Chandler S

Batch Method: 410.4 Batch End Date: 12/18/21 13:29

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ChlorideScrn	COD 25 PPM 00082	COD 75 PPM 00045	
CCV 480-609392/2		410.4		2 mL	2 mL	N		2 mL	
CCB 480-609392/3		410.4		2 mL	2 mL	N			
MB 480-609392/4		410.4		2 mL	2 mL	N			
LCS 480-609392/5		410.4		2 mL	2 mL	N	2 mL		
CCV 480-609392/14		410.4		2 mL	2 mL	N		2 mL	
CCB 480-609392/15		410.4		2 mL	2 mL	N			
480-193436-C-2	MW-3A	410.4	T	2 mL	2 mL	N			
480-193436-C-3	MW-3B	410.4	T	2 mL	2 mL	N			
CCV 480-609392/26		410.4		2 mL	2 mL	N		2 mL	
CCB 480-609392/27		410.4		2 mL	2 mL	N			
MB 480-609392/28		410.4		2 mL	2 mL	N			
LCS 480-609392/29		410.4		2 mL	2 mL	N	2 mL		
CCV 480-609392/38		410.4		2 mL	2 mL	N		2 mL	
CCB 480-609392/39		410.4		2 mL	2 mL	N			
480-193436-C-4	MW-4A	410.4	T	2 mL	2 mL	N			
480-193436-C-5	MW-5A	410.4	T	2 mL	2 mL	N			
480-193436-C-6	MW-6A	410.4	T	2 mL	2 mL	N			
480-193436-C-7	MW-6B	410.4	T	2 mL	2 mL	N			
480-193436-C-8	MW-7A	410.4	T	2 mL	2 mL	N			
CCV 480-609392/50		410.4		2 mL	2 mL	N		2 mL	
CCB 480-609392/51		410.4		2 mL	2 mL	N			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609392 Batch Start Date: 12/17/21 19:30 Batch Analyst: Stone, Chandler S

Batch Method: 410.4 Batch End Date: 12/18/21 13:29

Batch Notes	
Temperature - Uncorrected - Start	150.8 Degrees C
Temperature - Corrected - Start	150.3 Degrees C
Digestion Start Time	12/17/2021 19:30
Digestion End Time	12/18/2021 04:30
Temperature - Uncorrected - End	150.8 Degrees C
Temperature - Corrected - End	150.3 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609155 Batch Start Date: 12/16/21 07:17 Batch Analyst: Thomas, Christine L

Batch Method: 420.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Phenol ICV 00337	WC_Phenol_CCV 00470	WC_Phenol10W3 01253	
ICV 480-609155/10		420.4		2 mL	2 mL	# mL			
ICB 480-609155/11		420.4		2 mL	2 mL				
CCV 480-609155/14		420.4		2 mL	2 mL		# mL		
CCB 480-609155/15		420.4		2 mL	2 mL				
MB 480-609155/16		420.4		2 mL	2 mL				
LCS 480-609155/17		420.4		2 mL	2 mL		# mL		
CCV 480-609155/26		420.4		2 mL	2 mL		# mL		
CCB 480-609155/27		420.4		2 mL	2 mL				
480-193436-F-2	MW-3A	420.4	T	2 mL	2 mL				
480-193436-F-3	MW-3B	420.4	T	2 mL	2 mL				
480-193436-F-4	MW-4A	420.4	T	2 mL	2 mL				
480-193436-F-5	MW-5A	420.4	T	2 mL	2 mL				
480-193436-F-6	MW-6A	420.4	T	2 mL	2 mL				
480-193436-F-7	MW-6B	420.4	T	2 mL	2 mL				
CCV 480-609155/40		420.4		2 mL	2 mL		# mL		
CCB 480-609155/41		420.4		2 mL	2 mL				
MB 480-609155/44		420.4		2 mL	2 mL				
LCS 480-609155/45		420.4		2 mL	2 mL		# mL		
480-193436-F-8	MW-7A	420.4	T	2 mL	2 mL				
480-193436-F-8 MS	MW-7A	420.4	T	2 mL	2 mL			20 uL	
CCV 480-609155/54		420.4		2 mL	2 mL		# mL		
CCB 480-609155/55		420.4		2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609155 Batch Start Date: 12/16/21 07:17 Batch Analyst: Thomas, Christine L

Batch Method: 420.4 Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 598173 Batch Start Date: 09/28/21 08:55 Batch Analyst: Bauer, Katherine E

Batch Method: 7196A Batch End Date: 09/28/21 09:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	Initial pH	Final pH
IC 480-598173/1		7196A		25 mL	25 mL	0 Absorbance	0 Absorbance	2 SU	2 SU
IC 480-598173/2		7196A		25 mL	25 mL	0 Absorbance	0.008 Absorbance	2 SU	2 SU
IC 480-598173/3		7196A		25 mL	25 mL	0 Absorbance	0.018 Absorbance	2 SU	2 SU
IC 480-598173/4		7196A		25 mL	25 mL	0 Absorbance	0.037 Absorbance	2 SU	2 SU
IC 480-598173/5		7196A		25 mL	25 mL	0 Absorbance	0.079 Absorbance	2 SU	2 SU
IC 480-598173/6		7196A		25 mL	25 mL	0 Absorbance	0.153 Absorbance	2 SU	2 SU
IC 480-598173/7		7196A		25 mL	25 mL	0 Absorbance	0.232 Absorbance	2 SU	2 SU
IC 480-598173/8		7196A		25 mL	25 mL	0 Absorbance	0.306 Absorbance	2 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	0.01 hex 00027	0.02 hex 00027	0.05 hex 00028	0.1 hex 00027	0.2 hex 00029	0.3 hex 00027
IC 480-598173/1		7196A							
IC 480-598173/2		7196A		0.125 mL					
IC 480-598173/3		7196A			0.125 mL				
IC 480-598173/4		7196A				0.125 mL			
IC 480-598173/5		7196A					0.125 mL		
IC 480-598173/6		7196A						0.125 mL	
IC 480-598173/7		7196A							0.125 mL
IC 480-598173/8		7196A							

Lab Sample ID	Client Sample ID	Method Chain	Basis	0.4 hex 00027					
IC 480-598173/1		7196A							
IC 480-598173/2		7196A							
IC 480-598173/3		7196A							
IC 480-598173/4		7196A							
IC 480-598173/5		7196A							
IC 480-598173/6		7196A							
IC 480-598173/7		7196A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 598173 Batch Start Date: 09/28/21 08:55 Batch Analyst: Bauer, Katherine E

Batch Method: 7196A Batch End Date: 09/28/21 09:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	0.4 hex 00027					
IC 480-598173/8		7196A		0.125 mL					

Batch Notes	
Color Reagent ID	-

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609017 Batch Start Date: 12/15/21 13:28 Batch Analyst: Mooney, Ryan J

Batch Method: 7196A Batch End Date: 12/15/21 13:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	HEX INT STD 00109	
CCV 480-609017/1		7196A		25 mL	25 mL	0 Absorbance	.041 Absorbance	125 uL	
CCB 480-609017/2		7196A		25 mL	25 mL	0 Absorbance	0 Absorbance		
MB 480-609017/3		7196A		25 mL	25 mL	0 Absorbance	0 Absorbance		
LCS 480-609017/4		7196A		25 mL	25 mL	0 Absorbance	.042 Absorbance	125 uL	
480-193436-J-2	MW-3A	7196A	T	25 mL	25 mL	0 Absorbance	.001 Absorbance		
480-193436-J-3	MW-3B	7196A	T	25 mL	25 mL	0 Absorbance	0 Absorbance		
CCV 480-609017/13		7196A		25 mL	25 mL	0 Absorbance	.041 Absorbance	125 uL	
CCB 480-609017/14		7196A		25 mL	25 mL	0 Absorbance	0 Absorbance		
480-193436-G-4	MW-4A	7196A	T	25 mL	25 mL	0 Absorbance	.004 Absorbance		
480-193436-J-5	MW-5A	7196A	T	25 mL	25 mL	0 Absorbance	.002 Absorbance		
480-193436-H-6	MW-6A	7196A	T	25 mL	25 mL	0 Absorbance	0 Absorbance		
480-193436-H-7	MW-6B	7196A	T	25 mL	25 mL	0 Absorbance	0 Absorbance		
480-193436-J-8	MW-7A	7196A	T	25 mL	25 mL	0 Absorbance	0 Absorbance		
CCV 480-609017/24		7196A		25 mL	25 mL	0 Absorbance	.042 Absorbance	125 uL	
CCB 480-609017/25		7196A		25 mL	25 mL	0 Absorbance	.00 Absorbance		

Batch Notes	
Color Reagent ID	6805695

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609043 Batch Start Date: 12/15/21 16:48 Batch Analyst: Bauer, Matthew J

Batch Method: SM 2120B Batch End Date: 12/15/21 17:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	Color Std-2 00020		
CCV 480-609043/1		SM 2120B		1 SU	50 mL	50 mL	3 mL		
CCB 480-609043/2		SM 2120B		5 SU	50 mL	50 mL			
MB 480-609043/3		SM 2120B		5 SU	50 mL	50 mL			
LCS 480-609043/4		SM 2120B		1 SU	50 mL	50 mL	3 mL		
CCV 480-609043/13		SM 2120B		1 SU	50 mL	50 mL	3 mL		
CCB 480-609043/14		SM 2120B		5 SU	50 mL	50 mL			
480-193436-J-2	MW-3A	SM 2120B	T	5 SU	50 mL	50 mL			
480-193436-J-3	MW-3B	SM 2120B	T	6 SU	50 mL	50 mL			
480-193436-J-4	MW-4A	SM 2120B	T	6 SU	50 mL	50 mL			
480-193436-J-4 DU	MW-4A	SM 2120B	T	6 SU	50 mL	50 mL			
480-193436-J-5	MW-5A	SM 2120B	T	6 SU	50 mL	50 mL			
480-193436-J-5 DU	MW-5A	SM 2120B	T	6 SU	50 mL	50 mL			
CCV 480-609043/25		SM 2120B		1 SU	50 mL	50 mL	3 mL		
CCB 480-609043/26		SM 2120B		5 SU	50 mL	50 mL			
MB 480-609043/27		SM 2120B		5 SU	50 mL	50 mL			
LCS 480-609043/28		SM 2120B		1 SU	50 mL	50 mL	3 mL		
480-193436-H-6	MW-6A	SM 2120B	T	6 SU	50 mL	50 mL			
480-193436-H-7	MW-6B	SM 2120B	T	6 SU	50 mL	50 mL			
480-193436-J-8	MW-7A	SM 2120B	T	6 SU	50 mL	50 mL			
480-193436-J-8 DU	MW-7A	SM 2120B	T	6 SU	50 mL	50 mL			
CCV 480-609043/33		SM 2120B		1 SU	50 mL	50 mL	3 mL		
CCB 480-609043/34		SM 2120B		5 SU	50 mL	50 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609043 Batch Start Date: 12/15/21 16:48 Batch Analyst: Bauer, Matthew J

Batch Method: SM 2120B Batch End Date: 12/15/21 17:45

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609128 Batch Start Date: 12/16/21 12:01 Batch Analyst: Zahniser, Ian M

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_6ANION_STD 00003				
IC 480-609128/2		300.0		5 mL	2.5 uL				
IC 480-609128/3		300.0		5 mL	10 uL				
IC 480-609128/4		300.0		5 mL	25 uL				
IC 480-609128/5		300.0		5 mL	100 uL				
IC 480-609128/6		300.0		5 mL	250 uL				
IC 480-609128/7		300.0		5 mL	500 uL				
IC 480-609128/8		300.0		5 mL	1000 uL				

Batch Notes	
Filter ID	17201245
Eluent 1 ID	210982405315

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609673 Batch Start Date: 12/21/21 13:55 Batch Analyst: Zahniser, Ian M

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_6ANION_STD 00003	IC_ANION_LCS_ 00396			
CCV 480-609673/2		300.0		5 mL		5 mL			
CCB 480-609673/3		300.0		5 mL					
LCS 480-609673/4		300.0		5 mL		5 mL			
MB 480-609673/5		300.0		5 mL					
480-193436-L-2	MW-3A	300.0	T	1 mL					
480-193436-L-2 MS	MW-3A	300.0	T	1 mL	50 uL				
480-193436-L-2 MSD	MW-3A	300.0	T	1 mL	50 uL				
CCV 480-609673/14		300.0		5 mL		5 mL			
CCB 480-609673/15		300.0		5 mL					
480-193436-L-3	MW-3B	300.0	T	1 mL					
480-193436-L-4	MW-4A	300.0	T	1 mL					
480-193436-L-5	MW-5A	300.0	T	1 mL					
480-193436-L-6	MW-6A	300.0	T	1 mL					
480-193436-L-7	MW-6B	300.0	T	1 mL					
480-193436-L-8	MW-7A	300.0	T	1 mL					
CCV 480-609673/26		300.0		5 mL		5 mL			
CCB 480-609673/27		300.0		5 mL					

Batch Notes	
Filter ID	17201245
Eluent 1 ID	210982405315

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609236 Batch Start Date: 12/16/21 19:00 Batch Analyst: Weglarski, Scott R

Batch Method: 9038 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Sulf 1000 ppm 00042	Sulf 30ppm 00184	Sulf 30ppm 00185	
ICB 480-609236/9		9038		2 mL	2 mL				
ICV 480-609236/10		9038		2 mL	2 mL			# mL	
CCB 480-609236/160		9038		2 mL	2 mL				
CCV 480-609236/161		9038		2 mL	2 mL		# mL		
MB 480-609236/162		9038		2 mL	2 mL				
LCS 480-609236/163		9038		2 mL	2 mL		# mL		
CCB 480-609236/164		9038		2 mL	2 mL				
CCV 480-609236/165		9038		2 mL	2 mL		# mL		
CCB 480-609236/208		9038		2 mL	2 mL				
CCV 480-609236/209		9038		2 mL	2 mL		# mL		
480-193436-K-2	MW-3A	9038	T	2 mL	2 mL				
CCB 480-609236/213		9038		2 mL	2 mL				
CCV 480-609236/214		9038		2 mL	2 mL		# mL		
480-193436-K-3	MW-3B	9038	T	2 mL	2 mL				
480-193436-K-3 MS	MW-3B	9038	T	2 mL	2 mL	0.04 mL			
CCB 480-609236/219		9038		2 mL	2 mL				
CCV 480-609236/220		9038		2 mL	2 mL		# mL		
480-193436-K-3 MSD	MW-3B	9038	T	2 mL	2 mL	0.04 mL			
480-193436-K-4	MW-4A	9038	T	2 mL	2 mL				
480-193436-K-5	MW-5A	9038	T	2 mL	2 mL				
CCB 480-609236/225		9038		2 mL	2 mL				
CCV 480-609236/226		9038		2 mL	2 mL		# mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609236 Batch Start Date: 12/16/21 19:00 Batch Analyst: Weglarski, Scott R

Batch Method: 9038 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Sulf 1000 ppm 00042	Sulf 30ppm 00184	Sulf 30ppm 00185	
480-193436-K-5 MS	MW-5A	9038	T	2 mL	2 mL	0.04 mL			
480-193436-K-5 MSD	MW-5A	9038	T	2 mL	2 mL	0.04 mL			
480-193436-K-6	MW-6A	9038	T	2 mL	2 mL				
CCB 480-609236/231		9038		2 mL	2 mL				
CCV 480-609236/232		9038		2 mL	2 mL		# mL		
480-193436-K-7	MW-6B	9038	T	2 mL	2 mL				
480-193436-K-8	MW-7A	9038	T	2 mL	2 mL				
CCB 480-609236/237		9038		2 mL	2 mL				
CCV 480-609236/238		9038		2 mL	2 mL		# mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609137 Batch Start Date: 12/16/21 11:55 Batch Analyst: Olson, Jeffrey G

Batch Method: SM 2540C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	WeightOne%Diff
MB 480-609137/1		SM 2540C		MB	116.1289 g	100 mL	116.1293 g	116.1291 g	Pass No Unit
LCS 480-609137/2		SM 2540C		LCS	110.6471 g	100 mL	110.6918 g	110.6923 g	Pass No Unit
480-193436-B-2	MW-3A	SM 2540C	T	20	108.4431 g	100 mL	108.4557 g	108.4555 g	Pass No Unit
480-193436-B-3	MW-3B	SM 2540C	T	21	116.6998 g	100 mL	116.7260 g	116.7262 g	Pass No Unit
480-193436-B-3 DU	MW-3B	SM 2540C	T	22	111.4776 g	100 mL	111.5057 g	111.5054 g	Pass No Unit

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightTwo%Diff	Weight4OK	Residue	Residue2	Residue3	Residue4
MB 480-609137/1		SM 2540C		N/A No Unit	N/A	0.0004 g	0.0002 g	N/A g	N/A g
LCS 480-609137/2		SM 2540C		N/A No Unit	N/A	0.0447 g	0.0452 g	N/A g	N/A g
480-193436-B-2	MW-3A	SM 2540C	T	N/A No Unit	N/A	0.0126 g	0.0124 g	N/A g	N/A g
480-193436-B-3	MW-3B	SM 2540C	T	N/A No Unit	N/A	0.0262 g	0.0264 g	N/A g	N/A g
480-193436-B-3 DU	MW-3B	SM 2540C	T	N/A No Unit	N/A	0.0281 g	0.0278 g	N/A g	N/A g

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	NaCl Std 02 00420			
MB 480-609137/1		SM 2540C		100 mL	OK				
LCS 480-609137/2		SM 2540C		100 mL	OK	100 mL			
480-193436-B-2	MW-3A	SM 2540C	T	100 mL	OK				
480-193436-B-3	MW-3B	SM 2540C	T	100 mL	OK				
480-193436-B-3 DU	MW-3B	SM 2540C	T	100 mL	OK				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609137 Batch Start Date: 12/16/21 11:55 Batch Analyst: Olson, Jeffrey G

Batch Method: SM 2540C Batch End Date:

Batch Notes	
Nominal Amount Used	100 mL
Balance ID	3
Oven ID - Low Temperature	105-1
Thermometer ID - Low Temperature	105
Date/Time - In	12/16/2021 16:07
Temperature - Start - Uncorrected	105 Celsius
Temperature - Start - Corrected	105 Celsius
Date/Time - Out	12/17/2021 15:07
Temperature - End - Uncorrected	105 Celsius
Temperature - End - Corrected	105 Celsius
Oven ID	180-5
Thermometer ID	180-5
Weight(WT1) Start Date/Time	12/17/2021 15:15 No Unit
Uncorrected Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Date/Time Out	12/20/2021 14:09
Uncorrected Weight(WT1) Temp Out	180 Celsius
Weight(WT1) Temp Out	180 Celsius
Date/Time - In - CW (WT2)	12/20/2021 16:09
Temperature - Start-CW(WT2) -Uncorrected	180 Celsius
Temperature - Start - CW (WT2) - Correct	180 Celsius
Date/Time - Out - CW (WT2)	12/22/2021 17:48
Temperature - End-CW(WT2) -Uncorrected	180 Celsius
Temperature - End - CW (WT2) - Correct	180 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609158 Batch Start Date: 12/16/21 13:25 Batch Analyst: Olson, Jeffrey G

Batch Method: SM 2540C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	WeightOne%Diff
MB 480-609158/1		SM 2540C		MB	109.8952 g	100 mL	109.8956 g	109.8953 g	Pass No Unit
LCS 480-609158/2		SM 2540C		LCS	116.8947 g	100 mL	116.9429 g	116.9432 g	Pass No Unit
480-193436-B-4	MW-4A	SM 2540C	T	3	115.2836 g	100 mL	115.3303 g	115.3304 g	Pass No Unit
480-193436-B-4 DU	MW-4A	SM 2540C	T	4	121.4422 g	100 mL	121.4889 g	121.4885 g	Pass No Unit
480-193436-B-5	MW-5A	SM 2540C	T	5	117.4554 g	100 mL	117.4734 g	117.4737 g	Pass No Unit
480-193436-B-6	MW-6A	SM 2540C	T	6	114.1964 g	100 mL	114.2221 g	114.2223 g	Pass No Unit
480-193436-B-7	MW-6B	SM 2540C	T	7	97.7922 g	100 mL	97.8101 g	97.8102 g	Pass No Unit
480-193436-B-8	MW-7A	SM 2540C	T	8	116.0437 g	100 mL	116.0732 g	116.0732 g	Pass No Unit

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightTwo%Diff	Weight4OK	Residue	Residue2	Residue3	Residue4
MB 480-609158/1		SM 2540C		N/A No Unit	N/A	0.0004 g	0.0001 g	N/A g	N/A g
LCS 480-609158/2		SM 2540C		N/A No Unit	N/A	0.0482 g	0.0485 g	N/A g	N/A g
480-193436-B-4	MW-4A	SM 2540C	T	N/A No Unit	N/A	0.0467 g	0.0468 g	N/A g	N/A g
480-193436-B-4 DU	MW-4A	SM 2540C	T	N/A No Unit	N/A	0.0467 g	0.0463 g	N/A g	N/A g
480-193436-B-5	MW-5A	SM 2540C	T	N/A No Unit	N/A	0.018 g	0.0183 g	N/A g	N/A g
480-193436-B-6	MW-6A	SM 2540C	T	N/A No Unit	N/A	0.0257 g	0.0259 g	N/A g	N/A g
480-193436-B-7	MW-6B	SM 2540C	T	N/A No Unit	N/A	0.0179 g	0.018 g	N/A g	N/A g
480-193436-B-8	MW-7A	SM 2540C	T	N/A No Unit	N/A	0.0295 g	0.0295 g	N/A g	N/A g

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	NaCl Std 02 00420			
MB 480-609158/1		SM 2540C		100 mL	OK				
LCS 480-609158/2		SM 2540C		100 mL	OK	100 mL			
480-193436-B-4	MW-4A	SM 2540C	T	100 mL	OK				
480-193436-B-4 DU	MW-4A	SM 2540C	T	100 mL	OK				
480-193436-B-5	MW-5A	SM 2540C	T	100 mL	OK				
480-193436-B-6	MW-6A	SM 2540C	T	100 mL	OK				
480-193436-B-7	MW-6B	SM 2540C	T	100 mL	OK				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609158 Batch Start Date: 12/16/21 13:25 Batch Analyst: Olson, Jeffrey G

Batch Method: SM 2540C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	NaCl Std 02 00420			
480-193436-B-8	MW-7A	SM 2540C	T	100 mL	OK				

Batch Notes	
Nominal Amount Used	100 mL
Balance ID	3
Oven ID - Low Temperature	105-4
Thermometer ID - Low Temperature	105
Date/Time - In	12/16/2021 14:36
Temperature - Start - Uncorrected	105 Celsius
Temperature - Start - Corrected	105 Celsius
Date/Time - Out	12/18/2021 08:37
Temperature - End - Uncorrected	105 Celsius
Temperature - End - Corrected	105 Celsius
Oven ID	180-5
Thermometer ID	1805-5
Weight(WT1) Start Date/Time	12/18/2021 10:37 No Unit
Uncorrected Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Date/Time Out	12/20/2021 08:38
Uncorrected Weight(WT1) Temp Out	180 Celsius
Weight(WT1) Temp Out	180 Celsius
Date/Time - In - CW (WT2)	12/20/2021 10:38
Temperature - Start-CW(WT2) -Uncorrected	180 Celsius
Temperature - Start - CW (WT2) - Correct	180 Celsius
Date/Time - Out - CW (WT2)	12/27/2021 08:30
Temperature - End-CW(WT2) -Uncorrected	180 Celsius
Temperature - End - CW (WT2) - Correct	180 Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609158 Batch Start Date: 12/16/21 13:25 Batch Analyst: Olson, Jeffrey G

Batch Method: SM 2540C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609377 Batch Start Date: 12/13/21 17:57 Batch Analyst: Weglarski, Scott R

Batch Method: SM 4500 Cl- E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Minerals 00024	WC1000ClStk 00024	WC25ppmChlInt 00155	
ICV 480-609377/9		SM 4500 Cl- E		2 mL	2 mL	# mL			
CCB 480-609377/21		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-609377/22		SM 4500 Cl- E		2 mL	2 mL			# mL	
MB 480-609377/24		SM 4500 Cl- E		2 mL	2 mL				
CCB 480-609377/29		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-609377/30		SM 4500 Cl- E		2 mL	2 mL			# mL	
LCS 480-609377/31		SM 4500 Cl- E		2 mL	2 mL			# mL	
MB 480-609377/32		SM 4500 Cl- E		2 mL	2 mL				
480-193436-K-2	MW-3A	SM 4500 Cl- E	T	2 mL	2 mL				
480-193436-K-3	MW-3B	SM 4500 Cl- E	T	2 mL	2 mL				
480-193436-K-4	MW-4A	SM 4500 Cl- E	T	2 mL	2 mL				
480-193436-K-4 MS	MW-4A	SM 4500 Cl- E	T	2 mL	2 mL		0.04 mL		
480-193436-K-4 MSD	MW-4A	SM 4500 Cl- E	T	2 mL	2 mL		0.04 mL		
CCB 480-609377/41		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-609377/42		SM 4500 Cl- E		2 mL	2 mL			# mL	
LCS 480-609377/43		SM 4500 Cl- E		2 mL	2 mL			# mL	
MB 480-609377/44		SM 4500 Cl- E		2 mL	2 mL				
480-193436-K-5	MW-5A	SM 4500 Cl- E	T	2 mL	2 mL				
480-193436-K-6	MW-6A	SM 4500 Cl- E	T	2 mL	2 mL				
480-193436-K-7	MW-6B	SM 4500 Cl- E	T	2 mL	2 mL				
480-193436-K-8	MW-7A	SM 4500 Cl- E	T	2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609377 Batch Start Date: 12/13/21 17:57 Batch Analyst: Weglarski, Scott R

Batch Method: SM 4500 Cl- E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Minerals 00024	WC1000ClStk 00024	WC25ppmChlInt 00155	
CCB 480-609377/53		SM 4500 Cl- E		2 mL	2 mL				
CCV 480-609377/54		SM 4500 Cl- E		2 mL	2 mL			# mL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609214 Batch Start Date: 12/16/21 08:54 Batch Analyst: Mooney, Ryan J

Batch Method: SM 5210B Batch End Date: 12/21/21 12:57

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialTemp	Final pH	InitialAmount	FinalAmount	GGA 00014
MB 480-609214/1		SM 5210B					0 mL	300 mL	
LCS 480-609214/2		SM 5210B					6 mL	300 mL	6 mL
480-193436-A-2	MW-3A	SM 5210B	T	6.71 SU	22.3 Celsius	6.71 SU	300 mL	300 mL	
480-193436-A-3	MW-3B	SM 5210B	T	6.69 SU	21.6 Celsius	6.69 SU	300 mL	300 mL	
480-193436-A-4	MW-4A	SM 5210B	T	6.87 SU	21.1 Celsius	6.87 SU	300 mL	300 mL	
480-193436-A-5	MW-5A	SM 5210B	T	7.53 SU	22.3 Celsius	7.53 SU	300 mL	300 mL	
480-193436-A-6	MW-6A	SM 5210B	T	6.76 SU	22.3 Celsius	6.76 SU	300 mL	300 mL	
480-193436-A-7	MW-6B	SM 5210B	T	6.88 SU	22.4 Celsius	6.88 SU	300 mL	300 mL	
480-193436-A-8	MW-7A	SM 5210B	T	6.44 SU	22.1 Celsius	6.44 SU	300 mL	300 mL	
MB 480-609214/24		SM 5210B					0 mL	300 mL	
LCS 480-609214/25		SM 5210B					6 mL	300 mL	6 mL

Batch Notes	
Seed ID	6561631
Nutrient Buffer Pillow ID	6614223
Calibration - Initial Date/Time	12/21/2021 14:17
Calibration - Final Date/Time	12/21/2021 14:17
Incubator ID	2
Uncorrected Incubator Temp - Initial	19.1 Celsius
Corrected Incubator Temp - Initial	18.9 Celsius
Uncorrected Incubator Temp - Final	19.5 Celsius
Corrected Incubator Temp - Final	19.3 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-193436-1

SDG No.: 193337

Batch Number: 609655 Batch Start Date: 12/20/21 12:57 Batch Analyst: Zahniser, Ian M

Batch Method: SM 5310C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Res1&2RPD	RPDOK	TOC_CCV 00191	TOC_LCS 00188		
CCV 480-609655/2		SM 5310C		4 %	TOC Pass	# mL			
CCB 480-609655/3		SM 5310C			TOC Pass				
MB 480-609655/4		SM 5310C			TOC Pass				
LCS 480-609655/5		SM 5310C		2 %	TOC Pass		# mL		
CCV 480-609655/14		SM 5310C		1 %	TOC Pass	# mL			
CCB 480-609655/15		SM 5310C			TOC Pass				
480-193436-P-2	MW-3A	SM 5310C	T	5 %	TOC Pass				
480-193436-P-3	MW-3B	SM 5310C	T	19 %	TOC Fail				
480-193436-P-4	MW-4A	SM 5310C	T	13 %	TOC Fail				
480-193436-P-5	MW-5A	SM 5310C	T	28 %	TOC Fail				
480-193436-P-6	MW-6A	SM 5310C	T	4 %	TOC Pass				
480-193436-P-7	MW-6B	SM 5310C	T	29 %	TOC Fail				
480-193436-P-8	MW-7A	SM 5310C	T	3 %	TOC Pass				
CCV 480-609655/26		SM 5310C		1 %	TOC Pass	# mL			
CCB 480-609655/27		SM 5310C			TOC Pass				

Batch Notes	
Acid ID	6775594
Phosphoric Acid ID	6792764
Sodium Persulfate ID	6783105
Pipette/Syringe/Dispenser ID	M43072G

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Syracuse #225

Client Information	Sampler: KMcGrath	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-167798-13274.1
Client Contact: Ms. Kathleen McGrath	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 1 of 2
Company: Cortland Cty Soil & Water Cons District	PWSID:			Job #:
Address: 100 Grange Place Rm 202	Due Date Requested:			
City: Cortland	TAT Requested (days): Normal			
State, Zip: NY, 13045	Compliance Project: Δ Yes Δ No			
Phone: 607-345-4624(Tel)	PO #: Purchase Order not required			
Email: kathleen.mcgrath@cortlandswcd.org	WO #:			
Project Name: Cortland Landfill/ Event Desc: Towslee Landfill - Baseline	Project #: 48009337			
Site: New York	SSOW#:			

SHORT HOLD

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	350.1, 351.2, 410.4	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	5210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb	2120B, 353.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	5310C - Total Organic Carbon	335.4 - Cyanide	420.4_NP - Total Phenolics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	D	A	N	N	N	N	N	N	A	B	S		
CD-1				Water																	
CD-1RA				Water																	
MW-1A				Water																	
MW-1B				Water																	
MW-2A				Water																	
MW-2B				Water																	
MW-3A	12/14/21	8:45	G	Water	N	N	X	X	X	X	X	X		X	X	X	X	X	X		
MW-3B		9:00	G	Water	N	N	X	X	X	X	X	X		X	X	X	X	X	X		
MW-4A		9:30	G	Water	N	N	X	X	X	X	X	X		X	X	X	X	X	X		
MW-5A		9:50	G	Water	N	N	X	X	X	X	X	X		X	X	X	X	X	X		
MW-6A		10:20	G	Water	N	N	X	X	X	X	X	X		X	X	X	X	X	X		+6010C disc metals,

480-193436 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: KMcGrath	12/14/21 2:30		Received by: RENglish	12-14-21, 14:30	Eyn
Relinquished by: RENglish	12-14-21, 1800	Eyn	Received by: CWallace	12/15/21 10:30	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.8, 3.1, 2.6, 3.0

Ver: 06/08/2021

12/30/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Syracuse #225

Client Information
Client Contact: Ms. Kathleen McGrath
Company: Cortland Cty Soil & Water Cons District
Address: 100 Grange Place Rm 202
City: Cortland
State, Zip: NY, 13045
Phone: 607-345-4624(Tel)
Email: kathleen.mcgrath@cortlandswcd.org
Project Name: Cortland Landfill/ Event Desc: Towslee Landfill - Baseline
Site: New York

Sampler: K McGrath
Phone:
PWSID:

Lab PM: Johnson, Orlette S
E-Mail: Orlette.Johnson@Eurofinset.com
Carrier Tracking No(s):
State of Origin:

COC No: 480-167798-13274.2
Page: Page 2 of 2
Job #:

SHORT HOLD

Due Date Requested:
TAT Requested (days): Normal
Compliance Project: Δ Yes Δ No
PO #: Purchase Order not required
WO #:
Project #: 48009337
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0_28D - Bromide	350.1; 351.2, 410.4	6010C, 7470A, SM2340B	8260C - NY Part 360 Baseline Volatiles	6210B - Biochemical Oxygen Demand	2540C_Calcd - Total Dissolved Solids	FieldSampling - (MOD) pH,Cond,Temp,Turb	2120B, 353.2, 353.2_Nitrite, 9038, Nitrate_Calc, SM4500_Cl_E	7196A - Chromium, hexavalent	310.2 - Alkalinity, Total	5310C - Total Organic Carbon	335.4 - Cyanide	420.4_NP - Total Phenolics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	D	A	N	N	N	N	N	N	A	B	S		
MW-6B	12/14/21	10:45	G	Water	N	N	X	X	X	X	X	X		X	X	X	X	X	X		
MW-7A	12/14/21	11:15	G	Water	N	N	X	X	X	X	X	X		X	X	X	X	X	X		
DUP				Water																	
Trip Blank 1				Water																	
Trip Blank 2				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Special Instructions/QC Requirements:

Empty Kit Relinquished by:
Date:
Time:
Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: K McGrath	12/14/21 2:30		Received by: R. English	12-14-21, 14:30	Syr
Relinquished by: R. English	12-14-21, 1900	Syr	Received by: C Wallace	12/15/21 10:30	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-193436-1
SDG Number: 193337

Login Number: 193436
List Number: 1
Creator: Sabuda, Brendan D

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8 3.1 2.6 3.0 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	