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Cover Page

Order ID : Q1495

Project ID : Transfer Station-SPDES

Client : Tully Environmental, Inc

Lab Sample Number	Client Sample Number
Q1495-01	001-WILLETS-PT-BLVD(MAR)
Q1495-02	002-35TH-AVE(MAR)

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 3/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1495**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **PRATHA PARGHI** **Date:** **03/17/2025**

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LAB CHRONICLE

OrderID:	Q1495	**OrderDate:**	3/5/2025 1:48:00 PM
Client:	Tully Environmental, Inc	**Project:**	Transfer Station-SPDES
Contact:	Dean Devoe	**Location:**	I21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1495-01	**001-WILLETS-PT-BLVD(MAR)**	**Water**			**03/04/25**			**03/05/25**
			Metals Group 9	200.7		03/06/25	03/13/25	
Q1495-02	**002-35TH-AVE(MAR)**	**Water**			**03/04/25**			**03/05/25**
			Metals Group 9	200.7		03/06/25	03/13/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1495 **Order ID:** Q1495

Client: Tully Environmental, Inc **Project ID:** Transfer Station-SPDES

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : 001-WILLETS-PT-BLVD(MAR)								
Q1495-01	001-WILLETS-PT-BLVD(MAR)	Water	Chromium	3.54	J	0.52	5.00	ug/L
Q1495-01	001-WILLETS-PT-BLVD(MAR)	Water	Copper	14.1		1.52	10.0	ug/L
Q1495-01	001-WILLETS-PT-BLVD(MAR)	Water	Iron	8170		12.4	50.0	ug/L
Q1495-01	001-WILLETS-PT-BLVD(MAR)	Water	Lead	14.8		1.57	6.00	ug/L
Client ID : 002-35TH-AVE(MAR)								
Q1495-02	002-35TH-AVE(MAR)	Water	Arsenic	6.15	J	2.84	10.0	ug/L
Q1495-02	002-35TH-AVE(MAR)	Water	Chromium	4.61	J	0.52	5.00	ug/L
Q1495-02	002-35TH-AVE(MAR)	Water	Copper	16.0		1.52	10.0	ug/L
Q1495-02	002-35TH-AVE(MAR)	Water	Iron	9730		12.4	50.0	ug/L
Q1495-02	002-35TH-AVE(MAR)	Water	Lead	17.9		1.57	6.00	ug/L



SAMPLE DATA

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Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	03/04/25
Project:	Transfer Station-SPDES	Date Received:	03/05/25
Client Sample ID:	001-WILLETS-PT-BLVD(MAR)	SDG No.:	Q1495
Lab Sample ID:	Q1495-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	2.84	U	1	2.84	10.0	ug/L	03/06/25 08:40	03/13/25 14:53	EPA 200.7	
7440-43-9	Cadmium	0.21	U	1	0.21	3.00	ug/L	03/06/25 08:40	03/13/25 14:53	EPA 200.7	
7440-47-3	Chromium	3.54	J	1	0.52	5.00	ug/L	03/06/25 08:40	03/13/25 14:53	EPA 200.7	
7440-50-8	Copper	14.1		1	1.52	10.0	ug/L	03/06/25 08:40	03/13/25 14:53	EPA 200.7	
7439-89-6	Iron	8170		1	12.4	50.0	ug/L	03/06/25 08:40	03/13/25 14:53	EPA 200.7	
7439-92-1	Lead	14.8		1	1.57	6.00	ug/L	03/06/25 08:40	03/13/25 14:53	EPA 200.7	
7782-49-2	Selenium	3.07	U	1	3.07	10.0	ug/L	03/06/25 08:40	03/13/25 14:53	EPA 200.7	

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group 9				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	03/04/25
Project:	Transfer Station-SPDES	Date Received:	03/05/25
Client Sample ID:	002-35TH-AVE(MAR)	SDG No.:	Q1495
Lab Sample ID:	Q1495-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	6.15	J	1	2.84	10.0	ug/L	03/06/25 08:40	03/13/25 14:57	EPA 200.7	
7440-43-9	Cadmium	0.21	U	1	0.21	3.00	ug/L	03/06/25 08:40	03/13/25 14:57	EPA 200.7	
7440-47-3	Chromium	4.61	J	1	0.52	5.00	ug/L	03/06/25 08:40	03/13/25 14:57	EPA 200.7	
7440-50-8	Copper	16.0		1	1.52	10.0	ug/L	03/06/25 08:40	03/13/25 14:57	EPA 200.7	
7439-89-6	Iron	9730		1	12.4	50.0	ug/L	03/06/25 08:40	03/13/25 14:57	EPA 200.7	
7439-92-1	Lead	17.9		1	1.57	6.00	ug/L	03/06/25 08:40	03/13/25 14:57	EPA 200.7	
7782-49-2	Selenium	3.07	U	1	3.07	10.0	ug/L	03/06/25 08:40	03/13/25 14:57	EPA 200.7	

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group 9				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1040	1000	104	95 - 105	P	03/11/2025	10:50	LB134987
	Cadmium	511	510	100	95 - 105	P	03/11/2025	10:50	LB134987
	Chromium	527	520	101	95 - 105	P	03/11/2025	10:50	LB134987
	Copper	532	510	104	95 - 105	P	03/11/2025	10:50	LB134987
	Iron	10200	10000	102	95 - 105	P	03/11/2025	10:50	LB134987
	Lead	1020	1000	102	95 - 105	P	03/11/2025	10:50	LB134987
	Selenium	1040	1000	104	95 - 105	P	03/11/2025	10:50	LB134987

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	21.2	20.0	106	80 - 120	P	03/11/2025	10:54	LB134987
	Cadmium	5.80	6.0	97	80 - 120	P	03/11/2025	10:54	LB134987
	Chromium	10.2	10.0	102	80 - 120	P	03/11/2025	10:54	LB134987
	Copper	22.1	20.0	110	80 - 120	P	03/11/2025	10:54	LB134987
	Iron	93.9	100	94	80 - 120	P	03/11/2025	10:54	LB134987
	Lead	12.0	12.0	100	80 - 120	P	03/11/2025	10:54	LB134987
	Selenium	20.5	20.0	102	80 - 120	P	03/11/2025	10:54	LB134987

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5010	5000	100	90 - 110	P	03/11/2025	11:29	LB134987
	Cadmium	2520	2500	101	90 - 110	P	03/11/2025	11:29	LB134987
	Chromium	1010	1000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Copper	1280	1250	102	90 - 110	P	03/11/2025	11:29	LB134987
	Iron	5080	5000	102	90 - 110	P	03/11/2025	11:29	LB134987
	Lead	5030	5000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Selenium	4990	5000	100	90 - 110	P	03/11/2025	11:29	LB134987
CCV02	Arsenic	5150	5000	103	90 - 110	P	03/11/2025	12:19	LB134987
	Cadmium	2570	2500	103	90 - 110	P	03/11/2025	12:19	LB134987
	Chromium	1040	1000	104	90 - 110	P	03/11/2025	12:19	LB134987
	Copper	1300	1250	104	90 - 110	P	03/11/2025	12:19	LB134987
	Iron	4920	5000	98	90 - 110	P	03/11/2025	12:19	LB134987
	Lead	5120	5000	102	90 - 110	P	03/11/2025	12:19	LB134987
	Selenium	5170	5000	103	90 - 110	P	03/11/2025	12:19	LB134987
CCV03	Arsenic	4860	5000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Cadmium	2430	2500	97	90 - 110	P	03/11/2025	13:10	LB134987
	Chromium	964	1000	96	90 - 110	P	03/11/2025	13:10	LB134987
	Copper	1250	1250	100	90 - 110	P	03/11/2025	13:10	LB134987
	Iron	4750	5000	95	90 - 110	P	03/11/2025	13:10	LB134987
	Lead	4830	5000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Selenium	4840	5000	97	90 - 110	P	03/11/2025	13:10	LB134987
CCV04	Arsenic	4940	5000	99	90 - 110	P	03/11/2025	14:08	LB134987
	Cadmium	2470	2500	99	90 - 110	P	03/11/2025	14:08	LB134987
	Chromium	965	1000	96	90 - 110	P	03/11/2025	14:08	LB134987
	Copper	1260	1250	101	90 - 110	P	03/11/2025	14:08	LB134987
	Iron	4970	5000	100	90 - 110	P	03/11/2025	14:08	LB134987
	Lead	4880	5000	98	90 - 110	P	03/11/2025	14:08	LB134987
	Selenium	4920	5000	98	90 - 110	P	03/11/2025	14:08	LB134987
CCV05	Arsenic	4810	5000	96	90 - 110	P	03/11/2025	15:00	LB134987
	Cadmium	2400	2500	96	90 - 110	P	03/11/2025	15:00	LB134987
	Chromium	934	1000	93	90 - 110	P	03/11/2025	15:00	LB134987
	Copper	1240	1250	99	90 - 110	P	03/11/2025	15:00	LB134987
	Iron	4750	5000	95	90 - 110	P	03/11/2025	15:00	LB134987
	Lead	4760	5000	95	90 - 110	P	03/11/2025	15:00	LB134987

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Selenium	4790	5000	96	90 - 110	P	03/11/2025	15:00	LB134987
CCV06	Arsenic	4820	5000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Cadmium	2430	2500	97	90 - 110	P	03/11/2025	15:50	LB134987
	Chromium	956	1000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Copper	1240	1250	99	90 - 110	P	03/11/2025	15:50	LB134987
	Iron	4680	5000	94	90 - 110	P	03/11/2025	15:50	LB134987
	Lead	4800	5000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Selenium	4770	5000	96	90 - 110	P	03/11/2025	15:50	LB134987
CCV07	Arsenic	4920	5000	98	90 - 110	P	03/11/2025	16:42	LB134987
	Cadmium	2460	2500	98	90 - 110	P	03/11/2025	16:42	LB134987
	Chromium	956	1000	96	90 - 110	P	03/11/2025	16:42	LB134987
	Copper	1260	1250	101	90 - 110	P	03/11/2025	16:42	LB134987
	Iron	4860	5000	97	90 - 110	P	03/11/2025	16:42	LB134987
	Lead	4850	5000	97	90 - 110	P	03/11/2025	16:42	LB134987
	Selenium	4910	5000	98	90 - 110	P	03/11/2025	16:42	LB134987
CCV08	Arsenic	4940	5000	99	90 - 110	P	03/11/2025	17:34	LB134987
	Cadmium	2480	2500	99	90 - 110	P	03/11/2025	17:34	LB134987
	Chromium	955	1000	96	90 - 110	P	03/11/2025	17:34	LB134987
	Copper	1270	1250	102	90 - 110	P	03/11/2025	17:34	LB134987
	Iron	4880	5000	98	90 - 110	P	03/11/2025	17:34	LB134987
	Lead	4880	5000	98	90 - 110	P	03/11/2025	17:34	LB134987
	Selenium	4930	5000	99	90 - 110	P	03/11/2025	17:34	LB134987
CCV09	Arsenic	5030	5000	101	90 - 110	P	03/11/2025	18:26	LB134987
	Cadmium	2520	2500	101	90 - 110	P	03/11/2025	18:26	LB134987
	Chromium	971	1000	97	90 - 110	P	03/11/2025	18:26	LB134987
	Copper	1290	1250	103	90 - 110	P	03/11/2025	18:26	LB134987
	Iron	4690	5000	94	90 - 110	P	03/11/2025	18:26	LB134987
	Lead	4960	5000	99	90 - 110	P	03/11/2025	18:26	LB134987
	Selenium	5030	5000	101	90 - 110	P	03/11/2025	18:26	LB134987
CCV10	Arsenic	4890	5000	98	90 - 110	P	03/11/2025	19:14	LB134987
	Cadmium	2480	2500	99	90 - 110	P	03/11/2025	19:14	LB134987
	Chromium	968	1000	97	90 - 110	P	03/11/2025	19:14	LB134987
	Copper	1260	1250	101	90 - 110	P	03/11/2025	19:14	LB134987
	Iron	5280	5000	106	90 - 110	P	03/11/2025	19:14	LB134987

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Lead	4880	5000	98	90 - 110	P	03/11/2025	19:14	LB134987
	Selenium	4860	5000	97	90 - 110	P	03/11/2025	19:14	LB134987
CCV11	Arsenic	4830	5000	97	90 - 110	P	03/11/2025	19:26	LB134987
	Cadmium	2390	2500	95	90 - 110	P	03/11/2025	19:26	LB134987
	Chromium	935	1000	94	90 - 110	P	03/11/2025	19:26	LB134987
	Copper	1240	1250	100	90 - 110	P	03/11/2025	19:26	LB134987
	Iron	4770	5000	95	90 - 110	P	03/11/2025	19:26	LB134987
	Lead	4740	5000	95	90 - 110	P	03/11/2025	19:26	LB134987
	Selenium	4840	5000	97	90 - 110	P	03/11/2025	19:26	LB134987
CCV12	Arsenic	4850	5000	97	90 - 110	P	03/11/2025	19:39	LB134987
	Cadmium	2380	2500	95	90 - 110	P	03/11/2025	19:39	LB134987
	Chromium	948	1000	95	90 - 110	P	03/11/2025	19:39	LB134987
	Copper	1230	1250	99	90 - 110	P	03/11/2025	19:39	LB134987
	Iron	4570	5000	91	90 - 110	P	03/11/2025	19:39	LB134987
	Lead	4680	5000	94	90 - 110	P	03/11/2025	19:39	LB134987
	Selenium	5040	5000	101	90 - 110	P	03/11/2025	19:39	LB134987

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1020	1000	102	95 - 105	P	03/13/2025	12:07	LB135035
	Cadmium	503	510	99	95 - 105	P	03/13/2025	12:07	LB135035
	Chromium	525	520	101	95 - 105	P	03/13/2025	12:07	LB135035
	Copper	529	510	104	95 - 105	P	03/13/2025	12:07	LB135035
	Iron	9860	10000	99	95 - 105	P	03/13/2025	12:07	LB135035
	Lead	1000	1000	100	95 - 105	P	03/13/2025	12:07	LB135035
	Selenium	1040	1000	104	95 - 105	P	03/13/2025	12:07	LB135035

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	17.3	20.0	86	80 - 120	P	03/13/2025	12:13	LB135035
	Cadmium	5.95	6.0	99	80 - 120	P	03/13/2025	12:13	LB135035
	Chromium	10.1	10.0	101	80 - 120	P	03/13/2025	12:13	LB135035
	Copper	22.7	20.0	114	80 - 120	P	03/13/2025	12:13	LB135035
	Iron	101	100	101	80 - 120	P	03/13/2025	12:13	LB135035
	Lead	12.6	12.0	105	80 - 120	P	03/13/2025	12:13	LB135035
	Selenium	19.2	20.0	96	80 - 120	P	03/13/2025	12:13	LB135035

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5160	5000	103	90 - 110	P	03/13/2025	12:53	LB135035
	Cadmium	2570	2500	103	90 - 110	P	03/13/2025	12:53	LB135035
	Chromium	1050	1000	105	90 - 110	P	03/13/2025	12:53	LB135035
	Copper	1280	1250	103	90 - 110	P	03/13/2025	12:53	LB135035
	Iron	4890	5000	98	90 - 110	P	03/13/2025	12:53	LB135035
	Lead	5190	5000	104	90 - 110	P	03/13/2025	12:53	LB135035
	Selenium	5070	5000	101	90 - 110	P	03/13/2025	12:53	LB135035
CCV02	Arsenic	5290	5000	106	90 - 110	P	03/13/2025	13:49	LB135035
	Cadmium	2630	2500	105	90 - 110	P	03/13/2025	13:49	LB135035
	Chromium	1100	1000	110	90 - 110	P	03/13/2025	13:49	LB135035
	Copper	1310	1250	105	90 - 110	P	03/13/2025	13:49	LB135035
	Iron	5130	5000	103	90 - 110	P	03/13/2025	13:49	LB135035
	Lead	5330	5000	107	90 - 110	P	03/13/2025	13:49	LB135035
	Selenium	5180	5000	104	90 - 110	P	03/13/2025	13:49	LB135035
CCV03	Arsenic	5130	5000	102	90 - 110	P	03/13/2025	14:40	LB135035
	Cadmium	2540	2500	102	90 - 110	P	03/13/2025	14:40	LB135035
	Chromium	1050	1000	106	90 - 110	P	03/13/2025	14:40	LB135035
	Copper	1270	1250	102	90 - 110	P	03/13/2025	14:40	LB135035
	Iron	4990	5000	100	90 - 110	P	03/13/2025	14:40	LB135035
	Lead	5150	5000	103	90 - 110	P	03/13/2025	14:40	LB135035
	Selenium	5060	5000	101	90 - 110	P	03/13/2025	14:40	LB135035
CCV04	Arsenic	4950	5000	99	90 - 110	P	03/13/2025	15:38	LB135035
	Cadmium	2510	2500	100	90 - 110	P	03/13/2025	15:38	LB135035
	Chromium	1030	1000	103	90 - 110	P	03/13/2025	15:38	LB135035
	Copper	1240	1250	99	90 - 110	P	03/13/2025	15:38	LB135035
	Iron	4780	5000	96	90 - 110	P	03/13/2025	15:38	LB135035
	Lead	5050	5000	101	90 - 110	P	03/13/2025	15:38	LB135035
	Selenium	4830	5000	97	90 - 110	P	03/13/2025	15:38	LB135035
CCV05	Arsenic	5250	5000	105	90 - 110	P	03/13/2025	16:28	LB135035
	Cadmium	2630	2500	105	90 - 110	P	03/13/2025	16:28	LB135035
	Chromium	1070	1000	107	90 - 110	P	03/13/2025	16:28	LB135035
	Copper	1300	1250	104	90 - 110	P	03/13/2025	16:28	LB135035
	Iron	5120	5000	102	90 - 110	P	03/13/2025	16:28	LB135035
	Lead	5300	5000	106	90 - 110	P	03/13/2025	16:28	LB135035

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Selenium	5150	5000	103	90 - 110	P	03/13/2025	16:28	LB135035
CCV06	Arsenic	5070	5000	101	90 - 110	P	03/13/2025	17:21	LB135035
	Cadmium	2570	2500	103	90 - 110	P	03/13/2025	17:21	LB135035
	Chromium	1060	1000	106	90 - 110	P	03/13/2025	17:21	LB135035
	Copper	1270	1250	102	90 - 110	P	03/13/2025	17:21	LB135035
	Iron	5040	5000	101	90 - 110	P	03/13/2025	17:21	LB135035
	Lead	5180	5000	104	90 - 110	P	03/13/2025	17:21	LB135035
	Selenium	4970	5000	100	90 - 110	P	03/13/2025	17:21	LB135035
CCV07	Arsenic	5250	5000	105	90 - 110	P	03/13/2025	18:12	LB135035
	Cadmium	2640	2500	106	90 - 110	P	03/13/2025	18:12	LB135035
	Chromium	1090	1000	109	90 - 110	P	03/13/2025	18:12	LB135035
	Copper	1310	1250	105	90 - 110	P	03/13/2025	18:12	LB135035
	Iron	5150	5000	103	90 - 110	P	03/13/2025	18:12	LB135035
	Lead	5330	5000	107	90 - 110	P	03/13/2025	18:12	LB135035
	Selenium	5180	5000	104	90 - 110	P	03/13/2025	18:12	LB135035
CCV08	Arsenic	4950	5000	99	90 - 110	P	03/13/2025	18:53	LB135035
	Cadmium	2510	2500	100	90 - 110	P	03/13/2025	18:53	LB135035
	Chromium	1040	1000	104	90 - 110	P	03/13/2025	18:53	LB135035
	Copper	1240	1250	99	90 - 110	P	03/13/2025	18:53	LB135035
	Iron	4880	5000	98	90 - 110	P	03/13/2025	18:53	LB135035
	Lead	5060	5000	101	90 - 110	P	03/13/2025	18:53	LB135035
	Selenium	4840	5000	97	90 - 110	P	03/13/2025	18:53	LB135035
CCV09	Arsenic	5280	5000	106	90 - 110	P	03/13/2025	19:12	LB135035
	Cadmium	2550	2500	102	90 - 110	P	03/13/2025	19:12	LB135035
	Chromium	1070	1000	107	90 - 110	P	03/13/2025	19:12	LB135035
	Copper	1290	1250	103	90 - 110	P	03/13/2025	19:12	LB135035
	Iron	5230	5000	105	90 - 110	P	03/13/2025	19:12	LB135035
	Lead	5120	5000	102	90 - 110	P	03/13/2025	19:12	LB135035
	Selenium	5440	5000	109	90 - 110	P	03/13/2025	19:12	LB135035

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1020	1000	102	95 - 105	P	03/17/2025	14:31	LB135063
	Cadmium	504	510	99	95 - 105	P	03/17/2025	14:31	LB135063
	Chromium	529	520	102	95 - 105	P	03/17/2025	14:31	LB135063
	Copper	528	510	104	95 - 105	P	03/17/2025	14:31	LB135063
	Iron	10100	10000	101	95 - 105	P	03/17/2025	14:31	LB135063
	Lead	996	1000	100	95 - 105	P	03/17/2025	14:31	LB135063
	Selenium	1050	1000	105	95 - 105	P	03/17/2025	14:31	LB135063

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	19.4	20.0	97	80 - 120	P	03/17/2025	14:38	LB135063
	Cadmium	5.89	6.0	98	80 - 120	P	03/17/2025	14:38	LB135063
	Chromium	10.3	10.0	103	80 - 120	P	03/17/2025	14:38	LB135063
	Copper	22.1	20.0	110	80 - 120	P	03/17/2025	14:38	LB135063
	Iron	99.8	100	100	80 - 120	P	03/17/2025	14:38	LB135063
	Lead	12.3	12.0	103	80 - 120	P	03/17/2025	14:38	LB135063
	Selenium	18.2	20.0	91	80 - 120	P	03/17/2025	14:38	LB135063

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5160	5000	103	90 - 110	P	03/17/2025	15:15	LB135063
	Cadmium	2510	2500	100	90 - 110	P	03/17/2025	15:15	LB135063
	Chromium	1030	1000	103	90 - 110	P	03/17/2025	15:15	LB135063
	Copper	1270	1250	102	90 - 110	P	03/17/2025	15:15	LB135063
	Iron	5180	5000	104	90 - 110	P	03/17/2025	15:15	LB135063
	Lead	5080	5000	102	90 - 110	P	03/17/2025	15:15	LB135063
	Selenium	5080	5000	102	90 - 110	P	03/17/2025	15:15	LB135063
CCV02	Arsenic	5220	5000	104	90 - 110	P	03/17/2025	16:13	LB135063
	Cadmium	2500	2500	100	90 - 110	P	03/17/2025	16:13	LB135063
	Chromium	1040	1000	104	90 - 110	P	03/17/2025	16:13	LB135063
	Copper	1280	1250	102	90 - 110	P	03/17/2025	16:13	LB135063
	Iron	5090	5000	102	90 - 110	P	03/17/2025	16:13	LB135063
	Lead	5070	5000	101	90 - 110	P	03/17/2025	16:13	LB135063
	Selenium	5140	5000	103	90 - 110	P	03/17/2025	16:13	LB135063
CCV03	Arsenic	5320	5000	106	90 - 110	P	03/17/2025	17:05	LB135063
	Cadmium	2570	2500	103	90 - 110	P	03/17/2025	17:05	LB135063
	Chromium	1090	1000	109	90 - 110	P	03/17/2025	17:05	LB135063
	Copper	1310	1250	104	90 - 110	P	03/17/2025	17:05	LB135063
	Iron	5130	5000	103	90 - 110	P	03/17/2025	17:05	LB135063
	Lead	5200	5000	104	90 - 110	P	03/17/2025	17:05	LB135063
	Selenium	5220	5000	104	90 - 110	P	03/17/2025	17:05	LB135063
CCV04	Arsenic	5020	5000	100	90 - 110	P	03/17/2025	17:51	LB135063
	Cadmium	2390	2500	96	90 - 110	P	03/17/2025	17:51	LB135063
	Chromium	1010	1000	101	90 - 110	P	03/17/2025	17:51	LB135063
	Copper	1230	1250	98	90 - 110	P	03/17/2025	17:51	LB135063
	Iron	4880	5000	98	90 - 110	P	03/17/2025	17:51	LB135063
	Lead	4870	5000	97	90 - 110	P	03/17/2025	17:51	LB135063
	Selenium	4900	5000	98	90 - 110	P	03/17/2025	17:51	LB135063
CCV05	Arsenic	5050	5000	101	90 - 110	P	03/17/2025	18:18	LB135063
	Cadmium	2390	2500	96	90 - 110	P	03/17/2025	18:18	LB135063
	Chromium	1020	1000	102	90 - 110	P	03/17/2025	18:18	LB135063
	Copper	1240	1250	99	90 - 110	P	03/17/2025	18:18	LB135063
	Iron	4960	5000	99	90 - 110	P	03/17/2025	18:18	LB135063
	Lead	4870	5000	97	90 - 110	P	03/17/2025	18:18	LB135063

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Selenium	4960	5000	99	90 - 110	P	03/17/2025	18:18	LB135063

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CRDL STANDARD FOR AA & ICP

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Arsenic	19.0	20.0	95	40 - 160	P	03/11/2025	11:02	LB134987
	Cadmium	5.81	6.0	97	40 - 160	P	03/11/2025	11:02	LB134987
	Chromium	9.83	10.0	98	40 - 160	P	03/11/2025	11:02	LB134987
	Copper	22.1	20.0	110	40 - 160	P	03/11/2025	11:02	LB134987
	Iron	89.9	100	90	40 - 160	P	03/11/2025	11:02	LB134987
	Lead	11.9	12.0	99	40 - 160	P	03/11/2025	11:02	LB134987
	Selenium	21.9	20.0	110	40 - 160	P	03/11/2025	11:02	LB134987
CRI01	Arsenic	21.2	20.0	106	40 - 160	P	03/13/2025	12:21	LB135035
	Cadmium	5.90	6.0	98	40 - 160	P	03/13/2025	12:21	LB135035
	Chromium	10.4	10.0	104	40 - 160	P	03/13/2025	12:21	LB135035
	Copper	23.1	20.0	116	40 - 160	P	03/13/2025	12:21	LB135035
	Iron	110	100	110	40 - 160	P	03/13/2025	12:21	LB135035
	Lead	11.7	12.0	98	40 - 160	P	03/13/2025	12:21	LB135035
	Selenium	21.3	20.0	107	40 - 160	P	03/13/2025	12:21	LB135035
CRI01	Arsenic	19.6	20.0	98	40 - 160	P	03/17/2025	14:47	LB135063
	Cadmium	5.88	6.0	98	40 - 160	P	03/17/2025	14:47	LB135063
	Chromium	10.3	10.0	103	40 - 160	P	03/17/2025	14:47	LB135063
	Copper	22.2	20.0	111	40 - 160	P	03/17/2025	14:47	LB135063
	Iron	98.2	100	98	40 - 160	P	03/17/2025	14:47	LB135063
	Lead	12.6	12.0	105	40 - 160	P	03/17/2025	14:47	LB135063
	Selenium	18.9	20.0	94	40 - 160	P	03/17/2025	14:47	LB135063

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	10:58	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	10:58	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	10:58	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	10:58	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	10:58	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	10:58	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	10:58	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	11:34	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	11:34	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	11:34	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	11:34	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	11:34	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	11:34	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	11:34	LB134987
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	12:23	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	12:23	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	12:23	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	12:23	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	12:23	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	12:23	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	12:23	LB134987
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	13:14	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	13:14	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	13:14	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	13:14	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	13:14	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	13:14	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	13:14	LB134987
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	14:13	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	14:13	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	14:13	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	14:13	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	14:13	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	14:13	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	14:13	LB134987
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	15:04	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	15:04	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	15:04	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	15:04	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	15:04	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	15:04	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	15:04	LB134987
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	15:54	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	15:54	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	15:54	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	15:54	LB134987

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	03/11/2025	15:54	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	15:54	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	15:54	LB134987
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	16:46	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	16:46	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	16:46	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	16:46	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	16:46	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	16:46	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	16:46	LB134987
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	17:38	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	17:38	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	17:38	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	17:38	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	17:38	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	17:38	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	17:38	LB134987
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	18:30	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	18:30	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	18:30	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	18:30	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	18:30	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	18:30	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	18:30	LB134987
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	19:18	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	19:18	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	19:18	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	19:18	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	19:18	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	19:18	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	19:18	LB134987
CCB11	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	19:31	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	19:31	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	19:31	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	19:31	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	19:31	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	19:31	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	19:31	LB134987
CCB12	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	19:49	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB12	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	19:49	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	19:49	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	19:49	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	19:49	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	19:49	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	19:49	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	12:17	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	12:17	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	12:17	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	12:17	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	12:17	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	12:17	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	12:17	LB135035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	12:58	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	12:58	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	12:58	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	12:58	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	12:58	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	12:58	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	12:58	LB135035
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	13:54	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	13:54	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	13:54	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	13:54	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	13:54	LB135035
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	14:48	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	14:48	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	14:48	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	14:48	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	14:48	LB135035
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	15:42	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	15:42	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	15:42	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	15:42	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	15:42	LB135035
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	16:32	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	16:32	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	16:32	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	16:32	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	16:32	LB135035
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	17:25	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	17:25	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	03/13/2025	17:25	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	17:25	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	17:25	LB135035
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	18:35	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	18:35	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
	Iron	45.6	+/-100	J	100	P	03/13/2025	18:35	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	18:35	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	18:35	LB135035
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	19:03	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	19:03	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	19:03	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	19:03	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	19:03	LB135035
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035
	Cadmium	6.00	+/-6.00	U	6.00	P	03/13/2025	19:21	LB135035
	Chromium	10.0	+/-10.0	U	10.0	P	03/13/2025	19:21	LB135035
	Copper	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035
	Iron	100	+/-100	U	100	P	03/13/2025	19:21	LB135035
	Lead	12.0	+/-12.0	U	12.0	P	03/13/2025	19:21	LB135035
	Selenium	20.0	+/-20.0	U	20.0	P	03/13/2025	19:21	LB135035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/17/2025	14:43	LB135063
	Cadmium	6.00	+/-6.00	U	6.00	P	03/17/2025	14:43	LB135063
	Chromium	10.0	+/-10.0	U	10.0	P	03/17/2025	14:43	LB135063
	Copper	20.0	+/-20.0	U	20.0	P	03/17/2025	14:43	LB135063
	Iron	100	+/-100	U	100	P	03/17/2025	14:43	LB135063
	Lead	12.0	+/-12.0	U	12.0	P	03/17/2025	14:43	LB135063
	Selenium	20.0	+/-20.0	U	20.0	P	03/17/2025	14:43	LB135063

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	03/17/2025	15:27	LB135063
	Cadmium	6.00	+/-6.00	U	6.00	P	03/17/2025	15:27	LB135063
	Chromium	10.0	+/-10.0	U	10.0	P	03/17/2025	15:27	LB135063
	Copper	20.0	+/-20.0	U	20.0	P	03/17/2025	15:27	LB135063
	Iron	100	+/-100	U	100	P	03/17/2025	15:27	LB135063
	Lead	12.0	+/-12.0	U	12.0	P	03/17/2025	15:27	LB135063
	Selenium	20.0	+/-20.0	U	20.0	P	03/17/2025	15:27	LB135063
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	03/17/2025	16:17	LB135063
	Cadmium	6.00	+/-6.00	U	6.00	P	03/17/2025	16:17	LB135063
	Chromium	10.0	+/-10.0	U	10.0	P	03/17/2025	16:17	LB135063
	Copper	20.0	+/-20.0	U	20.0	P	03/17/2025	16:17	LB135063
	Iron	100	+/-100	U	100	P	03/17/2025	16:17	LB135063
	Lead	12.0	+/-12.0	U	12.0	P	03/17/2025	16:17	LB135063
	Selenium	20.0	+/-20.0	U	20.0	P	03/17/2025	16:17	LB135063
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	03/17/2025	17:09	LB135063
	Cadmium	6.00	+/-6.00	U	6.00	P	03/17/2025	17:09	LB135063
	Chromium	10.0	+/-10.0	U	10.0	P	03/17/2025	17:09	LB135063
	Copper	20.0	+/-20.0	U	20.0	P	03/17/2025	17:09	LB135063
	Iron	100	+/-100	U	100	P	03/17/2025	17:09	LB135063
	Lead	12.0	+/-12.0	U	12.0	P	03/17/2025	17:09	LB135063
	Selenium	20.0	+/-20.0	U	20.0	P	03/17/2025	17:09	LB135063
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	03/17/2025	17:55	LB135063
	Cadmium	6.00	+/-6.00	U	6.00	P	03/17/2025	17:55	LB135063
	Chromium	10.0	+/-10.0	U	10.0	P	03/17/2025	17:55	LB135063
	Copper	20.0	+/-20.0	U	20.0	P	03/17/2025	17:55	LB135063
	Iron	100	+/-100	U	100	P	03/17/2025	17:55	LB135063
	Lead	12.0	+/-12.0	U	12.0	P	03/17/2025	17:55	LB135063
	Selenium	20.0	+/-20.0	U	20.0	P	03/17/2025	17:55	LB135063
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	03/17/2025	18:22	LB135063
	Cadmium	6.00	+/-6.00	U	6.00	P	03/17/2025	18:22	LB135063
	Chromium	10.0	+/-10.0	U	10.0	P	03/17/2025	18:22	LB135063
	Copper	20.0	+/-20.0	U	20.0	P	03/17/2025	18:22	LB135063
	Iron	100	+/-100	U	100	P	03/17/2025	18:22	LB135063
	Lead	12.0	+/-12.0	U	12.0	P	03/17/2025	18:22	LB135063
	Selenium	20.0	+/-20.0	U	20.0	P	03/17/2025	18:22	LB135063

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number

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PREPARATION BLANK SUMMARY

Client: Tully Environmental, Inc **SDG No.:** Q1495

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167007BL		**WATER**		**Batch Number:**	**PB167007**		**Prep Date:**	**03/06/2025**	
	Arsenic	10.0	<10.0	U	10.0	P	03/17/2025	15:31	LB135063
	Cadmium	3.00	<3.00	U	3.00	P	03/17/2025	15:31	LB135063
	Chromium	5.00	<5.00	U	5.00	P	03/17/2025	15:31	LB135063
	Copper	10.0	<10.0	U	10.0	P	03/17/2025	15:31	LB135063
	Iron	50.0	<50.0	U	50.0	P	03/17/2025	15:31	LB135063
	Lead	6.00	<6.00	U	6.00	P	03/17/2025	15:31	LB135063
	Selenium	10.0	<10.0	U	10.0	P	03/17/2025	15:31	LB135063

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INTERFERENCE CHECK SAMPLE

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	6.46			-20	20	03/11/2025	11:06	LB134987
	Cadmium	-2.31	1.0	231	-5	7	03/11/2025	11:06	LB134987
	Chromium	58.2	52.0	112	42	62	03/11/2025	11:06	LB134987
	Copper	6.76	2.0	338	-18	22	03/11/2025	11:06	LB134987
	Iron	102000	101000	101	85600	116500	03/11/2025	11:06	LB134987
	Lead	3.81			-12	12	03/11/2025	11:06	LB134987
	Selenium	-16.3			-20	20	03/11/2025	11:06	LB134987
ICSAB01	Arsenic	114	104	110	88.4	120	03/11/2025	11:11	LB134987
	Cadmium	1020	972	105	826	1120	03/11/2025	11:11	LB134987
	Chromium	567	542	105	460	624	03/11/2025	11:11	LB134987
	Copper	507	511	99	434	588	03/11/2025	11:11	LB134987
	Iron	97400	99300	98	84400	114500	03/11/2025	11:11	LB134987
	Lead	55.7	49.0	114	37	61	03/11/2025	11:11	LB134987
	Selenium	32.4	46.0	70	26	66	03/11/2025	11:11	LB134987
ICSA	Arsenic	-14.8			-20	20	03/11/2025	11:15	LB134987
	Cadmium	-2.80	1.0	280	-5	7	03/11/2025	11:15	LB134987
	Chromium	54.3	52.0	104	42	62	03/11/2025	11:15	LB134987
	Copper	2.78	2.0	139	-18	22	03/11/2025	11:15	LB134987
	Iron	101000	101000	100	85600	116500	03/11/2025	11:15	LB134987
	Lead	-10.6			-12	12	03/11/2025	11:15	LB134987
	Selenium	11.4			-20	20	03/11/2025	11:15	LB134987
ICSAB	Arsenic	77.1	104	74	88.4	120	03/11/2025	11:19	LB134987
	Cadmium	1020	972	105	826	1120	03/11/2025	11:19	LB134987
	Chromium	596	542	110	460	624	03/11/2025	11:19	LB134987
	Copper	543	511	106	434	588	03/11/2025	11:19	LB134987
	Iron	96400	99300	97	84400	114500	03/11/2025	11:19	LB134987
	Lead	71.4	49.0	146	37	61	03/11/2025	11:19	LB134987
	Selenium	32.7	46.0	71	26	66	03/11/2025	11:19	LB134987
ICSA01	Arsenic	4.32			-20	20	03/13/2025	12:25	LB135035
	Cadmium	-3.11	1.0	311	-5	7	03/13/2025	12:25	LB135035
	Chromium	60.0	52.0	115	42	62	03/13/2025	12:25	LB135035
	Copper	10.4	2.0	519	-18	22	03/13/2025	12:25	LB135035
	Iron	103000	101000	102	85600	116500	03/13/2025	12:25	LB135035
	Lead	4.72			-12	12	03/13/2025	12:25	LB135035
	Selenium	-15.2			-20	20	03/13/2025	12:25	LB135035
ICSAB01	Arsenic	113	104	109	88.4	120	03/13/2025	12:30	LB135035
	Cadmium	1000	972	103	826	1120	03/13/2025	12:30	LB135035
	Chromium	564	542	104	460	624	03/13/2025	12:30	LB135035
	Copper	504	511	99	434	588	03/13/2025	12:30	LB135035
	Iron	100000	99300	101	84400	114500	03/13/2025	12:30	LB135035
	Lead	54.2	49.0	111	37	61	03/13/2025	12:30	LB135035

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INTERFERENCE CHECK SAMPLE

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Selenium	43.0	46.0	94	26	66	03/13/2025	12:30	LB135035
ICSA	Arsenic	-26.0			-20	20	03/13/2025	12:34	LB135035
	Cadmium	-2.02	1.0	202	-5	7	03/13/2025	12:34	LB135035
	Chromium	53.3	52.0	102	42	62	03/13/2025	12:34	LB135035
	Copper	5.12	2.0	256	-18	22	03/13/2025	12:34	LB135035
	Iron	92100	101000	91	85600	116500	03/13/2025	12:34	LB135035
	Lead	1.40			-12	12	03/13/2025	12:34	LB135035
	Selenium	42.2			-20	20	03/13/2025	12:34	LB135035
ICSAB	Arsenic	110	104	106	88.4	120	03/13/2025	12:38	LB135035
	Cadmium	1050	972	108	826	1120	03/13/2025	12:38	LB135035
	Chromium	631	542	116	460	624	03/13/2025	12:38	LB135035
	Copper	569	511	111	434	588	03/13/2025	12:38	LB135035
	Iron	101000	99300	102	84400	114500	03/13/2025	12:38	LB135035
	Lead	55.2	49.0	113	37	61	03/13/2025	12:38	LB135035
	Selenium	109	46.0	237	26	66	03/13/2025	12:38	LB135035
ICSA01	Arsenic	4.68			-20	20	03/17/2025	14:51	LB135063
	Cadmium	-4.02	1.0	402	-5	7	03/17/2025	14:51	LB135063
	Chromium	60.2	52.0	116	42	62	03/17/2025	14:51	LB135063
	Copper	17.5	2.0	875	-18	22	03/17/2025	14:51	LB135063
	Iron	101000	101000	100	85600	116500	03/17/2025	14:51	LB135063
	Lead	7.22			-12	12	03/17/2025	14:51	LB135063
	Selenium	-0.91			-20	20	03/17/2025	14:51	LB135063
ICSAB01	Arsenic	95.9	104	92	88.4	120	03/17/2025	15:02	LB135063
	Cadmium	1030	972	106	826	1120	03/17/2025	15:02	LB135063
	Chromium	588	542	108	460	624	03/17/2025	15:02	LB135063
	Copper	534	511	104	434	588	03/17/2025	15:02	LB135063
	Iron	100000	99300	101	84400	114500	03/17/2025	15:02	LB135063
	Lead	58.7	49.0	120	37	61	03/17/2025	15:02	LB135063
	Selenium	57.1	46.0	124	26	66	03/17/2025	15:02	LB135063
ICSA	Arsenic	-2.46			-20	20	03/17/2025	15:06	LB135063
	Cadmium	-5.42	1.0	542	-5	7	03/17/2025	15:06	LB135063
	Chromium	56.1	52.0	108	42	62	03/17/2025	15:06	LB135063
	Copper	16.6	2.0	830	-18	22	03/17/2025	15:06	LB135063
	Iron	101000	101000	100	85600	116500	03/17/2025	15:06	LB135063
	Lead	2.47			-12	12	03/17/2025	15:06	LB135063
	Selenium	-47.6			-20	20	03/17/2025	15:06	LB135063
ICSAB	Arsenic	89.4	104	86	88.4	120	03/17/2025	15:11	LB135063
	Cadmium	1020	972	105	826	1120	03/17/2025	15:11	LB135063
	Chromium	601	542	111	460	624	03/17/2025	15:11	LB135063
	Copper	556	511	109	434	588	03/17/2025	15:11	LB135063

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INTERFERENCE CHECK SAMPLE

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB	Iron	104000	99300	105	84400	114500	03/17/2025	15:11	LB135063
	Lead	65.6	49.0	134	37	61	03/17/2025	15:11	LB135063
	Selenium	16.0	46.0	35	26	66	03/17/2025	15:11	LB135063

METAL
QC
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MATRIX SPIKE SUMMARY

client: Tully Environmental, Inc **level:** low **sdg no.:** Q1495

contract: TULL01 **lab code:** CHEM **case no.:** Q1495 **sas no.:** Q1495

matrix: Water **sample id:** Q1499-01 **client id:** 402MS

Percent Solids for Sample: NA **Spiked ID:** Q1499-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	422		10.0	U	400	106		P
Cadmium	ug/L	75 - 125	99.6		3.00	U	100	100		P
Chromium	ug/L	75 - 125	195		5.00	U	200	98		P
Copper	ug/L	75 - 125	150		10.0	U	150	100		P
Iron	ug/L	75 - 125	1400		50.0	U	1500	93		P
Lead	ug/L	75 - 125	485		6.00	U	500	97		P
Selenium	ug/L	75 - 125	997		10.0	U	1000	100		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Tully Environmental, Inc **level:** low **sdg no.:** Q1495

contract: TULL01 **lab code:** CHEM **case no.:** Q1495 **sas no.:** Q1495

matrix: Water **sample id:** Q1499-01 **client id:** 402MSD

Percent Solids for Sample: NA **Spiked ID:** Q1499-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	421		10.0	U	400	105		P
Cadmium	ug/L	75 - 125	99.3		3.00	U	100	99		P
Chromium	ug/L	75 - 125	191		5.00	U	200	96		P
Copper	ug/L	75 - 125	150		10.0	U	150	100		P
Iron	ug/L	75 - 125	1510		50.0	U	1500	101		P
Lead	ug/L	75 - 125	481		6.00	U	500	96		P
Selenium	ug/L	75 - 125	994		10.0	U	1000	99		P

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Metals
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Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

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DUPLICATE SAMPLE SUMMARY

Client: Tully Environmental, Inc **Level:** LOW **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Matrix: Water **Sample ID:** Q1499-01 **Client ID:** 402DUP

Percent Solids for Sample: NA **Duplicate ID** Q1499-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	10.0	U	10.0	U			P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Chromium	ug/L	20	5.00	U	5.00	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	50.0	U	50.0	U			P
Lead	ug/L	20	6.00	U	6.00	U			P
Selenium	ug/L	20	10.0	U	10.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Tully Environmental, Inc **Level:** LOW **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Matrix: Water **Sample ID:** Q1499-01MS **Client ID:** 402MSD

Percent Solids for Sample: NA **Duplicate ID** Q1499-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	422		421		0		P
Cadmium	ug/L	20	99.6		99.3		0		P
Chromium	ug/L	20	195		191		2		P
Copper	ug/L	20	150		150		0		P
Iron	ug/L	20	1400		1510		8		P
Lead	ug/L	20	485		481		1		P
Selenium	ug/L	20	997		994		0		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167007BS							
Arsenic	ug/L	400	398		100	85 - 115	P
Cadmium	ug/L	100	96.5		96	85 - 115	P
Chromium	ug/L	200	206		103	85 - 115	P
Copper	ug/L	150	156		104	85 - 115	P
Iron	ug/L	1500	1510		101	85 - 115	P
Lead	ug/L	500	482		96	85 - 115	P
Selenium	ug/L	1000	995		100	85 - 115	P

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ICP SERIAL DILUTIONS

SAMPLE NO.

402L

Lab Name: Chemtech Consulting Group **Contract:** TULL01

Lab Code: CHEM **Lb No.:** lb134987 **Lab Sample ID :** Q1499-01L **SDG No.:** Q1495

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	10.0	U	50.0	U			P
Cadmium	3.00	U	15.0	U			P
Chromium	5.00	U	25.0	U			P
Copper	10.0	U	50.0	U			P
Iron	50.0	U	250	U			P
Lead	6.00	U	30.0	U			P
Selenium	10.0	U	50.0	U			P

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Case No.:** Q1495 **SAS No.:** Q1495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Tully Environmental, Inc **SDG No.:** Q1495

Contract: TULL01 **Lab Code:** CHEM **Method:**

Case No.: Q1495 **SAS No.:** Q1495

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167007**						
PB167007BL	PB167007BL	MB	WATER	03/06/2025	50.0	25.0	
PB167007BS	PB167007BS	LCS	WATER	03/06/2025	50.0	25.0	
Q1495-01	001-WILLETS-PT-BLVD(MAR)	SAM	WATER	03/06/2025	50.0	25.0	
Q1495-02	002-35TH-AVE(MAR)	SAM	WATER	03/06/2025	50.0	25.0	
Q1499-01DUP	402DUP	DUP	WATER	03/06/2025	50.0	25.0	
Q1499-01MS	402MS	MS	WATER	03/06/2025	50.0	25.0	
Q1499-01MSD	402MSD	MSD	WATER	03/06/2025	50.0	25.0	

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ANALYSIS RUN LOG

Client: Tully Environmental, Inc **Contract:** TULL01

Lab code: CHEM **Case no.:** Q1495 **Sas no.:** Q1495 **Sdg no.:** Q1495

Instrument id number: **Method:** **Run number:** LB134987

Start date: 03/11/2025 **End date:** 03/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1019	As,Cd,Cr,Cu,Fe,Pb,Se
S1	S1	1	1024	As,Cd,Cr,Cu,Fe,Pb,Se
S2	S2	1	1028	As,Cd,Cr,Cu,Fe,Pb,Se
S3	S3	1	1032	As,Cd,Cr,Cu,Fe,Pb,Se
S4	S4	1	1036	As,Cd,Cr,Cu,Fe,Pb,Se
S5	S5	1	1041	As,Cd,Cr,Cu,Fe,Pb,Se
ICV01	ICV01	1	1050	As,Cd,Cr,Cu,Fe,Pb,Se
LLICV01	LLICV01	1	1054	As,Cd,Cr,Cu,Fe,Pb,Se
ICB01	ICB01	1	1058	As,Cd,Cr,Cu,Fe,Pb,Se
CRI01	CRI01	1	1102	As,Cd,Cr,Cu,Fe,Pb,Se
ICSA01	ICSA01	1	1106	As,Cd,Cr,Cu,Fe,Pb,Se
ICSAB01	ICSAB01	1	1111	As,Cd,Cr,Cu,Fe,Pb,Se
ICSA	ICSA	20	1115	As,Cd,Cr,Cu,Fe,Pb,Se
ICSAB	ICSAB	20	1119	As,Cd,Cr,Cu,Fe,Pb,Se
CCV01	CCV01	1	1129	As,Cd,Cr,Cu,Fe,Pb,Se
CCB01	CCB01	1	1134	As,Cd,Cr,Cu,Fe,Pb,Se
CCV02	CCV02	1	1219	As,Cd,Cr,Cu,Fe,Pb,Se
CCB02	CCB02	1	1223	As,Cd,Cr,Cu,Fe,Pb,Se
CCV03	CCV03	1	1310	As,Cd,Cr,Cu,Fe,Pb,Se
CCB03	CCB03	1	1314	As,Cd,Cr,Cu,Fe,Pb,Se
CCV04	CCV04	1	1408	As,Cd,Cr,Cu,Fe,Pb,Se
CCB04	CCB04	1	1413	As,Cd,Cr,Cu,Fe,Pb,Se
Q1499-01DUP	402DUP	1	1417	As,Cd,Cr,Cu,Fe,Pb,Se
Q1499-01L	402L	5	1421	As,Cd,Cr,Cu,Fe,Pb,Se
Q1499-01MS	402MS	1	1426	As,Cd,Cr,Cu,Fe,Pb,Se
Q1499-01MSD	402MSD	1	1430	As,Cd,Cr,Cu,Fe,Pb,Se
CCV05	CCV05	1	1500	As,Cd,Cr,Cu,Fe,Pb,Se
CCB05	CCB05	1	1504	As,Cd,Cr,Cu,Fe,Pb,Se
CCV06	CCV06	1	1550	As,Cd,Cr,Cu,Fe,Pb,Se
CCB06	CCB06	1	1554	As,Cd,Cr,Cu,Fe,Pb,Se
CCV07	CCV07	1	1642	As,Cd,Cr,Cu,Fe,Pb,Se
CCB07	CCB07	1	1646	As,Cd,Cr,Cu,Fe,Pb,Se
CCV08	CCV08	1	1734	As,Cd,Cr,Cu,Fe,Pb,Se
CCB08	CCB08	1	1738	As,Cd,Cr,Cu,Fe,Pb,Se
CCV09	CCV09	1	1826	As,Cd,Cr,Cu,Fe,Pb,Se
CCB09	CCB09	1	1830	As,Cd,Cr,Cu,Fe,Pb,Se
CCV10	CCV10	1	1914	As,Cd,Cr,Cu,Fe,Pb,Se
CCB10	CCB10	1	1918	As,Cd,Cr,Cu,Fe,Pb,Se
CCV11	CCV11	1	1926	As,Cd,Cr,Cu,Fe,Pb,Se
CCB11	CCB11	1	1931	As,Cd,Cr,Cu,Fe,Pb,Se
CCV12	CCV12	1	1939	As,Cd,Cr,Cu,Fe,Pb,Se

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

metals
- 14 -
ANALYSIS RUN LOG

Client: Tully Environmental, Inc **Contract:** TULL01

Lab code: CHEM **Case no.:** Q1495 **Sas no.:** Q1495 **Sdg no.:** Q1495

Instrument id number: **Method:** **Run number:** LB134987

Start date: 03/11/2025 **End date:** 03/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB12	CCB12	1	1949	As,Cd,Cr,Cu,Fe,Pb,Se

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metals
- 14 -
ANALYSIS RUN LOG

Client: Tully Environmental, Inc **Contract:** TULL01

Lab code: CHEM **Case no.:** Q1495 **Sas no.:** Q1495 **Sdg no.:** Q1495

Instrument id number: **Method:** **Run number:** LB135035

Start date: 03/13/2025 **End date:** 03/13/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1142	As,Cd,Cr,Cu,Fe,Pb,Se
S1	S1	1	1146	As,Cd,Cr,Cu,Fe,Pb,Se
S2	S2	1	1150	As,Cd,Cr,Cu,Fe,Pb,Se
S3	S3	1	1154	As,Cd,Cr,Cu,Fe,Pb,Se
S4	S4	1	1159	As,Cd,Cr,Cu,Fe,Pb,Se
S5	S5	1	1203	As,Cd,Cr,Cu,Fe,Pb,Se
ICV01	ICV01	1	1207	As,Cd,Cr,Cu,Fe,Pb,Se
LLICV01	LLICV01	1	1213	As,Cd,Cr,Cu,Fe,Pb,Se
ICB01	ICB01	1	1217	As,Cd,Cr,Cu,Fe,Pb,Se
CRI01	CRI01	1	1221	As,Cd,Cr,Cu,Fe,Pb,Se
ICSA01	ICSA01	1	1225	As,Cd,Cr,Cu,Fe,Pb,Se
ICSAB01	ICSAB01	1	1230	As,Cd,Cr,Cu,Fe,Pb,Se
ICSA	ICSA	20	1234	As,Cd,Cr,Cu,Fe,Pb,Se
ICSAB	ICSAB	20	1238	As,Cd,Cr,Cu,Fe,Pb,Se
CCV01	CCV01	1	1253	As,Cd,Cr,Cu,Fe,Pb,Se
CCB01	CCB01	1	1258	As,Cd,Cr,Cu,Fe,Pb,Se
CCV02	CCV02	1	1349	As,Cd,Cr,Cu,Fe,Pb,Se
CCB02	CCB02	1	1354	As,Cd,Cr,Cu,Fe,Pb,Se
CCV03	CCV03	1	1440	As,Cd,Cr,Cu,Fe,Pb,Se
CCB03	CCB03	1	1448	As,Cd,Cr,Cu,Fe,Pb,Se
Q1495-01	001-WILLETS-PT-BLVD(MAR	1	1453	As,Cd,Cr,Cu,Fe,Pb,Se
Q1495-02	002-35TH-AVE(MAR)	1	1457	As,Cd,Cr,Cu,Fe,Pb,Se
CCV04	CCV04	1	1538	As,Cd,Cr,Cu,Fe,Pb,Se
CCB04	CCB04	1	1542	As,Cd,Cr,Cu,Fe,Pb,Se
CCV05	CCV05	1	1628	As,Cd,Cr,Cu,Fe,Pb,Se
CCB05	CCB05	1	1632	As,Cd,Cr,Cu,Fe,Pb,Se
CCV06	CCV06	1	1721	As,Cd,Cr,Cu,Fe,Pb,Se
CCB06	CCB06	1	1725	As,Cd,Cr,Cu,Fe,Pb,Se
CCV07	CCV07	1	1812	As,Cd,Cr,Cu,Fe,Pb,Se
CCB07	CCB07	1	1835	As,Cd,Cr,Cu,Fe,Pb,Se
CCV08	CCV08	1	1853	As,Cd,Cr,Cu,Fe,Pb,Se
CCB08	CCB08	1	1903	As,Cd,Cr,Cu,Fe,Pb,Se
CCV09	CCV09	1	1912	As,Cd,Cr,Cu,Fe,Pb,Se
CCB09	CCB09	1	1921	As,Cd,Cr,Cu,Fe,Pb,Se

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metals
- 14 -
ANALYSIS RUN LOG

Client: Tully Environmental, Inc **Contract:** TULL01

Lab code: CHEM **Case no.:** Q1495 **Sas no.:** Q1495 **Sdg no.:** Q1495

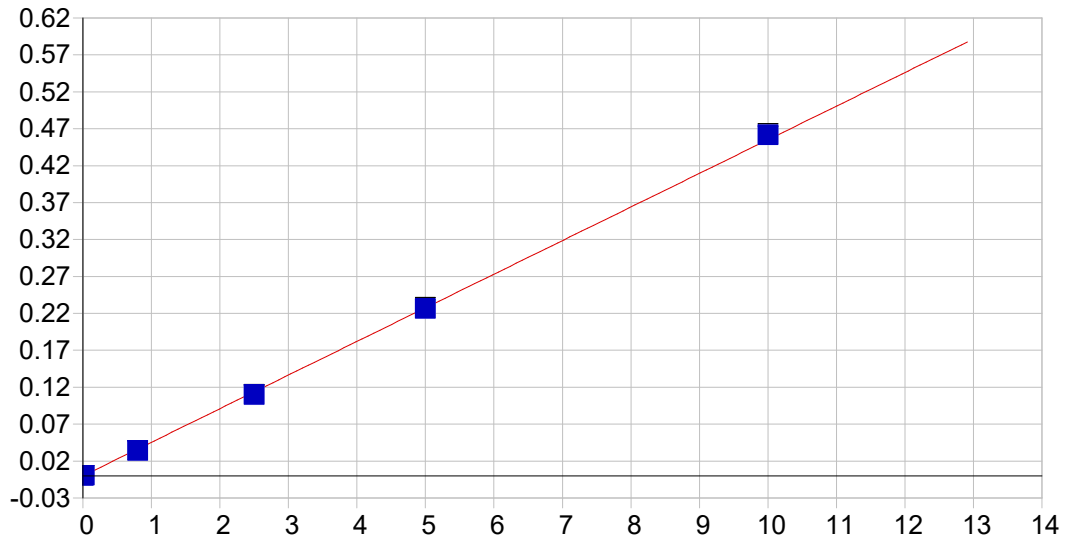
Instrument id number: **Method:** **Run number:** LB135063

Start date: 03/17/2025 **End date:** 03/17/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1405	As,Cd,Cr,Cu,Fe,Pb,Se
S1	S1	1	1409	As,Cd,Cr,Cu,Fe,Pb,Se
S2	S2	1	1414	As,Cd,Cr,Cu,Fe,Pb,Se
S3	S3	1	1418	As,Cd,Cr,Cu,Fe,Pb,Se
S4	S4	1	1422	As,Cd,Cr,Cu,Fe,Pb,Se
S5	S5	1	1427	As,Cd,Cr,Cu,Fe,Pb,Se
ICV01	ICV01	1	1431	As,Cd,Cr,Cu,Fe,Pb,Se
LLICV01	LLICV01	1	1438	As,Cd,Cr,Cu,Fe,Pb,Se
ICB01	ICB01	1	1443	As,Cd,Cr,Cu,Fe,Pb,Se
CRI01	CRI01	1	1447	As,Cd,Cr,Cu,Fe,Pb,Se
ICSA01	ICSA01	1	1451	As,Cd,Cr,Cu,Fe,Pb,Se
ICSAB01	ICSAB01	1	1502	As,Cd,Cr,Cu,Fe,Pb,Se
ICSA	ICSA	20	1506	As,Cd,Cr,Cu,Fe,Pb,Se
ICSAB	ICSAB	20	1511	As,Cd,Cr,Cu,Fe,Pb,Se
CCV01	CCV01	1	1515	As,Cd,Cr,Cu,Fe,Pb,Se
CCB01	CCB01	1	1527	As,Cd,Cr,Cu,Fe,Pb,Se
PB167007BL	PB167007BL	1	1531	As,Cd,Cr,Cu,Fe,Pb,Se
PB167007BS	PB167007BS	1	1535	As,Cd,Cr,Cu,Fe,Pb,Se
CCV02	CCV02	1	1613	As,Cd,Cr,Cu,Fe,Pb,Se
CCB02	CCB02	1	1617	As,Cd,Cr,Cu,Fe,Pb,Se
CCV03	CCV03	1	1705	As,Cd,Cr,Cu,Fe,Pb,Se
CCB03	CCB03	1	1709	As,Cd,Cr,Cu,Fe,Pb,Se
CCV04	CCV04	1	1751	As,Cd,Cr,Cu,Fe,Pb,Se
CCB04	CCB04	1	1755	As,Cd,Cr,Cu,Fe,Pb,Se
CCV05	CCV05	1	1818	As,Cd,Cr,Cu,Fe,Pb,Se
CCB05	CCB05	1	1822	As,Cd,Cr,Cu,Fe,Pb,Se

METAL
RAW DATA

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



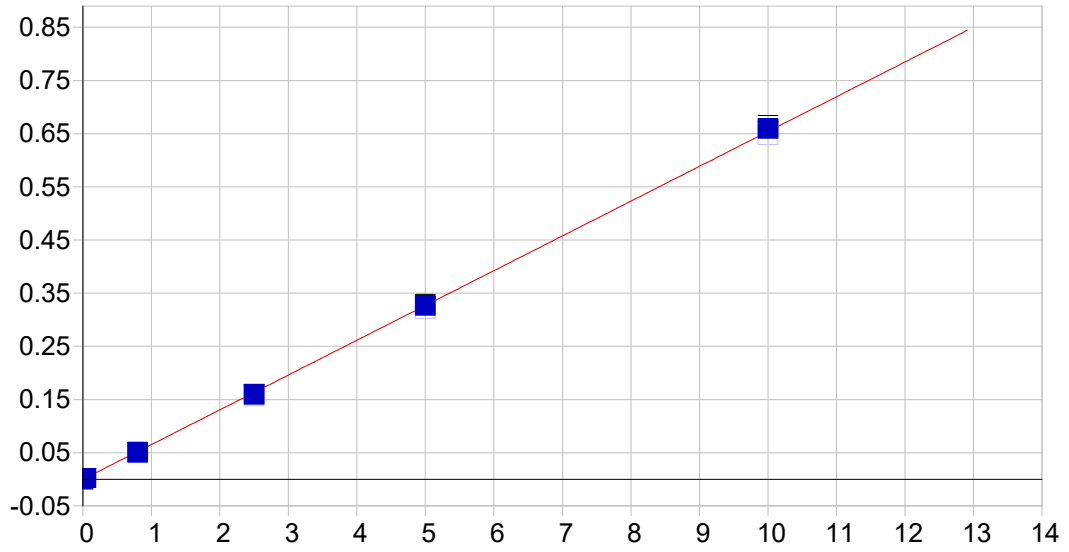
As 189.042 {479}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000077	Re-Slope:	1.000000
A1 (Gain):	0.045516	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999770	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.002482		
Predicted MQL:	0.008275		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00008	.000	1
S1	.02000	.02228	.002	11.4	.00093	.000	1
S3	2.5000	2.4141	-.086	-3.44	.10968	.000	1
S4	5.0000	4.9828	-.017	-.343	.22648	.001	1
S5	10.000	10.149	.149	1.49	.46138	.002	1
S2	.80000	.75168	-.048	-6.04	.03410	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



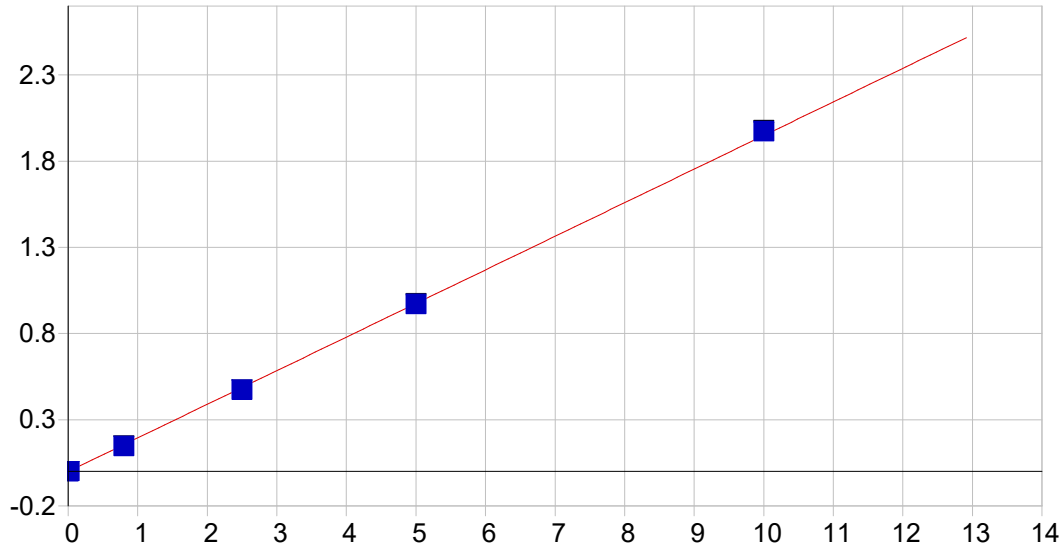
Tl 190.856 {477}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000058	Re-Slope:	1.000000
A1 (Gain):	0.065408	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.001631		
Predicted MQL:	0.005438		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00006	.000	1
S1	.04000	.03922	-.001	-1.95	.00234	.000	1
S3	2.5000	2.4421	-.058	-2.31	.15667	.001	1
S4	5.0000	4.9987	-.001	-.026	.32087	.002	1
S5	10.000	10.087	.087	.866	.64764	.006	1
S2	.80000	.77332	-.027	-3.33	.04956	.001	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



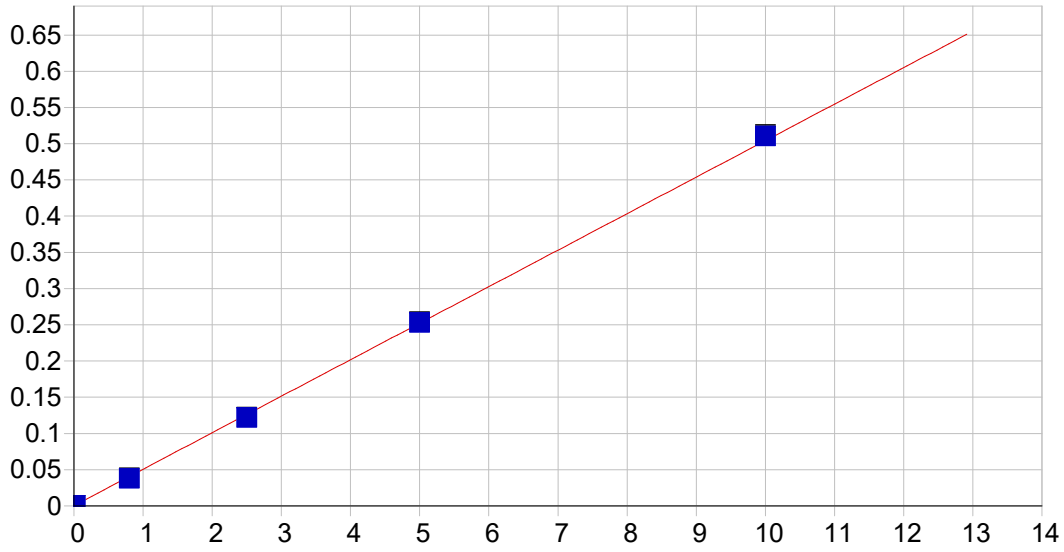
Pb 220.353 {453}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000194	Re-Slope:	1.000000
A1 (Gain):	0.194915	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999841	Status:	OK.
Std Error of Est:	0.000063		
Predicted MDL:	0.001331		
Predicted MQL:	0.004436		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00019	.000	1
S1	.01200	.01081	-.001	-9.90	.00187	.000	1
S3	2.5000	2.4305	-.069	-2.78	.47302	.001	1
S4	5.0000	4.9836	-.016	-.328	.97011	.003	1
S5	10.000	10.128	.128	1.28	1.9717	.006	1
S2	.80000	.75917	-.041	-5.10	.14761	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



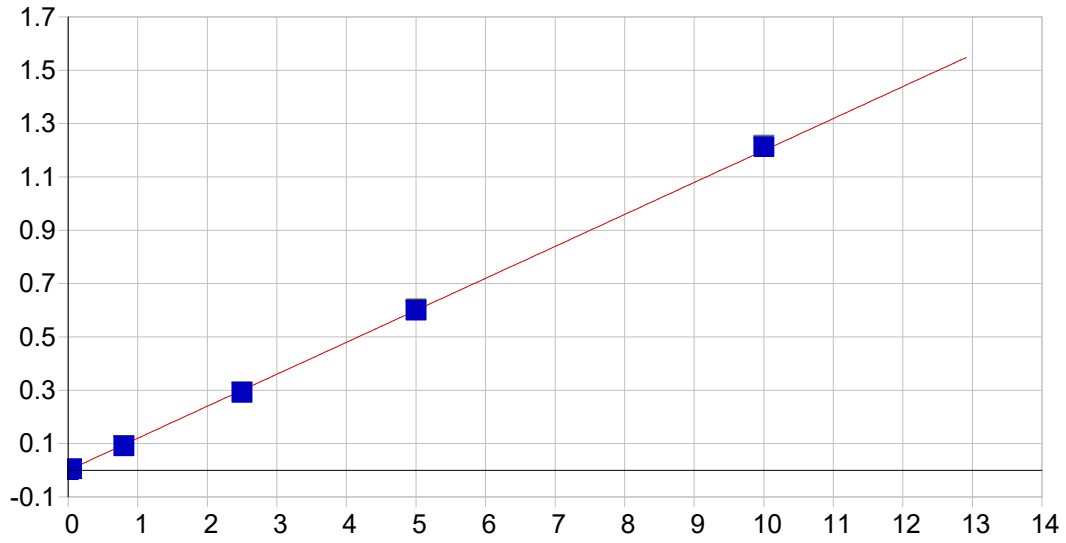
Se 196.090 {472}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000240	Re-Slope:	1.000000
A1 (Gain):	0.050398	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999787	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.002727		
Predicted MQL:	0.009089		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00024	.000	1
S1	.02000	.01767	-.002	-11.6	.00113	.000	1
S3	2.5000	2.4109	-.089	-3.56	.12170	.001	1
S4	5.0000	5.0150	.015	.300	.25290	.001	1
S5	10.000	10.124	.124	1.24	.51027	.002	1
S2	.80000	.75277	-.047	-5.90	.03816	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



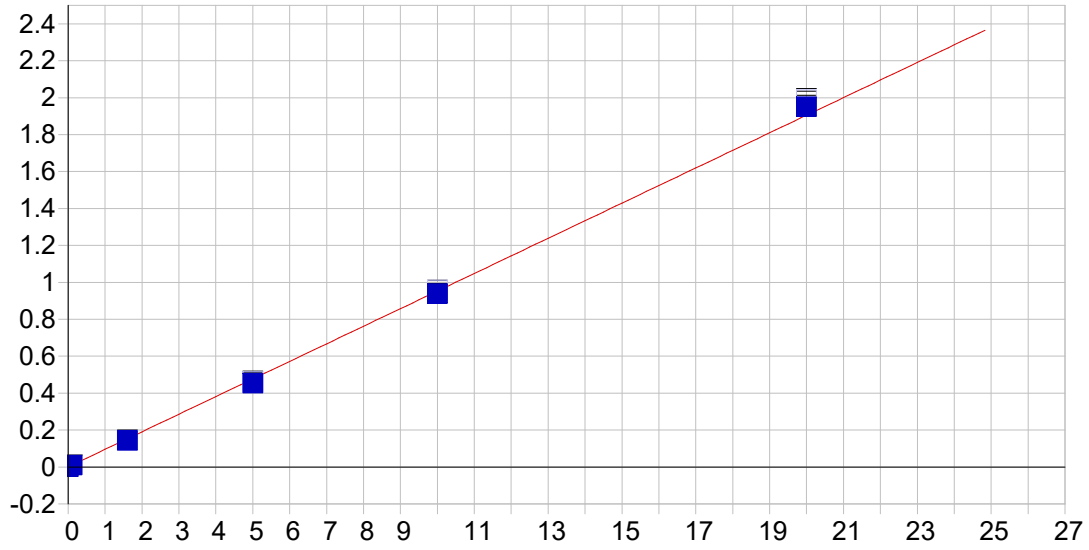
Sb 206.833 {463}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000227	Re-Slope:	1.000000
A1 (Gain):	0.119871	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999850	Status:	OK.
Std Error of Est:	0.000077		
Predicted MDL:	0.001719		
Predicted MQL:	0.005732		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00023	.000	1
S1	.05000	.04980	-.000	-.394	.00621	.000	1
S3	2.5000	2.4292	-.071	-2.83	.29224	.002	1
S4	5.0000	4.9981	-.002	-.038	.60098	.003	1
S5	10.000	10.115	.115	1.15	1.2160	.003	1
S2	.80000	.75797	-.042	-5.25	.09135	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



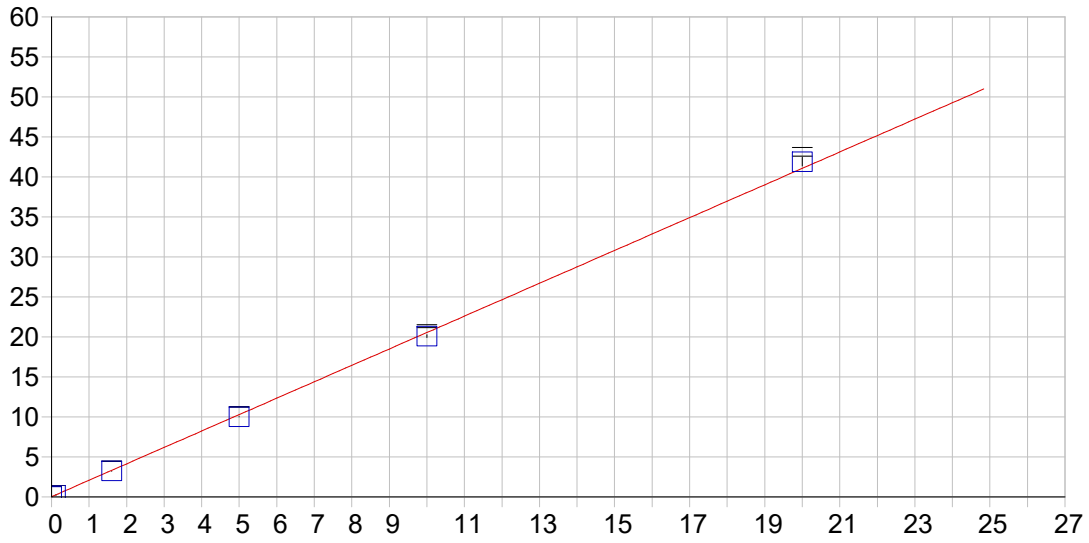
Al 396.152 { 85}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000294	Re-Slope:	1.000000
A1 (Gain):	0.095238	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999565	Status:	OK.
Std Error of Est:	0.000212		
Predicted MDL:	0.005074		
Predicted MQL:	0.016913		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00029	.000	1
S1	.10000	.10652	.007	6.52	.01118	.000	1
S3	5.0000	4.7577	-.242	-4.85	.46265	.003	1
S4	10.000	9.8550	-.145	-1.45	.95734	.001	1
S5	20.000	20.487	.487	2.43	1.9884	.007	1
S2	1.6000	1.4934	-.107	-6.66	.14548	.001	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



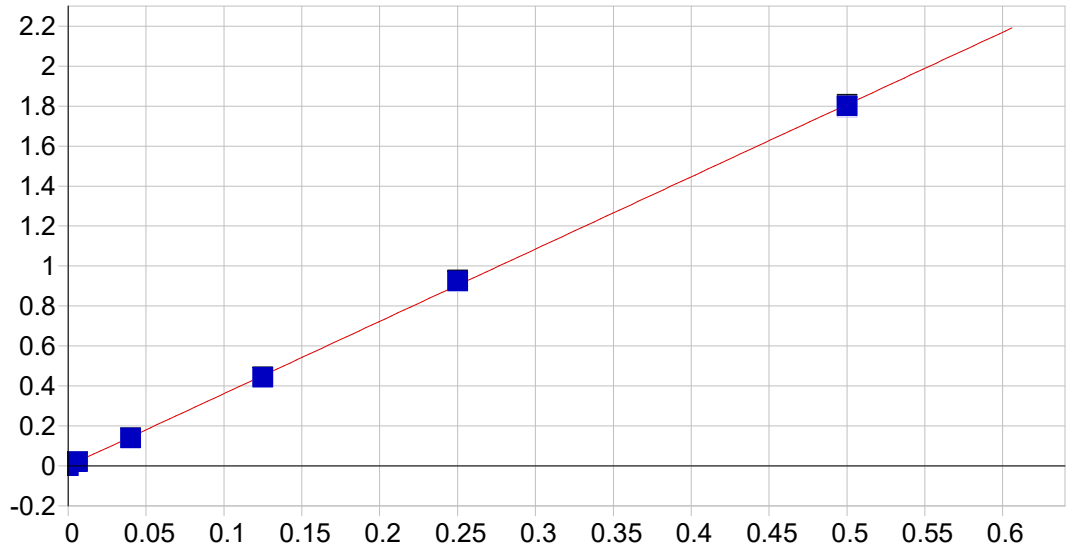
Ba 493.409 { 68}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.032922	Re-Slope:	1.000000
A1 (Gain):	2.051702	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999753	Status:	OK.
Std Error of Est:	0.003382		
Predicted MDL:	0.000841		
Predicted MQL:	0.002804		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.03295	.001	1
S1	.10000	.09426	-.006	-5.74	.22632	.002	1
S3	5.0000	4.8635	-.136	-2.73	10.011	.024	1
S4	10.000	9.7800	-.220	-2.20	20.098	.191	1
S5	20.000	20.404	.404	2.02	41.896	.543	1
S2	1.6000	1.5584	-.042	-2.60	3.2303	.014	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



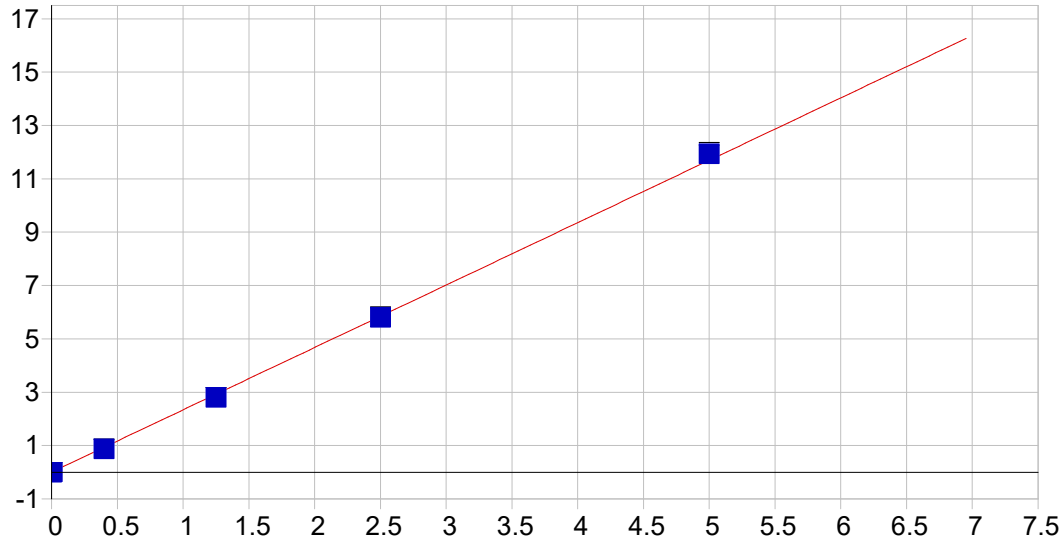
Be 234.861 {144}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000029	Re-Slope:	1.000000
A1 (Gain):	3.615806	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999862	Status:	OK.
Std Error of Est:	0.000172		
Predicted MDL:	0.000049		
Predicted MQL:	0.000162		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00003	.000	1
S1	.00600	.00569	-.000	-5.20	.02043	.000	1
S3	.12500	.12262	-.002	-1.90	.44139	.002	1
S4	.25000	.25591	.006	2.36	.92130	.005	1
S5	.50000	.49808	-.002	-.383	1.7929	.008	1
S2	.04000	.03869	-.001	-3.26	.13929	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



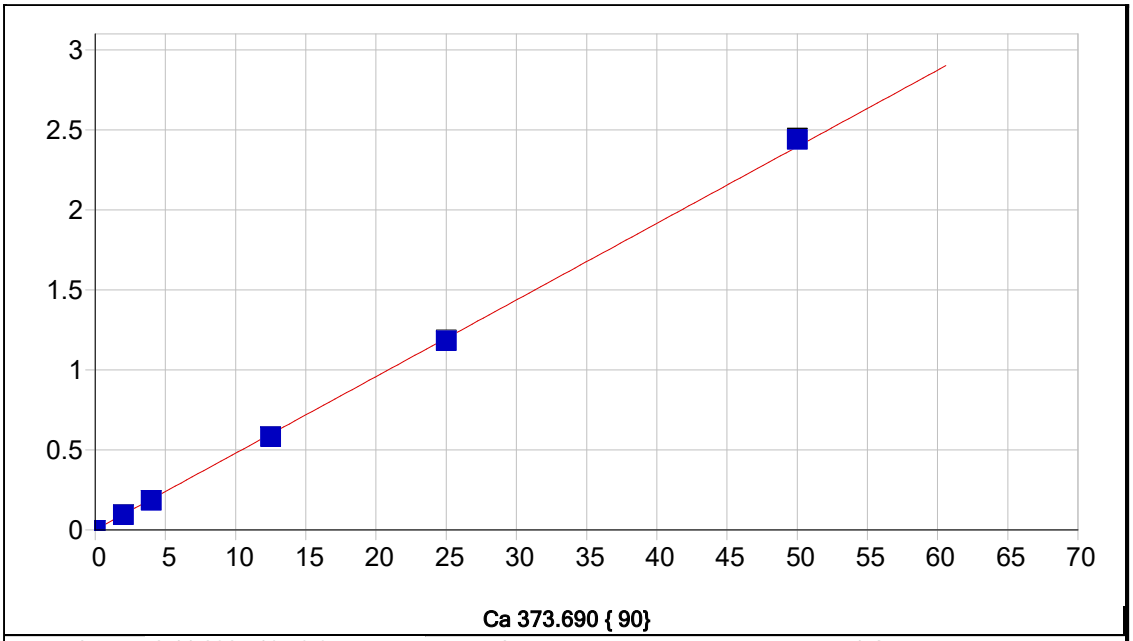
Cd 226.502 {449}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000169	Re-Slope:	1.000000
A1 (Gain):	2.339246	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999642	Status:	OK.
Std Error of Est:	0.000569		
Predicted MDL:	0.000077		
Predicted MQL:	0.000255		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00017	.000	1
S1	.00600	.00560	-.000	-6.71	.01300	.000	1
S3	1.2500	1.1978	-.052	-4.17	2.8044	.004	1
S4	2.5000	2.4814	-.019	-.744	5.8096	.018	1
S5	5.0000	5.1008	.101	2.02	11.942	.047	1
S2	.40000	.37036	-.030	-7.41	.86703	.003	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



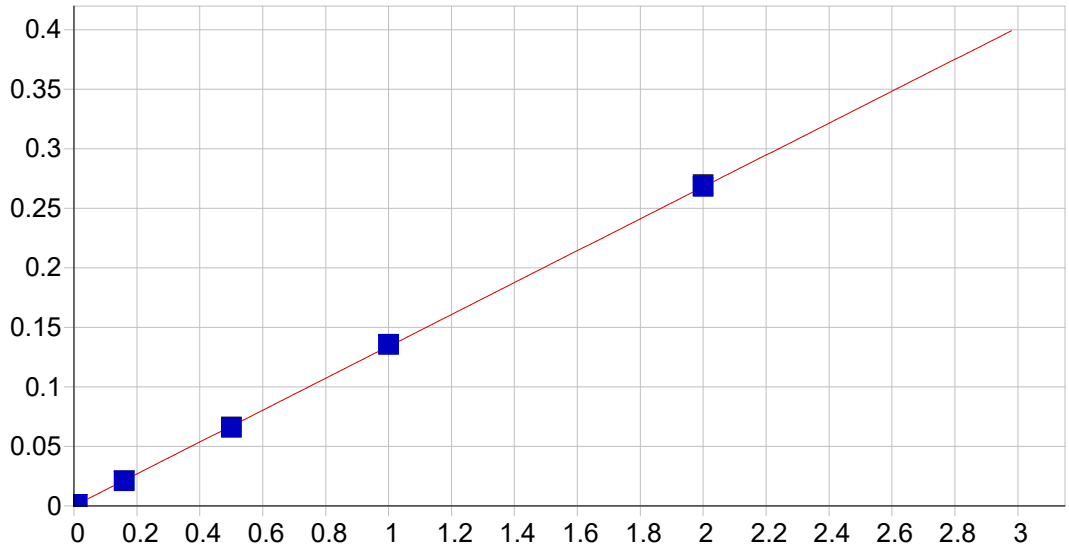
Ca 373.690 { 90}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000760	Re-Slope:	1.000000
A1 (Gain):	0.047874	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999777	Status:	OK.
Std Error of Est:	0.000535		
Predicted MDL:	0.008094		
Predicted MQL:	0.026979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00019	.000	.000	.00077	.000	1
S2	4.0000	3.8267	-.173	-4.33	.18396	.001	1
S3	12.500	12.136	-.364	-2.92	.58174	.002	1
S4	25.000	24.663	-.337	-1.35	1.1815	.004	1
S5	50.000	50.932	.932	1.86	2.4391	.008	1
S1	2.0000	1.9427	-.057	-2.86	.09377	.001	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



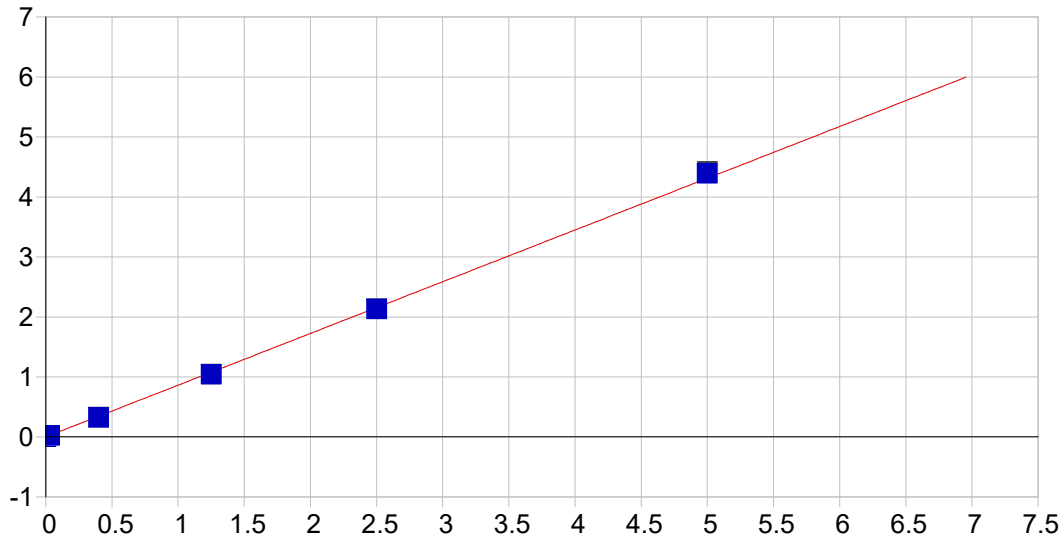
Cr 267.716 {126}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000071	Re-Slope:	1.000000
A1 (Gain):	0.133986	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.000436		
Predicted MQL:	0.001452		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00007	.000	1
S1	.01000	.00958	-.000	-4.23	.00136	.000	1
S3	.50000	.49190	-.008	-1.62	.06600	.000	1
S4	1.0000	1.0105	.010	1.05	.13550	.000	1
S5	2.0000	2.0026	.003	.130	.26847	.001	1
S2	.16000	.15547	-.005	-2.83	.02091	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



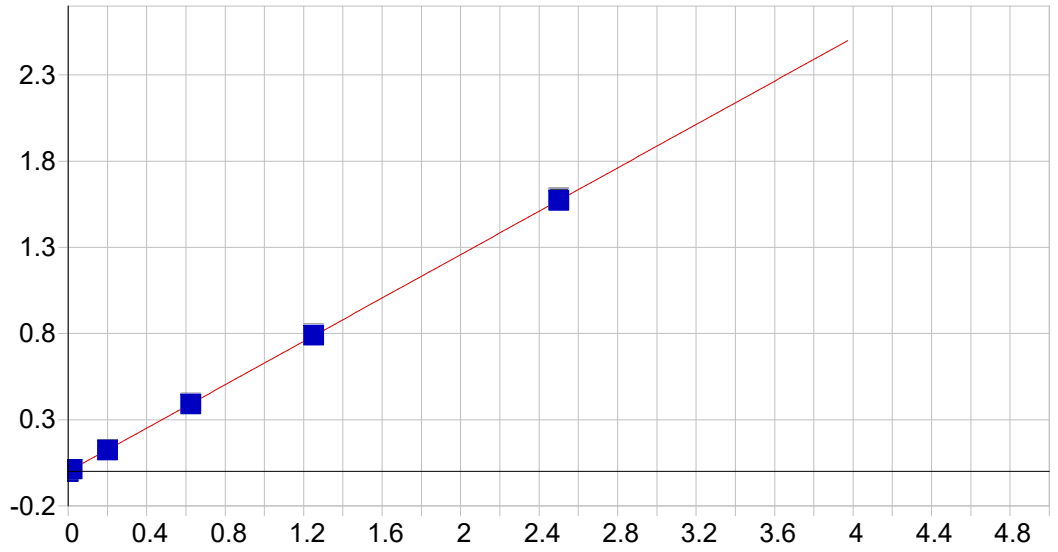
Co 228.616 {448}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000009	Re-Slope:	1.000000
A1 (Gain):	0.862143	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999725	Status:	OK.
Std Error of Est:	0.000412		
Predicted MDL:	0.000220		
Predicted MQL:	0.000734		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00001	.000	1
S1	.03000	.02840	-.002	-5.33	.02437	.000	1
S3	1.2500	1.2067	-.043	-3.46	1.0422	.002	1
S4	2.5000	2.4739	-.026	-1.05	2.1365	.007	1
S5	5.0000	5.0948	.095	1.90	4.3997	.017	1
S2	.40000	.37619	-.024	-5.95	.32491	.001	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



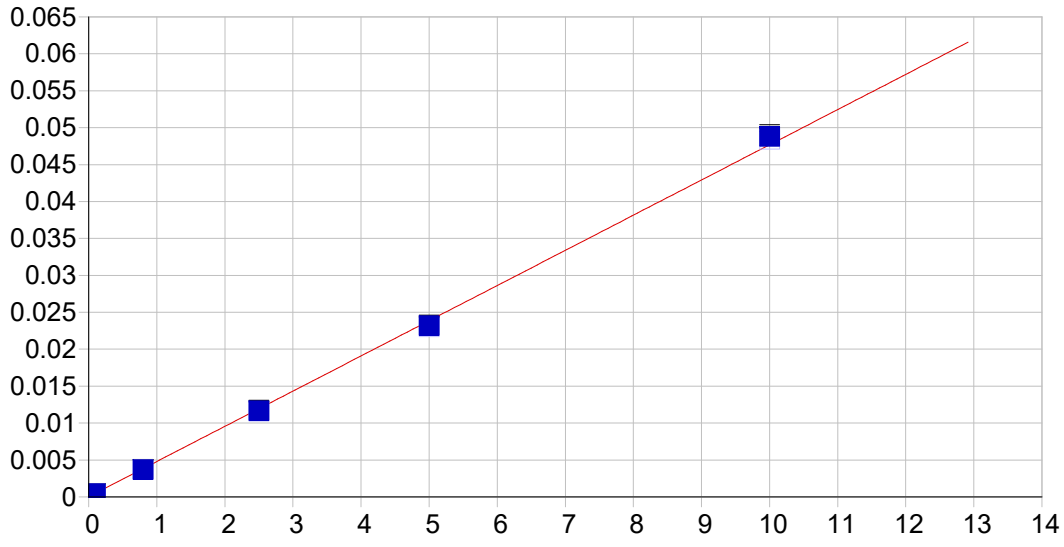
Cu 224.700 {450}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000452	Re-Slope:	1.000000
A1 (Gain):	0.629173	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999982	Status:	OK.
Std Error of Est:	0.000045		
Predicted MDL:	0.000389		
Predicted MQL:	0.001297		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00045	.000	1
S1	.02000	.02153	.002	7.64	.01322	.000	1
S3	.62500	.62254	-.002	-.394	.39402	.001	1
S4	1.2500	1.2547	.005	.379	.79457	.003	1
S5	2.5000	2.4985	-.001	-.059	1.5827	.004	1
S2	.20000	.19768	-.002	-1.16	.12482	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



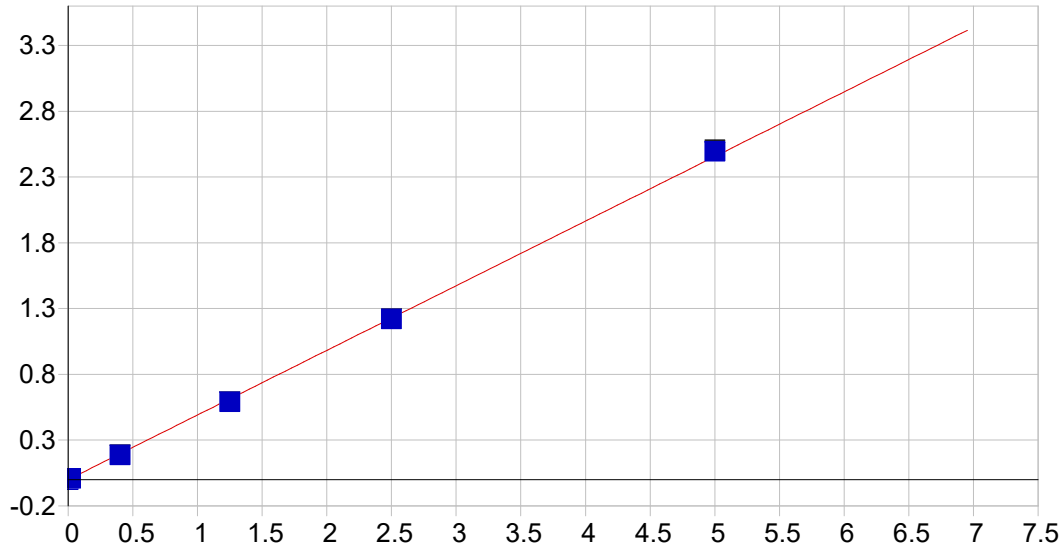
Fe 240.488 {140}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000029	Re-Slope:	1.000000
A1 (Gain):	0.004765	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999635	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.004137		
Predicted MQL:	0.013791		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00003	.000	1
S1	.10000	.08851	-.011	-11.5	.00044	.000	1
S3	2.5000	2.4420	-.058	-2.32	.01156	.000	1
S4	5.0000	4.8620	-.138	-2.76	.02300	.000	1
S5	10.000	10.237	.237	2.37	.04841	.000	1
S2	.80000	.77036	-.030	-3.71	.00367	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



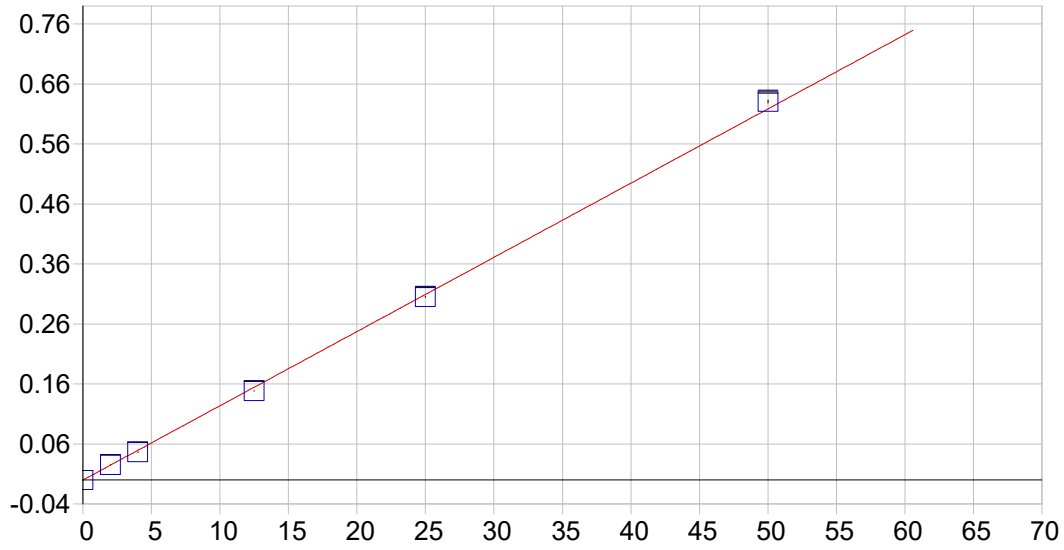
Mn 257.610 {131}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000057	Re-Slope:	1.000000
A1 (Gain):	0.491289	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999777	Status:	OK.
Std Error of Est:	0.000172		
Predicted MDL:	0.000306		
Predicted MQL:	0.001019		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00006	.000	1
S1	.02000	.01999	-.000	-.030	.00977	.000	1
S3	1.2500	1.2036	-.046	-3.71	.59139	.002	1
S4	2.5000	2.4851	-.015	-.597	1.2211	.001	1
S5	5.0000	5.0810	.081	1.62	2.4967	.008	1
S2	.40000	.38029	-.020	-4.93	.18682	.001	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



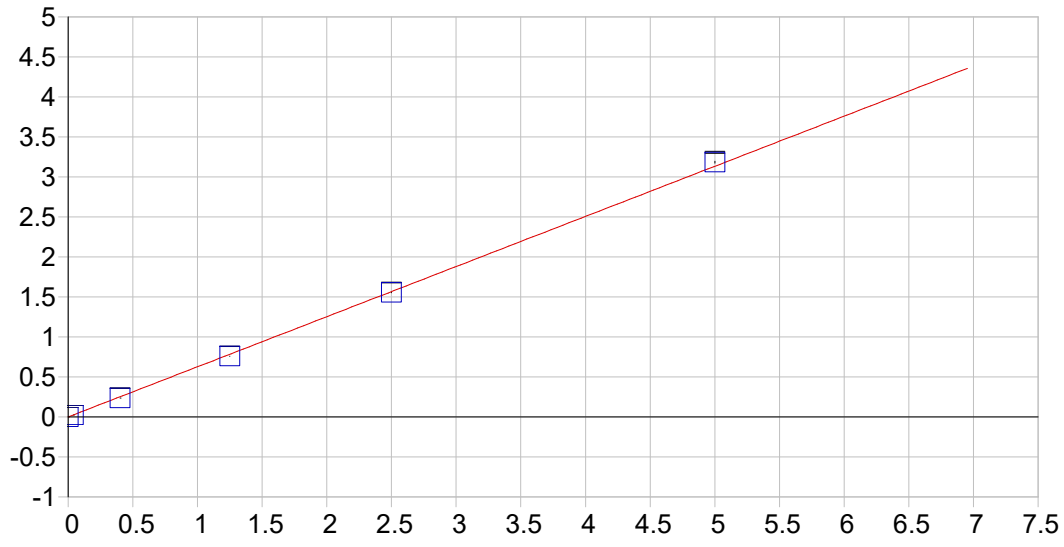
Mg 279.079 {121}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000228	Re-Slope:	1.000000
A1 (Gain):	0.012374	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999684	Status:	OK.
Std Error of Est:	0.000165		
Predicted MDL:	0.013109		
Predicted MQL:	0.043697		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00012	.000	.000	-.00023	.000	1
S2	4.0000	3.7792	-.221	-5.52	.04654	.000	1
S3	12.500	11.986	-.514	-4.11	.14809	.001	1
S4	25.000	24.680	-.320	-1.28	.30517	.001	1
S5	50.000	50.992	.992	1.98	.63075	.003	1
S1	2.0000	2.0628	.063	3.14	.02530	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



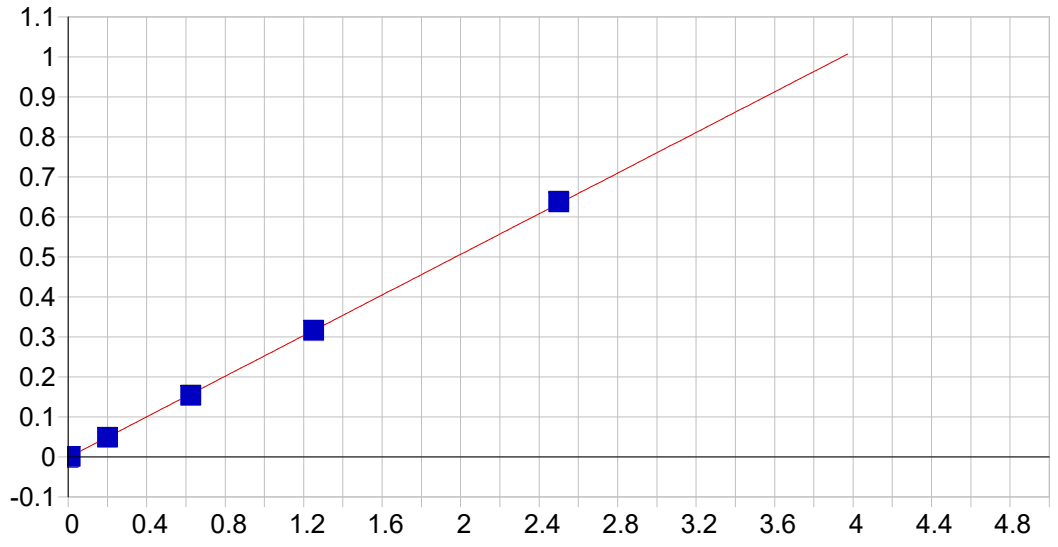
Ni 231.604 {446}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000124	Re-Slope:	1.000000
A1 (Gain):	0.626521	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999756	Status:	OK.
Std Error of Est:	0.000325		
Predicted MDL:	0.000284		
Predicted MQL:	0.000945		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00013	.000	1
S1	.04000	.03731	-.003	-6.72	.02350	.000	1
S3	1.2500	1.2100	-.040	-3.20	.75822	.002	1
S4	2.5000	2.4835	-.016	-.659	1.5561	.004	1
S5	5.0000	5.0837	.084	1.67	3.1852	.012	1
S2	.40000	.37544	-.025	-6.14	.23535	.001	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



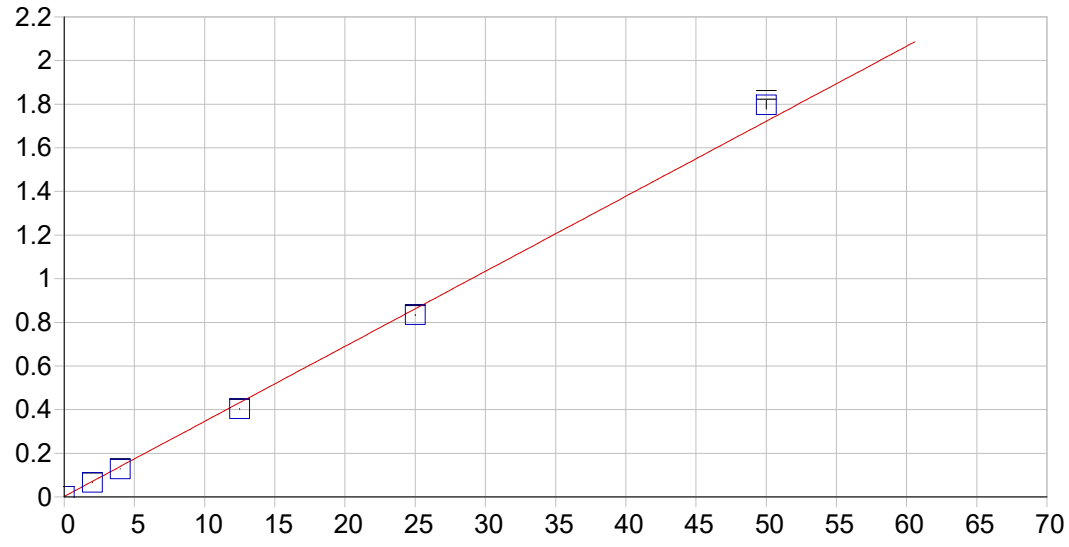
Ag 328.068 {103}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001364	Re-Slope:	1.000000
A1 (Gain):	0.253879	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	0.000324		
Predicted MQL:	0.001079		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00136	.000	1
S1	.01000	.01000	-.000	-.030	.00116	.000	1
S3	.62500	.61054	-.014	-2.31	.15301	.001	1
S4	1.2500	1.2500	-.000	-.003	.31472	.001	1
S5	2.5000	2.5171	.017	.685	.63516	.001	1
S2	.20000	.19736	-.003	-1.32	.04854	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



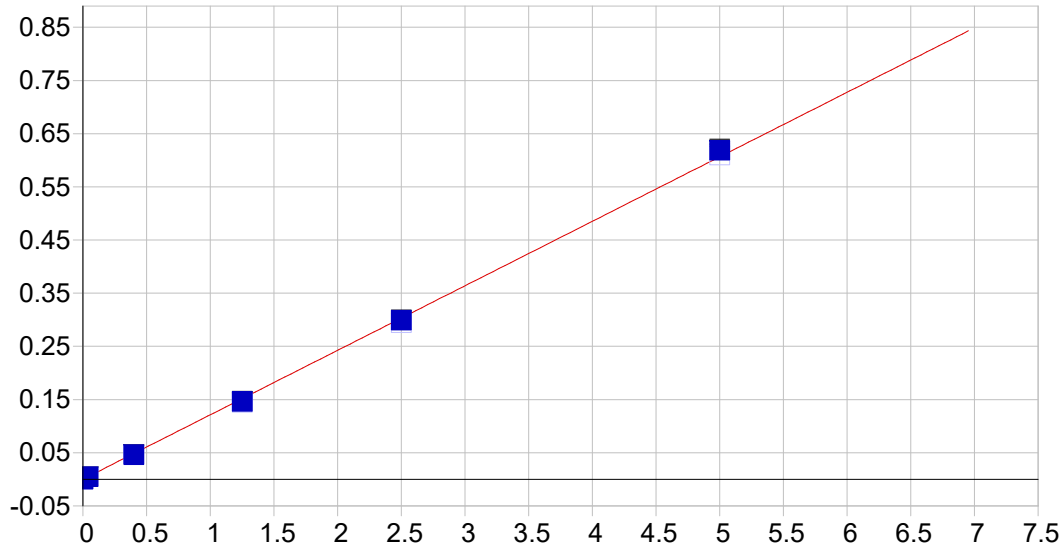
Na 589.592 { 57}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002468	Re-Slope:	1.000000
A1 (Gain):	0.034384	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998790	Status:	OK.
Std Error of Est:	0.000896		
Predicted MDL:	0.008082		
Predicted MQL:	0.026941		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00046	.000	.000	.00248	.000	1
S2	4.0000	3.6482	-.352	-8.79	.12791	.000	1
S3	12.500	11.640	-.860	-6.88	.40270	.002	1
S4	25.000	24.189	-.811	-3.24	.83421	.002	1
S5	50.000	52.191	2.19	4.38	1.7970	.020	1
S1	2.0000	1.8319	-.168	-8.40	.06546	.001	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



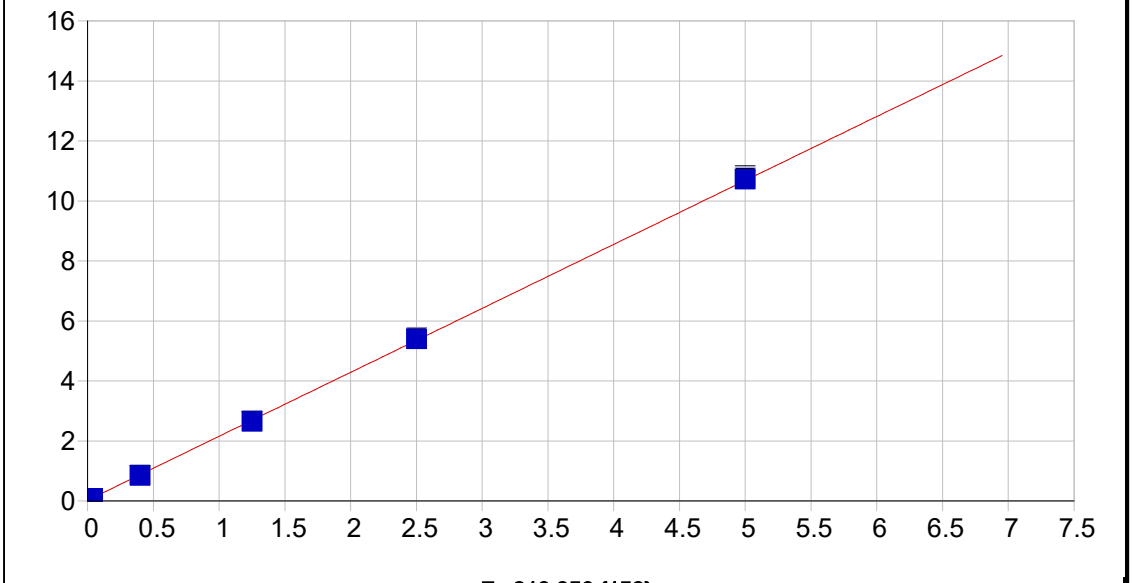
V 292.402 {115}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000035	Re-Slope:	1.000000
A1 (Gain):	0.121296	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999720	Status:	OK.
Std Error of Est:	0.000066		
Predicted MDL:	0.001459		
Predicted MQL:	0.004865		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00004	.000	1
S1	.04000	.03861	-.001	-3.47	.00454	.000	1
S3	1.2500	1.2066	-.043	-3.48	.14418	.001	1
S4	2.5000	2.4632	-.037	-1.47	.29439	.001	1
S5	5.0000	5.1003	.100	2.01	.60984	.002	1
S2	.40000	.38125	-.019	-4.69	.04557	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



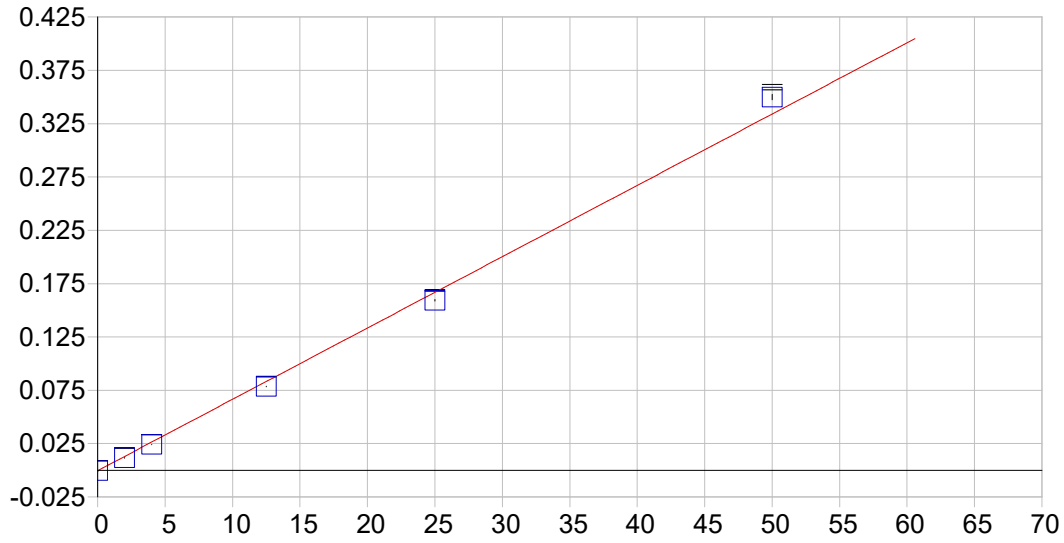
Zn 213.856 {158}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.022980	Re-Slope:	1.000000
A1 (Gain):	2.131616	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999854	Status:	OK.
Std Error of Est:	0.000861		
Predicted MDL:	0.000260		
Predicted MQL:	0.000865		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.02300	.002	1
S1	.04000	.03185	-.008	-20.4	.09147	.001	1
S3	1.2500	1.2300	-.020	-1.60	2.6635	.002	1
S4	2.5000	2.5234	.023	.938	5.4391	.006	1
S5	5.0000	5.0182	.018	.363	10.794	.045	1
S2	.40000	.38650	-.013	-3.37	.85279	.003	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



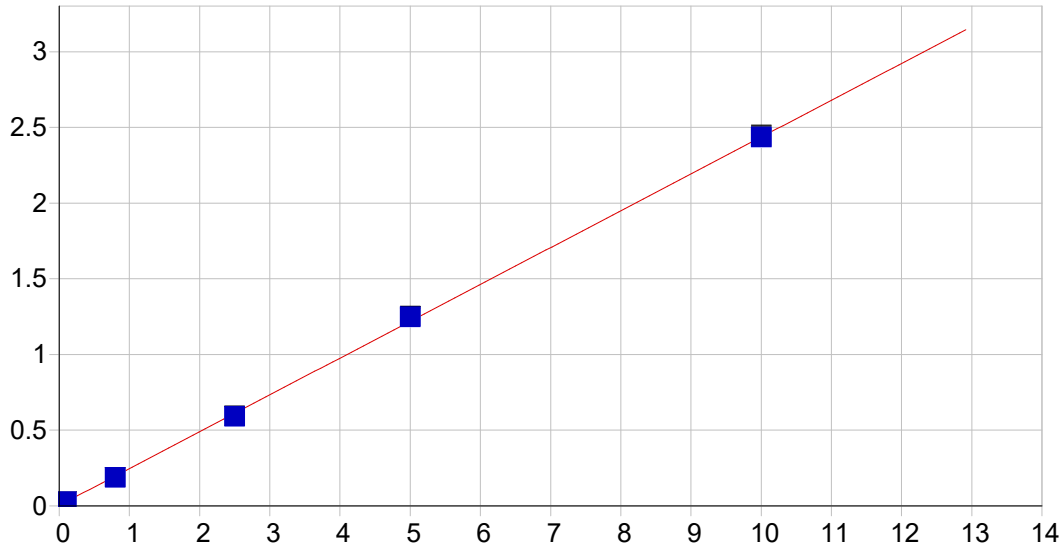
K 766.490 { 44}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000378	Re-Slope:	1.000000
A1 (Gain):	0.006688	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998633	Status:	OK.
Std Error of Est:	0.000185		
Predicted MDL:	0.026755		
Predicted MQL:	0.089184		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00049	.000	.000	-.00037	.000	1
S2	4.0000	3.6564	-.344	-8.59	.02408	.000	1
S3	12.500	11.785	-.715	-5.72	.07844	.000	1
S4	25.000	23.886	-1.11	-4.45	.15938	.001	1
S5	50.000	52.383	2.38	4.77	.34997	.002	1
S1	2.0000	1.7888	-.211	-10.6	.01159	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



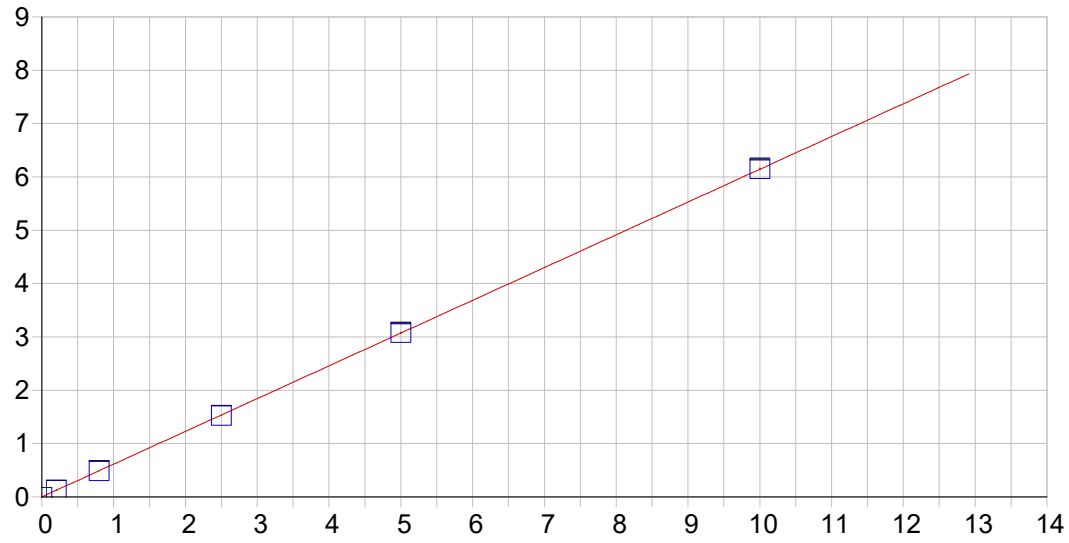
B 249.678 {135}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003402	Re-Slope:	1.000000
A1 (Gain):	0.243237	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999785	Status:	OK.
Std Error of Est:	0.000264		
Predicted MDL:	0.000858		
Predicted MQL:	0.002859		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00340	.000	1
S1	.10000	.09677	-.003	-3.23	.02681	.000	1
S3	2.5000	2.4187	-.081	-3.25	.58991	.003	1
S4	5.0000	5.1193	.119	2.39	1.2450	.006	1
S5	10.000	10.008	.008	.077	2.4305	.012	1
S2	.80000	.75750	-.043	-5.31	.18708	.001	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



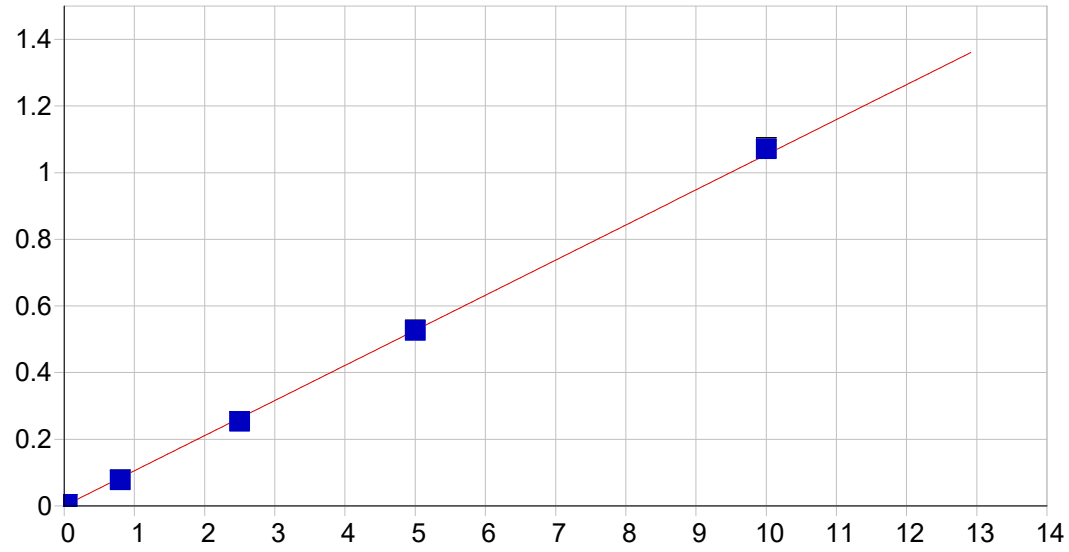
Mo 202.030 {467}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000145	Re-Slope:	1.000000
A1 (Gain):	0.614271	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000144		
Predicted MDL:	0.000251		
Predicted MQL:	0.000835		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00015	.000	1
S1	.20000	.20098	.001	.492	.12360	.000	1
S3	2.5000	2.4848	-.015	-.609	1.5265	.004	1
S4	5.0000	5.0059	.006	.118	3.0751	.013	1
S5	10.000	10.015	.015	.150	6.1521	.018	1
S2	.80000	.79335	-.007	-.831	.48748	.002	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



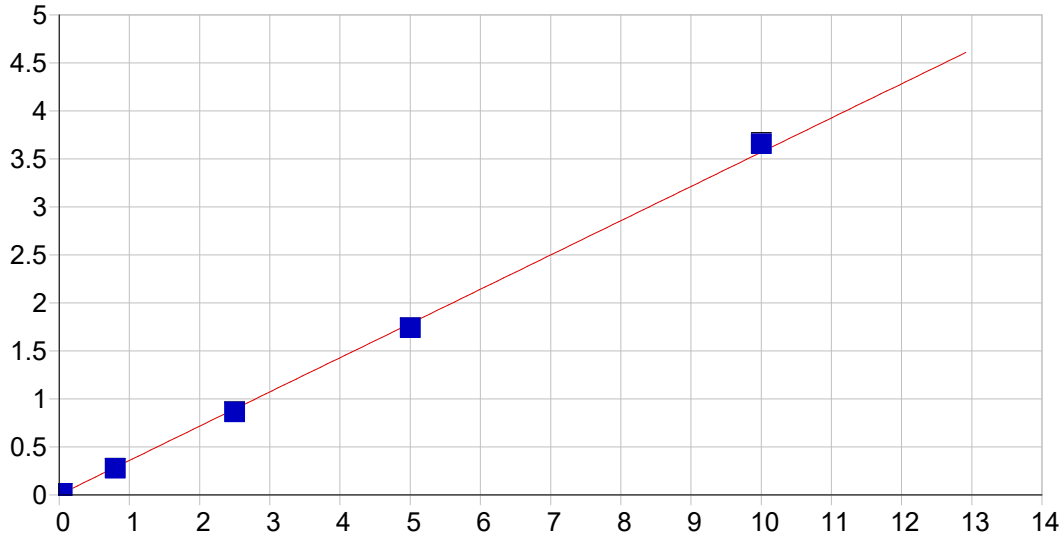
Sn 189.989 {478}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000098	Re-Slope:	1.000000
A1 (Gain):	0.105363	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999687	Status:	OK.
Std Error of Est:	0.000087		
Predicted MDL:	0.000784		
Predicted MQL:	0.002614		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00010	.000	1
S1	.04000	.03794	-.002	-5.14	.00409	.000	1
S3	2.5000	2.4037	-.096	-3.85	.25310	.001	1
S4	5.0000	4.9923	-.008	-.154	.52556	.002	1
S5	10.000	10.168	.168	1.68	1.0704	.004	1
S2	.80000	.73792	-.062	-7.76	.07776	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



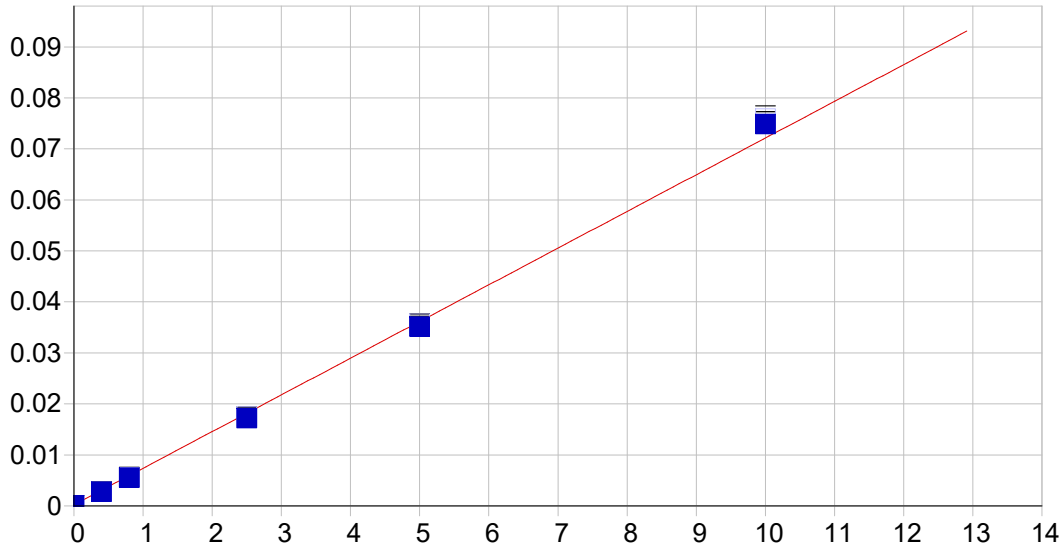
Ti 336.121 {100}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002151	Re-Slope:	1.000000
A1 (Gain):	0.356704	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999620	Status:	OK.
Std Error of Est:	0.000326		
Predicted MDL:	0.000671		
Predicted MQL:	0.002236		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00215	.000	1
S1	.04000	.03777	-.002	-5.57	.01561	.000	1
S3	2.5000	2.4163	-.084	-3.35	.86372	.005	1
S4	5.0000	4.8699	-.130	-2.60	1.7386	.004	1
S5	10.000	10.250	.250	2.50	3.6569	.011	1
S2	.80000	.76645	-.034	-4.19	.27544	.001	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



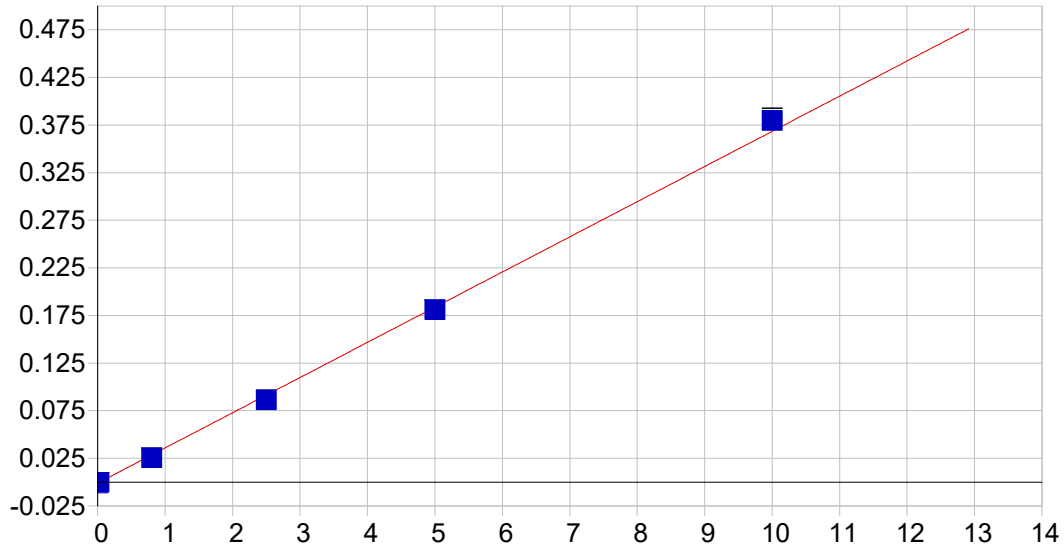
Si 288.158 {117}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000187	Re-Slope:	1.000000
A1 (Gain):	0.007193	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999103	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.005683		
Predicted MQL:	0.018942		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00009	.000	.000	.00019	.000	1
S1	.40000	.35431	-.046	-11.4	.00274	.000	1
S3	2.5000	2.3660	-.134	-5.36	.01748	.000	1
S4	5.0000	4.8612	-.139	-2.78	.03570	.000	1
S5	10.000	10.376	.376	3.76	.07591	.001	1
S2	.80000	.74212	-.058	-7.23	.00561	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



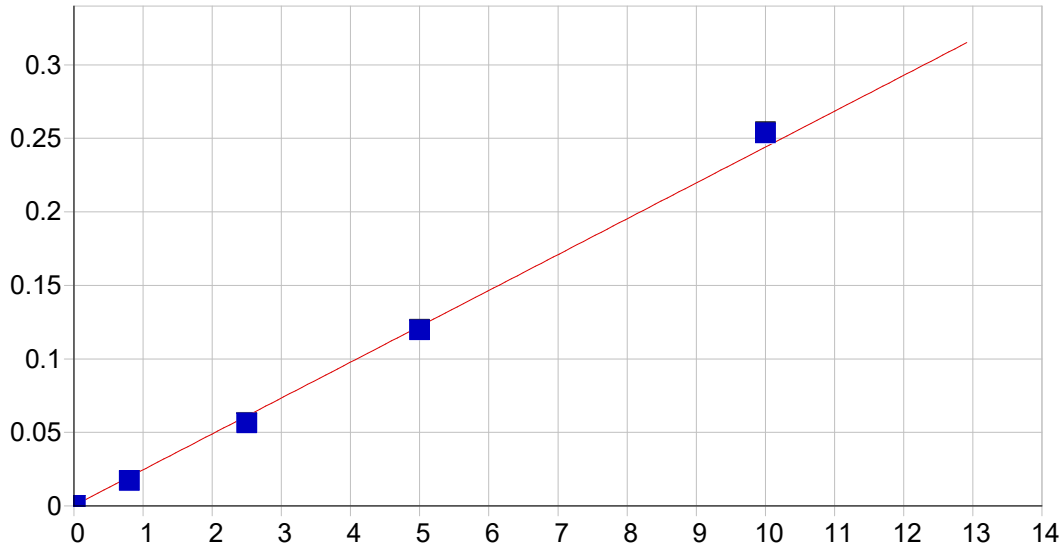
P 177.495 {490}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001023	Re-Slope:	1.000000
A1 (Gain):	0.036945	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999226	Status:	OK.
Std Error of Est:	0.000034		
Predicted MDL:	0.002385		
Predicted MQL:	0.007950		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00102	.000	1
S1	.02000	.01659	-.003	-17.1	-.00041	.000	1
S3	2.5000	2.3585	-.142	-5.66	.08610	.000	1
S4	5.0000	4.9298	-.070	-1.40	.18108	.000	1
S5	10.000	10.303	.303	3.03	.37956	.003	1
S2	.80000	.71218	-.088	-11.0	.02528	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



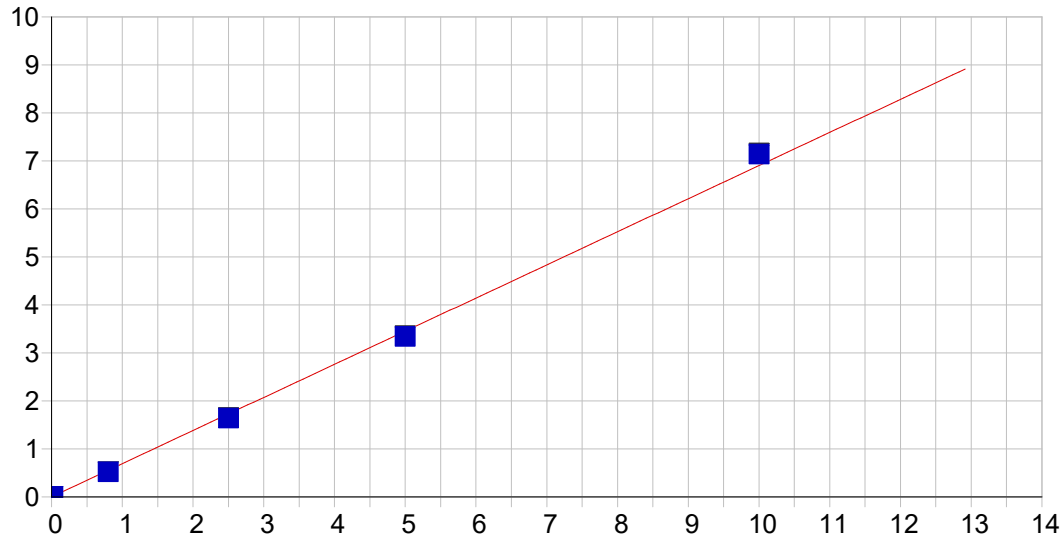
S 182.034 {485}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000208	Re-Slope:	1.000000
A1 (Gain):	0.024387	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998716	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.003135		
Predicted MQL:	0.010449		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00021	.000	1
S1	.02000	.01775	-.002	-11.2	.00062	.000	1
S3	2.5000	2.3076	-.192	-7.70	.05632	.000	1
S4	5.0000	4.9018	-.098	-1.96	.11943	.000	1
S5	10.000	10.399	.399	3.99	.25316	.001	1
S2	.80000	.69412	-.106	-13.2	.01708	.000	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



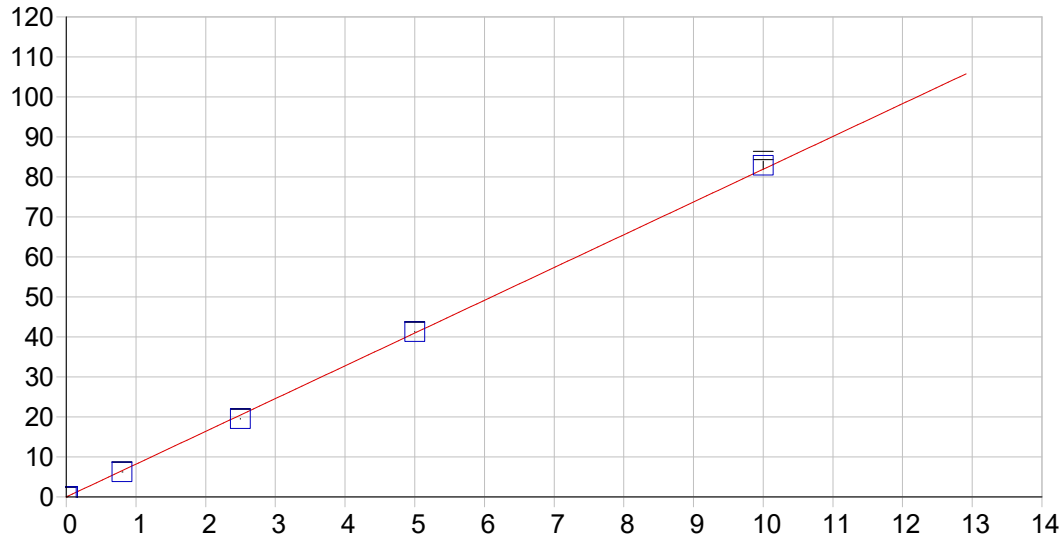
Li 670.784 { 50}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003223	Re-Slope:	1.000000
A1 (Gain):	0.689977	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999267	Status:	OK.
Std Error of Est:	0.000620		
Predicted MDL:	0.001084		
Predicted MQL:	0.003613		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00322	.000	1
S5	10.000	10.342	.342	3.42	7.1421	.021	1
S4	5.0000	4.8391	-.161	-3.22	3.3438	.013	1
S3	2.5000	2.3681	-.132	-5.28	1.6380	.010	1
S1	.02000	.02082	.001	4.10	.01781	.000	1
S2	.80000	.75042	-.050	-6.20	.52127	.002	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



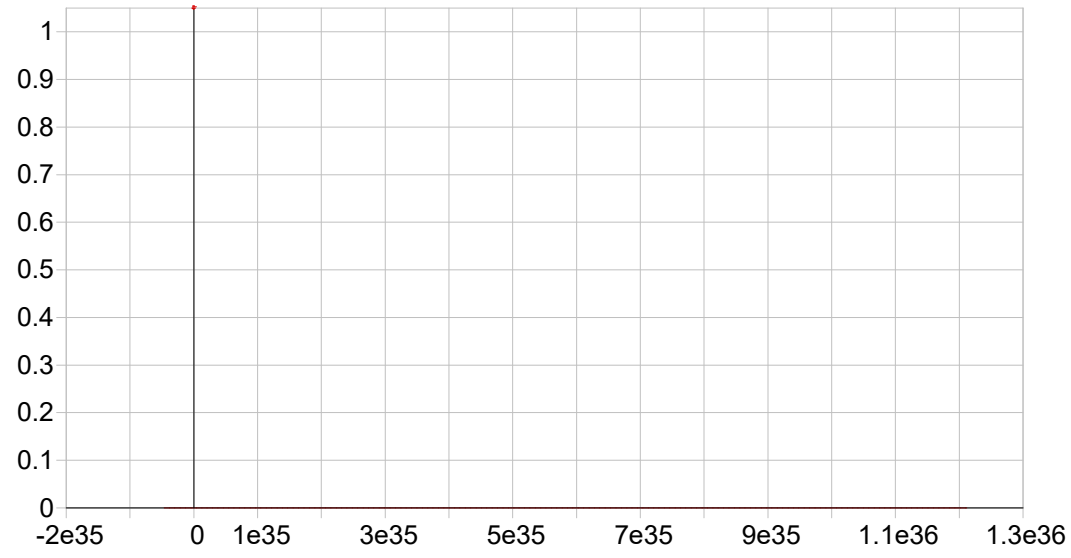
Sr 407.771 { 83}

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000253	Re-Slope:	1.000000
A1 (Gain):	8.191549	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999750	Status:	OK.
Std Error of Est:	0.004289		
Predicted MDL:	0.000061		
Predicted MQL:	0.000203		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00027	.000	1
S1	.02000	.01899	-.001	-5.04	.15583	.000	1
S3	2.5000	2.3846	-.115	-4.62	19.534	.101	1
S4	5.0000	5.0407	.041	.813	41.291	.064	1
S5	10.000	10.117	.117	1.17	82.870	1.01	1
S2	.80000	.75918	-.041	-5.10	6.2191	.009	1

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

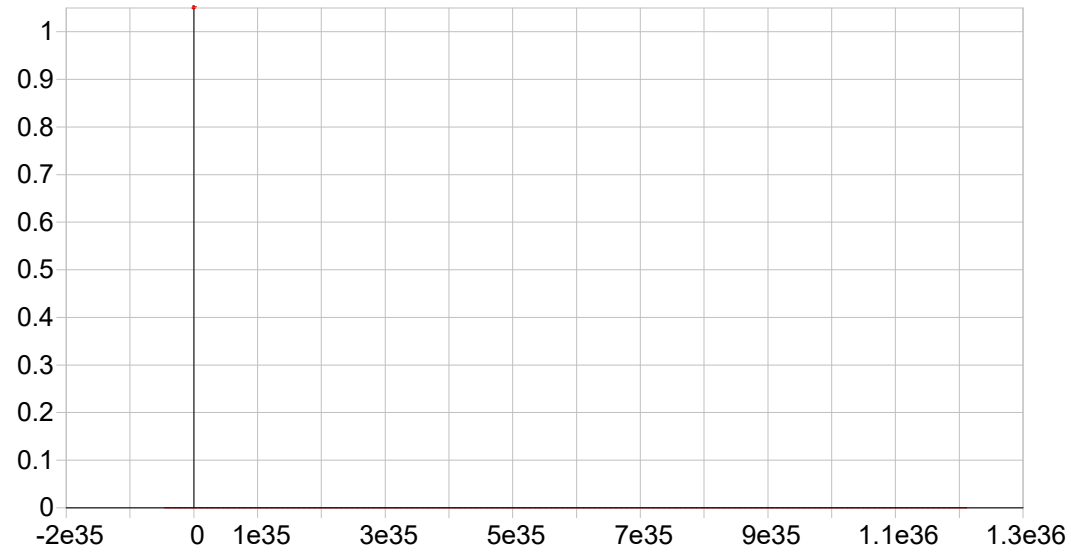


Y 224.306 {450}*

Date of Fit:	3/11/2025 10:50:07	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 360.073 { 94}*

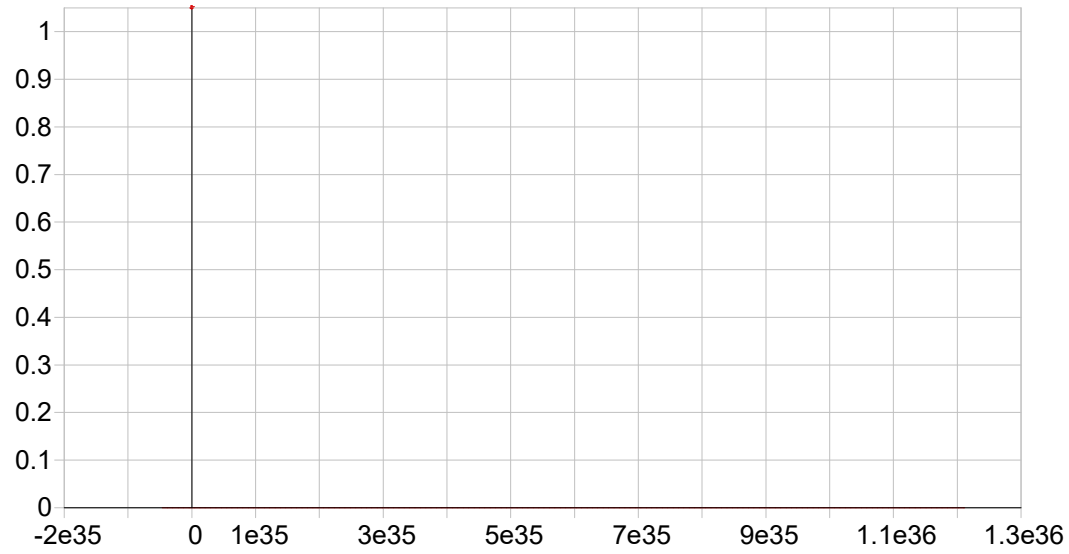
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



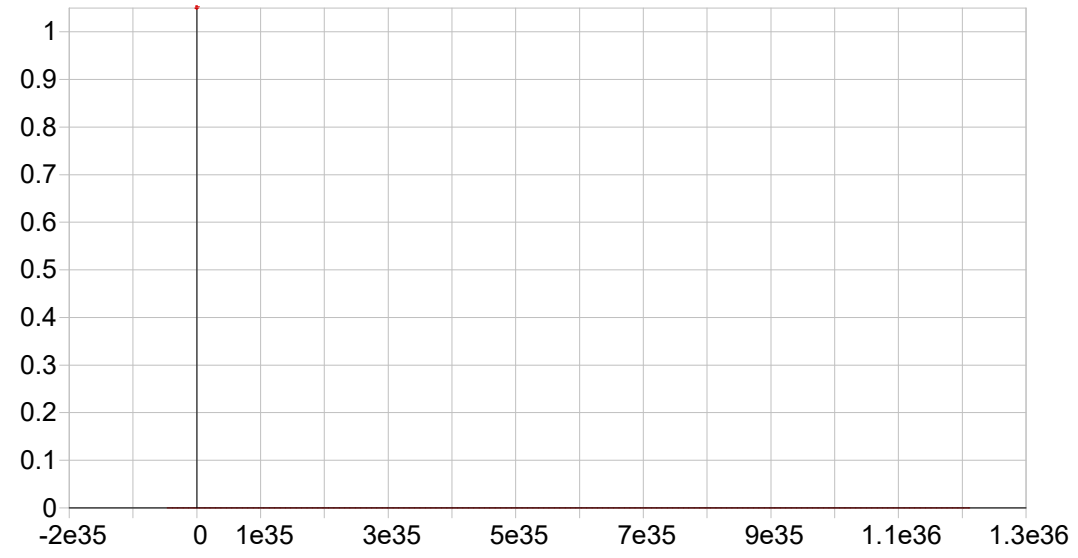
Y 371.030 { 91}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

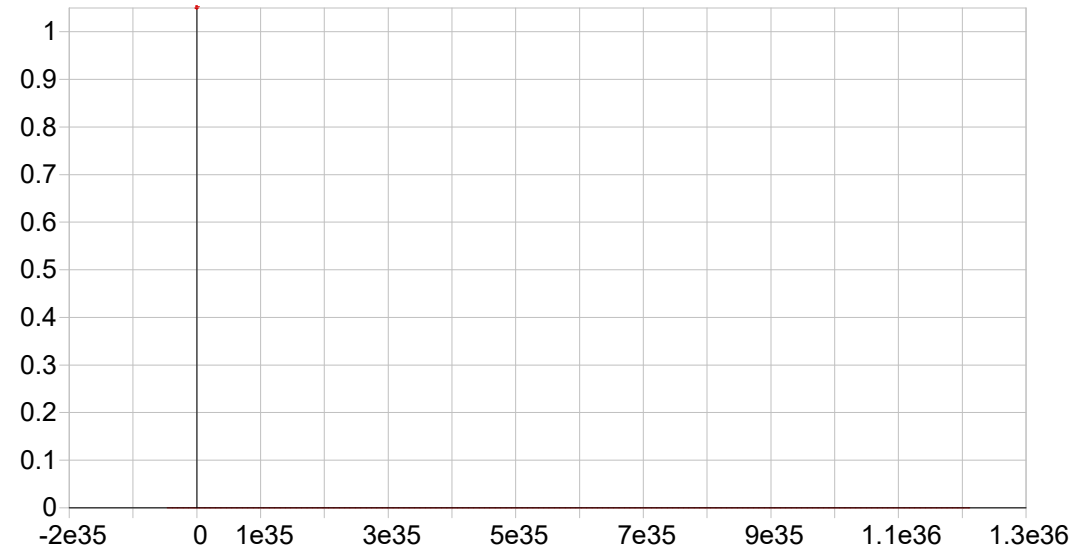
Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987



Y 224.306 {150}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: S0 Acquired: 3/11/2025 10:19:40 Type: Cal
Method: NON EPA-6010-200.7(v2770) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00008**	**-.00006**	**-.00019**	**.00024**	**.00023**	**.00029**	**.03295**	**.00003**
Stddev	.00006	.00004	.00007	.00006	.00024	.00048	.00140	.00007
%RSD	78.321	77.249	38.621	26.723	107.03	162.36	4.2490	219.20
#1	-.00004	-.00004	-.00027	.00022	.00029	-.00010	.03447	.00006
#2	-.00015	-.00002	-.00019	.00019	.00043	.00016	.03265	.00008
#3	-.00004	-.00011	-.00012	.00031	-.00004	.00083	.03171	-.00005

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00017**	**.00077**	**.00007**	**-.00001**	**-.00045**	**.00003**	**-.00006**	**-.00023**
Stddev	.00005	.00019	.00006	.00014	.00023	.00002	.00018	.00004
%RSD	31.149	24.861	86.269	2505.5	50.833	59.334	320.60	17.367
#1	-.00013	.00098	.00011	-.00016	-.00019	.00001	.00015	-.00026
#2	-.00014	.00072	.00010	.00010	-.00056	.00004	-.00016	-.00018
#3	-.00023	.00061	.00000	.00005	-.00061	.00003	-.00017	-.00024

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00013**	**-.00136**	**.00248**	**.00004**	**.02300**	**-.00037**	**.00340**	**.00015**
Stddev	.00014	.00006	.00028	.00023	.00215	.00010	.00014	.00014
%RSD	111.56	4.2511	11.296	649.67	9.3473	26.113	4.1047	94.251
#1	.00009	-.00139	.00249	.00016	.02544	-.00027	.00351	.00029
#2	.00001	-.00141	.00220	.00018	.02215	-.00046	.00325	.00013
#3	.00029	-.00130	.00276	-.00023	.02140	-.00040	.00345	.00002

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00010**	**.00215**	**.00019**	**-.00102**	**.00021**	**.00322**	**.00027**
Stddev	.00004	.00007	.00002	.00006	.00003	.00023	.00010
%RSD	38.464	3.1411	9.3887	6.3017	12.078	7.0110	37.417
#1	.00007	.00222	.00020	-.00108	.00023	.00306	.00037
#2	.00008	.00208	.00019	-.00095	.00018	.00313	.00017
#3	.00014	.00216	.00017	-.00103	.00022	.00348	.00028

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: S0 Acquired: 3/11/2025 10:19:40 Type: Cal
Method: NON EPA-6010-200.7(v2770) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3788.6	83741.	16133.	3482.1	5330.4
Stddev	12.9	169.	74.	5.5	17.1
%RSD	.34121	.20190	.46015	.15716	.32012
#1	3798.3	83860.	16074.	3477.2	5348.3
#2	3793.5	83547.	16108.	3488.0	5328.5
#3	3773.9	83815.	16216.	3480.9	5314.3

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: S1 Acquired: 3/11/2025 10:24:07 Type: Cal
Method: NON EPA-6010-200.7(v2770) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00093**	**.00234**	**.00187**	**.00113**	**.00621**	**.01118**	**.22632**	**.02043**
Stddev	.00011	.00002	.00016	.00016	.00003	.00031	.00187	.00007
%RSD	11.532	.86199	8.3577	13.760	.53439	2.7577	.82516	.32881
#1	.00082	.00235	.00178	.00123	.00620	.01129	.22424	.02050
#2	.00095	.00232	.00205	.00095	.00625	.01141	.22685	.02037
#3	.00103	.00235	.00178	.00121	.00618	.01083	.22786	.02043

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01300**	**.09377**	**.00136**	**.02437**	**.01322**	**.00044**	**.00977**	**.02530**
Stddev	.00020	.00061	.00002	.00009	.00028	.00001	.00007	.00023
%RSD	1.5698	.64875	1.7047	.38910	2.1527	2.6885	.72293	.89306
#1	.01276	.09308	.00133	.02445	.01293	.00045	.00969	.02552
#2	.01309	.09423	.00136	.02427	.01350	.00045	.00982	.02507
#3	.01314	.09400	.00137	.02439	.01321	.00043	.00980	.02530

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02350**	**.00116**	**.06546**	**.00454**	**.09147**	**.01159**	**.02681**	**.12360**
Stddev	.00019	.00001	.00067	.00015	.00051	.00025	.00022	.00039
%RSD	.81413	.72235	1.0160	3.2574	.55556	2.1626	.81226	.31712
#1	.02332	.00115	.06470	.00462	.09206	.01130	.02705	.12327
#2	.02370	.00115	.06573	.00437	.09116	.01177	.02662	.12351
#3	.02349	.00117	.06594	.00462	.09119	.01169	.02677	.12403

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00409**	**.01561**	**.00274**	**-.00041**	**.00062**	**.01781**	**.15583**
Stddev	.00002	.00004	.00006	.00007	.00001	.00022	.00016
%RSD	.55453	.26286	2.1044	16.835	1.6415	1.2161	.10141
#1	.00410	.01557	.00268	-.00033	.00063	.01802	.15583
#2	.00407	.01564	.00274	-.00047	.00062	.01781	.15599
#3	.00410	.01564	.00280	-.00042	.00061	.01759	.15568

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: S1 Acquired: 3/11/2025 10:24:07 Type: Cal
Method: NON EPA-6010-200.7(v2770) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3673.4	80094.	15694.	3326.9	5068.8
Stddev	10.3	180.	48.	11.9	18.4
%RSD	.28155	.22461	.30537	.35842	.36209
#1	3684.8	80173.	15641.	3340.6	5089.3
#2	3671.0	80221.	15704.	3321.4	5063.1
#3	3664.5	79888.	15735.	3318.8	5053.9

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: S2 Acquired: 3/11/2025 10:28:31 Type: Cal
Method: NON EPA-6010-200.7(v2770) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03410**	**.04956**	**.14761**	**.03816**	**.09135**	**.14548**	**3.2303**	**.13929**
Stddev	.00008	.00071	.00047	.00018	.00021	.00054	.0138	.00021
%RSD	.23037	1.4404	.31704	.46534	.23534	.37226	.42687	.14811
#1	.03402	.04876	.14737	.03826	.09133	.14507	3.2286	.13905
#2	.03410	.04980	.14731	.03796	.09114	.14528	3.2175	.13942
#3	.03417	.05013	.14815	.03827	.09157	.14609	3.2449	.13940

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.86703**	**.18396**	**.02091**	**.32491**	**.12482**	**.00367**	**.18682**	**.04654**
Stddev	.00276	.00062	.00003	.00079	.00048	.00001	.00062	.00008
%RSD	.31859	.33599	.16051	.24211	.38551	.24342	.33145	.17117
#1	.86604	.18364	.02089	.32471	.12428	.00367	.18753	.04662
#2	.86489	.18357	.02095	.32423	.12494	.00367	.18650	.04653
#3	.87015	.18467	.02089	.32577	.12522	.00366	.18641	.04646

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.23535**	**.04854**	**.12791**	**.04557**	**.85279**	**.02408**	**.18708**	**.48748**
Stddev	.00054	.00012	.00043	.00007	.00291	.00027	.00067	.00154
%RSD	.22963	.25235	.33399	.14986	.34145	1.1200	.36055	.31688
#1	.23510	.04841	.12790	.04554	.84995	.02383	.18782	.48638
#2	.23497	.04865	.12749	.04552	.85265	.02404	.18690	.48681
#3	.23597	.04856	.12834	.04565	.85577	.02436	.18651	.48924

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07776**	**.27544**	**.00561**	**.02528**	**.01708**	**.52127**	**6.2191**
Stddev	.00026	.00077	.00003	.00030	.00009	.00218	.0090
%RSD	.33498	.27837	.62102	1.2011	.54128	.41768	.14526
#1	.07756	.27518	.00558	.02498	.01705	.52079	6.2295
#2	.07767	.27484	.00560	.02528	.01719	.51937	6.2151
#3	.07805	.27631	.00565	.02559	.01702	.52365	6.2128

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: S2 Acquired: 3/11/2025 10:28:31 Type: Cal
Method: NON EPA-6010-200.7(v2770) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3657.7	78670.	15646.	3268.0	4975.4
Stddev	7.1	244.	15.	4.3	9.0
%RSD	.19318	.31039	.09437	.13102	.18183
#1	3655.1	78870.	15645.	3272.9	4976.3
#2	3665.7	78743.	15660.	3266.4	4984.0
#3	3652.3	78398.	15631.	3264.8	4966.0

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: S3 Acquired: 3/11/2025 10:32:41 Type: Cal
Method: NON EPA-6010-200.7(v2770) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.10968	.15667	.47302	.12170	.29224	.46265	10.011	.44139
Stddev	.00045	.00050	.00090	.00065	.00151	.00252	.024	.00157
%RSD	.40757	.31960	.19120	.53576	.51606	.54537	.23877	.35618
#1	.10917	.15662	.47234	.12115	.29062	.46010	10.024	.43962
#2	.11002	.15619	.47266	.12153	.29250	.46270	10.026	.44190
#3	.10985	.15719	.47404	.12242	.29360	.46514	9.9838	.44264

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.8044	.58174	.06600	1.0422	.39402	.01156	.59139	.14809
Stddev	.0042	.00168	.00024	.0022	.00138	.00006	.00210	.00058
%RSD	.15024	.28833	.35744	.21485	.34954	.52227	.35496	.39126
#1	2.7996	.57982	.06620	1.0397	.39261	.01153	.58897	.14748
#2	2.8073	.58250	.06574	1.0440	.39409	.01153	.59243	.14815
#3	2.8064	.58291	.06605	1.0430	.39536	.01163	.59276	.14864

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.75822	.15301	.40270	.14418	2.6635	.07844	.58991	1.5265
Stddev	.00162	.00064	.00152	.00052	.0024	.00029	.00257	.0043
%RSD	.21324	.41508	.37642	.36156	.09140	.36801	.43581	.28235
#1	.75640	.15287	.40261	.14361	2.6607	.07816	.58706	1.5226
#2	.75876	.15246	.40123	.14427	2.6645	.07842	.59205	1.5256
#3	.75950	.15371	.40425	.14464	2.6652	.07874	.59062	1.5311

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.25310	.86372	.01748	.08610	.05632	1.6380	19.534
Stddev	.00055	.00477	.00005	.00011	.00023	.0096	.101
%RSD	.21854	.55263	.31062	.13314	.41249	.58453	.51632
#1	.25262	.85861	.01748	.08597	.05618	1.6270	19.643
#2	.25297	.86448	.01742	.08612	.05620	1.6427	19.444
#3	.25370	.86806	.01753	.08620	.05659	1.6444	19.514

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: S3 Acquired: 3/11/2025 10:32:41 Type: Cal
Method: NON EPA-6010-200.7(v2770) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3540.5**	**76575.**	**15223.**	**3209.4**	**4664.8**
Stddev	3.5	339.	41.	5.2	4.6
%RSD	.09990	.44262	.26818	.16093	.09761
#1	3544.5	76481.	15251.	3203.7	4669.9
#2	3539.4	76951.	15242.	3213.8	4661.3
#3	3537.7	76294.	15177.	3210.6	4663.0

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: S4 Acquired: 3/11/2025 10:36:58 Type: Cal
Method: NON EPA-6010-200.7(v2770) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.22648**	**.32087**	**.97011**	**.25290**	**.60098**	**.95734**	**20.098**	**.92130**
Stddev	.00140	.00224	.00327	.00110	.00330	.00076	.191	.00490
%RSD	.61691	.69679	.33678	.43490	.54932	.07889	.94841	.53170
#1	.22582	.32189	.97010	.25248	.59905	.95792	20.233	.91758
#2	.22553	.31831	.96685	.25206	.59910	.95761	19.880	.92685
#3	.22808	.32242	.97338	.25414	.60479	.95649	20.182	.91947

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.8096**	**1.1815**	**.13550**	**2.1365**	**.79457**	**.02300**	**1.2211**	**.30517**
Stddev	.0175	.0045	.00018	.0067	.00271	.00008	.0013	.00123
%RSD	.30184	.37719	.13648	.31478	.34053	.32711	.10952	.40327
#1	5.8040	1.1797	.13540	2.1334	.79366	.02304	1.2195	.30525
#2	5.7956	1.1865	.13571	2.1319	.79243	.02304	1.2220	.30636
#3	5.8293	1.1782	.13539	2.1442	.79761	.02291	1.2217	.30390

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.5561**	**.31472**	**.83421**	**.29439**	**5.4391**	**.15938**	**1.2450**	**3.0751**
Stddev	.0040	.00069	.00216	.00075	.0064	.00065	.0056	.0135
%RSD	.25362	.22068	.25947	.25616	.11847	.40957	.45378	.43865
#1	1.5551	.31406	.83581	.29492	5.4438	.16005	1.2400	3.0699
#2	1.5528	.31465	.83174	.29473	5.4317	.15934	1.2511	3.0650
#3	1.5605	.31544	.83507	.29353	5.4416	.15874	1.2439	3.0904

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.52556**	**1.7386**	**.03570**	**.18108**	**.11943**	**3.3438**	**41.291**
Stddev	.00173	.0043	.00008	.00023	.00036	.0127	.064
%RSD	.32916	.24566	.23539	.12599	.30408	.37843	.15569
#1	.52589	1.7388	.03564	.18084	.11921	3.3507	41.247
#2	.52369	1.7428	.03565	.18110	.11923	3.3515	41.262
#3	.52711	1.7342	.03579	.18130	.11985	3.3292	41.365

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: S4 Acquired: 3/11/2025 10:36:58 Type: Cal
Method: NON EPA-6010-200.7(v2770) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3446.8**	**73621.**	**14524.**	**3111.4**	**4427.3**
Stddev	13.1	124.	65.	4.6	11.7
%RSD	.37880	.16811	.44657	.14750	.26414
#1	3448.5	73723.	14574.	3110.9	4426.6
#2	3458.9	73656.	14451.	3116.2	4439.3
#3	3433.0	73483.	14548.	3107.1	4416.0

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: S5 Acquired: 3/11/2025 10:41:12 Type: Cal
Method: NON EPA-6010-200.7(v2770) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.46138	.64764	1.9717	.51027	1.2160	1.9884	41.896	1.7929
Stddev	.00162	.00586	.0058	.00179	.0034	.0070	.543	.0076
%RSD	.35162	.90516	.29641	.35013	.28035	.35341	1.2970	.42688
#1	.45975	.64144	1.9659	.50946	1.2156	1.9965	42.400	1.7987
#2	.46140	.64837	1.9718	.50904	1.2128	1.9844	41.966	1.7958
#3	.46300	.65309	1.9775	.51232	1.2196	1.9843	41.320	1.7842

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.942	2.4391	.26847	4.3997	1.5827	.04841	2.4967	.63075
Stddev	.047	.0084	.00120	.0169	.0038	.00024	.0083	.00254
%RSD	.39635	.34313	.44844	.38358	.23807	.50189	.33038	.40268
#1	11.891	2.4485	.26738	4.3815	1.5792	.04835	2.5061	.63293
#2	11.950	2.4365	.26827	4.4030	1.5822	.04820	2.4931	.63136
#3	11.985	2.4324	.26976	4.4148	1.5867	.04867	2.4908	.62796

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.1852	.63516	1.7970	.60984	10.794	.34997	2.4305	6.1521
Stddev	.0122	.00137	.0200	.00231	.045	.00242	.0122	.0185
%RSD	.38270	.21589	1.1149	.37931	.41717	.69136	.50375	.29993
#1	3.1724	.63465	1.7954	.61219	10.768	.34976	2.4343	6.1387
#2	3.1865	.63412	1.7779	.60978	10.768	.34766	2.4403	6.1444
#3	3.1966	.63672	1.8178	.60756	10.846	.35248	2.4168	6.1731

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.0704	3.6569	.07591	.37956	.25316	7.1421	82.870
Stddev	.0042	.0113	.00055	.00265	.00073	.0206	1.015
%RSD	.39269	.30872	.73082	.69942	.28683	.28883	1.2248
#1	1.0661	3.6692	.07563	.37759	.25245	7.1645	83.920
#2	1.0706	3.6546	.07555	.37852	.25313	7.1239	82.797
#3	1.0745	3.6470	.07655	.38258	.25390	7.1380	81.894

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: S5 Acquired: 3/11/2025 10:41:12 Type: Cal
Method: NON EPA-6010-200.7(v2770) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3321.0**	**71615.**	**14464.**	**2987.3**	**4136.6**
Stddev	7.6	360.	53.	12.4	14.8
%RSD	.22922	.50222	.36986	.41419	.35778
#1	3326.2	71777.	14434.	3000.2	4152.1
#2	3324.5	71866.	14433.	2986.2	4135.2
#3	3312.2	71203.	14526.	2975.6	4122.6

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: ICV01 Acquired: 3/11/2025 10:50:00 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.043261**	**1.027441**	**1.023660**	**1.042289**	**1.010184**	**2.554368**
Stddev	.002463	.000957	.003208	.002093	.003500	.004578
%RSD	.2360722	.0931064	.3133894	.2008454	.3464529	.1792162
#1	1.044880	1.028020	1.024137	1.040070	1.011780	2.554527
#2	1.040427	1.026337	1.020241	1.042568	1.006171	2.558865
#3	1.044477	1.027967	1.026603	1.044229	1.012602	2.549713

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5427940**	**.5071457**	**.5106748**	**10.01150**	**.5272723**	**.5203577**
Stddev	.0009146	.0007019	.0004611	.01160	.0016950	.0011859
%RSD	.1684936	.1384098	.0902968	.1158280	.3214708	.2279017
#1	.5430710	.5063453	.5102366	10.00972	.5292272	.5207219
#2	.5435381	.5076569	.5106318	10.02389	.5263795	.5190324
#3	.5417730	.5074348	.5111559	10.00090	.5262104	.5213188

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5319440**	**10.19733**	**.5154935**	**5.967919**	**.5166382**	**.2588273**
Stddev	.0012556	.05312	.0016211	.021101	.0003350	.0003684
%RSD	.2360366	.5209441	.3144652	.3535820	.0648420	.1423499
#1	.5322868	10.25468	.5169217	5.992068	.5163747	.2591917
#2	.5305526	10.18749	.5158271	5.958658	.5165246	.2588351
#3	.5329926	10.14981	.5137316	5.953032	.5170152	.2584550

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.685732**	**.5243628**	**1.040074**	**9.818560**	**2.568428**	**2.480856**
Stddev	.035100	.0013250	.002240	.024795	.004412	.005490
%RSD	.3623841	.2526928	.2153930	.2525285	.1717783	.2213139
#1	9.720306	.5256786	1.042436	9.838835	2.563652	2.484083
#2	9.686759	.5243809	1.039807	9.790916	2.572352	2.474516
#3	9.650130	.5230288	1.037979	9.825929	2.569280	2.483968

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: ICV01 Acquired: 3/11/2025 10:50:00 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.492503**	**2.580653**	F **2.349993**	**2.454848**	**2.426435**	**2.597377**
Stddev	.002015	.004342	.009215	.008551	.006907	.003336
%RSD	.0808394	.1682505	.3921471	.3483143	.2846451	.1284421
#1	2.490362	2.585564	2.355085	2.457209	2.430210	2.601176
#2	2.494362	2.579069	2.355539	2.445365	2.418464	2.596035
#3	2.492786	2.577325	2.339355	2.461970	2.430632	2.594922

Elem	Sr4077
Units	ppm
Avg	F **2.688051**
Stddev	.017343
%RSD	.6451743
#1	2.695261
#2	2.700627
#3	2.668267

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3507.671**	**75320.54**	**15207.45**	**3161.227**	**4648.788**
Stddev	6.894	179.52	7.37	11.007	2.372
%RSD	.1965412	.2383430	.0484396	.3481829	.0510212
#1	3499.711	75113.68	15212.42	3149.631	4646.140
#2	3511.713	75435.62	15210.95	3171.530	4649.508
#3	3511.589	75412.32	15198.99	3162.522	4650.717

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: LLICV01 Acquired: 3/11/2025 10:54:03 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211525	.0408862	.0120451	.0204588	.0530185	.1019619	.0946167
Stddev	.0013610	.0014970	.0006341	.0016513	.0002700	.0054282	.0016815
%RSD	6.434481	3.661384	5.264315	8.071489	.5092151	5.323736	1.777142
#1	.0207885	.0425586	.0113181	.0211951	.0532702	.0957049	.0943729
#2	.0226585	.0396715	.0123336	.0216139	.0530519	.1054105	.0964068
#3	.0200104	.0404284	.0124838	.0185674	.0527334	.1047703	.0930704

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062310	.0058039	2.005871	.0101594	.0292737	.0220997	.0939303
Stddev	.0000503	.0000428	.005323	.0002503	.0003007	.0002185	.0023270
%RSD	.8063949	.7371471	.2653590	2.463964	1.027217	.9887006	2.477383
#1	.0062289	.0058529	2.008966	.0100582	.0295615	.0220589	.0966048
#2	.0062822	.0057739	2.008923	.0099755	.0289616	.0219045	.0923685
#3	.0061818	.0057848	1.999725	.0104444	.0292980	.0223357	.0928177

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0212309	2.132798	.0384231	.0104183	1.850652	.0396834	.0337215
Stddev	.0001909	.009346	.0001408	.0001559	.003006	.0004398	.0003571
%RSD	.8992349	.4381885	.3664027	1.496780	.1624061	1.108188	1.058852
#1	.0210759	2.134712	.0383211	.0103763	1.847587	.0401679	.0333253
#2	.0214442	2.122644	.0383645	.0102876	1.850777	.0393096	.0340184
#3	.0211728	2.141039	.0385838	.0105909	1.853594	.0395726	.0338207

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.784653	.1102163	.2085443	.0392134	.0388180	.3582073	.0185639
Stddev	.008045	.0009443	.0008806	.0010986	.0004633	.0045677	.0012672
%RSD	.4507634	.8567652	.4222827	2.801550	1.193618	1.275150	6.826288
#1	1.777448	.1094091	.2094482	.0381507	.0384667	.3604677	.0178428
#2	1.783179	.1112547	.2084956	.0391447	.0386441	.3612041	.0200272
#3	1.793333	.1099851	.2076890	.0403447	.0393431	.3529502	.0178218

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: LLICV01 Acquired: 3/11/2025 10:54:03 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0181252	.0218512	.0203859
Stddev	.0020154	.0001413	.0003522
%RSD	11.11916	.6468879	1.727717
#1	.0166342	.0218772	.0202531
#2	.0204181	.0216986	.0207852
#3	.0173233	.0219777	.0201194

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3554.733	76235.82	14523.32	3205.439	4920.567
Stddev	7.206	145.46	29.19	3.011	3.756
%RSD	.2027150	.1908035	.2009628	.0939446	.0763249
#1	3546.579	76402.06	14552.06	3208.916	4916.952
#2	3560.244	76173.52	14493.71	3203.690	4920.301
#3	3557.377	76131.89	14524.18	3203.710	4924.449

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: ICB01 Acquired: 3/11/2025 10:58:20 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000380**	**-.001516**	**.0002692**	**.0009475**	**.0011496**	**.0004856**	**-.001334**
Stddev	.0037021	.001025	.0010215	.0014428	.0003578	.0048650	.000154
%RSD	9755.050	67.59033	379.4359	152.2776	31.12278	1001.940	11.53022
#1	-.002360	-.002106	.0014320	.0018418	.0008076	.0015668	-.001268
#2	-.001827	-.000333	-.000141	-.000717	.0015213	.0047190	-.001510
#3	.004302	-.002110	-.000484	.001718	.0011198	-.004829	-.001224

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000026**	**.0000055**	**-.003338**	**-.000124**	**-.000023**	**-.000142**	**-.002894**
Stddev	.000051	.0001099	.005970	.000248	.000120	.000285	.002174
%RSD	197.1017	1990.683	178.8447	200.4865	513.9714	201.1692	75.13194
#1	-.000045	-.000102	-.002372	-.000008	.000091	-.000385	-.000482
#2	-.000064	.000118	.002090	.000045	-.000149	.000172	-.003498
#3	.000032	.000000	-.009732	-.000408	-.000012	-.000212	-.004703

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006541**	**.0132188**	**-.000484**	**.0000684**	**-.000779**	**.0001409**	**-.008998**
Stddev	.0001459	.0011749	.000146	.0001832	.002360	.0010451	.000069
%RSD	22.30238	8.887970	30.19991	267.6006	302.7890	741.5714	.7669193
#1	.0005015	.0124810	-.000554	.0002792	-.003189	-.000982	-.009019
#2	.0006685	.0126017	-.000316	-.000052	-.000678	.000320	-.009054
#3	.0007922	.0145736	-.000581	-.000022	.001528	.001085	-.008921

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.081346**	**-.000010**	**.0000157**	**.0003130**	**-.000032**	**.0019553**	**.0008917**
Stddev	.019178	.000250	.0002256	.0003737	.000478	.0058026	.0015749
%RSD	23.57610	2588.995	1436.611	119.3778	1500.136	296.7648	176.6203
#1	-.103472	-.000298	-.000004	.0004245	-.000207	-.002747	-.000759
#2	-.069481	.000120	.000250	-.000104	-.000398	.008440	.001056
#3	-.071086	.000149	-.000199	.000618	.000509	.000173	.002378

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: ICB01 Acquired: 3/11/2025 10:58:20 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000164	.0036538	-.000032
Stddev	.000381	.0005564	.000091
%RSD	231.8730	15.22643	285.3351
#1	-.000263	.0036333	-.000100
#2	.000256	.0042202	.000071
#3	-.000485	.0031080	-.000067

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3546.157	75807.34	15033.94	3208.361	4988.794
Stddev	4.516	256.28	39.16	4.841	10.488
%RSD	.1273406	.3380663	.2604914	.1508773	.2102329
#1	3543.598	76084.72	14989.58	3213.819	4985.859
#2	3551.371	75579.35	15048.52	3204.589	5000.437
#3	3543.501	75757.95	15063.73	3206.674	4980.086

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CRI01 Acquired: 3/11/2025 11:02:39 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0189704**	**.0415012**	**.0118518**	**.0219427**	**.0524817**	**.0991465**
Stddev	.0023204	.0008649	.0007349	.0028054	.0012374	.0023488
%RSD	12.23152	2.084155	6.201046	12.78528	2.357860	2.369018
#1	.0193127	.0413600	.0124506	.0239537	.0531013	.0978930
#2	.0164979	.0407156	.0110316	.0231367	.0510568	.0976903
#3	.0211006	.0424281	.0120732	.0187378	.0532869	.1018561

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0950555**	**.0059115**	**.0058124**	**2.000850**	**.0098297**	**.0292011**
Stddev	.0006930	.0000422	.0000223	.007049	.0001938	.0001799
%RSD	.7289946	.7132440	.3838481	.3522958	1.971957	.6160093
#1	.0958556	.0059029	.0058189	2.008387	.0097935	.0290337
#2	.0946515	.0058742	.0058306	1.994420	.0096564	.0293913
#3	.0946593	.0059572	.0057875	1.999743	.0100390	.0291782

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0220800**	**.0899288**	**.0215509**	**2.126201**	**.0382407**	**.0103241**
Stddev	.0001212	.0033984	.0003626	.024232	.0000604	.0003612
%RSD	.5489281	3.779047	1.682683	1.139678	.1579814	3.498734
#1	.0220691	.0934930	.0214427	2.119436	.0381857	.0106260
#2	.0222063	.0867248	.0212546	2.106071	.0383053	.0099239
#3	.0219647	.0895686	.0219553	2.153097	.0382310	.0104223

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.936553**	**.0390621**	**.0332439**	**1.864265**	**.1004283**	**.2073066**
Stddev	.007390	.0014722	.0000838	.017314	.0015395	.0006160
%RSD	.3815933	3.768748	.2519275	.9287446	1.532944	.2971654
#1	1.942303	.0406230	.0332959	1.880496	.0998483	.2068103
#2	1.939138	.0376986	.0331473	1.846040	.0992630	.2071134
#3	1.928218	.0388648	.0332884	1.866260	.1021736	.2079961

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CRI01 Acquired: 3/11/2025 11:02:39 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0388296	.0384665	.3770348	.0177846	F .0152411	.0216311
Stddev	.0006427	.0003746	.0065101	.0004283	.0012409	.0017717
%RSD	1.655248	.9738989	1.726657	2.408373	8.142071	8.190376
#1	.0389929	.0383914	.3843915	.0181958	.0158063	.0206243
#2	.0393749	.0388730	.3720182	.0178169	.0138182	.0236768
#3	.0381209	.0381351	.3746947	.0173410	.0160988	.0205923

Elem	Sr4077
Units	ppm
Avg	.0201354
Stddev	.0000553
%RSD	.2745204
#1	.0201138
#2	.0200942
#3	.0201982

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3562.674	75659.26	15146.59	3199.498	4916.485
Stddev	3.700	329.11	7.96	4.233	10.771
%RSD	.1038586	.4349933	.0525468	.1322868	.2190729
#1	3566.946	75389.53	15155.59	3194.622	4927.062
#2	3560.557	75562.29	15140.47	3201.656	4905.531
#3	3560.518	76025.96	15143.71	3202.217	4916.864

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: ICSA01 Acquired: 3/11/2025 11:06:55 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064608**	**.0096411**	**.0038120**	**-.016257**	**-.002796**	**247.7701**
Stddev	.0012164	.0008067	.0022377	.005476	.002392	1.3642
%RSD	18.82739	8.367816	58.70136	33.68593	85.53435	.5505771
#1	.0057069	.0091163	.0039987	-.021833	-.003161	249.2315
#2	.0078640	.0092369	.0059506	-.016052	-.000243	246.5303
#3	.0058113	.0105700	.0014868	-.010886	-.004985	247.5485

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0053241**	**.0012634**	**-.002306**	**236.6365**	**.0581961**	**.0019624**
Stddev	.0004227	.0000536	.000190	.8796	.0003685	.0002173
%RSD	7.939261	4.240300	8.221974	.3717072	.6331963	11.07108
#1	.0051526	.0012825	-.002091	237.2304	.0582023	.0021453
#2	.0058057	.0012029	-.002377	235.6260	.0585614	.0017223
#3	.0050142	.0013048	-.002450	237.0530	.0578245	.0020197

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0067646**	**101.5273**	**.0050021**	**258.4909**	**.0017627**	**-.000940**
Stddev	.0002225	.4358	.0001546	.8022	.0003202	.000266
%RSD	3.289799	.4292316	3.091754	.3103341	18.16306	28.26410
#1	.0070213	101.0244	.0051325	259.1848	.0014904	-.001139
#2	.0066268	101.7953	.0050426	257.6126	.0016823	-.001044
#3	.0066457	101.7621	.0048313	258.6753	.0021154	-.000638

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0602883**	**.0035244**	**-.003788**	**-.039975**	F **.1383479**	**.0000267**
Stddev	.0115972	.0005165	.000395	.012377	.0016332	.0004495
%RSD	19.23627	14.65535	10.41957	30.96135	1.180519	1680.853
#1	.0472358	.0033042	-.004227	-.053538	.1365993	-.000134
#2	.0694069	.0041145	-.003673	-.037093	.1398339	-.000320
#3	.0642220	.0031545	-.003463	-.029293	.1386105	.000535

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: ICSA01 Acquired: 3/11/2025 11:06:55 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004966	-.001821	.0174415	-.001350	-.016816	.0065786
Stddev	.001302	.000454	.0038945	.004302	.001080	.0012540
%RSD	26.21349	24.95153	22.32911	318.6880	6.422768	19.06168
#1	-.006247	-.002192	.0166131	-.004021	-.017979	.0052709
#2	-.005009	-.001314	.0140278	.003613	-.016625	.0066940
#3	-.003644	-.001956	.0216835	-.003642	-.015844	.0077709

Elem	Sr4077
Units	ppm
Avg	F .1001794
Stddev	.0005204
%RSD	.5194586
#1	.1006779
#2	.0996396
#3	.1002206

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3157.707	66872.12	14653.88	2851.451	3841.604
Stddev	7.593	241.01	53.89	8.057	3.043
%RSD	.2404728	.3604035	.3677862	.2825460	.0792028
#1	3166.104	67124.01	14598.45	2860.367	3839.334
#2	3155.694	66643.72	14706.10	2844.694	3845.062
#3	3151.323	66848.62	14657.09	2849.293	3840.418

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: ICSAB01 Acquired: 3/11/2025 11:11:19 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1136162	.1047438	.0557472	.0323813	.6115124	248.5505
Stddev	.0027710	.0042328	.0016799	.0057971	.0009108	2.0607
%RSD	2.438946	4.041073	3.013505	17.90252	.1489452	.8290962
#1	.1165811	.0998949	.0575750	.0256878	.6124139	250.7907
#2	.1131756	.1066372	.0542706	.0356667	.6115306	248.1251
#3	.1110919	.1076994	.0553959	.0357895	.6105925	246.7357

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4866715	.5205432	1.018696	234.9917	.5666843	.5179585
Stddev	.0016100	.0036081	.002150	1.2389	.0013989	.0017371
%RSD	.3308147	.6931465	.2110757	.5272234	.2468606	.3353700
#1	.4879472	.5237134	1.017084	235.8256	.5675881	.5170415
#2	.4848625	.5166170	1.017867	233.5681	.5650730	.5168721
#3	.4872047	.5212993	1.021138	235.5814	.5673919	.5199619

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5071726	97.39010	.4891787	256.3758	1.020274	.2195895
Stddev	.0012437	.12115	.0016998	1.6729	.002964	.0003489
%RSD	.2452303	.1243941	.3474778	.6525288	.2904821	.1588847
#1	.5061191	97.39634	.4897395	257.7107	1.018755	.2198278
#2	.5068540	97.26595	.4872694	254.4991	1.018378	.2197517
#3	.5085446	97.50801	.4905272	256.9176	1.023689	.2191890

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0563249	.4776844	1.066391	-.041647	F 1.151012	1.094121
Stddev	.0083565	.0023179	.003845	.027679	.007879	.001886
%RSD	14.83627	.4852321	.3605668	66.46180	.6845080	.1724079
#1	.0495452	.4803501	1.070668	-.063800	1.155644	1.092801
#2	.0537684	.4761437	1.065285	-.050522	1.141915	1.093280
#3	.0656610	.4765595	1.063221	-.010619	1.155477	1.096281

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: ICSAB01 Acquired: 3/11/2025 11:11:19 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.094060	1.034286	.9741291	F .0053484	F -.012357	F .0048601
Stddev	.002147	.005189	.0038597	.0042496	.003410	.0003178
%RSD	.1962389	.5017397	.3962250	79.45469	27.59620	6.539006
#1	1.091581	1.038052	.9696862	.0064736	-.012357	.0046350
#2	1.095329	1.028367	.9760446	.0089221	-.008947	.0047216
#3	1.095269	1.036439	.9766564	.0006495	-.015767	.0052236

Elem	Sr4077
Units	ppm
Avg	F .0995862
Stddev	.0003956
%RSD	.3972943
#1	.0997357
#2	.0991375
#3	.0998852

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3144.939	66996.01	14158.31	2833.118	3834.859
Stddev	6.357	132.47	103.76	7.802	10.998
%RSD	.2021409	.1977223	.7328341	.2753773	.2867892
#1	3146.214	66843.09	14057.18	2826.988	3842.789
#2	3150.562	67069.27	14264.50	2830.465	3839.484
#3	3138.041	67075.66	14153.26	2841.900	3822.304

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: ICSADLX20 Acquired: 3/11/2025 11:15:30 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000741**	**-.001084**	**-.000532**	**.0005681**	**.0008515**	**12.46838**	**.0010819**
Stddev	.001122	.000923	.002147	.0011368	.0014289	.02153	.0010643
%RSD	151.4801	85.16198	403.5917	200.1023	167.8160	.1726575	98.37823
#1	.000544	-.001056	.000177	-.000338	.0002388	12.45849	-.000146
#2	-.001239	-.000175	-.002943	.001844	.0024845	12.49307	.001750
#3	-.001528	-.002020	.001170	.000198	-.000169	12.45357	.001641

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000311**	**-.000140**	**12.40300**	**.0027156**	**.0001136**	**.0001391**	**5.073083**
Stddev	.0000320	.000068	.06026	.0001890	.0000261	.0002449	.045340
%RSD	102.8137	48.34640	.4858218	6.960386	23.00214	176.0342	.8937337
#1	.0000250	-.000071	12.40025	.0026151	.0000840	.0003961	5.104543
#2	.0000026	-.000206	12.46458	.0029337	.0001334	-.000092	5.093595
#3	.0000656	-.000142	12.34416	.0025981	.0001234	.000113	5.021113

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007594**	**12.80251**	**.0000014**	**-.000007**	**.0196552**	**-.000463**	**-.008871**
Stddev	.0003840	.01819	.0002248	.000292	.0048645	.001325	.000224
%RSD	50.57487	.1421078	16491.32	3969.776	24.74895	285.8897	2.519312
#1	.0004401	12.78410	-.000204	-.000342	.0232009	-.001017	-.009064
#2	.0011855	12.80294	.000242	.000127	.0141095	-.001422	-.008626
#3	.0006525	12.82048	-.000034	.000193	.0216551	.001049	-.008923

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.063556**	**.0025240**	**.0000637**	**-.000116**	**-.000362**	**.0040800**	**-.002083**
Stddev	.014499	.0006971	.0002396	.000927	.000775	.0034899	.004166
%RSD	22.81337	27.61925	376.3563	798.7233	214.1730	85.53744	199.9641
#1	-.060789	.0031987	.0003403	-.000405	-.000696	.0002074	-.003594
#2	-.079240	.0025669	-.000081	-.000864	.000524	.0069815	.002627
#3	-.050640	.0018064	-.000068	.000921	-.000914	.0050512	-.005284

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: ICSADLX20 Acquired: 3/11/2025 11:15:30 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0000623	.0022224	.0050795
Stddev	.0027749	.0013298	.0000487
%RSD	4451.721	59.83505	.9598294
#1	.0032576	.0015361	.0051124
#2	-.001743	.0013761	.0051026
#3	-.001328	.0037552	.0050235

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3506.218	74458.82	15179.85	3156.775	4716.319
Stddev	11.579	270.47	43.36	14.054	14.362
%RSD	.3302460	.3632518	.2856236	.4451922	.3045178
#1	3502.257	74499.60	15229.37	3172.795	4705.675
#2	3497.140	74170.28	15148.70	3151.005	4710.628
#3	3519.258	74706.59	15161.49	3146.523	4732.654

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: ICSABDLX20 Acquired: 3/11/2025 11:19:47 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038527	.0041089	.0035678	.0016345	.0312770	12.63968	.0234131
Stddev	.0010850	.0019088	.0006503	.0001591	.0016132	.01800	.0011897
%RSD	28.16172	46.45544	18.22692	9.737085	5.157624	.1423749	5.081204
#1	.0036027	.0025295	.0030124	.0017798	.0306398	12.65591	.0241903
#2	.0029146	.0062301	.0042832	.0016594	.0300798	12.62033	.0240055
#3	.0050409	.0035673	.0034078	.0014644	.0331115	12.64280	.0220435

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0272676	.0507622	12.45772	.0297915	.0257750	.0271601	4.817542
Stddev	.0002476	.0000512	.05257	.0006577	.0000818	.0002550	.022857
%RSD	.9080850	.1009448	.4219586	2.207715	.3173561	.9389158	.4744537
#1	.0272064	.0508122	12.50367	.0290328	.0258694	.0268793	4.809901
#2	.0275401	.0507644	12.46909	.0302006	.0257312	.0273773	4.799485
#3	.0270563	.0507098	12.40040	.0301411	.0257244	.0272236	4.843241

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0273478	12.87074	.0509660	.0106777	.0151495	.0265128	.0453216
Stddev	.0002470	.04031	.0002423	.0000272	.0045547	.0003456	.0001389
%RSD	.9032194	.3131600	.4753235	.2551272	30.06511	1.303537	.3065500
#1	.0270867	12.87746	.0512006	.0106564	.0161535	.0268700	.0452529
#2	.0275777	12.90727	.0509806	.0107084	.0191185	.0261801	.0454816
#3	.0273790	12.82751	.0507167	.0106682	.0101765	.0264884	.0452305

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.052568	.0570245	.0570140	.0539613	.0540646	.0455826	.0005291
Stddev	.010728	.0009963	.0003377	.0003643	.0001653	.0057197	.0027192
%RSD	20.40869	1.747069	.5923262	.6751432	.3057370	12.54798	513.9586
#1	-.059383	.0562292	.0571731	.0541762	.0539119	.0504671	.0004704
#2	-.040201	.0581420	.0572427	.0535407	.0540419	.0392905	.0032772
#3	-.058119	.0567024	.0566261	.0541671	.0542402	.0469901	-.002160

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: ICSABDLX20 Acquired: 3/11/2025 11:19:47 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0011611	.0025391	.0052557
Stddev	.0017319	.0006961	.0000121
%RSD	149.1626	27.41340	.2294423
#1	-.000495	.0025204	.0052673
#2	.001018	.0018526	.0052432
#3	.002960	.0032443	.0052565

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3510.684	74918.72	14497.82	3167.749	4720.534
Stddev	6.712	163.98	118.46	10.009	8.262
%RSD	.1911924	.2188707	.8171034	.3159709	.1750264
#1	3503.238	74823.70	14457.30	3165.942	4711.748
#2	3512.543	75108.06	14404.94	3178.539	4721.708
#3	3516.271	74824.40	14631.23	3158.767	4728.147

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CCV01 Acquired: 3/11/2025 11:29:49 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.013815**	**5.094215**	**5.029486**	**4.993602**	**5.041576**	**10.00665**	**10.20211**
Stddev	.020655	.015571	.020462	.022594	.019328	.00303	.10931
%RSD	.4119609	.3056588	.4068493	.4524604	.3833730	.0302808	1.071452
#1	4.991372	5.080205	5.011181	4.972100	5.020199	10.00588	10.11422
#2	5.018046	5.091462	5.025700	4.991555	5.046712	10.00999	10.16759
#3	5.032026	5.110979	5.051577	5.017149	5.057818	10.00408	10.32451

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2525612**	**2.515191**	**25.15517**	**1.012507**	**2.520238**	**1.279098**	**5.079206**
Stddev	.0012327	.010194	.06631	.002583	.009571	.005698	.016889
%RSD	.4880821	.4053085	.2635856	.2551352	.3797481	.4454506	.3325121
#1	.2518220	2.505876	25.08342	1.010573	2.512900	1.274108	5.072177
#2	.2518773	2.513616	25.16789	1.015441	2.516751	1.277879	5.098474
#3	.2539842	2.526081	25.21419	1.011508	2.531063	1.285307	5.066966

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.516669**	**25.18749**	**2.510599**	**1.267001**	**24.65284**	**2.527331**	**2.561265**
Stddev	.002596	.04310	.009320	.002056	.19427	.006526	.003926
%RSD	.1031676	.1711063	.3712259	.1622759	.7880167	.2582292	.1532774
#1	2.519508	25.18873	2.501793	1.266124	24.66799	2.533698	2.558467
#2	2.514415	25.14378	2.509646	1.269350	24.83909	2.520657	2.565752
#3	2.516086	25.22995	2.520360	1.265529	24.45144	2.527636	2.559574

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.07330**	**4.989982**	**5.117875**	**5.024598**	**5.040577**	**5.026960**	**5.064661**
Stddev	.16189	.031697	.015605	.021009	.005728	.024360	.020417
%RSD	.6456652	.6352052	.3049139	.4181181	.1136473	.4845900	.4031278
#1	25.08648	4.974272	5.103251	5.006326	5.042137	5.012985	5.052741
#2	25.22819	4.969210	5.116071	5.019914	5.045363	5.055089	5.053006
#3	24.90522	5.026466	5.134304	5.047553	5.034230	5.012807	5.088236

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CCV01 Acquired: 3/11/2025 11:29:49 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.967341**	**4.978466**	**5.074225**
Stddev	.027026	.014193	.013859
%RSD	.5440742	.2850948	.2731281
#1	4.951054	4.975876	5.080318
#2	4.952431	4.993776	5.083993
#3	4.998538	4.965746	5.058363

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3392.969**	**72530.63**	**14572.25**	**3049.398**	**4361.688**
Stddev	7.476	142.00	68.76	4.806	10.620
%RSD	.2203343	.1957769	.4718217	.1575996	.2434788
#1	3398.597	72641.32	14611.80	3045.752	4369.213
#2	3395.824	72370.53	14612.10	3047.598	4366.310
#3	3384.486	72580.05	14492.86	3054.844	4349.540

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CCB01 Acquired: 3/11/2025 11:34:00 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000807**	**-.000655**	**-.000437**	**-.000533**	**.0013522**	**.0012725**	**-.001282**
Stddev	.001776	.000859	.000893	.000845	.0005617	.0039499	.000846
%RSD	219.9327	131.0634	204.3733	158.4757	41.53679	310.4145	65.98344
#1	-.000675	-.001183	.000578	-.001436	.0011780	-.003270	-.001562
#2	.000899	.000336	-.000789	-.000403	.0019803	.003902	-.000331
#3	-.002645	-.001118	-.001100	.000239	.0008982	.003185	-.001952

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000072**	**.0000066**	**-.009004**	**.0000289**	**-.000045**	**-.000246**	**-.004656**
Stddev	.000041	.0000401	.003731	.0001679	.000218	.000400	.002665
%RSD	57.26535	610.5759	41.43943	581.1376	480.9911	163.1073	57.23223
#1	-.000095	-.000014	-.008014	-.000165	-.000009	-.000377	-.001783
#2	-.000095	-.000019	-.005868	.000131	-.000279	-.000564	-.005140
#3	-.000024	.000053	-.013131	.000120	.000152	.000204	-.007047

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006715**	**.0126554**	**-.000395**	**.0001491**	**.0154540**	**-.000299**	**-.009253**
Stddev	.0001084	.0121225	.000185	.0001803	.0055233	.001075	.000077
%RSD	16.14341	95.78883	46.92795	120.9370	35.74026	360.1112	.8339290
#1	.0007501	.0119085	-.000553	.0003403	.0091017	-.000934	-.009165
#2	.0005478	.0009237	-.000191	.0001248	.0181375	-.000905	-.009288
#3	.0007167	.0251340	-.000442	-.000018	.0191229	.000943	-.009307

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.093027**	**-.000483**	**.0003066**	**.0002209**	**.0003253**	**.0062850**	**-.000272**
Stddev	.035884	.000108	.0001099	.0002631	.0004159	.0020958	.001247
%RSD	38.57366	22.36738	35.84449	119.0831	127.8598	33.34623	458.4878
#1	-.132275	-.000537	.0002882	.0001096	.0004717	.0073767	-.001165
#2	-.084909	-.000553	.0004245	.0005213	-.000144	.0076097	-.000804
#3	-.061898	-.000359	.0002071	.0000318	.000648	.0038687	.001153

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CCB01 Acquired: 3/11/2025 11:34:00 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.001032**	**.0031594**	**.0000440**
Stddev	.003017	.0010338	.0000132
%RSD	292.3423	32.72068	29.94667
#1	-.003679	.0033957	.0000391
#2	-.001670	.0040545	.0000340
#3	.002253	.0020279	.0000589

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3548.931**	**75922.67**	**14985.01**	**3207.332**	**4997.545**
Stddev	3.311	85.36	114.90	15.760	10.061
%RSD	.0932850	.1124352	.7667392	.4913782	.2013202
#1	3549.555	75826.09	15087.86	3192.906	4994.896
#2	3551.885	75988.02	14861.01	3204.937	5008.665
#3	3545.352	75953.90	15006.16	3224.152	4989.072

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1421-04 Acquired: 3/11/2025 11:38:19 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036310**	**.0061313**	**.0051959**	**-.016616**	**-.002633**	**.2845210**
Stddev	.0020328	.0004399	.0007225	.003216	.000780	.0017357
%RSD	55.98390	7.175208	13.90408	19.35525	29.63132	.6100515
#1	.0050696	.0064942	.0059606	-.013339	-.002668	.2838075
#2	.0013055	.0062576	.0051023	-.019768	-.003395	.2864997
#3	.0045180	.0056420	.0045248	-.016741	-.001836	.2832557

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1046671**	**.0012167**	**-.003653**	**42.30946**	**-.000895**	**.0252607**
Stddev	.0005233	.0000238	.000057	.11366	.000094	.0003794
%RSD	.4999516	1.953096	1.554468	.2686456	10.50599	1.502069
#1	.1052714	.0012258	-.003608	42.40454	-.000985	.0249051
#2	.1043647	.0012346	-.003635	42.18357	-.000798	.0252170
#3	.1043653	.0011897	-.003717	42.34026	-.000903	.0256601

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0196029**	**81.15160**	**1.793575**	**8.952019**	**.0575150**	**-.001573**
Stddev	.0003897	.47331	.002941	.053885	.0005096	.000200
%RSD	1.987776	.5832411	.1639763	.6019367	.8860455	12.69729
#1	.0191539	80.70799	1.794718	9.009684	.0572565	-.001592
#2	.0198525	81.09695	1.795772	8.943425	.0571864	-.001762
#3	.0198022	81.64987	1.790233	8.902946	.0581020	-.001364

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.912554**	**.0006680**	**.1561033**	**3.631519**	**.1676757**	**-.001187**
Stddev	.016482	.0014440	.0007890	.056566	.0013520	.000364
%RSD	.8617997	216.1838	.5054484	1.557629	.8063069	30.62726
#1	1.894801	.0023354	.1558797	3.567230	.1678106	-.001568
#2	1.915489	-.000167	.1569800	3.653666	.1662614	-.001149
#3	1.927371	-.000165	.1554501	3.673659	.1689552	-.000844

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1421-04 Acquired: 3/11/2025 11:38:19 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001829	-.001154	2.104238	.0098435	F 64.62448	.0443044
Stddev	.000379	.000049	.014046	.0017967	.39075	.0001893
%RSD	20.74499	4.271660	.6675237	18.25231	.6046531	.4272780
#1	-.002061	-.001104	2.090613	.0103366	64.20978	.0441089
#2	-.002035	-.001202	2.118671	.0113422	64.67786	.0444869
#3	-.001391	-.001156	2.103431	.0078518	64.98580	.0443174

Elem	Sr4077
Units	ppm
Avg	.2445911
Stddev	.0005698
%RSD	.2329548
#1	.2441793
#2	.2452414
#3	.2443527

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3463.404	74895.76	15092.92	3146.079	4751.055
Stddev	20.339	431.81	36.21	17.436	24.428
%RSD	.5872590	.5765518	.2399164	.5542207	.5141636
#1	3483.127	75393.04	15061.41	3166.115	4776.758
#2	3464.585	74615.52	15084.88	3134.348	4748.266
#3	3442.500	74678.73	15132.48	3137.773	4728.141

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1421-04DUP Acquired: 3/11/2025 11:42:33 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025857**	**.0052711**	**.0036526**	**-.017837**	**-.001153**	**.2880629**
Stddev	.0027603	.0009233	.0010359	.001092	.001441	.0059189
%RSD	106.7544	17.51531	28.36118	6.124266	124.9624	2.054730
#1	.0006774	.0056153	.0024794	-.016605	-.002736	.2817395
#2	.0013288	.0042252	.0040372	-.018216	-.000805	.2889786
#3	.0057507	.0059728	.0044412	-.018689	.000082	.2934706

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1120489**	**.0011046**	**-.004568**	**42.34968**	**-.001178**	**.0252087**
Stddev	.0003007	.0000535	.000049	.05247	.000516	.0004574
%RSD	.2683890	4.839727	1.067793	.1239085	43.80039	1.814440
#1	.1122335	.0010466	-.004591	42.28993	-.001048	.0257204
#2	.1117019	.0011154	-.004512	42.37087	-.000740	.0248396
#3	.1122113	.0011519	-.004602	42.38825	-.001747	.0250662

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0190393**	**85.23676**	**1.768315**	**8.913781**	**.0572762**	**-.000790**
Stddev	.0000961	.34631	.002788	.025427	.0004515	.000195
%RSD	.5047103	.4062910	.1576600	.2852542	.7883202	24.71961
#1	.0189745	85.59439	1.769865	8.931939	.0577916	-.000845
#2	.0189938	85.21287	1.769985	8.884721	.0569503	-.000951
#3	.0191497	84.90301	1.765097	8.924683	.0570867	-.000573

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.956056**	**.0012674**	**.1558088**	**3.834076**	**.1775287**	**-.001210**
Stddev	.003588	.0008141	.0005810	.017163	.0014686	.000114
%RSD	.1834487	64.23356	.3728646	.4476563	.8272701	9.414593
#1	1.960083	.0014509	.1557641	3.828368	.1788799	-.001290
#2	1.954888	.0003772	.1564108	3.853366	.1759656	-.001079
#3	1.953198	.0019740	.1552515	3.820494	.1777404	-.001260

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1421-04DUP Acquired: 3/11/2025 11:42:33 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002482	-.001198	2.174983	.0080900	F 64.66262	.0451443
Stddev	.000644	.000164	.010164	.0032531	.23513	.0003149
%RSD	25.95985	13.71912	.4673197	40.21176	.3636334	.6976541
#1	-.002718	-.001135	2.181399	.0043751	64.83920	.0450194
#2	-.001753	-.001384	2.180286	.0104296	64.39572	.0449110
#3	-.002975	-.001074	2.163264	.0094655	64.75295	.0455025

Elem	Sr4077
Units	ppm
Avg	.2383873
Stddev	.0007899
%RSD	.3313350
#1	.2391827
#2	.2383761
#3	.2376031

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3468.498	74665.26	15633.06	3119.875	4751.606
Stddev	5.706	242.60	62.12	5.447	8.614
%RSD	.1645166	.3249200	.3973316	.1745824	.1812795
#1	3465.940	74718.55	15704.57	3118.775	4749.439
#2	3475.036	74400.45	15602.14	3115.062	4761.096
#3	3464.518	74876.79	15592.47	3125.788	4744.283

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1421-04DLX5 Acquired: 3/11/2025 11:46:45 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002667**	**.0007957**	**.0004149**	**-.003110**	**-.000119**	**.0618479**
Stddev	.001123	.0010101	.0005737	.002145	.001102	.0020239
%RSD	42.09640	126.9475	138.2811	68.95287	923.4412	3.272395
#1	-.001656	.0017815	.0009494	-.002066	-.000082	.0621057
#2	-.002471	-.000237	-.000191	-.001688	-.001240	.0637305
#3	-.003876	.000843	.000486	-.005577	.000964	.0597074

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0225332**	**.0001962**	**-.000881**	**8.577295**	**-.000480**	**.0048573**
Stddev	.0004329	.0000463	.000029	.009346	.000396	.0001630
%RSD	1.921118	23.62309	3.347833	.1089619	82.54822	3.355046
#1	.0220394	.0001597	-.000860	8.577908	-.000424	.0050350
#2	.0227130	.0002483	-.000868	8.586319	-.000901	.0047148
#3	.0228473	.0001805	-.000915	8.567657	-.000115	.0048220

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039150**	**16.37994**	**.3588708**	**1.802134**	**.0110553**	**-.000301**
Stddev	.0005828	.03301	.0003636	.004273	.0001487	.000059
%RSD	14.88615	.2014972	.1013323	.2371351	1.345382	19.60113
#1	.0040744	16.37764	.3584765	1.801009	.0108842	-.000332
#2	.0044015	16.34814	.3591930	1.798536	.0111535	-.000233
#3	.0032691	16.41403	.3589429	1.806858	.0111282	-.000339

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3580502**	**.0000625**	**.0228559**	**.6254946**	**.0295576**	**-.000322**
Stddev	.0041985	.0004706	.0005390	.0167296	.0005576	.000186
%RSD	1.172597	752.3901	2.358443	2.674617	1.886614	57.76711
#1	.3534823	.0000236	.0234258	.6207384	.0301698	-.000522
#2	.3617404	.0005514	.0223542	.6116581	.0290787	-.000292
#3	.3589280	-.000387	.0227877	.6440872	.0294245	-.000153

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1421-04DLX5 Acquired: 3/11/2025 11:46:45 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000575	-.000096	.4082413	.0008152	F 12.65381	.0114663
Stddev	.000311	.000523	.0024386	.0021149	.01458	.0005440
%RSD	54.11058	545.9964	.5973338	259.4349	.1151954	4.744087
#1	-.000520	-.000318	.4057934	.0028003	12.65886	.0113127
#2	-.000295	.000501	.4082603	-.001409	12.66519	.0110156
#3	-.000910	-.000471	.4106704	.001054	12.63738	.0120705

Elem	Sr4077
Units	ppm
Avg	.0481547
Stddev	.0000790
%RSD	.1639754
#1	.0481450
#2	.0482380
#3	.0480810

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3557.500	76619.41	15120.25	3187.458	4927.871
Stddev	3.337	97.46	6.62	6.555	3.315
%RSD	.0937985	.1272064	.0438115	.2056569	.0672792
#1	3560.014	76616.04	15123.92	3185.942	4925.804
#2	3553.714	76718.51	15112.60	3181.793	4926.114
#3	3558.772	76523.67	15124.23	3194.638	4931.695

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1421-05 Acquired: 3/11/2025 11:51:01 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8071868**	**1.927355**	**.9473604**	**1.882696**	**.8018276**	**2.215786**
Stddev	.0083565	.006090	.0049007	.012723	.0052322	.010172
%RSD	1.035262	.3159960	.5173013	.6757672	.6525381	.4590814
#1	.8013304	1.928263	.9441059	1.879938	.7976792	2.216407
#2	.8034737	1.920861	.9449785	1.871579	.8000980	2.205318
#3	.8167564	1.932940	.9529967	1.896572	.8077057	2.225634

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2893132**	**.2051716**	**.1853101**	**42.72816**	**.3939210**	**.2171895**
Stddev	.0007244	.0018928	.0011691	.10786	.0017066	.0015286
%RSD	.2503979	.9225512	.6309110	.2524287	.4332311	.7038044
#1	.2901396	.2041834	.1848323	42.77965	.3919521	.2164516
#2	.2890128	.2039774	.1844556	42.60421	.3949766	.2161698
#3	.2887874	.2073540	.1866425	42.80064	.3948342	.2189470

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3272646**	**81.44358**	**1.952591**	**10.76745**	**.5360657**	**.0741210**
Stddev	.0022905	.65505	.008654	.03557	.0039734	.0004577
%RSD	.6999055	.8042991	.4432197	.3303689	.7412096	.6174555
#1	.3274545	81.77666	1.944940	10.76061	.5349842	.0736815
#2	.3248851	81.86516	1.950851	10.73580	.5327450	.0745949
#3	.3294543	80.68892	1.961984	10.80595	.5404678	.0740867

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.664336**	**.2901951**	**.3632942**	**12.93200**	**.4443266**	**.4119157**
Stddev	.045315	.0024159	.0000982	.12440	.0030464	.0028310
%RSD	.9715103	.8324912	.0270286	.9619236	.6856307	.6872895
#1	4.655232	.2924771	.3633861	12.94137	.4408188	.4115459
#2	4.713511	.2876646	.3631908	13.05144	.4463091	.4092877
#3	4.624264	.2904436	.3633059	12.80318	.4458519	.4149135

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1421-05 Acquired: 3/11/2025 11:51:01 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6658681	.1879736	2.800737	5.603596	F 64.11128	.2388262
Stddev	.0058939	.0004578	.026999	.036034	.30706	.0016024
%RSD	.8851515	.2435307	.9639972	.6430528	.4789480	.6709630
#1	.6626384	.1883675	2.801987	5.581595	64.03693	.2396649
#2	.6622950	.1880819	2.827090	5.584012	63.84823	.2369785
#3	.6726710	.1874714	2.773135	5.645181	64.44869	.2398353

Elem	Sr4077
Units	ppm
Avg	.4423377
Stddev	.0014443
%RSD	.3265188
#1	.4411995
#2	.4418511
#3	.4439625

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3433.446	74432.09	14592.74	3121.508	4660.655
Stddev	23.308	207.92	115.26	6.424	29.365
%RSD	.6788635	.2793415	.7898220	.2058011	.6300577
#1	3443.200	74582.78	14630.78	3126.554	4676.665
#2	3450.293	74194.88	14684.17	3123.694	4678.536
#3	3406.845	74518.62	14463.27	3114.277	4626.765

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1421-06 Acquired: 3/11/2025 11:55:01 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8104403**	**1.922803**	**.9477248**	**1.904067**	**.7967712**	**2.237153**
Stddev	.0033218	.024171	.0039958	.007591	.0058298	.007176
%RSD	.4098724	1.257088	.4216154	.3986855	.7316799	.3207791
#1	.8130760	1.899970	.9513868	1.901958	.7924899	2.245072
#2	.8067092	1.920318	.9434631	1.897753	.7944130	2.235306
#3	.8115358	1.948121	.9483244	1.912489	.8034107	2.231080

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2843195**	**.2118295**	**.1854873**	**43.29244**	**.3951899**	**.2167724**
Stddev	.0022111	.0001793	.0007683	.17519	.0011064	.0006386
%RSD	.7776867	.0846588	.4142021	.4046659	.2799606	.2945817
#1	.2862153	.2118321	.1850714	43.40291	.3959887	.2168307
#2	.2848526	.2120074	.1850166	43.38396	.3939271	.2161067
#3	.2818906	.2116488	.1863739	43.09044	.3956540	.2173799

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3273026**	**78.71442**	**1.970834**	**10.78680**	**.5364625**	**.0732527**
Stddev	.0011460	.21310	.003663	.02514	.0031134	.0001582
%RSD	.3501452	.2707261	.1858610	.2330561	.5803593	.2159962
#1	.3270387	78.95995	1.974248	10.80169	.5365272	.0734289
#2	.3263115	78.57750	1.971290	10.80094	.5333172	.0731227
#3	.3285575	78.60582	1.966964	10.75778	.5395431	.0732066

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.627477**	**.2881523**	**.3622930**	**12.34622**	**.4490084**	**.4050651**
Stddev	.011861	.0023834	.0012962	.06329	.0011030	.0008062
%RSD	.2563271	.8271461	.3577772	.5126457	.2456569	.1990257
#1	4.618999	.2907490	.3637735	12.38845	.4502757	.4047017
#2	4.622399	.2876437	.3617432	12.27345	.4482643	.4045046
#3	4.641032	.2860643	.3613624	12.37677	.4484853	.4059890

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1421-06 Acquired: 3/11/2025 11:55:01 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6597802	.1842969	2.705488	5.569439	F 64.77622	.2368063
Stddev	.0023088	.0005529	.016695	.029834	.27810	.0006800
%RSD	.3499362	.2999866	.6170688	.5356748	.4293221	.2871664
#1	.6593184	.1849338	2.718586	5.560156	64.65613	.2370088
#2	.6577371	.1839407	2.686690	5.545350	64.57835	.2373621
#3	.6622849	.1840162	2.711188	5.602811	65.09419	.2360480

Elem	Sr4077
Units	ppm
Avg	.4476205
Stddev	.0003210
%RSD	.0717023
#1	.4478680
#2	.4472578
#3	.4477356

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3401.426	73799.01	13908.66	3090.392	4616.364
Stddev	9.216	171.18	42.07	5.867	15.956
%RSD	.2709502	.2319597	.3024520	.1898554	.3456370
#1	3403.761	73654.07	13878.04	3083.617	4623.159
#2	3409.250	73987.88	13891.31	3093.722	4627.798
#3	3391.267	73755.08	13956.62	3093.836	4598.136

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1421-04A Acquired: 3/11/2025 11:59:00 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8140020**	**1.942634**	**.9468162**	**1.906876**	**.8234459**	**2.209225**
Stddev	.0017571	.007744	.0023869	.002052	.0015418	.001033
%RSD	.2158527	.3986254	.2520955	.1076086	.1872326	.0467468
#1	.8160307	1.946638	.9484042	1.908995	.8252253	2.209129
#2	.8130141	1.933708	.9440714	1.906735	.8225080	2.210302
#3	.8129613	1.947555	.9479731	1.904898	.8226044	2.208243

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3004397**	**.1913241**	**.1841061**	**42.97449**	**.3944588**	**.2163247**
Stddev	.0011166	.0005031	.0000890	.07523	.0010991	.0003198
%RSD	.3716460	.2629731	.0483497	.1750464	.2786329	.1478132
#1	.3015039	.1919046	.1841825	42.92301	.3946546	.2159592
#2	.2992772	.1910137	.1841276	42.93963	.3932750	.2165528
#3	.3005380	.1910540	.1840083	43.06082	.3954469	.2164621

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3239397**	**86.78041**	**1.954815**	**10.70710**	**.5363765**	**.0742138**
Stddev	.0007041	.38075	.004958	.04493	.0004436	.0001258
%RSD	.2173433	.4387462	.2536379	.4196617	.0827043	.1694627
#1	.3240510	86.54348	1.949094	10.67515	.5368401	.0741967
#2	.3231866	86.57815	1.957499	10.68768	.5359560	.0740975
#3	.3245815	87.21960	1.957853	10.75848	.5363333	.0743473

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.952720**	**.2904306**	**.3604191**	**13.86571**	**.4389107**	**.4167413**
Stddev	.029817	.0024211	.0008292	.02049	.0029845	.0005409
%RSD	.6020283	.8336304	.2300737	.1477918	.6799892	.1297828
#1	4.937104	.2918112	.3613032	13.85242	.4395056	.4171164
#2	4.933955	.2876350	.3596586	13.85541	.4356735	.4161213
#3	4.987102	.2918456	.3602956	13.88931	.4415530	.4169861

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1421-04A Acquired: 3/11/2025 11:59:00 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6790975	.1928507	2.989505	5.570648	F 64.86057	.2425040
Stddev	.0007019	.0004831	.018003	.008691	.09059	.0015055
%RSD	.1033534	.2505015	.6022137	.1560193	.1396734	.6208261
#1	.6786365	.1926435	2.969310	5.580634	64.96167	.2407683
#2	.6787507	.1925057	2.995331	5.566514	64.78676	.2434561
#3	.6799053	.1934028	3.003873	5.564795	64.83327	.2432877

Elem	Sr4077
Units	ppm
Avg	.4384889
Stddev	.0002814
%RSD	.0641789
#1	.4382173
#2	.4387792
#3	.4384702

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3406.186	74164.74	15470.39	3111.749	4619.334
Stddev	3.846	283.08	17.07	10.713	1.104
%RSD	.1129036	.3816898	.1103686	.3442755	.0238941
#1	3409.650	74386.47	15486.82	3113.297	4619.420
#2	3406.859	74261.87	15471.60	3121.604	4620.392
#3	3402.048	73845.88	15452.74	3100.346	4618.190

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1490-01 Acquired: 3/11/2025 12:02:59 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0595389	.0103297	1.110195	-.062238	.0061187	59.51088
Stddev	.0016160	.0023640	.002592	.004007	.0005636	.15863
%RSD	2.714118	22.88498	.2334755	6.437588	9.211295	.2665607
#1	.0613705	.0108420	1.108920	-.062564	.0067664	59.65909
#2	.0583145	.0077516	1.113177	-.058078	.0057399	59.52998
#3	.0589316	.0123955	1.108487	-.066071	.0058497	59.34356

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9460514	.0052585	-.001791	76.78941	.4775603	.1188605
Stddev	.0034719	.0000902	.000214	.24696	.0022428	.0004189
%RSD	.3669905	1.715096	11.97533	.3216133	.4696432	.3524576
#1	.9483408	.0053417	-.001993	76.99066	.4765945	.1183774
#2	.9477568	.0051626	-.001566	76.86375	.4759622	.1190807
#3	.9420565	.0052711	-.001814	76.51381	.4801243	.1191233

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.198148	372.6128	3.595155	38.77835	.3825546	.0015411
Stddev	.000673	.8897	.008452	.12282	.0014328	.0000442
%RSD	.0562088	.2387626	.2351064	.3167196	.3745265	2.866087
#1	1.198438	373.6385	3.603692	38.91150	.3824076	.0015209
#2	1.197378	372.0500	3.594984	38.75403	.3840552	.0015918
#3	1.198627	372.1500	3.586789	38.66951	.3812010	.0015107

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	220.5947	.2813462	3.119761	16.38926	.6425530	.0546116
Stddev	1.1521	.0009995	.009038	.05548	.0016803	.0003063
%RSD	.5222587	.3552386	.2897044	.3385027	.2614965	.5607897
#1	219.2644	.2824277	3.122255	16.45332	.6444543	.0548986
#2	221.2501	.2804567	3.109737	16.35666	.6412678	.0546471
#3	221.2695	.2811542	3.127290	16.35780	.6419369	.0542892

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1490-01 Acquired: 3/11/2025 12:02:59 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4219299	4.933573	3.835525	F 13.77352	8.453713	.2154080
Stddev	.0012969	.018087	.022566	.03698	.020054	.0003810
%RSD	.3073650	.3666180	.5883398	.2684913	.2372187	.1768702
#1	.4212775	4.950897	3.857016	13.73589	8.451201	.2152137
#2	.4234234	4.935014	3.812019	13.80981	8.474904	.2158469
#3	.4210888	4.914809	3.837539	13.77486	8.435033	.2151633

Elem	Sr4077
Units	ppm
Avg	.3498932
Stddev	.0010923
%RSD	.3121872
#1	.3509823
#2	.3498997
#3	.3487977

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3603.138	78722.67	17603.77	3272.965	3934.801
Stddev	1.846	134.06	27.58	6.351	6.047
%RSD	.0512208	.1702995	.1566602	.1940403	.1536917
#1	3603.628	78669.30	17584.80	3265.683	3935.896
#2	3604.689	78875.20	17591.10	3277.359	3928.281
#3	3601.097	78623.50	17635.40	3275.851	3940.226

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1490-02 Acquired: 3/11/2025 12:07:11 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007441**	**-.007118**	**.0192688**	**.0048395**	**.0045515**	**.0434083**	**.2285756**
Stddev	.003138	.001467	.0008738	.0007954	.0009125	.0023325	.0016964
%RSD	42.17628	20.60550	4.534762	16.43598	20.04886	5.373482	.7421476
#1	-.010535	-.007280	.0201898	.0040623	.0039003	.0409366	.2295763
#2	-.004260	-.008498	.0184514	.0048043	.0055945	.0455708	.2266170
#3	-.007529	-.005578	.0191654	.0056519	.0041597	.0437177	.2295337

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000190**	**.0012691**	**35.07153**	**-.000367**	**.0087763**	**.0170742**	**1.772496**
Stddev	.000027	.0000468	.15984	.000232	.0003217	.0004044	.004622
%RSD	14.31334	3.691136	.4557657	63.20026	3.665796	2.368274	.2607794
#1	-.000221	.0012394	35.22991	-.000284	.0090063	.0168078	1.767693
#2	-.000179	.0012448	34.91027	-.000629	.0089140	.0168753	1.772882
#3	-.000170	.0013231	35.07442	-.000188	.0084087	.0175395	1.776913

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8218877**	**2.557314**	**.0179605**	**-.000253**	**516.9326**	**-.000961**	**.6978211**
Stddev	.0038919	.026683	.0002872	.000141	8.1215	.000510	.0011595
%RSD	.4735371	1.043393	1.599188	55.59660	1.571090	53.09184	.1661589
#1	.8263808	2.570403	.0176747	-.000382	510.1383	-.001055	.6982017
#2	.8195620	2.574925	.0179577	-.000275	514.7317	-.001419	.6987425
#3	.8197202	2.526614	.0182491	-.000103	525.9276	-.000411	.6965192

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.184803**	**.0122982**	**.0001276**	**-.001110**	**-.000833**	**1.105847**	**.0084064**
Stddev	.005529	.0005765	.0000512	.001238	.000547	.009489	.0024931
%RSD	.4666498	4.687989	40.12004	111.5069	65.70539	.8580804	29.65763
#1	1.178477	.0127546	.0000691	-.000040	-.000994	1.106260	.0094455
#2	1.188712	.0124897	.0001495	-.002465	-.001281	1.115123	.0055618
#3	1.187219	.0116503	.0001643	-.000825	-.000223	1.096158	.0102119

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1490-02 Acquired: 3/11/2025 12:07:11 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7989501	-.001397	.1548272
Stddev	.0074717	.000392	.0004329
%RSD	.9351889	28.04331	.2796154
#1	.8040654	-.001841	.1552301
#2	.8024093	-.001098	.1548818
#3	.7903757	-.001253	.1543695

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3203.998	68829.39	14695.68	2908.442	4004.551
Stddev	1.650	276.12	78.46	.156	3.531
%RSD	.0514866	.4011606	.5338812	.0053486	.0881813
#1	3202.348	69140.58	14612.84	2908.608	4000.477
#2	3204.000	68733.86	14768.86	2908.418	4006.739
#3	3205.647	68613.72	14705.35	2908.299	4006.436

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-03 Acquired: 3/11/2025 12:11:35 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0354701	-.000711	.0869156	-.034136	-.006336	85.23864	.6186354
Stddev	.0005072	.002211	.0012041	.000298	.001558	.17569	.0014529
%RSD	1.429936	311.0975	1.385383	.8738358	24.58302	.2061201	.2348594
#1	.0354156	.001663	.0868974	-.034478	-.007740	85.03607	.6170499
#2	.0349924	-.002711	.0881286	-.034003	-.004660	85.34945	.6199032
#3	.0360024	-.001085	.0857206	-.033928	-.006607	85.33041	.6189531

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054003	-.003208	26.52884	.1517017	.0884462	.2537724	189.8894
Stddev	.0000237	.000143	.06703	.0005091	.0002550	.0006645	.6789
%RSD	.4382049	4.447237	.2526759	.3356206	.2883531	.2618308	.3575124
#1	.0054263	-.003299	26.47043	.1517787	.0887237	.2541021	190.2241
#2	.0053799	-.003043	26.60203	.1521680	.0882220	.2542076	189.1081
#3	.0053948	-.003282	26.51406	.1511585	.0883931	.2530076	190.3359

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.741703	33.12548	.1629619	-.000877	3.170016	.3167912	.8111526
Stddev	.001805	.07748	.0002315	.000242	.014016	.0016700	.0014151
%RSD	.0658466	.2338908	.1420708	27.55633	.4421376	.5271611	.1744594
#1	2.739997	33.14277	.1630828	-.001145	3.159080	.3148646	.8127646
#2	2.743594	33.19286	.1626949	-.000808	3.165152	.3178249	.8105786
#3	2.741520	33.04082	.1631079	-.000677	3.185816	.3176842	.8101147

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.735801	.2646823	.0022925	.0024324	3.565688	2.994007	4.737122
Stddev	.019302	.0030761	.0000707	.0009833	.007575	.012845	.006694
%RSD	.2865622	1.162201	3.085422	40.42586	.2124435	.4290371	.1413112
#1	6.714452	.2682279	.0023712	.0025855	3.556941	3.001630	4.743056
#2	6.740933	.2627252	.0022342	.0013816	3.570071	2.979176	4.738443
#3	6.752019	.2630938	.0022720	.0033303	3.570051	3.001215	4.729865

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-03 Acquired: 3/11/2025 12:11:35 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.015749	.1713464	.1008545
Stddev	.002448	.0006752	.0001973
%RSD	.2409571	.3940243	.1955952
#1	1.017955	.1709517	.1006268
#2	1.016177	.1709614	.1009740
#3	1.013116	.1721259	.1009626

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3781.561	82312.67	16770.23	3426.265	4410.848
Stddev	1.931	269.28	79.76	11.437	4.999
%RSD	.0510759	.3271406	.4756131	.3337921	.1133335
#1	3782.201	82006.85	16757.32	3413.082	4414.778
#2	3783.092	82514.23	16697.71	3433.525	4405.221
#3	3779.391	82416.93	16855.66	3432.188	4412.544

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-05 Acquired: 3/11/2025 12:15:40 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0255978	-.016250	.0682288	-.038248	-.004456	92.82520	.5247303
Stddev	.0010261	.000817	.0028295	.003445	.001179	.06743	.0003281
%RSD	4.008547	5.029283	4.147108	9.006355	26.46624	.0726446	.0625332
#1	.0244870	-.015314	.0650088	-.042189	-.003179	92.74836	.5246658
#2	.0265102	-.016615	.0693589	-.036746	-.005504	92.85271	.5250859
#3	.0257963	-.016821	.0703185	-.035809	-.004685	92.87453	.5244392

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050307	-.002467	56.65395	.1498368	.1247291	.4340522	221.9629
Stddev	.0000760	.000217	.08409	.0005064	.0003958	.0013200	.5337
%RSD	1.511390	8.805646	.1484203	.3379618	.3173029	.3041144	.2404312
#1	.0050718	-.002247	56.63034	.1500166	.1243406	.4334768	221.6508
#2	.0050773	-.002681	56.74732	.1502288	.1247151	.4331176	222.5791
#3	.0049429	-.002472	56.58420	.1492651	.1251318	.4355622	221.6587

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.024846	54.39185	.2235511	-.000422	6.820157	.4054600	.3497770
Stddev	.004367	.00718	.0004086	.000461	.040708	.0016900	.0017881
%RSD	.1443739	.0132052	.1827642	109.1850	.5968819	.4168166	.5111986
#1	3.026536	54.39835	.2239820	-.000466	6.775157	.4064422	.3484677
#2	3.019887	54.39304	.2231692	.000059	6.830894	.4064294	.3518142
#3	3.028116	54.38414	.2235020	-.000860	6.854421	.4035086	.3490490

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.703551	.3470973	.0004714	-.004890	7.692024	2.689103	5.933589
Stddev	.013899	.0004386	.0003790	.001375	.007669	.006220	.017489
%RSD	.2436907	.1263519	80.40989	28.12741	.0997052	.2313023	.2947415
#1	5.718510	.3467649	.0002398	-.005033	7.689493	2.682518	5.915138
#2	5.691036	.3475944	.0002655	-.003448	7.700639	2.689912	5.935705
#3	5.701106	.3469327	.0009088	-.006188	7.685940	2.694879	5.949923

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-05 Acquired: 3/11/2025 12:15:40 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3460718	.1754247	.1629151
Stddev	.0054607	.0008712	.0001581
%RSD	1.577916	.4966210	.0970295
#1	.3420022	.1747360	.1629233
#2	.3522777	.1751340	.1627530
#3	.3439354	.1764041	.1630689

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3840.530	83280.18	17960.90	3491.786	4227.805
Stddev	5.644	61.89	23.88	12.906	4.132
%RSD	.1469679	.0743179	.1329486	.3696089	.0977248
#1	3841.173	83351.45	17933.60	3502.724	4231.893
#2	3845.825	83249.16	17971.18	3477.551	4227.893
#3	3834.591	83239.93	17977.91	3495.081	4223.631

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CCV02 Acquired: 3/11/2025 12:19:46 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.145613**	**5.218058**	**5.124058**	**5.167211**	**5.161724**	**10.30241**	**9.970555**
Stddev	.015074	.031136	.007206	.020056	.009606	.00213	.067846
%RSD	.2929498	.5966889	.1406355	.3881419	.1861047	.0206602	.6804606
#1	5.152086	5.223076	5.126429	5.163455	5.154818	10.30484	9.959727
#2	5.128383	5.184719	5.115965	5.149299	5.157660	10.30152	10.04316
#3	5.156369	5.246381	5.129780	5.188880	5.172694	10.30087	9.90877

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2691760**	**2.565517**	**25.31436**	**1.035633**	**2.565590**	**1.304163**	**4.918616**
Stddev	.0005571	.004138	.09618	.004138	.005189	.002988	.013451
%RSD	.2069635	.1612926	.3799295	.3995759	.2022733	.2291183	.2734789
#1	.2696838	2.567408	25.35558	1.033982	2.567214	1.302096	4.903244
#2	.2692640	2.560771	25.38305	1.040342	2.559782	1.302804	4.928228
#3	.2685801	2.568371	25.20444	1.032575	2.569773	1.307589	4.924376

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.571312**	**25.37809**	**2.553003**	**1.298927**	**24.95535**	**2.539750**	**2.621786**
Stddev	.000102	.07524	.005269	.004220	.06801	.003303	.007244
%RSD	.0039692	.2964895	.2063743	.3248481	.2725358	.1300384	.2763120
#1	2.571413	25.37293	2.554037	1.297473	24.92533	2.539197	2.622014
#2	2.571209	25.45577	2.547294	1.303681	25.03321	2.543294	2.628913
#3	2.571315	25.30555	2.557678	1.295626	24.90752	2.536759	2.614430

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.51083**	**5.312162**	**5.193559**	**5.095299**	**5.034266**	**4.938909**	**5.143191**
Stddev	.05670	.008669	.011969	.016823	.018868	.020450	.018089
%RSD	.2313422	.1631893	.2304637	.3301729	.3747944	.4140653	.3516999
#1	24.49234	5.321579	5.187582	5.108452	5.046042	4.919173	5.145043
#2	24.57447	5.310393	5.185755	5.076342	5.044254	4.960006	5.124248
#3	24.46568	5.304514	5.207340	5.101103	5.012504	4.937546	5.160283

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CCV02 Acquired: 3/11/2025 12:19:46 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.113381**	**5.038161**	**5.321282**
Stddev	.005828	.009104	.013888
%RSD	.1139698	.1807097	.2609813
#1	5.118024	5.046947	5.323733
#2	5.106841	5.038768	5.333781
#3	5.115278	5.028769	5.306332

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3433.542**	**72997.94**	**14235.35**	**3078.629**	**4406.780**
Stddev	3.814	254.33	48.62	13.502	5.877
%RSD	.1110831	.3484078	.3415223	.4385800	.1333607
#1	3435.925	73054.98	14202.08	3073.568	4402.998
#2	3435.558	72719.94	14212.83	3068.388	4413.550
#3	3429.143	73218.91	14291.14	3093.931	4403.791

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CCB02 Acquired: 3/11/2025 12:23:56 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002653	-.000140	-.000134	-.001036	.0017416	.0065027	-.001442
Stddev	.0010194	.000535	.000198	.000549	.0006329	.0022392	.001469
%RSD	384.1959	382.3626	147.2752	52.93704	36.34091	34.43548	101.8711
#1	.0014424	.000087	-.000356	-.000977	.0011616	.0041968	-.001337
#2	-.000326	-.000750	.000026	-.001612	.0016464	.0086687	-.002961
#3	-.000320	.000244	-.000073	-.000520	.0024166	.0066426	-.000028

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000028	.0000484	-.003959	-.000207	.0000591	-.000063	-.005188
Stddev	.000050	.0000400	.005188	.000261	.0001498	.000473	.004121
%RSD	174.9937	82.74628	131.0607	126.3157	253.5297	750.2189	79.42580
#1	-.000077	.0000346	-.002216	-.000499	.0000770	.000119	-.009707
#2	.000023	.0000934	.000134	.000003	.0001992	-.000600	-.004218
#3	-.000031	.0000171	-.009794	-.000124	-.000099	.000292	-.001639

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001351	.0128304	-.000349	.0000047	.0382724	-.000653	-.009276
Stddev	.0003787	.0121735	.000264	.0001861	.0053936	.000190	.000071
%RSD	280.2791	94.88010	75.69710	3930.262	14.09256	29.17736	.7669328
#1	-.000014	.0206005	-.000425	-.000073	.0345482	-.000826	-.009339
#2	.000566	-.001199	-.000055	.000217	.0358115	-.000449	-.009289
#3	-.000147	.019090	-.000567	-.000130	.0444575	-.000683	-.009199

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0371826	-.003204	.0001747	.0003619	.0006316	.0085952	.0012152
Stddev	.0203715	.000675	.0001147	.0004691	.0008551	.0107873	.0011445
%RSD	54.78782	21.06259	65.66172	129.6006	135.3802	125.5035	94.18324
#1	.0602395	-.003029	.0001567	.0001185	.0002083	.0189551	.0003168
#2	.0216187	-.002634	.0002974	.0000647	.0016159	.0094047	.0008249
#3	.0296897	-.003949	.0000700	.0009027	.0000708	-.002574	.0025037

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CCB02 Acquired: 3/11/2025 12:23:56 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0005885	.0050545	.0000782
Stddev	.0017980	.0012438	.0000316
%RSD	305.5371	24.60727	40.45420
#1	.0026601	.0042731	.0001099
#2	-.000329	.0044016	.0000467
#3	-.000566	.0064887	.0000779

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3614.844	77783.11	14669.74	3242.321	5078.079
Stddev	6.886	412.35	39.96	15.534	4.705
%RSD	.1904867	.5301326	.2724248	.4790974	.0926629
#1	3612.863	77333.34	14631.26	3226.205	5079.380
#2	3622.503	77872.68	14711.04	3243.559	5081.997
#3	3609.165	78143.32	14666.93	3257.199	5072.859

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-07 Acquired: 3/11/2025 12:28:16 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0487500	.0013097	.1044349	-.044769	-.011204	112.2590	.7742811
Stddev	.0023092	.0024869	.0010755	.002030	.002368	.2599	.0019194
%RSD	4.736804	189.8798	1.029797	4.534765	21.13668	.2314797	.2478940
#1	.0509133	.0001922	.1037594	-.042462	-.013462	111.9938	.7727505
#2	.0490185	-.000422	.1056751	-.046283	-.011410	112.2702	.7736582
#3	.0463184	.004159	.1038703	-.045563	-.008739	112.5131	.7764346

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070150	-.003428	55.60457	.6763868	.1227793	.3668233	272.8278
Stddev	.0000353	.000142	.20354	.0007161	.0002510	.0009734	.8394
%RSD	.5031730	4.144004	.3660498	.1058769	.2044071	.2653659	.3076783
#1	.0070327	-.003522	55.43089	.6771604	.1230538	.3675370	273.4537
#2	.0069744	-.003497	55.55428	.6757470	.1227224	.3672185	273.1558
#3	.0070380	-.003264	55.82855	.6762529	.1225617	.3657144	271.8739

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.519211	47.21120	.2387813	-.002539	4.662777	.4090236	1.092660
Stddev	.014580	.15625	.0004186	.000134	.015528	.0010909	.000628
%RSD	.3226185	.3309569	.1753141	5.275269	.3330280	.2667161	.0575069
#1	4.502763	47.09389	.2383297	-.002390	4.649410	.4102821	1.092131
#2	4.524323	47.15114	.2391564	-.002580	4.679811	.4083456	1.093355
#3	4.530546	47.38856	.2388576	-.002648	4.659112	.4084432	1.092495

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.202352	.4077787	.0719697	.0031863	4.907758	3.785910	5.666514
Stddev	.041784	.0028354	.0003003	.0003576	.009124	.015409	.015163
%RSD	.5094200	.6953188	.4172891	11.22310	.1859185	.4070063	.2675909
#1	8.202699	.4105347	.0718681	.0034385	4.904382	3.802272	5.676398
#2	8.243962	.4079314	.0717334	.0033432	4.900803	3.783781	5.674089
#3	8.160396	.4048701	.0723077	.0027770	4.918089	3.771676	5.649057

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-07 Acquired: 3/11/2025 12:28:16 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.229463	.2332055	.2029153
Stddev	.003729	.0016947	.0005778
%RSD	.3032738	.7266990	.2847242
#1	1.226946	.2318987	.2023024
#2	1.233746	.2351203	.2034500
#3	1.227695	.2325974	.2029934

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3807.548	83338.68	17622.37	3475.929	4277.291
Stddev	5.868	298.78	39.05	6.007	.652
%RSD	.1541277	.3585095	.2215905	.1728191	.0152354
#1	3803.082	83098.99	17640.24	3469.961	4277.367
#2	3805.366	83243.62	17649.28	3475.852	4276.604
#3	3814.195	83673.42	17577.58	3481.974	4277.901

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-07DUP Acquired: 3/11/2025 12:32:21 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0460141	.0001080	.1067950	-.051746	-.012166	114.2624	.7671308
Stddev	.0013176	.0018457	.0011520	.004116	.003067	.2448	.0034475
%RSD	2.863432	1708.549	1.078673	7.954830	25.21349	.2142016	.4493978
#1	.0453404	-.000410	.1079196	-.051283	-.008714	114.0078	.7635950
#2	.0475323	-.001423	.1068480	-.056073	-.014580	114.4959	.7704826
#3	.0451695	.002157	.1056175	-.047880	-.013203	114.2835	.7673148

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069992	-.001982	56.22325	.6878505	.1243955	.3683373	271.0263
Stddev	.0000620	.000082	.25862	.0029770	.0003099	.0006871	1.5243
%RSD	.8854287	4.117736	.4599962	.4327922	.2491046	.1865555	.5624018
#1	.0070706	-.001984	56.00784	.6849887	.1247400	.3691307	269.9295
#2	.0069676	-.001899	56.51008	.6876322	.1241395	.3679385	270.3826
#3	.0069594	-.002062	56.15183	.6909306	.1243070	.3679426	272.7668

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.612462	47.50496	.2423887	-.002665	4.831622	.4093262	1.107785
Stddev	.017464	.34630	.0006172	.000145	.059705	.0008226	.005448
%RSD	.3786348	.7289784	.2546337	5.434188	1.235722	.2009511	.4917686
#1	4.601119	47.28880	.2417534	-.002676	4.817780	.4086699	1.101669
#2	4.632573	47.90438	.2424267	-.002805	4.780055	.4102489	1.109572
#3	4.603694	47.32170	.2429861	-.002515	4.897033	.4090598	1.112115

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.163418	.3950930	.0717277	.0040206	4.961393	4.723869	5.720161
Stddev	.077728	.0039247	.0005184	.0006432	.016304	.058132	.006117
%RSD	.9521507	.9933549	.7227289	15.99862	.3286083	1.230611	.1069362
#1	8.118485	.3946893	.0712157	.0035217	4.949061	4.688716	5.726616
#2	8.118598	.3913857	.0722523	.0047465	4.979878	4.691922	5.714450
#3	8.253170	.3992039	.0717150	.0037934	4.955241	4.790969	5.719416

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-07DUP Acquired: 3/11/2025 12:32:21 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.249660	.2339454	.2078720
Stddev	.006391	.0012204	.0005150
%RSD	.5114040	.5216380	.2477728
#1	1.252043	.2326481	.2074112
#2	1.242420	.2341176	.2084280
#3	1.254517	.2350705	.2077767

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3776.314	82191.92	17392.38	3441.275	4236.625
Stddev	5.053	342.13	108.17	11.723	9.696
%RSD	.1338112	.4162605	.6219191	.3406517	.2288677
#1	3781.524	82492.96	17452.56	3454.796	4246.389
#2	3775.984	82262.94	17267.51	3435.088	4236.488
#3	3771.434	81819.85	17457.08	3433.943	4226.998

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-07DLX5 Acquired: 3/11/2025 12:36:26 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095096	-.000251	.0212178	-.010103	-.001155	25.23112	.1678882
Stddev	.0014113	.000552	.0007327	.000993	.003382	.01917	.0006610
%RSD	14.84066	220.3075	3.453254	9.832024	292.7499	.0759638	.3937157
#1	.0099991	.000119	.0209392	-.010191	-.005030	25.25308	.1671494
#2	.0079187	.000015	.0206653	-.011050	.000363	25.21776	.1680916
#3	.0106109	-.000885	.0220490	-.009069	.001201	25.22253	.1684236

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016820	-.002129	12.91772	.1567506	.0251199	.0863113	59.76062
Stddev	.0000305	.000081	.00866	.0010136	.0002205	.0001792	.12948
%RSD	1.814620	3.786386	.0670759	.6466535	.8776288	.2076740	.2166561
#1	.0016512	-.002037	12.92763	.1575791	.0252423	.0861850	59.68929
#2	.0016824	-.002190	12.91158	.1556203	.0252520	.0862324	59.68249
#3	.0017123	-.002159	12.91396	.1570523	.0248654	.0865164	59.91007

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.057871	10.70915	.0488672	-.000831	1.011153	.0920469	.2422377
Stddev	.001117	.02389	.0002536	.000112	.010053	.0016460	.0006908
%RSD	.1055723	.2230794	.5190217	13.44110	.9942312	1.788195	.2851629
#1	1.058734	10.72483	.0485854	-.000908	1.000596	.0919922	.2430077
#2	1.058269	10.68166	.0490771	-.000883	1.012248	.0904289	.2420332
#3	1.056610	10.72097	.0489391	-.000703	1.020613	.0937195	.2416723

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.661777	.0787394	.0161244	.0007501	1.111803	.7250228	1.118775
Stddev	.013564	.0003952	.0001105	.0005724	.002294	.0040900	.001543
%RSD	.8162139	.5019482	.6854274	76.31083	.2062914	.5641219	.1379259
#1	1.653605	.0783070	.0162465	.0001070	1.109529	.7264799	1.119418
#2	1.654292	.0790821	.0160954	.0012038	1.111764	.7281848	1.117015
#3	1.677434	.0788289	.0160313	.0009394	1.114115	.7204038	1.119893

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-07DLX5 Acquired: 3/11/2025 12:36:26 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2395275	.0539911	.0468255
Stddev	.0016257	.0012045	.0001081
%RSD	.6787083	2.230891	.2309175
#1	.2412455	.0549911	.0469007
#2	.2393236	.0526539	.0468741
#3	.2380133	.0543282	.0467016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3603.704	78279.76	15719.32	3269.347	4670.455
Stddev	2.129	289.84	58.29	13.158	4.946
%RSD	.0590741	.3702583	.3708083	.4024676	.1059041
#1	3601.261	77945.15	15652.03	3261.517	4673.664
#2	3604.690	78452.74	15751.86	3261.987	4672.942
#3	3605.162	78441.39	15754.08	3284.539	4664.759

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-07MS Acquired: 3/11/2025 12:40:38 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7330240**	**1.838859**	**1.064129**	**1.553512**	**.3346648**	**114.3691**
Stddev	.0020421	.008350	.003820	.001974	.0020640	.3540
%RSD	.2785879	.4540906	.3589774	.1270474	.6167221	.3095297
#1	.7311571	1.847794	1.064382	1.551251	.3348534	114.1432
#2	.7327101	1.837529	1.060189	1.554396	.3366279	114.7771
#3	.7352049	1.831253	1.067817	1.554889	.3325130	114.1870

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8264607**	**.1766316**	**.1885557**	**51.28207**	**.5279974**	**.3030769**
Stddev	.0028127	.0005870	.0007268	.19052	.0014640	.0010024
%RSD	.3403351	.3323187	.3854525	.3715117	.2772664	.3307393
#1	.8232198	.1759540	.1891933	51.06443	.5263932	.3027012
#2	.8282653	.1769835	.1877643	51.41865	.5292611	.3023167
#3	.8278969	.1769573	.1887096	51.36313	.5283380	.3042129

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5457839**	**235.1255**	**3.835068**	**43.63287**	**.6803938**	**.0633362**
Stddev	.0010076	.8779	.010590	.03322	.0014981	.0005135
%RSD	.1846250	.3733671	.2761360	.0761463	.2201783	.8107421
#1	.5451890	234.1862	3.830518	43.59518	.6808171	.0627802
#2	.5452154	235.2650	3.847173	43.65795	.6787297	.0637926
#3	.5469474	235.9252	3.827514	43.64547	.6816348	.0634357

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.151478**	**.6384713**	**1.240242**	**15.58507**	**.5554911**	**.3552569**
Stddev	.000431	.0027509	.005092	.02501	.0022017	.0006486
%RSD	.0060206	.4308500	.4105260	.1604937	.3963515	.1825732
#1	7.151357	.6368097	1.234600	15.55748	.5530696	.3549956
#2	7.151956	.6416465	1.244495	15.60626	.5573724	.3547797
#3	7.151121	.6369576	1.241632	15.59148	.5560314	.3559954

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-07MS Acquired: 3/11/2025 12:40:38 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6647083	4.303873	3.550028	F 11.00553	1.540706	.3899557
Stddev	.0010421	.009206	.005693	.01216	.004727	.0007782
%RSD	.1567684	.2138889	.1603753	.1104849	.3068250	.1995632
#1	.6637286	4.293666	3.555778	10.99283	1.535249	.3891924
#2	.6645930	4.311546	3.544393	11.00669	1.543309	.3907480
#3	.6658031	4.306406	3.549914	11.01707	1.543558	.3899267

Elem	Sr4077
Units	ppm
Avg	.3182199
Stddev	.0012572
%RSD	.3950606
#1	.3177442
#2	.3196455
#3	.3172700

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3781.893	82117.08	16897.62	3443.027	4268.234
Stddev	6.217	97.69	30.83	12.283	7.893
%RSD	.1643945	.1189689	.1824417	.3567428	.1849235
#1	3781.313	82229.78	16933.21	3456.256	4262.964
#2	3788.379	82065.12	16879.60	3440.839	4277.308
#3	3775.985	82056.36	16880.04	3431.985	4264.429

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-07MSD Acquired: 3/11/2025 12:44:37 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7300100	1.847685	1.061015	1.548540	.3284326	114.0849
Stddev	.0026444	.012351	.001468	.006643	.0023429	.4614
%RSD	.3622351	.6684642	.1383849	.4289640	.7133608	.4044778
#1	.7320437	1.858509	1.062707	1.555523	.3311330	114.0493
#2	.7270207	1.834230	1.060267	1.547798	.3269405	113.6423
#3	.7309657	1.850316	1.060072	1.542300	.3272244	114.5631

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8549581	.1699312	.1857106	51.48232	.5260640	.3018444
Stddev	.0032860	.0001774	.0005577	.19587	.0011355	.0006488
%RSD	.3843416	.1044063	.3002767	.3804688	.2158489	.2149492
#1	.8551472	.1697356	.1861915	51.37164	.5262942	.3025272
#2	.8515817	.1699759	.1850993	51.36684	.5270668	.3012360
#3	.8581454	.1700819	.1858410	51.70848	.5248310	.3017700

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5407657	245.2733	3.801413	43.63456	.6781021	.0650789
Stddev	.0010321	.6100	.014032	.06132	.0015606	.0003052
%RSD	.1908647	.2487073	.3691246	.1405395	.2301482	.4689403
#1	.5414991	245.7788	3.804832	43.62634	.6796540	.0651023
#2	.5395854	245.4453	3.785988	43.57776	.6765328	.0653718
#3	.5412126	244.5958	3.813419	43.69958	.6781195	.0647627

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.357465	.6423804	1.236623	16.36702	.5779173	.3529335
Stddev	.013014	.0032054	.002767	.06032	.0015822	.0012697
%RSD	.1768873	.4989955	.2237343	.3685309	.2737773	.3597537
#1	7.372083	.6392070	1.237803	16.43456	.5788821	.3543920
#2	7.347139	.6456169	1.233462	16.34800	.5787784	.3520749
#3	7.353172	.6423174	1.238604	16.31851	.5760913	.3523336

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-07MSD Acquired: 3/11/2025 12:44:37 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6636134	4.450501	4.879048	F 11.08452	1.545289	.3982457
Stddev	.0005990	.016075	.012043	.02330	.000556	.0014558
%RSD	.0902657	.3611905	.2468267	.2102200	.0360046	.3655524
#1	.6636943	4.451516	4.892693	11.09804	1.545533	.3986521
#2	.6629781	4.433943	4.874551	11.05762	1.544652	.3966299
#3	.6641679	4.466044	4.869901	11.09791	1.545681	.3994551

Elem	Sr4077
Units	ppm
Avg	.3129049
Stddev	.0016235
%RSD	.5188548
#1	.3134865
#2	.3110707
#3	.3141576

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3784.821	82455.75	17565.33	3430.834	4269.491
Stddev	9.618	285.71	29.51	13.491	8.240
%RSD	.2541295	.3465007	.1680067	.3932188	.1929867
#1	3773.816	82319.74	17587.02	3442.623	4260.504
#2	3789.026	82263.46	17577.25	3433.757	4276.689
#3	3791.620	82784.06	17531.72	3416.121	4271.281

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-07A Acquired: 3/11/2025 12:48:37 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7244931**	**1.814980**	**1.049147**	**1.533858**	**.3254414**	**114.0919**
Stddev	.0016629	.002309	.000631	.003377	.0024963	.2428
%RSD	.2295278	.1271933	.0601498	.2201311	.7670343	.2127847
#1	.7234504	1.817640	1.048439	1.534784	.3277641	114.2721
#2	.7236180	1.813501	1.049353	1.530116	.3257583	114.1877
#3	.7264108	1.813800	1.049649	1.536676	.3228019	113.8158

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8490650**	**.1710102**	**.1839579**	**51.44755**	**.5213157**	**.3000585**
Stddev	.0029656	.0006890	.0001032	.13314	.0019279	.0007720
%RSD	.3492793	.4029058	.0560920	.2587784	.3698041	.2572692
#1	.8496641	.1704367	.1839053	51.42058	.5206926	.3005504
#2	.8516854	.1708193	.1840768	51.59211	.5234780	.3004563
#3	.8458456	.1717745	.1838915	51.32997	.5197765	.2991687

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5375950**	**242.8246**	**3.792336**	**43.60159**	**.6720627**	**.0642698**
Stddev	.0008103	1.0293	.000523	.08386	.0004489	.0004183
%RSD	.1507325	.4238885	.0137964	.1923283	.0667935	.6507928
#1	.5373396	242.9612	3.792940	43.51222	.6723038	.0642749
#2	.5385022	243.7787	3.792041	43.67855	.6723395	.0638491
#3	.5369430	241.7337	3.792027	43.61402	.6715448	.0646855

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.272233**	**.6402387**	**1.231508**	**16.19281**	**.5730278**	**.3509304**
Stddev	.042064	.0017514	.003672	.08817	.0042593	.0005493
%RSD	.5784237	.2735477	.2981310	.5445061	.7432890	.1565417
#1	7.285355	.6399121	1.227386	16.20218	.5739480	.3515425
#2	7.306172	.6421305	1.232713	16.27593	.5767517	.3504802
#3	7.225172	.6386737	1.234426	16.10033	.5683836	.3507684

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-07A Acquired: 3/11/2025 12:48:37 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6561473	4.443571	5.030008	F 10.95034	1.520788	.3946928
Stddev	.0009052	.016157	.036455	.01699	.005067	.0014468
%RSD	.1379586	.3635952	.7247434	.1551582	.3332146	.3665736
#1	.6551309	4.451660	5.029176	10.95884	1.523604	.3957643
#2	.6564440	4.454085	5.066872	10.96140	1.523823	.3952672
#3	.6568669	4.424968	4.993977	10.93078	1.514938	.3930470

Elem	Sr4077
Units	ppm
Avg	.3129326
Stddev	.0008612
%RSD	.2751995
#1	.3138043
#2	.3129113
#3	.3120823

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3806.505	82583.42	17430.24	3445.895	4299.072
Stddev	1.085	247.96	46.41	9.152	3.406
%RSD	.0284983	.3002505	.2662532	.2655800	.0792331
#1	3807.312	82773.69	17483.79	3455.128	4299.399
#2	3805.272	82303.00	17401.65	3445.730	4295.514
#3	3806.930	82673.56	17405.29	3436.827	4302.303

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-04 Acquired: 3/11/2025 12:52:37 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002901**	**-.006668**	**.0032073**	**.0038583**	**.0020944**	**.1249209**	**.1916974**
Stddev	.000396	.001797	.0010754	.0017491	.0016483	.0043552	.0016128
%RSD	13.64829	26.95561	33.53185	45.33437	78.69846	3.486326	.8413326
#1	-.002611	-.004595	.0044458	.0018633	.0037032	.1210830	.1925690
#2	-.003352	-.007784	.0026663	.0051287	.0021709	.1240255	.1898363
#3	-.002741	-.007626	.0025097	.0045828	.0004093	.1296541	.1926868

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000099**	**.0000835**	**17.32711**	**-.000401**	**.0072943**	**.0422785**	**.2707738**
Stddev	.000013	.0001546	.04553	.000243	.0001134	.0003905	.0038137
%RSD	13.15407	185.1394	.2627822	60.64878	1.554030	.9237459	1.408442
#1	-.000106	-.000091	17.36852	-.000351	.0073949	.0418277	.2743876
#2	-.000108	.000203	17.27835	-.000186	.0073166	.0425114	.2667875
#3	-.000084	.000139	17.33446	-.000665	.0071715	.0424966	.2711462

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5790394**	**2.043646**	**.0115813**	**-.000278**	**312.3837**	**-.000271**	**.0734675**
Stddev	.0001663	.018155	.0002149	.000266	1.9106	.001315	.0004727
%RSD	.0287255	.8883808	1.855864	95.85385	.6116280	485.9034	.6433961
#1	.5792174	2.064542	.0113407	-.000310	310.3172	.000689	.0731263
#2	.5788880	2.031737	.0117544	.000003	312.7479	-.001770	.0732691
#3	.5790127	2.034659	.0116489	-.000526	314.0861	.000268	.0740070

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.172606**	**.0162239**	**.0000485**	**.0001903**	**-.000382**	**.7590978**	**.0100627**
Stddev	.011148	.0003788	.0001072	.0004015	.000504	.0073108	.0023583
%RSD	.5131032	2.334697	221.0562	210.9216	131.9537	.9630924	23.43652
#1	2.175606	.0161282	.0001130	.0001690	-.000658	.7647586	.0087320
#2	2.160266	.0166414	.0001077	.0006021	-.000687	.7508439	.0127857
#3	2.181947	.0159022	-.000075	-.000200	.000200	.7616910	.0086705

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-04 Acquired: 3/11/2025 12:52:37 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.004056	.0000658	.0422859
Stddev	.002793	.0001077	.0002215
%RSD	.2782150	163.6135	.5237465
#1	1.001662	.0001839	.0423840
#2	1.003383	-.000027	.0420323
#3	1.007125	.000041	.0424414

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3311.649	71122.68	15255.17	3003.255	4252.847
Stddev	4.465	129.60	9.63	10.012	4.884
%RSD	.1348260	.1822164	.0631356	.3333716	.1148352
#1	3315.611	71172.14	15256.56	3001.709	4257.773
#2	3306.811	71220.27	15264.04	3013.951	4248.007
#3	3312.524	70975.64	15244.92	2994.107	4252.761

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-06 Acquired: 3/11/2025 12:57:03 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003274**	**-.006614**	**.0016340**	**.0040916**	**.0018231**	**.0063021**	**.2076175**
Stddev	.002591	.001987	.0012222	.0012246	.0010734	.0021899	.0002298
%RSD	79.13645	30.04177	74.79708	29.92868	58.87688	34.74878	.1106842
#1	-.006217	-.006107	.0002228	.0054939	.0012651	.0085421	.2078580
#2	-.001339	-.004929	.0023320	.0035474	.0030606	.0041660	.2074001
#3	-.002265	-.008805	.0023474	.0032335	.0011437	.0061983	.2075944

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000141**	**.0001502**	**33.20234**	**-.000185**	**.0016191**	**.0088211**	**.0263674**
Stddev	.000032	.0000746	.12320	.000522	.0001068	.0000882	.0031902
%RSD	22.29405	49.66422	.3710644	281.4409	6.597953	.9998583	12.09914
#1	-.000133	.0000645	33.27673	.000162	.0015510	.0087485	.0277540
#2	-.000115	.0002005	33.27017	.000067	.0015641	.0089193	.0286296
#3	-.000176	.0001855	33.06013	-.000785	.0017422	.0087956	.0227185

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6247637**	**2.747454**	**.0023542**	**-.000312**	**319.3372**	**.0004364**	**.0276881**
Stddev	.0039854	.017021	.0002701	.000221	.4395	.0009924	.0000609
%RSD	.6379138	.6195131	11.47361	70.99865	.1376136	227.3999	.2197843
#1	.6284367	2.767022	.0024490	-.000154	319.4955	.0008397	.0277493
#2	.6253282	2.736079	.0020494	-.000216	319.6756	.0011637	.0276873
#3	.6205260	2.739261	.0025641	-.000565	318.8405	-.000694	.0276276

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5372365**	**.0068637**	**.0004843**	**-.000887**	**-.000662**	**.8151943**	**.0107645**
Stddev	.0085511	.0003365	.0001312	.000940	.000465	.0055078	.0026732
%RSD	1.591685	4.902653	27.09252	106.0099	70.28478	.6756404	24.83354
#1	.5470881	.0067851	.0004821	-.001972	-.001198	.8096333	.0120501
#2	.5317352	.0072325	.0006166	-.000322	-.000420	.8206473	.0125520
#3	.5328861	.0065734	.0003542	-.000366	-.000368	.8153024	.0076914

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-06 Acquired: 3/11/2025 12:57:03 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2500264	-.004573	.0725763
Stddev	.0014105	.000335	.0001533
%RSD	.5641548	7.318545	.2111916
#1	.2487644	-.004402	.0727482
#2	.2497658	-.004958	.0725267
#3	.2515491	-.004358	.0724539

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3296.599	70568.28	15267.07	2961.892	4206.063
Stddev	18.907	202.76	78.53	4.161	22.811
%RSD	.5735263	.2873300	.5143460	.1404961	.5423417
#1	3276.089	70411.87	15194.55	2957.534	4180.008
#2	3300.376	70495.60	15256.20	2962.318	4215.746
#3	3313.332	70797.37	15350.47	2965.824	4222.436

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-08 Acquired: 3/11/2025 13:01:29 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004298**	**-.007278**	**.0000385**	**.0022970**	**.0012834**	**.0119141**	**.1881857**
Stddev	.000974	.001348	.0005104	.0018566	.0010276	.0040644	.0023236
%RSD	22.66612	18.52534	1326.715	80.82628	80.06672	34.11411	1.234751
#1	-.004769	-.005975	-.000386	.0006556	.0008892	.0072299	.1903286
#2	-.004948	-.008668	-.000104	.0043119	.0005112	.0140046	.1857159
#3	-.003178	-.007191	.000605	.0019233	.0024497	.0145076	.1885126

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000199**	**.0000732**	**42.51097**	**-.000888**	**.0037435**	**.0095303**	**.0260275**
Stddev	.000013	.0000367	.30669	.000282	.0002914	.0001043	.0033697
%RSD	6.645654	50.11239	.7214313	31.80782	7.783459	1.094309	12.94661
#1	-.000209	.0001045	42.78978	-.001044	.0034602	.0096472	.0221838
#2	-.000184	.0000823	42.18247	-.001057	.0040423	.0094466	.0284732
#3	-.000205	.0000328	42.56067	-.000562	.0037280	.0094971	.0274254

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7938561**	**3.041452**	**.0034968**	**-.000327**	**266.6233**	**-.000271**	**.0311483**
Stddev	.0030440	.036413	.0002267	.000260	1.5997	.000275	.0002753
%RSD	.3834490	1.197220	6.483275	79.43716	.5999730	101.2227	.8838805
#1	.7969018	3.071327	.0036938	-.000415	267.9766	.000043	.0309856
#2	.7908137	3.000892	.0035476	-.000035	264.8579	-.000465	.0309931
#3	.7938529	3.052137	.0032490	-.000532	267.0354	-.000392	.0314662

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7358632**	**.0115041**	**.0002091**	**-.000977**	**-.000157**	**.8974915**	**.0080882**
Stddev	.0303011	.0006517	.0002887	.000410	.000096	.0015422	.0015383
%RSD	4.117760	5.664689	138.0195	42.00926	61.29819	.1718300	19.01912
#1	.7293227	.0120969	.0003356	-.001426	-.000202	.8958547	.0071375
#2	.7093664	.0116092	.0004130	-.000621	-.000222	.8977025	.0072642
#3	.7689003	.0108063	-.000121	-.000885	-.000046	.8989173	.0098630

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: Q1494-08 Acquired: 3/11/2025 13:01:29 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4775460	-.005871	.0978708
Stddev	.0053973	.000595	.0000821
%RSD	1.130206	10.13150	.0839017
#1	.4806798	-.005242	.0979586
#2	.4713138	-.005947	.0978581
#3	.4806443	-.006424	.0977959

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3326.441	72217.21	15399.40	3011.823	4249.003
Stddev	10.450	185.17	153.30	5.933	16.313
%RSD	.3141545	.2564107	.9955004	.1970017	.3839255
#1	3333.406	72186.46	15247.72	3018.166	4260.924
#2	3331.491	72049.33	15554.27	3010.893	4255.675
#3	3314.425	72415.83	15396.21	3006.409	4230.412

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: PB167004BL Acquired: 3/11/2025 13:05:55 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000131**	**-.000933**	**-.000174**	**.0007644**	**.0002827**	**.0129138**
Stddev	.000993	.001171	.000737	.0021809	.0005836	.0022150
%RSD	758.0721	125.4596	423.9540	285.3075	206.4790	17.15233
#1	-.000886	.000141	.000600	.0024115	-.000006	.0130968
#2	-.000501	-.000760	-.000866	.0015906	-.000101	.0106130
#3	.000994	-.002182	-.000255	-.001709	.000954	.0150317

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001342**	**-.000046**	**-.000012**	**-.007269**	**-.000308**	**-.000009**
Stddev	.001169	.000061	.000048	.006105	.000311	.000307
%RSD	87.04234	132.0238	409.4978	83.99197	101.2815	3392.011
#1	-.000177	-.000009	.000033	-.000362	-.000433	-.000352
#2	-.002514	-.000117	-.000063	-.009498	.000047	.000084
#3	-.001336	-.000013	-.000006	-.011947	-.000537	.000241

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000621**	**-.004637**	**.0007357**	**-.000839**	**-.000468**	**-.000003**
Stddev	.000152	.001363	.0000760	.006345	.000048	.000117
%RSD	24.49836	29.38957	10.32362	756.1340	10.24102	3575.135
#1	-.000561	-.005533	.0006590	-.007584	-.000460	-.000070
#2	-.000794	-.005310	.0008109	.005012	-.000424	-.000072
#3	-.000508	-.003069	.0007374	.000055	-.000519	.000132

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1085697**	**-.001040**	**-.009000**	**.0246859**	**-.009961**	**-.000176**
Stddev	.0058390	.000388	.000108	.0089975	.000187	.000162
%RSD	5.378081	37.32908	1.195183	36.44782	1.881447	92.04957
#1	.1020466	-.000649	-.008929	.0165756	-.010168	-.000265
#2	.1103543	-.001426	-.009123	.0231177	-.009803	.000011
#3	.1133080	-.001046	-.008946	.0343644	-.009911	-.000274

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: PB167004BL Acquired: 3/11/2025 13:05:55 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002792	-.000273	-.001132	.0012095	-.001925	F .0101353
Stddev	.0002614	.000436	.001239	.0006036	.001650	.0004891
%RSD	93.62028	159.5648	109.4029	49.90183	85.72142	4.825400
#1	.0000249	.000210	-.002411	.0013785	-.000123	.0096871
#2	.0002656	-.000392	.000062	.0017105	-.002290	.0106569
#3	.0005472	-.000637	-.001048	.0005394	-.003362	.0100618

Elem	Sr4077
Units	ppm
Avg	-.000030
Stddev	.000044
%RSD	148.7005
#1	-.000080
#2	.000002
#3	-.000011

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3634.955	79621.03	15453.82	3286.520	5119.760
Stddev	7.290	78.81	86.81	13.954	14.140
%RSD	.2005537	.0989783	.5617431	.4245820	.2761832
#1	3632.578	79694.39	15353.61	3296.675	5117.910
#2	3643.137	79630.98	15501.71	3270.609	5134.734
#3	3629.151	79537.72	15506.13	3292.276	5106.637

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CCV03 Acquired: 3/11/2025 13:10:14 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.856390**	**4.891857**	**4.831379**	**4.844059**	**4.889890**	**9.642235**	**9.711468**
Stddev	.008942	.009543	.007020	.005437	.006417	.016949	.026037
%RSD	.1841244	.1950882	.1453104	.1122378	.1312314	.1757752	.2681062
#1	4.850047	4.899572	4.827304	4.849955	4.886169	9.633876	9.681424
#2	4.852508	4.894814	4.839485	4.839243	4.886202	9.631091	9.727463
#3	4.866617	4.881186	4.827347	4.842978	4.897300	9.661740	9.725517

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2510200**	**2.428638**	**23.76257**	**.9643606**	**2.440093**	**1.246358**	**4.746485**
Stddev	.0010954	.000799	.02719	.0047583	.000236	.001656	.015470
%RSD	.4363841	.0328827	.1144421	.4934185	.0096557	.1328809	.3259246
#1	.2521338	2.428989	23.77383	.9619864	2.439846	1.246064	4.760140
#2	.2499440	2.427724	23.73156	.9698389	2.440315	1.244868	4.749631
#3	.2509824	2.429200	23.78233	.9612566	2.440117	1.248141	4.729684

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.410012**	**23.83750**	**2.407991**	**1.230922**	**23.24529**	**2.418178**	**2.484507**
Stddev	.008638	.08632	.001764	.003795	.16203	.003896	.005671
%RSD	.3584154	.3621013	.0732714	.3082839	.6970399	.1611083	.2282510
#1	2.406347	23.86610	2.407017	1.229933	23.06575	2.422658	2.487736
#2	2.403811	23.74052	2.410028	1.235113	23.38065	2.416290	2.487827
#3	2.419878	23.90589	2.406929	1.227720	23.28947	2.415586	2.477959

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.67955**	**4.853482**	**4.965446**	**4.763183**	**4.786413**	**4.674995**	**4.879484**
Stddev	.12681	.014503	.000534	.004026	.014471	.034584	.000438
%RSD	.5355341	.2988210	.0107456	.0845152	.3023403	.7397638	.0089772
#1	23.59858	4.870071	4.965518	4.761489	4.802338	4.635675	4.879507
#2	23.82569	4.843199	4.965939	4.767778	4.774068	4.700696	4.879910
#3	23.61437	4.847177	4.964880	4.760280	4.782832	4.688615	4.879035

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CCV03 Acquired: 3/11/2025 13:10:14 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.810434**	**4.773481**	**4.975134**
Stddev	.013356	.011255	.025123
%RSD	.2776391	.2357756	.5049657
#1	4.825638	4.785126	4.955272
#2	4.805068	4.762662	4.966755
#3	4.800595	4.772656	5.003376

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3463.517**	**74391.21**	**14733.99**	**3115.197**	**4463.686**
Stddev	3.773	284.99	45.06	3.227	5.182
%RSD	.1089455	.3830985	.3057996	.1035896	.1160932
#1	3461.271	74538.75	14685.97	3113.530	4462.311
#2	3461.406	74062.70	14775.33	3113.145	4459.330
#3	3467.873	74572.19	14740.66	3118.917	4469.417

Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CCB03 Acquired: 3/11/2025 13:14:25 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000303**	**-.000080**	**.0002265**	**.0009407**	**.0003847**	**.0059792**	**-.002088**
Stddev	.001818	.000668	.0008086	.0005312	.0006849	.0033314	.000715
%RSD	600.7806	832.5367	356.9772	56.46636	178.0556	55.71673	34.23098
#1	.001641	-.000361	-.000700	.0009945	.0011418	.0078917	-.002303
#2	-.001960	.000682	.000787	.0003847	.0002040	.0079135	-.002670
#3	-.000589	-.000562	.000593	.0014429	-.000192	.0021324	-.001290

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000037**	**.0000250**	**-.013836**	**.0000142**	**.0001033**	**-.000230**	**-.001917**
Stddev	.000011	.0000181	.004435	.0001954	.0001028	.000178	.003495
%RSD	30.11148	72.35689	32.05571	1371.935	99.53960	77.08515	182.3615
#1	-.000026	.0000318	-.017676	.0001128	.0000952	-.000388	-.002015
#2	-.000037	.0000045	-.008981	.0001408	.0002098	-.000265	.001627
#3	-.000049	.0000387	-.014851	-.000211	.0000047	-.000038	-.005361

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002933**	**.0035185**	**-.000517**	**.0000612**	**.0419084**	**-.002204**	**-.009373**
Stddev	.0000658	.0123666	.000167	.0002331	.0029940	.000766	.000078
%RSD	22.42486	351.4677	32.31538	380.8623	7.144193	34.75115	.8291492
#1	.0003310	.0114071	-.000515	-.000197	.0399879	-.001322	-.009365
#2	.0003314	-.010734	-.000351	.000123	.0403792	-.002587	-.009454
#3	.0002173	.009883	-.000686	.000257	.0453583	-.002703	-.009299

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0325584**	**-.005908**	**.0001701**	**.0004681**	**.0002613**	**.0026048**	**.0013609**
Stddev	.0096618	.000722	.0000925	.0006512	.0003044	.0021103	.0014767
%RSD	29.67522	12.22786	54.39162	139.1203	116.5303	81.01310	108.5112
#1	.0226552	-.006186	.0002762	.0011739	.0002474	.0041558	.0011069
#2	.0419592	-.005088	.0001283	.0003396	-.000036	.0034569	.0029482
#3	.0330607	-.006451	.0001059	-.000109	.000572	.0002018	.0000277

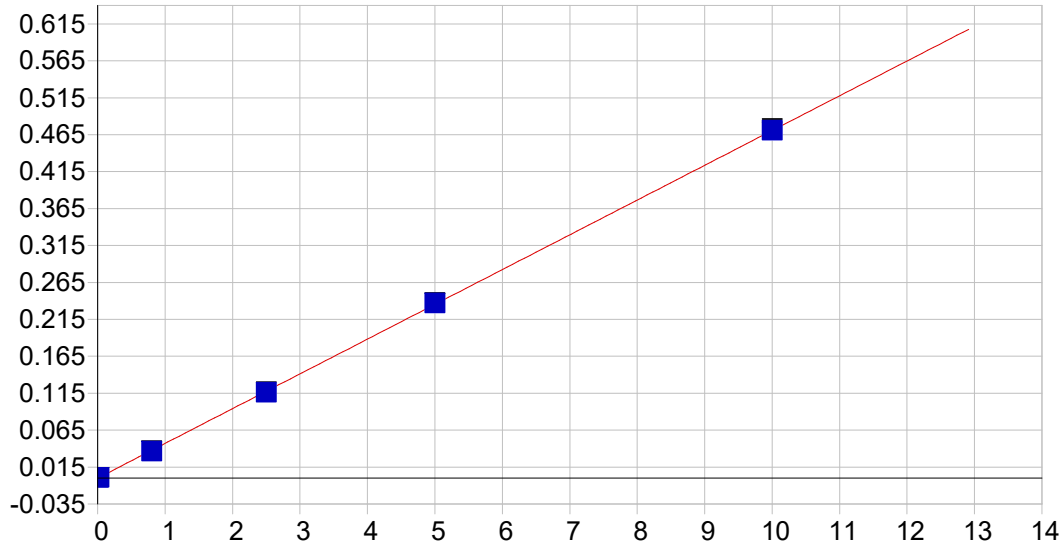
Reviewed By:jaswal
On:3/11/2025 3:32:56 PM
Inst Id :P4
LB :LB134987

Sample Name: CCB03 Acquired: 3/11/2025 13:14:25 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.002045**	**.0046627**	**.0000903**
Stddev	.001273	.0002542	.0000126
%RSD	62.27419	5.451205	13.90310
#1	-.002010	.0043890	.0001032
#2	-.003335	.0047078	.0000896
#3	-.000789	.0048913	.0000781

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3609.209**	**77919.74**	**15740.59**	**3242.762**	**5092.340**
Stddev	13.531	141.40	42.00	14.472	14.572
%RSD	.3748994	.1814725	.2668576	.4462831	.2861629
#1	3605.982	78081.79	15762.04	3241.642	5088.608
#2	3597.583	77856.00	15767.55	3228.882	5079.997
#3	3624.061	77821.42	15692.19	3257.761	5108.416

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



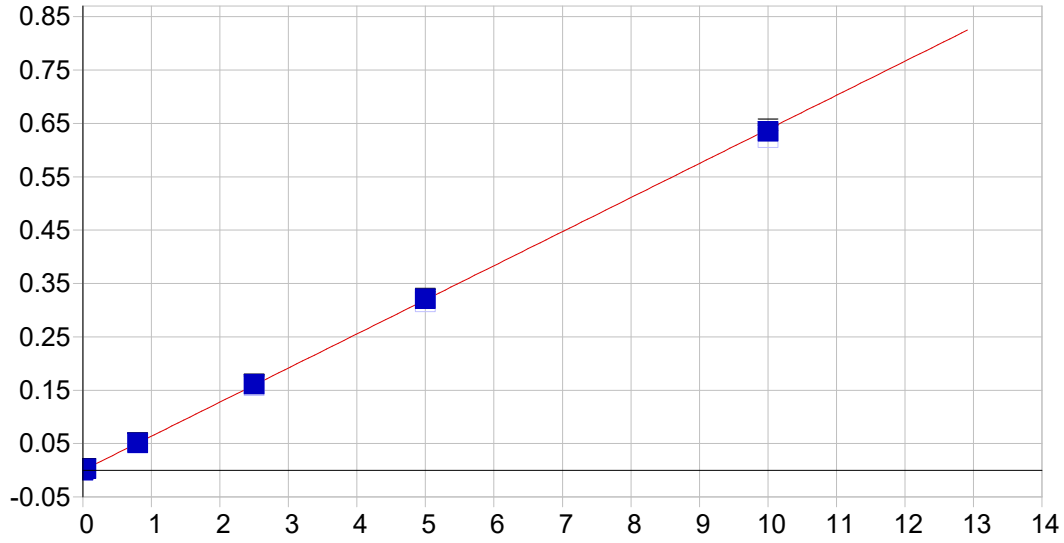
As 189.042 {479}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000062	Re-Slope:	1.000000
A1 (Gain):	0.047066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999971	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.002559		
Predicted MQL:	0.008529		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00006	.000	1
S1	.02000	.02051	.001	2.56	.00090	.000	1
S3	2.5000	2.4746	-.025	-1.02	.11628	.000	1
S4	5.0000	5.0378	.038	.756	.23679	.000	1
S5	10.000	10.007	.007	.073	.47043	.002	1
S2	.80000	.77984	-.020	-2.52	.03660	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



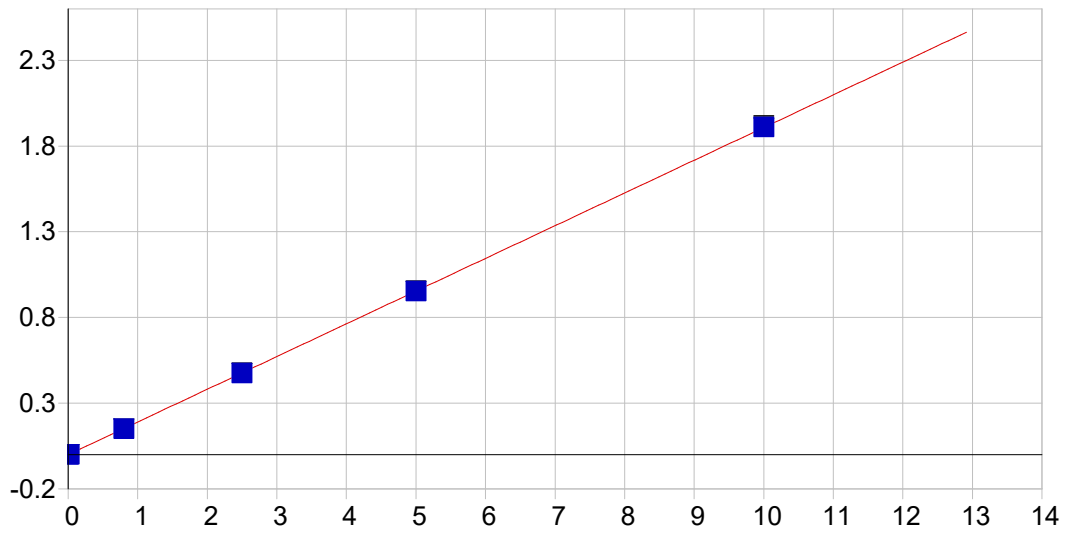
Tl 190.856 {477}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000134	Re-Slope:	1.000000
A1 (Gain):	0.063892	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.001733		
Predicted MQL:	0.005776		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00013	.000	1
S1	.04000	.04260	.003	6.51	.00242	.000	1
S3	2.5000	2.5244	.024	.976	.15821	.001	1
S4	5.0000	5.0294	.029	.589	.31532	.001	1
S5	10.000	9.9390	-.061	-.610	.62312	.005	1
S2	.80000	.80468	.005	.585	.05034	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



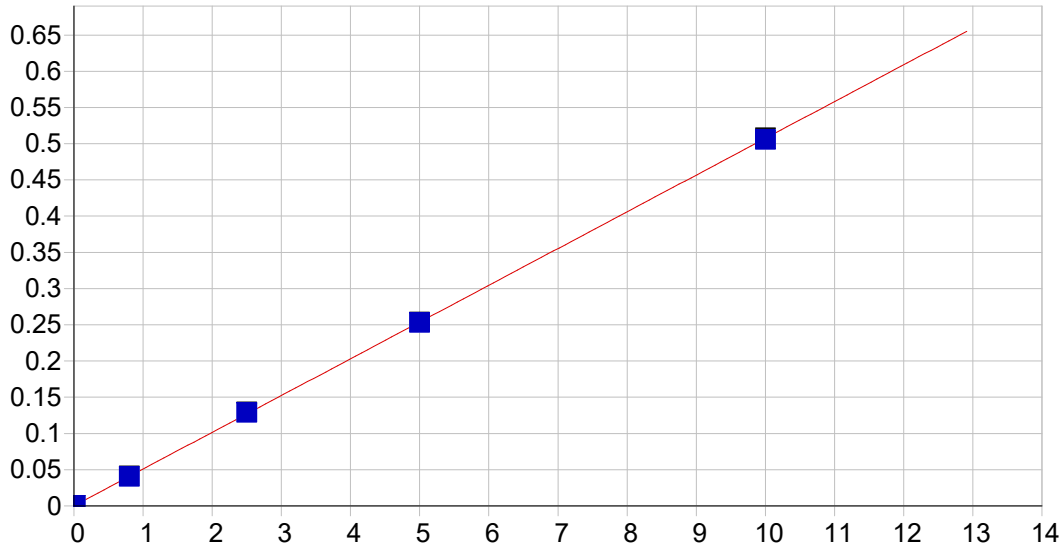
Pb 220.353 {453}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000275	Re-Slope:	1.000000
A1 (Gain):	0.190817	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.001409		
Predicted MQL:	0.004696		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00027	.000	1
S1	.01200	.01199	-.000	-.063	.00197	.000	1
S3	2.5000	2.4906	-.009	-.377	.47445	.001	1
S4	5.0000	5.0004	.000	.008	.95284	.001	1
S5	10.000	10.021	.021	.205	1.9097	.007	1
S2	.80000	.78849	-.012	-1.44	.15001	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



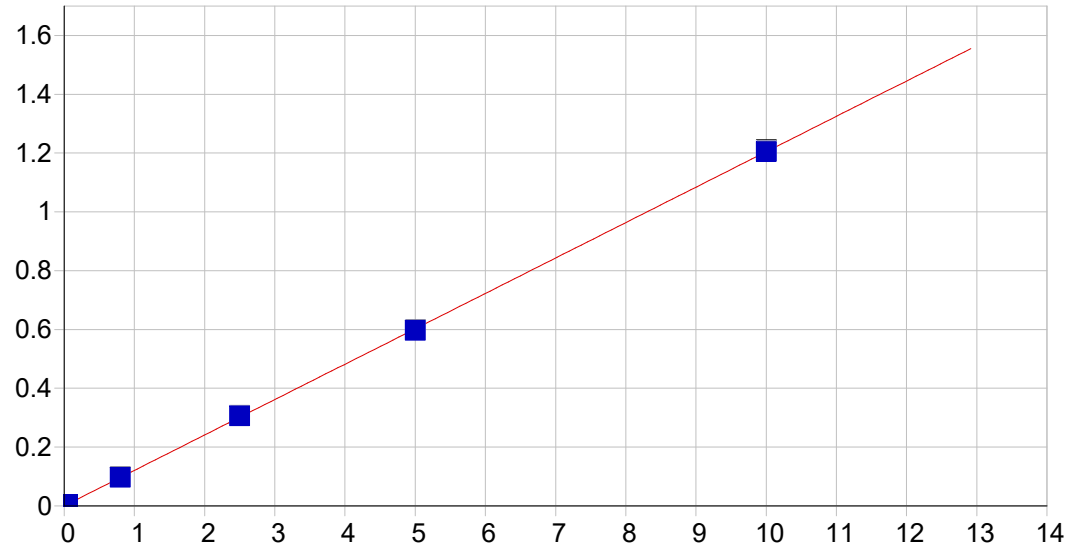
Se 196.090 {472}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000197	Re-Slope:	1.000000
A1 (Gain):	0.050722	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.002900		
Predicted MQL:	0.009665		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00020	.000	1
S1	.02000	.02181	.002	9.05	.00130	.000	1
S3	2.5000	2.5373	.037	1.49	.12885	.001	1
S4	5.0000	4.9898	-.010	-.204	.25320	.000	1
S5	10.000	9.9709	-.029	-.291	.50576	.002	1
S2	.80000	.80022	.000	.028	.04077	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



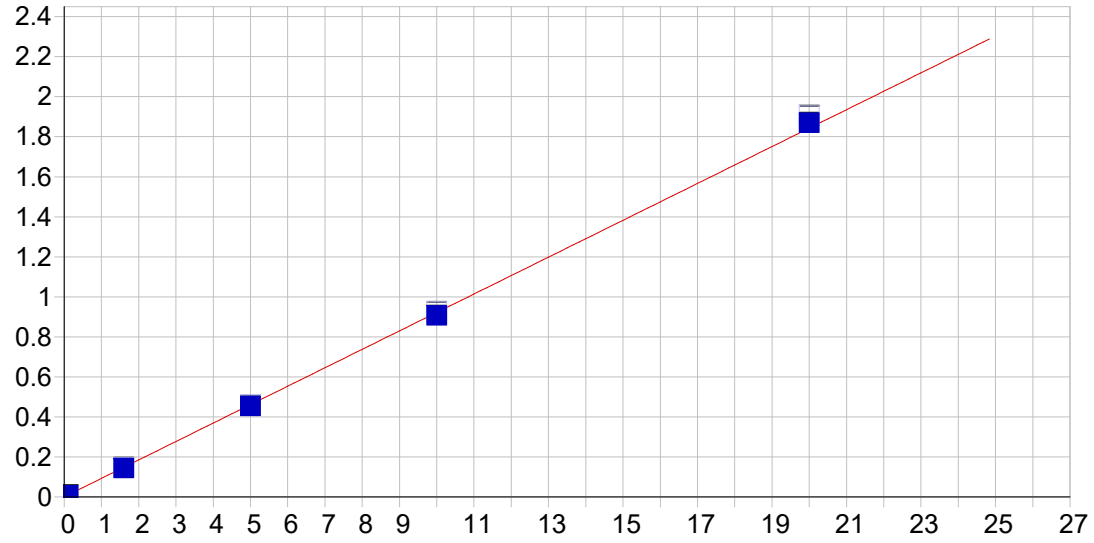
Sb 206.833 {463}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000297	Re-Slope:	1.000000
A1 (Gain):	0.120408	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	0.001833		
Predicted MQL:	0.006111		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00030	.000	1
S1	.05000	.05318	.003	6.35	.00671	.000	1
S3	2.5000	2.5388	.039	1.55	.30681	.001	1
S4	5.0000	4.9521	-.048	-.959	.59820	.001	1
S5	10.000	9.9997	-.000	-.003	1.2076	.004	1
S2	.80000	.80628	.006	.784	.09764	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



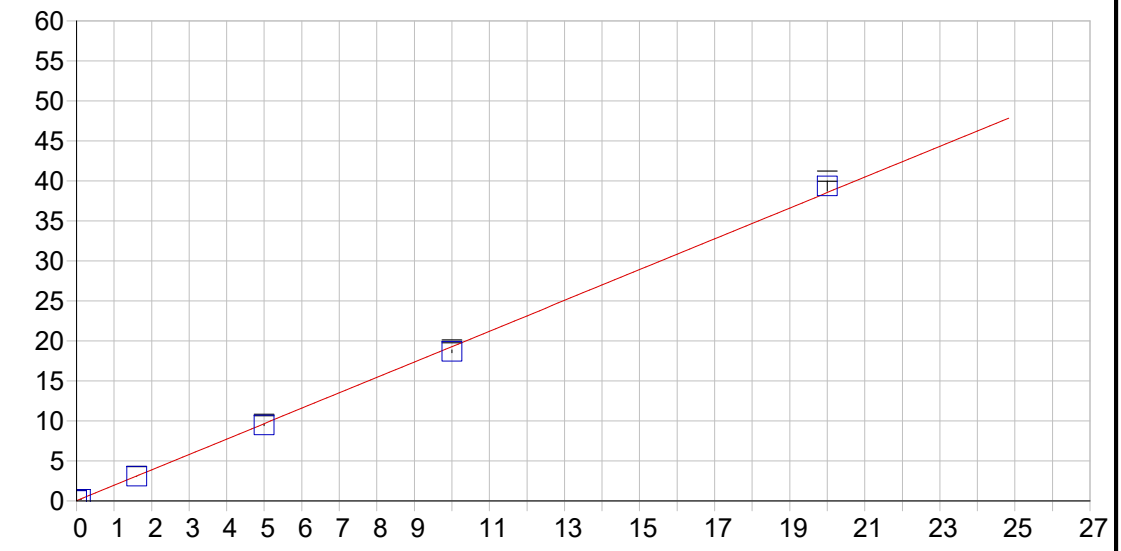
Al 396.152 { 85}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000789	Re-Slope:	1.000000
A1 (Gain):	0.092114	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999878	Status:	OK.
Std Error of Est:	0.000109		
Predicted MDL:	0.005226		
Predicted MQL:	0.017421		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00079	.000	1
S1	.10000	.09462	-.005	-5.38	.01022	.000	1
S3	5.0000	4.9140	-.086	-1.72	.46237	.000	1
S4	10.000	9.8420	-.158	-1.58	.92525	.002	1
S5	20.000	20.287	.287	1.44	1.9053	.003	1
S2	1.6000	1.5623	-.038	-2.35	.14756	.001	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



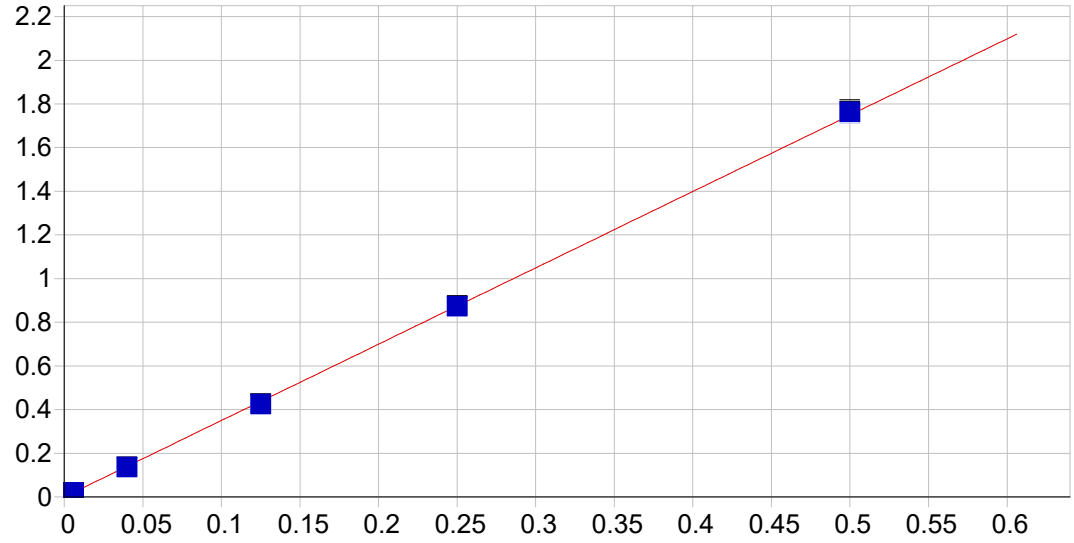
Ba 493.409 { 68}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.032123	Re-Slope:	1.000000
A1 (Gain):	1.925417	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999718	Status:	OK.
Std Error of Est:	0.003390		
Predicted MDL:	0.000918		
Predicted MQL:	0.003060		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.03214	.002	1
S1	.10000	.09490	-.005	-5.10	.21484	.001	1
S3	5.0000	4.9161	-.084	-1.68	9.4976	.087	1
S4	10.000	9.6902	-.310	-3.10	18.690	.185	1
S5	20.000	20.425	.425	2.12	39.358	.650	1
S2	1.6000	1.5742	-.026	-1.61	3.0632	.003	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



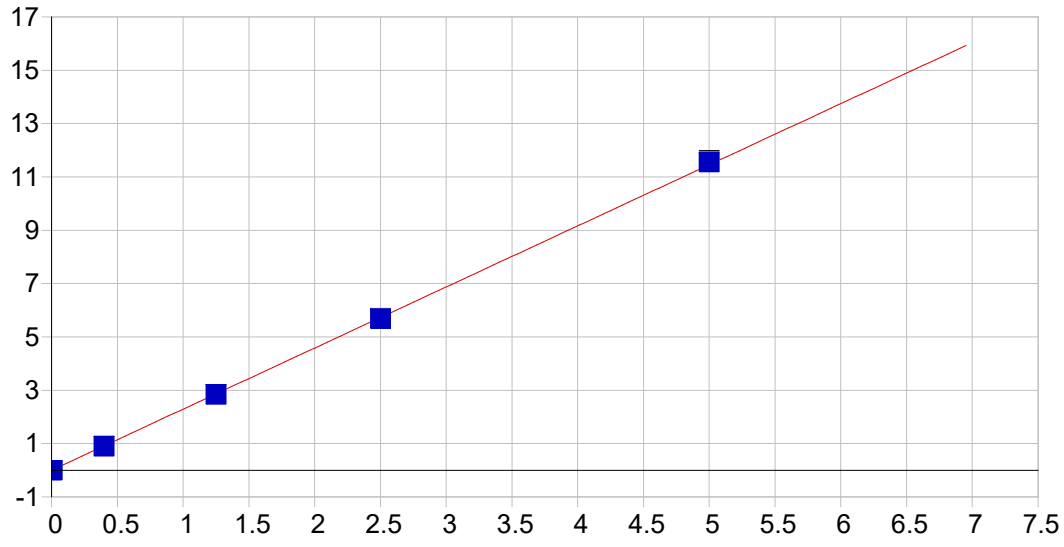
Be 234.861 {144}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000110	Re-Slope:	1.000000
A1 (Gain):	3.497329	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.000130		
Predicted MDL:	0.000052		
Predicted MQL:	0.000173		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00011	.000	1
S1	.00600	.00604	.000	.713	.02109	.000	1
S3	.12500	.12168	-.003	-2.66	.42370	.002	1
S4	.25000	.24995	-.000	-.022	.87033	.002	1
S5	.50000	.50437	.004	.874	1.7562	.009	1
S2	.04000	.03897	-.001	-2.59	.13576	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



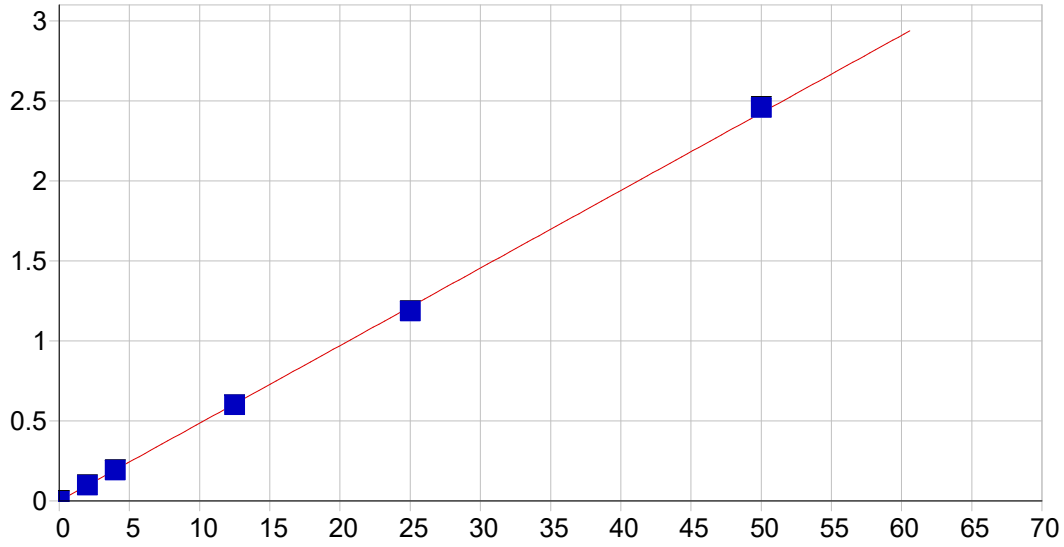
Cd 226.502 {449}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000109	Re-Slope:	1.000000
A1 (Gain):	2.291152	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999946	Status:	OK.
Std Error of Est:	0.000216		
Predicted MDL:	0.000081		
Predicted MQL:	0.000270		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00011	.000	1
S1	.00600	.00584	-.000	-2.73	.01333	.000	1
S3	1.2500	1.2378	-.012	-.973	2.8385	.006	1
S4	2.5000	2.4783	-.022	-.869	5.6831	.010	1
S5	5.0000	5.0446	.045	.891	11.568	.041	1
S2	.40000	.38949	-.011	-2.63	.89308	.002	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



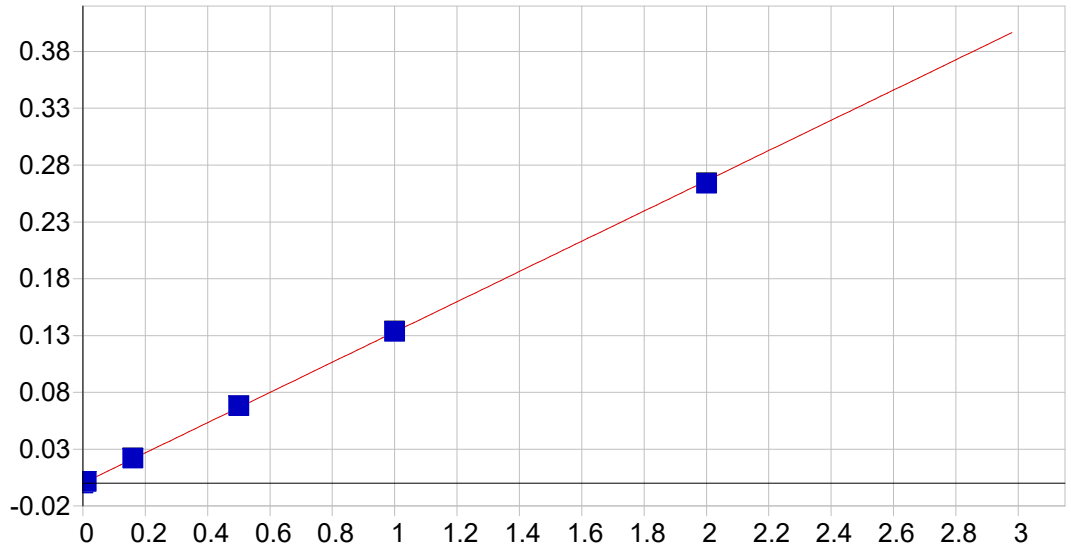
Ca 373.690 { 90}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000828	Re-Slope:	1.000000
A1 (Gain):	0.048476	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999877	Status:	OK.
Std Error of Est:	0.000403		
Predicted MDL:	0.007956		
Predicted MQL:	0.026521		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00005	.000	.000	.00083	.000	1
S2	4.0000	3.9497	-.050	-1.26	.19230	.001	1
S3	12.500	12.372	-.128	-1.02	.60057	.002	1
S4	25.000	24.469	-.531	-2.12	1.1870	.002	1
S5	50.000	50.697	.697	1.39	2.4584	.006	1
S1	2.0000	2.0130	.013	.651	.09841	.001	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



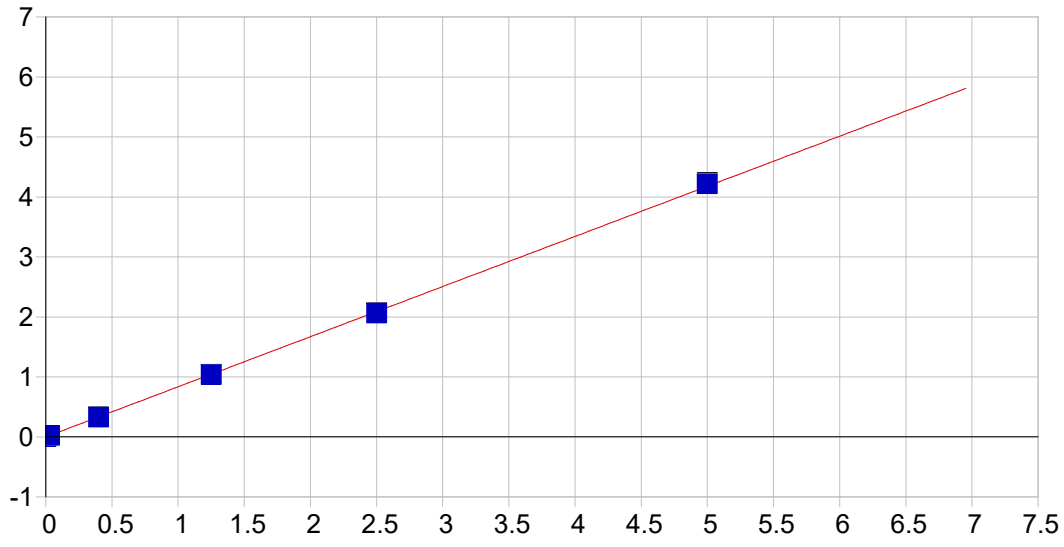
Cr 267.716 {126}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000039	Re-Slope:	1.000000
A1 (Gain):	0.133092	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999928	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.000462		
Predicted MQL:	0.001542		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00004	.000	1
S1	.01000	.01032	.000	3.24	.00141	.000	1
S3	.50000	.51148	.011	2.30	.06813	.000	1
S4	1.0000	1.0020	.002	.203	.13344	.000	1
S5	2.0000	1.9823	-.018	-.886	.26394	.000	1
S2	.16000	.16388	.004	2.42	.02186	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



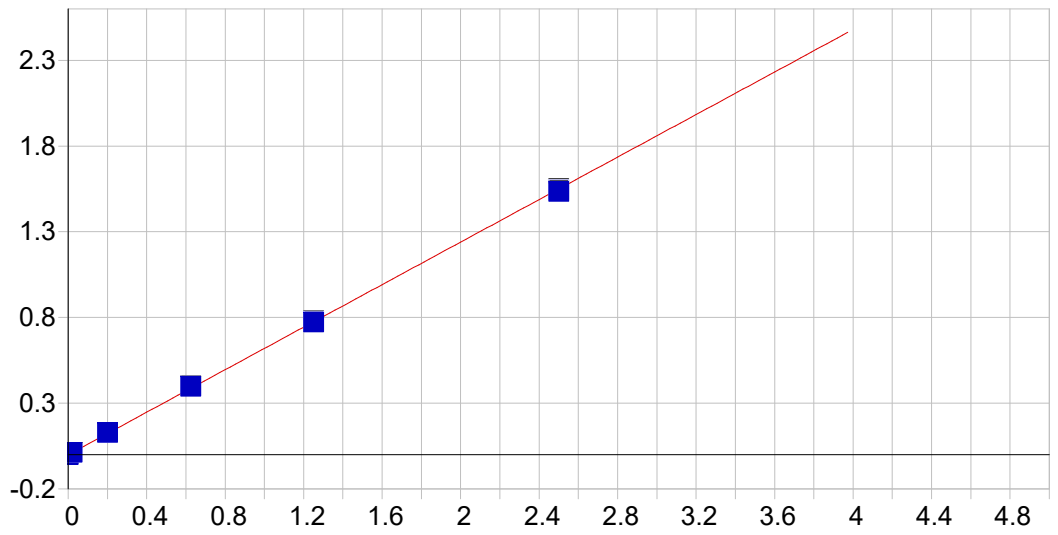
Co 228.616 {448}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000023	Re-Slope:	1.000000
A1 (Gain):	0.835360	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999945	Status:	OK.
Std Error of Est:	0.000178		
Predicted MDL:	0.000235		
Predicted MQL:	0.000784		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00002	.000	1
S1	.03000	.02965	-.000	-1.18	.02464	.000	1
S3	1.2500	1.2422	-.008	-.621	1.0395	.002	1
S4	2.5000	2.4690	-.031	-1.24	2.0660	.002	1
S5	5.0000	5.0466	.047	.932	4.2228	.014	1
S2	.40000	.39256	-.007	-1.86	.32847	.001	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



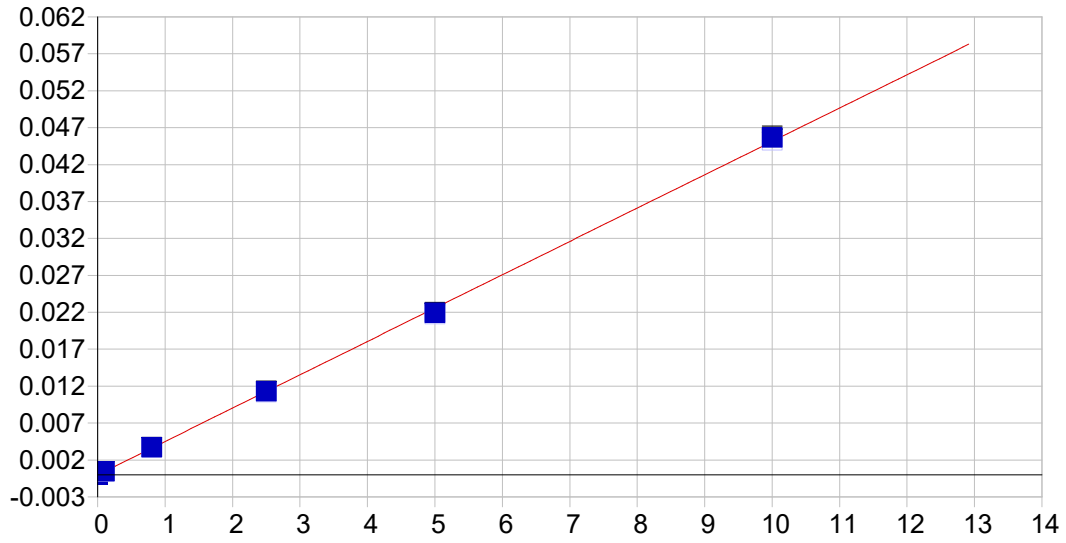
Cu 224.700 {450}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000614	Re-Slope:	1.000000
A1 (Gain):	0.620132	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999854	Status:	OK.
Std Error of Est:	0.000125		
Predicted MDL:	0.000416		
Predicted MQL:	0.001386		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00062	.000	1
S1	.02000	.02268	.003	13.4	.01357	.000	1
S3	.62500	.64205	.017	2.73	.40029	.001	1
S4	1.2500	1.2482	-.002	-.143	.77894	.001	1
S5	2.5000	2.4746	-.025	-1.01	1.5450	.007	1
S2	.20000	.20739	.007	3.70	.12888	.001	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



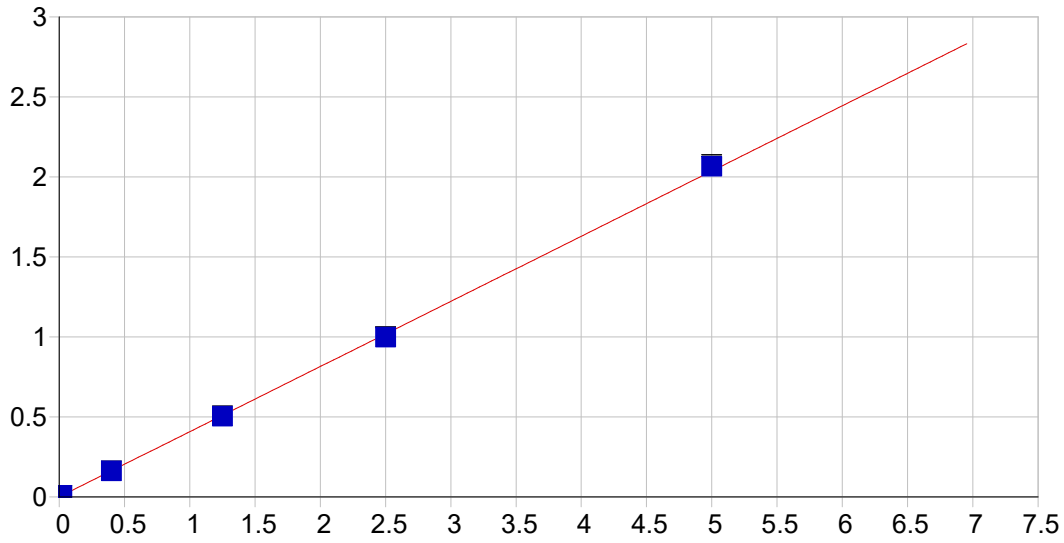
Fe 240.488 {140}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000008	Re-Slope:	1.000000
A1 (Gain):	0.004515	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999836	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.004482		
Predicted MQL:	0.014939		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00001	.000	1
S1	.10000	.10076	.001	.762	.00044	.000	1
S3	2.5000	2.5017	.002	.069	.01119	.000	1
S4	5.0000	4.8594	-.141	-2.81	.02174	.000	1
S5	10.000	10.116	.116	1.16	.04528	.000	1
S2	.80000	.82223	.022	2.78	.00367	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



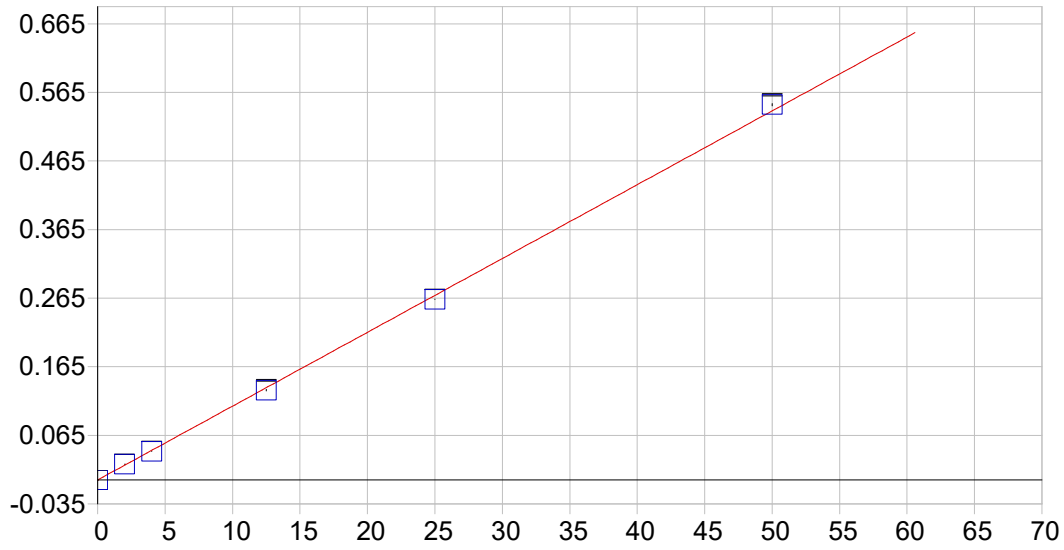
Mn 257.610 {131}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000255	Re-Slope:	1.000000
A1 (Gain):	0.407297	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999875	Status:	OK.
Std Error of Est:	0.000107		
Predicted MDL:	0.000347		
Predicted MQL:	0.001158		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00026	.000	1
S1	.02000	.01970	-.000	-1.50	.00828	.000	1
S3	1.2500	1.2357	-.014	-1.15	.50364	.002	1
S4	2.5000	2.4484	-.052	-2.06	.99770	.005	1
S5	5.0000	5.0709	.071	1.42	2.0660	.010	1
S2	.40000	.39529	-.005	-1.18	.16129	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



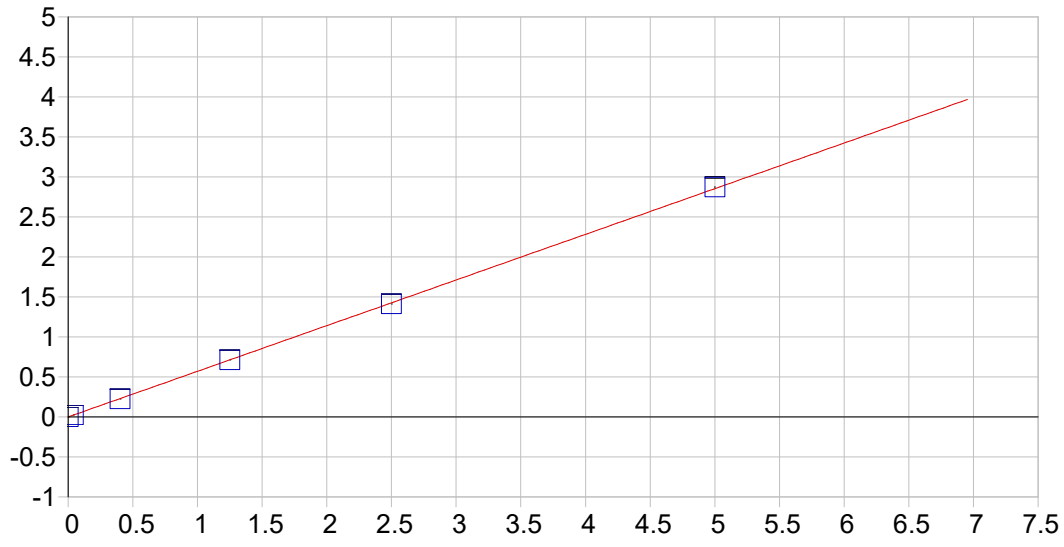
Mg 279.079 {121}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000102	Re-Slope:	1.000000
A1 (Gain):	0.010762	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999738	Status:	OK.
Std Error of Est:	0.000130		
Predicted MDL:	0.015197		
Predicted MQL:	0.050656		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	-.00010	.000	1
S2	4.0000	3.8777	-.122	-3.06	.04163	.000	1
S3	12.500	12.167	-.333	-2.66	.13085	.001	1
S4	25.000	24.466	-.534	-2.13	.26321	.000	1
S5	50.000	50.841	.841	1.68	.54707	.002	1
S1	2.0000	2.1474	.147	7.37	.02301	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



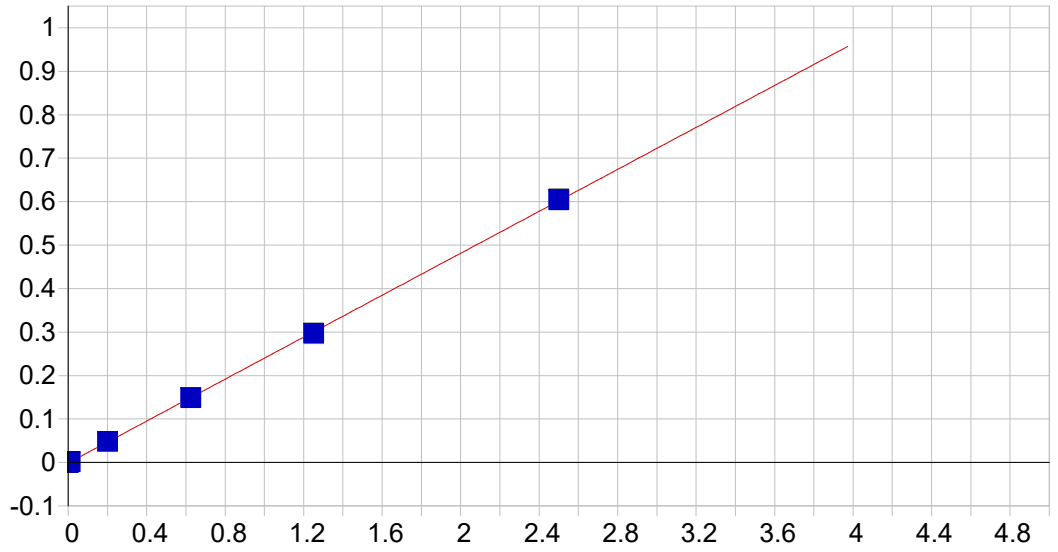
Ni 231.604 {446}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000177	Re-Slope:	1.000000
A1 (Gain):	0.570592	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999975	Status:	OK.
Std Error of Est:	0.000095		
Predicted MDL:	0.000324		
Predicted MQL:	0.001079		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00018	.000	1
S1	.04000	.03956	-.000	-1.10	.02240	.000	1
S3	1.2500	1.2483	-.002	-.133	.71211	.002	1
S4	2.5000	2.4761	-.024	-.955	1.4127	.001	1
S5	5.0000	5.0303	.030	.606	2.8701	.009	1
S2	.40000	.39567	-.004	-1.08	.22559	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



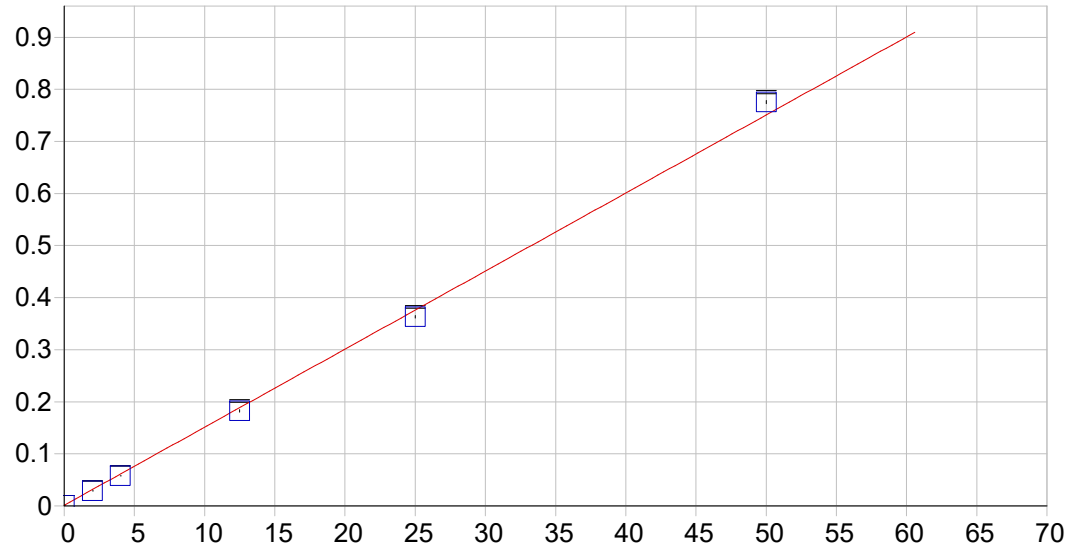
Ag 328.068 {103}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001368	Re-Slope:	1.000000
A1 (Gain):	0.241299	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999961	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.000357		
Predicted MQL:	0.001189		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00137	.000	1
S1	.01000	.01067	.001	6.73	.00119	.000	1
S3	.62500	.62232	-.003	-.428	.14820	.000	1
S4	1.2500	1.2362	-.014	-1.11	.29572	.001	1
S5	2.5000	2.5114	.011	.458	.60225	.002	1
S2	.20000	.20440	.004	2.20	.04776	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



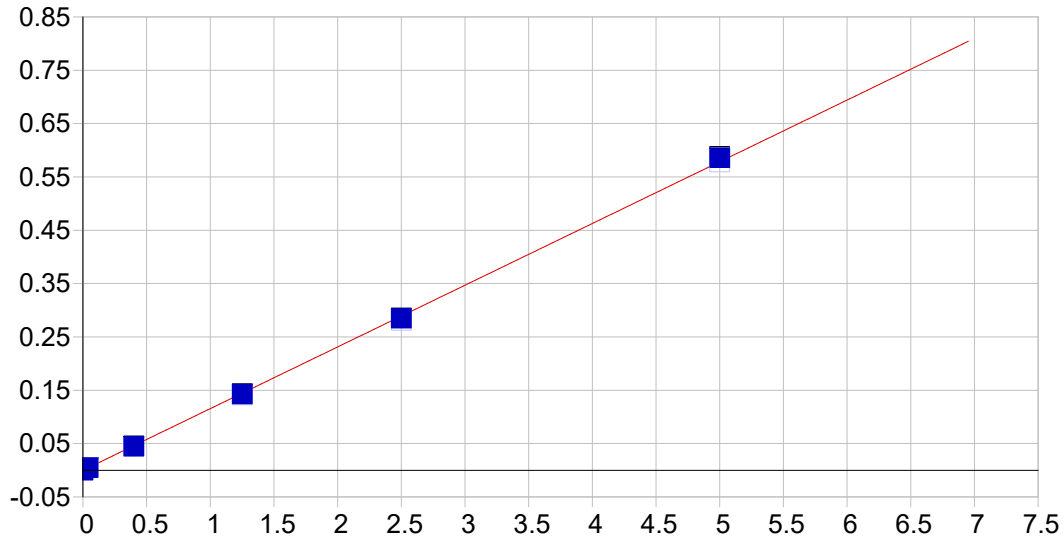
Na 589.592 { 57}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001303	Re-Slope:	1.000000
A1 (Gain):	0.014990	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999338	Status:	OK.
Std Error of Est:	0.000289		
Predicted MDL:	0.018531		
Predicted MQL:	0.061769		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00035	.000	.000	.00131	.000	1
S2	4.0000	3.7690	-.231	-5.78	.05780	.000	1
S3	12.500	12.085	-.415	-3.32	.18246	.002	1
S4	25.000	24.157	-.843	-3.37	.36342	.003	1
S5	50.000	51.654	1.65	3.31	.77562	.003	1
S1	2.0000	1.8354	-.165	-8.23	.02882	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



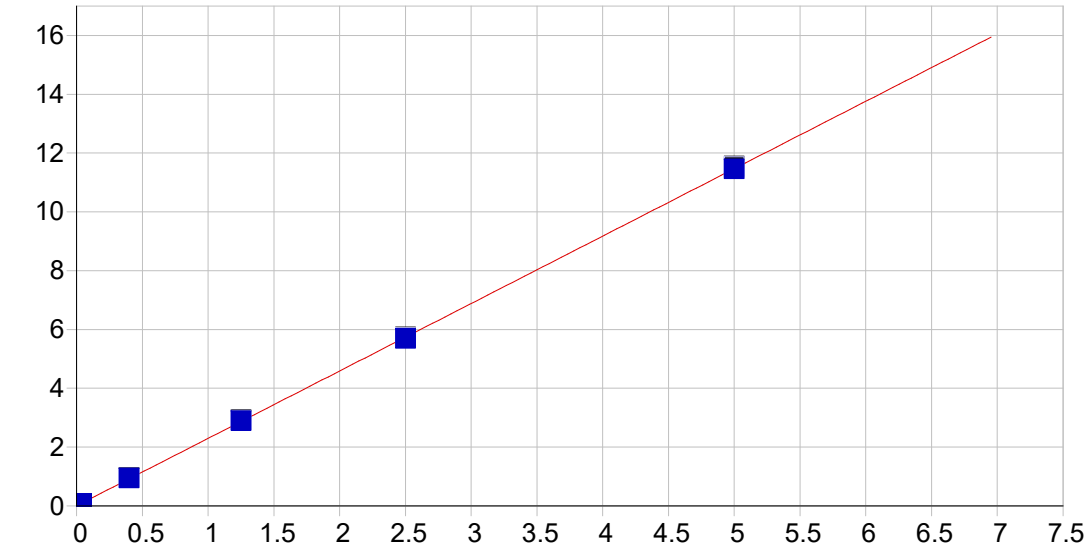
V 292.402 {115}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000033	Re-Slope:	1.000000
A1 (Gain):	0.115715	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999888	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.001541		
Predicted MQL:	0.005135		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00003	.000	1
S1	.04000	.04049	.000	1.22	.00448	.000	1
S3	1.2500	1.2346	-.015	-1.23	.14072	.000	1
S4	2.5000	2.4592	-.041	-1.63	.28031	.001	1
S5	5.0000	5.0661	.066	1.32	.57775	.002	1
S2	.40000	.38965	-.010	-2.59	.04438	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



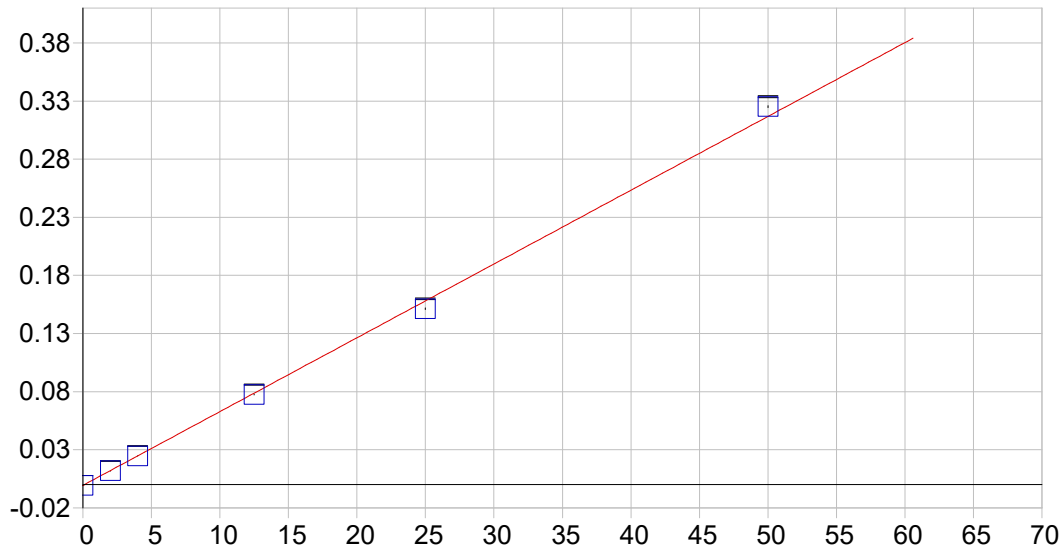
Zn 213.856 {158}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003824	Re-Slope:	1.000000
A1 (Gain):	2.292966	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999966	Status:	OK.
Std Error of Est:	0.000446		
Predicted MDL:	0.000325		
Predicted MQL:	0.001082		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00382	.001	1
S1	.04000	.04165	.002	4.13	.09997	.001	1
S3	1.2500	1.2628	.013	1.03	2.9194	.012	1
S4	2.5000	2.4793	-.021	-.826	5.7287	.015	1
S5	5.0000	4.9960	-.004	-.080	11.539	.023	1
S2	.40000	.41016	.010	2.54	.95068	.005	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



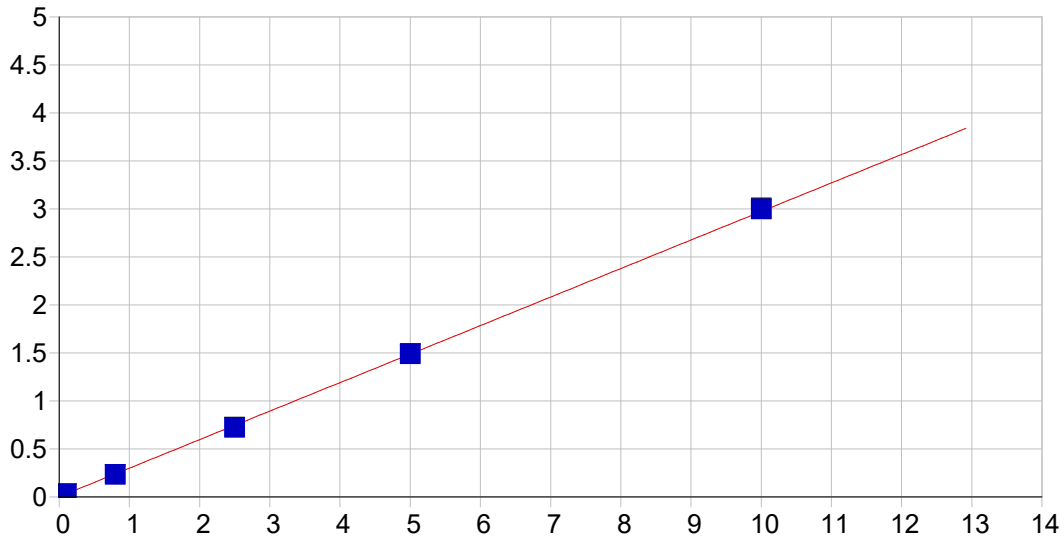
K 766.490 { 44}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000615	Re-Slope:	1.000000
A1 (Gain):	0.006348	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999555	Status:	OK.
Std Error of Est:	0.000100		
Predicted MDL:	0.029012		
Predicted MQL:	0.096706		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00011	.000	.000	-.00061	.000	1
S2	4.0000	3.9773	-.023	-.568	.02463	.000	1
S3	12.500	12.308	-.192	-1.54	.07752	.000	1
S4	25.000	23.939	-1.06	-4.24	.15135	.001	1
S5	50.000	51.312	1.31	2.62	.32511	.001	1
S1	2.0000	1.9630	-.037	-1.85	.01185	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



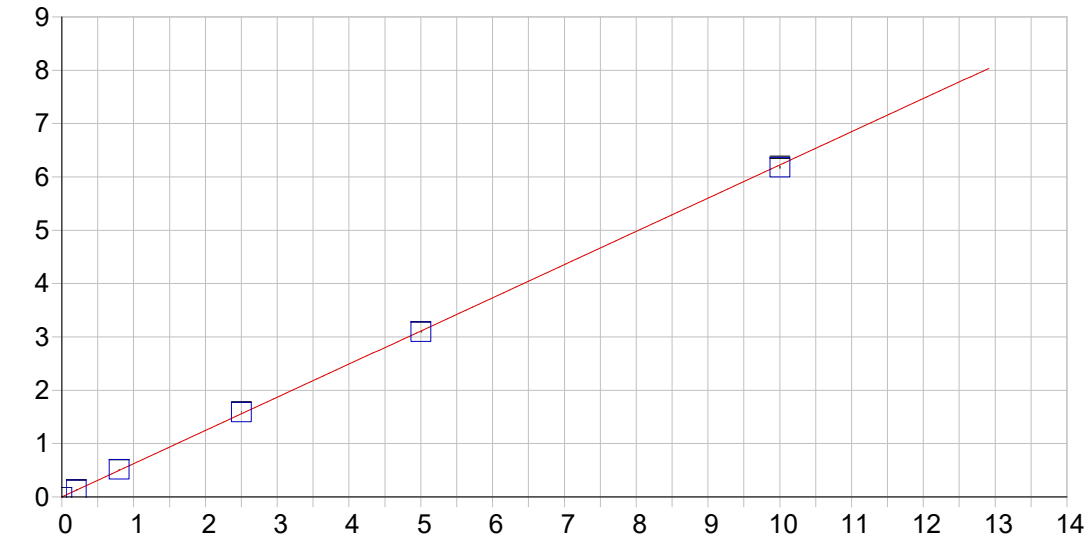
B 249.678 {135}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002418	Re-Slope:	1.000000
A1 (Gain):	0.297055	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999893	Status:	OK.
Std Error of Est:	0.000227		
Predicted MDL:	0.000726		
Predicted MQL:	0.002421		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00242	.000	1
S1	.10000	.10444	.004	4.44	.03329	.000	1
S3	2.5000	2.4229	-.077	-3.08	.71996	.004	1
S4	5.0000	5.0063	.006	.126	1.4852	.005	1
S5	10.000	10.088	.088	.876	2.9902	.011	1
S2	.80000	.77880	-.021	-2.65	.23306	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



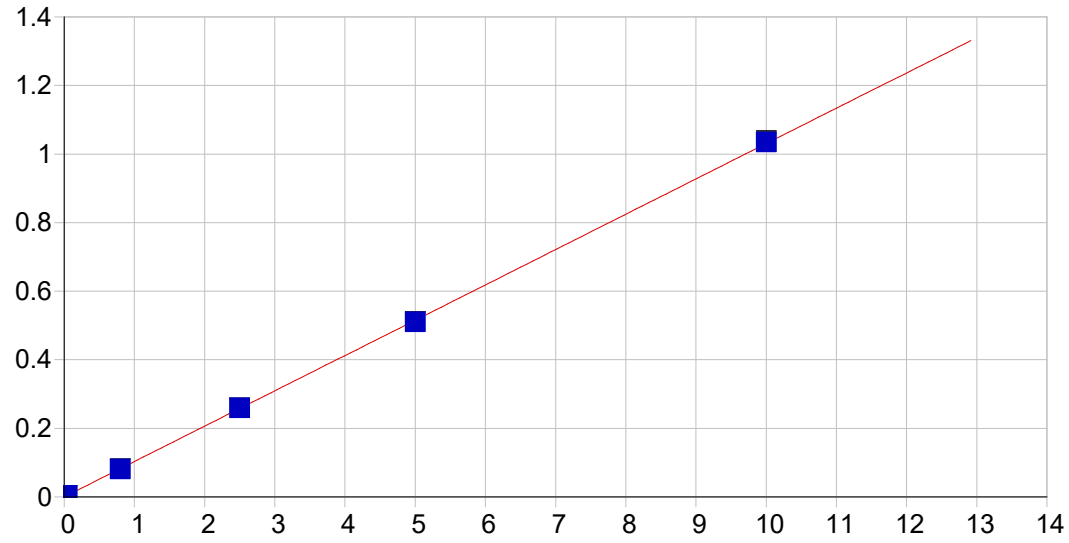
Mo 202.030 {467}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000156	Re-Slope:	1.000000
A1 (Gain):	0.622353	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999916	Status:	OK.
Std Error of Est:	0.000601		
Predicted MDL:	0.000265		
Predicted MQL:	0.000882		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00015	.000	1
S1	.20000	.20899	.009	4.49	.13022	.000	1
S3	2.5000	2.5588	.059	2.35	1.5926	.006	1
S4	5.0000	4.9757	-.024	-.487	3.0968	.001	1
S5	10.000	9.9321	-.068	-.679	6.1814	.022	1
S2	.80000	.82446	.024	3.06	.51326	.001	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



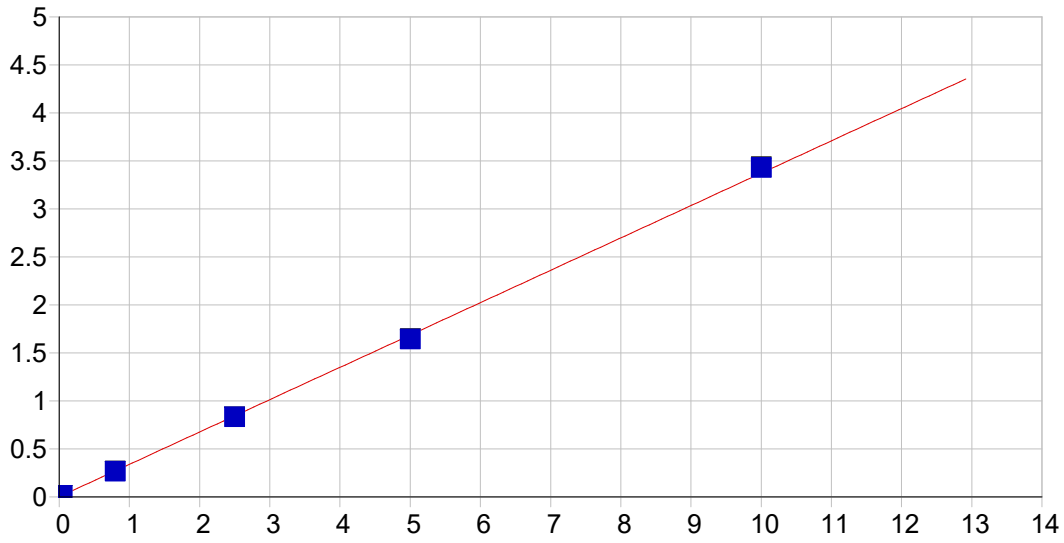
Sn 189.989 {478}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000189	Re-Slope:	1.000000
A1 (Gain):	0.103031	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.000826		
Predicted MQL:	0.002755		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00019	.000	1
S1	.04000	.03862	-.001	-3.45	.00416	.000	1
S3	2.5000	2.5170	.017	.678	.25925	.000	1
S4	5.0000	4.9526	-.047	-.949	.50993	.001	1
S5	10.000	10.044	.044	.445	1.0340	.004	1
S2	.80000	.78738	-.013	-1.58	.08123	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



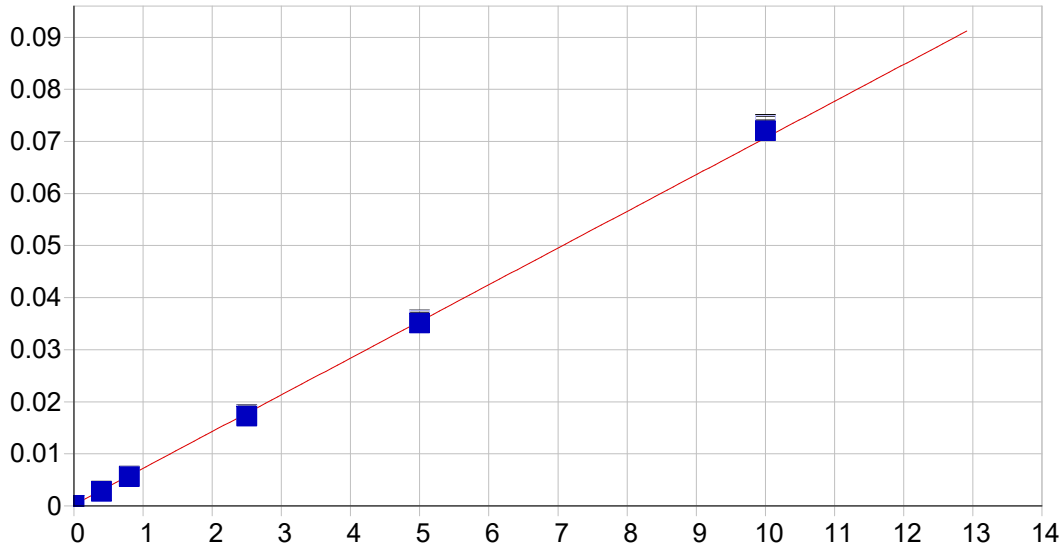
Ti 336.121 {100}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001962	Re-Slope:	1.000000
A1 (Gain):	0.336963	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999803	Status:	OK.
Std Error of Est:	0.000221		
Predicted MDL:	0.000712		
Predicted MQL:	0.002375		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00196	.000	1
S1	.04000	.04011	.000	.274	.01547	.000	1
S3	2.5000	2.4641	-.036	-1.43	.83198	.001	1
S4	5.0000	4.8707	-.129	-2.59	1.6426	.005	1
S5	10.000	10.178	.178	1.78	3.4302	.007	1
S2	.80000	.78753	-.012	-1.56	.26723	.001	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



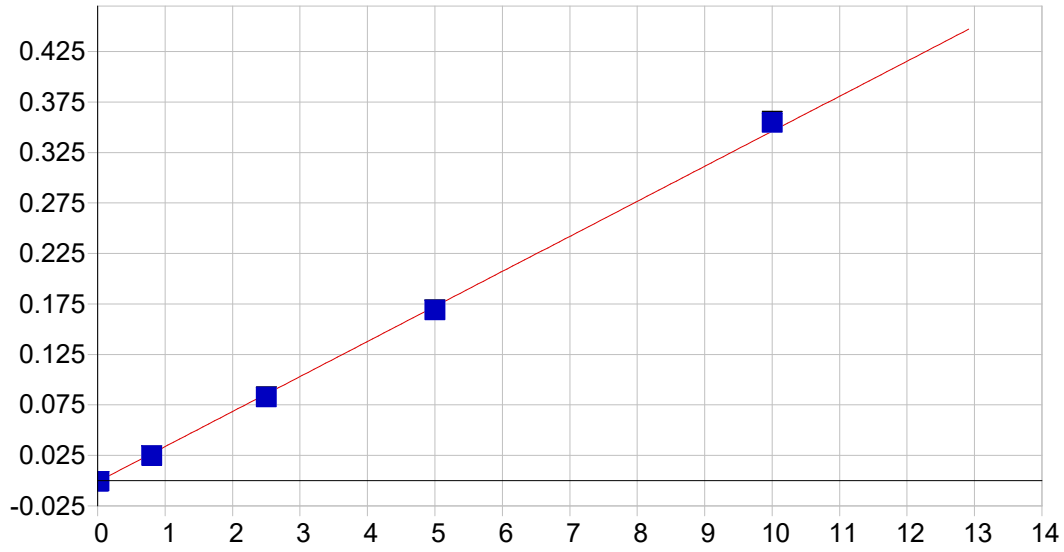
Si 288.158 {117}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000189	Re-Slope:	1.000000
A1 (Gain):	0.007047	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999708	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	0.005938		
Predicted MQL:	0.019795		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00006	.000	.000	.00019	.000	1
S1	.40000	.36549	-.035	-8.63	.00277	.000	1
S3	2.5000	2.4156	-.084	-3.37	.01748	.000	1
S4	5.0000	4.9570	-.043	-.860	.03565	.000	1
S5	10.000	10.194	.194	1.94	.07309	.000	1
S2	.80000	.76787	-.032	-4.02	.00569	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



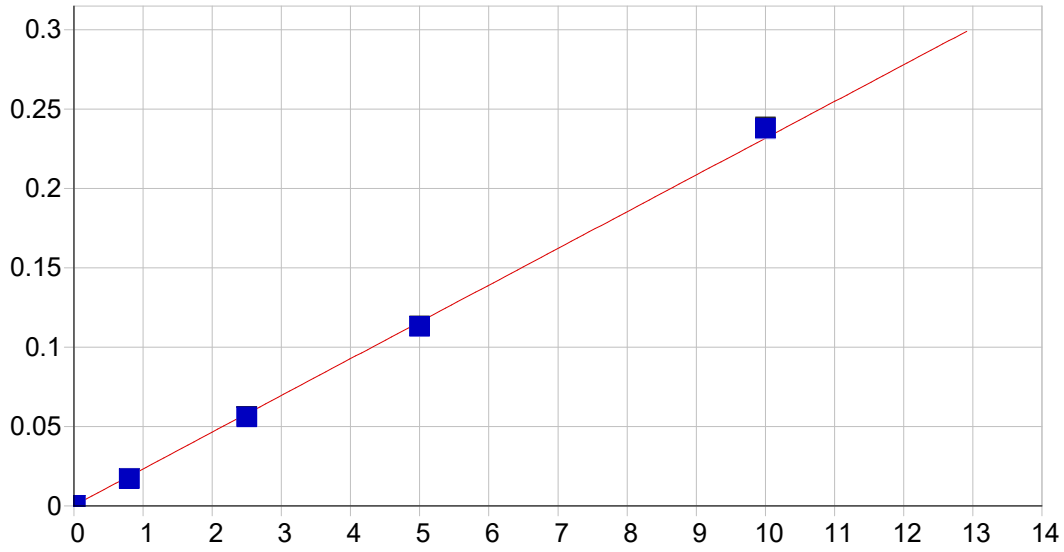
P 177.495 {490}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000989	Re-Slope:	1.000000
A1 (Gain):	0.034700	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999547	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.002616		
Predicted MQL:	0.008720		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00099	.000	1
S1	.02000	.01557	-.004	-22.1	-.00045	.000	1
S3	2.5000	2.4166	-.083	-3.34	.08285	.000	1
S4	5.0000	4.8964	-.104	-2.07	.16889	.000	1
S5	10.000	10.251	.251	2.51	.35466	.001	1
S2	.80000	.74066	-.059	-7.42	.02471	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



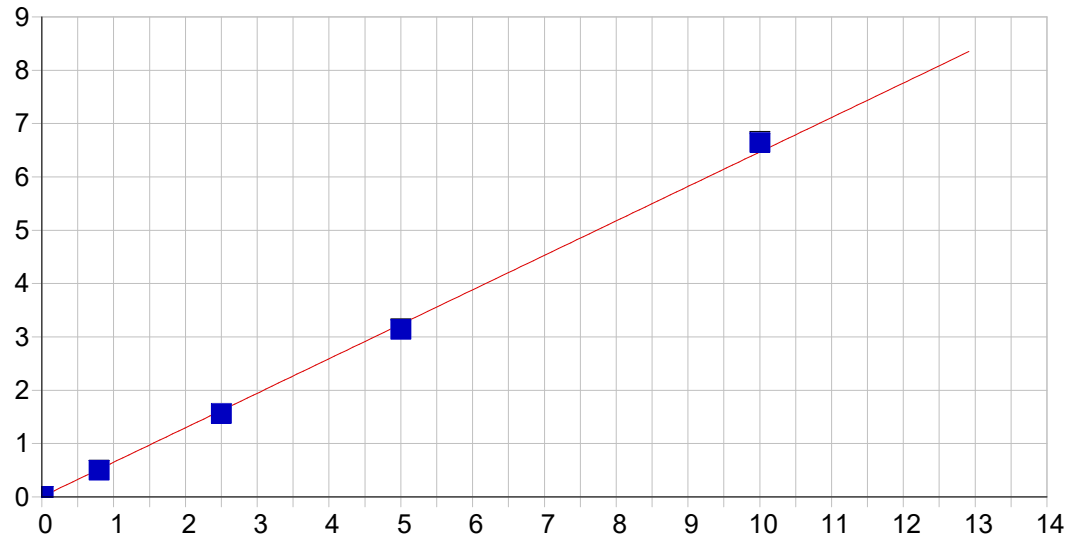
S 182.034 {485}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000174	Re-Slope:	1.000000
A1 (Gain):	0.023152	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999489	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.003413		
Predicted MQL:	0.011376		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00017	.000	1
S1	.02000	.01974	-.000	-1.30	.00061	.000	1
S3	2.5000	2.4158	-.084	-3.37	.05596	.000	1
S4	5.0000	4.8823	-.118	-2.35	.11291	.000	1
S5	10.000	10.270	.270	2.70	.23735	.001	1
S2	.80000	.73216	-.068	-8.48	.01708	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



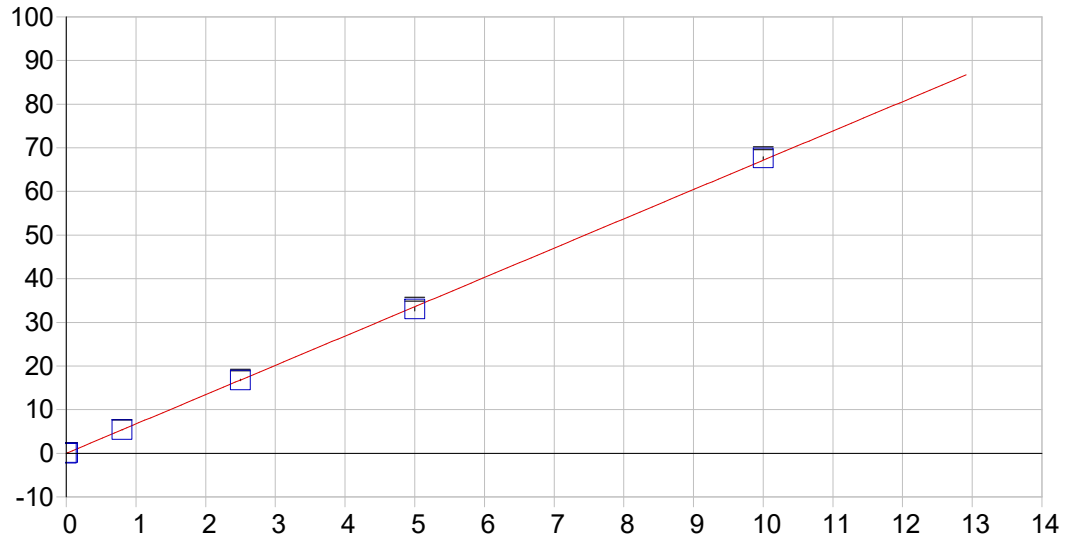
Li 670.784 { 50}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004319	Re-Slope:	1.000000
A1 (Gain):	0.646364	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999554	Status:	OK.
Std Error of Est:	0.000453		
Predicted MDL:	0.001163		
Predicted MQL:	0.003876		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00432	.000	1
S5	10.000	10.271	.271	2.71	6.6462	.021	1
S4	5.0000	4.8515	-.148	-2.97	3.1418	.007	1
S3	2.5000	2.4108	-.089	-3.57	1.5634	.005	1
S1	.02000	.02079	.001	3.96	.01796	.000	1
S2	.80000	.76617	-.034	-4.23	.49980	.000	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



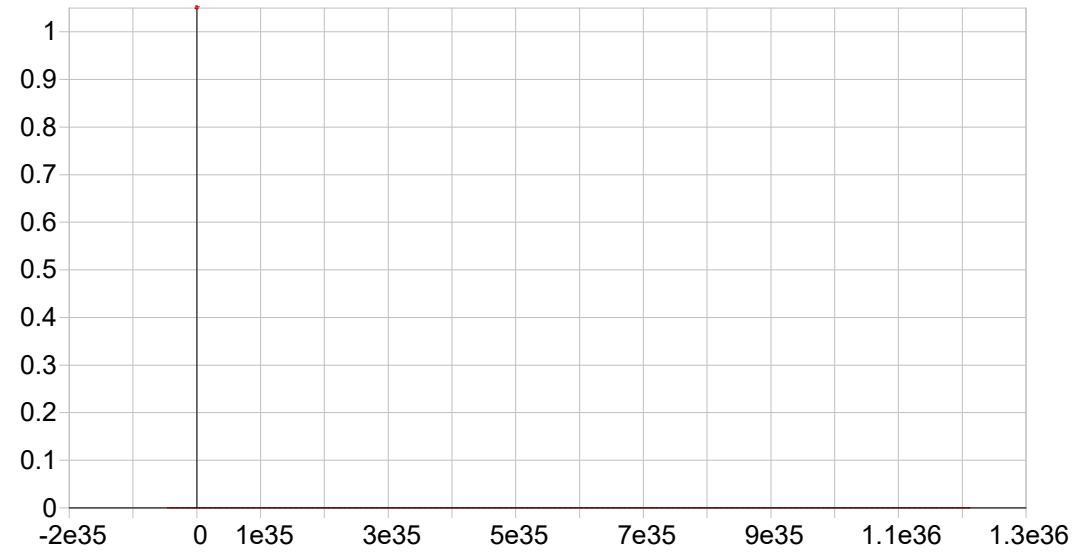
Sr 407.771 { 83}

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000259	Re-Slope:	1.000000
A1 (Gain):	6.714714	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.001584		
Predicted MDL:	0.000071		
Predicted MQL:	0.000236		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00026	.000	1
S1	.02000	.01958	-.000	-2.10	.13173	.000	1
S3	2.5000	2.5002	.000	.009	16.789	.198	1
S4	5.0000	4.9206	-.079	-1.59	33.040	.432	1
S5	10.000	10.074	.074	.737	67.643	.313	1
S2	.80000	.80589	.006	.736	5.4116	.006	1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

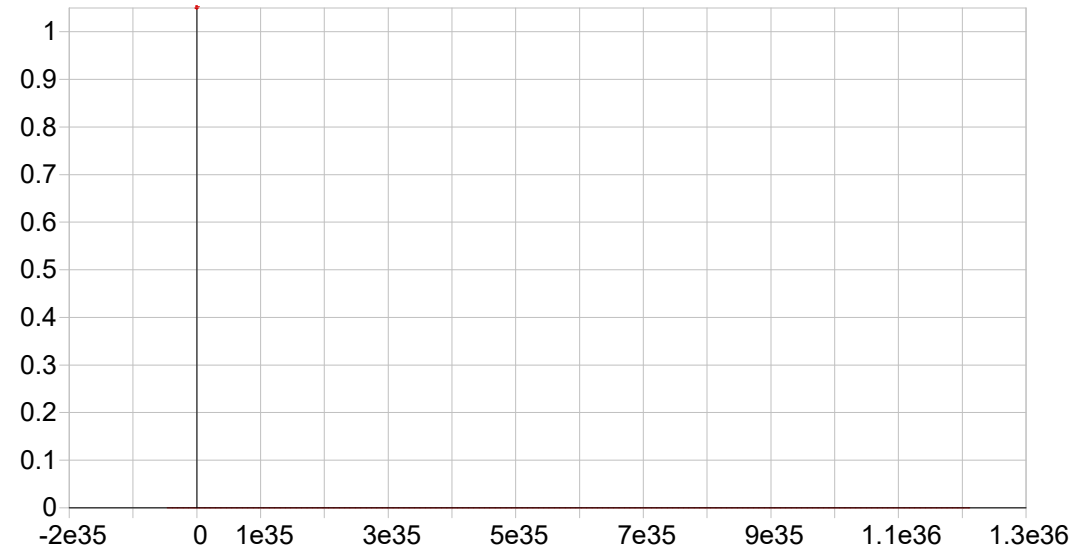


Y 224.306 {450}*

Date of Fit:	3/13/2025 17:29:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 360.073 { 94}*

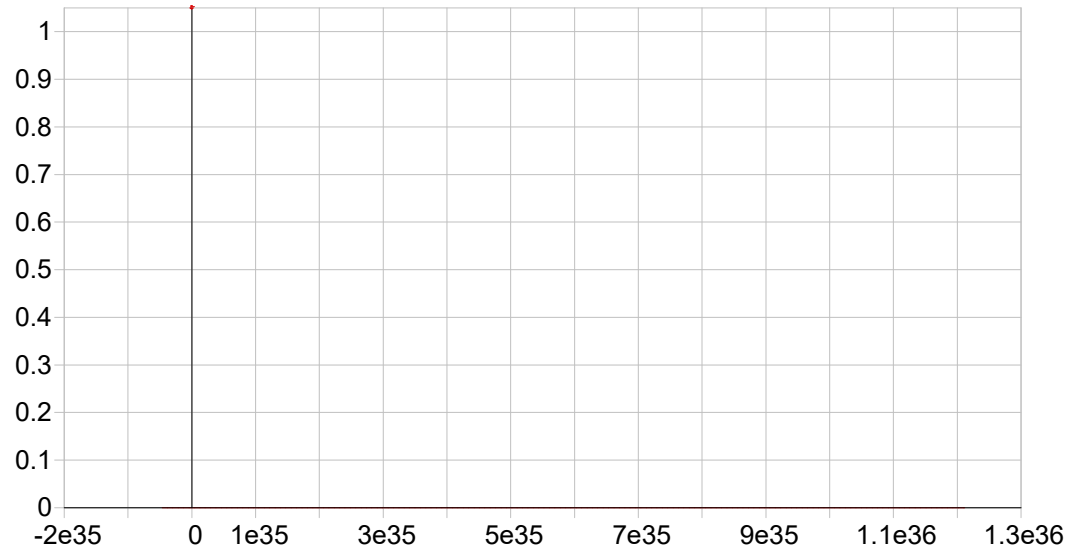
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



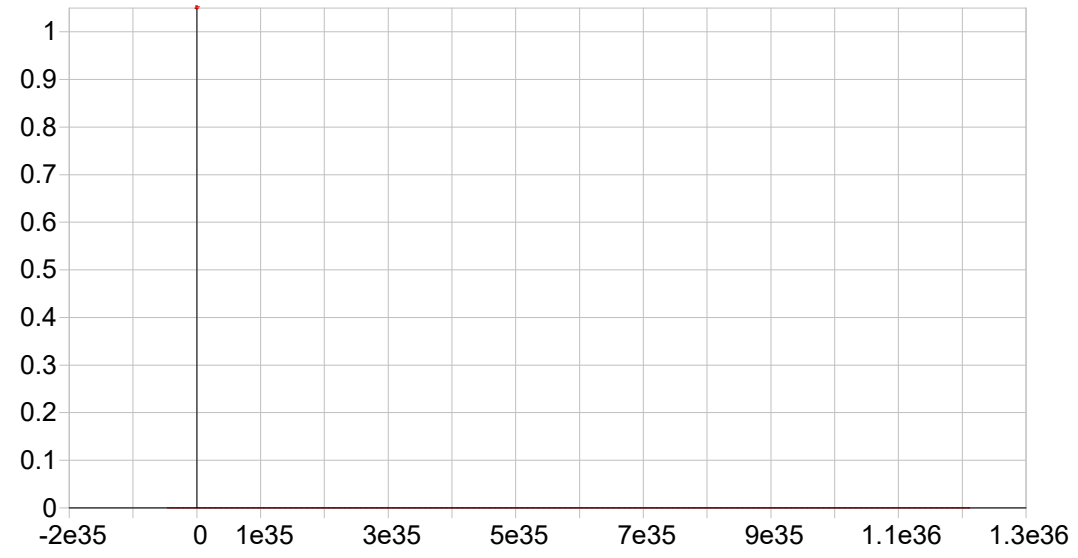
Y 371.030 { 91}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

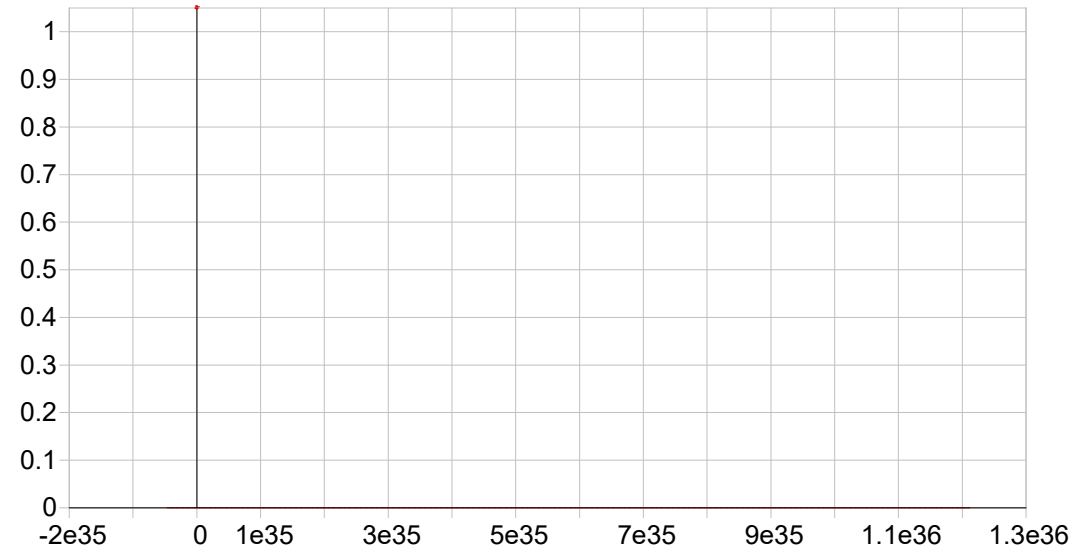
Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035



Y 224.306 {150}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	**Stated Conc.**	**Found Conc.**	**Difference**	**% Diff.**	**(S)IR**	**Std Dev**	**Emphasis**

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: S0 Acquired: 3/13/2025 11:42:00 Type: Cal
Method: NON EPA-6010-200.7(v2804) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00006	-.00013	-.00027	.00020	.00030	.00079	.03214	.00011
Stddev	.00006	.00003	.00020	.00008	.00011	.00028	.00176	.00008
%RSD	101.36	23.813	72.496	42.228	36.462	35.991	5.4909	69.853
#1	-.00013	-.00010	-.00005	.00027	.00024	.00047	.03027	.00013
#2	-.00002	-.00016	-.00041	.00011	.00023	.00100	.03237	.00003
#3	-.00003	-.00015	-.00036	.00022	.00042	.00090	.03378	.00018

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00011	.00083	.00004	-.00002	-.00062	-.00001	.00026	-.00010
Stddev	.00004	.00029	.00007	.00006	.00003	.00000	.00018	.00009
%RSD	32.306	35.453	171.17	290.13	4.1825	26.023	70.466	88.803
#1	-.00013	.00052	.00002	-.00003	-.00065	-.00001	.00028	-.00016
#2	-.00012	.00086	.00011	.00005	-.00060	-.00001	.00042	-.00014
#3	-.00007	.00111	-.00002	-.00008	-.00060	-.00001	.00006	.00000

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00018	-.00137	.00131	-.00003	.00382	-.00061	.00242	.00015
Stddev	.00023	.00007	.00009	.00016	.00067	.00013	.00032	.00007
%RSD	129.01	5.1895	7.0682	474.65	17.651	21.497	13.190	46.916
#1	.00009	-.00144	.00137	-.00002	.00316	-.00052	.00207	.00016
#2	-.00033	-.00129	.00135	.00012	.00379	-.00077	.00270	.00007
#3	-.00029	-.00137	.00120	-.00020	.00451	-.00055	.00248	.00021

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00019	.00196	.00019	-.00099	.00017	.00432	.00026
Stddev	.00002	.00015	.00002	.00005	.00004	.00041	.00038
%RSD	12.144	7.4615	12.275	5.4164	22.364	9.3894	146.10
#1	.00016	.00199	.00016	-.00103	.00014	.00426	-.00017
#2	.00020	.00180	.00021	-.00100	.00017	.00475	.00040
#3	.00020	.00209	.00020	-.00093	.00022	.00394	.00056

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: S0 Acquired: 3/13/2025 11:42:00 Type: Cal
Method: NON EPA-6010-200.7(v2804) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3549.9	79658.	15653.	2291.3	5169.2
Stddev	5.9	143.	49.	5.6	11.7
%RSD	.16723	.17965	.31287	.24344	.22550
#1	3549.2	79587.	15611.	2288.2	5164.1
#2	3556.1	79565.	15642.	2297.8	5182.6
#3	3544.3	79823.	15707.	2288.0	5161.1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: S1 Acquired: 3/13/2025 11:46:26 Type: Cal
Method: NON EPA-6010-200.7(v2804) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00090**	**.00242**	**.00197**	**.00130**	**.00671**	**.01022**	**.21484**	**.02109**
Stddev	.00005	.00007	.00024	.00014	.00010	.00031	.00117	.00003
%RSD	5.0644	3.0068	11.949	10.513	1.5281	3.0314	.54484	.15691
#1	.00086	.00251	.00173	.00145	.00668	.01047	.21568	.02111
#2	.00095	.00238	.00197	.00119	.00663	.01031	.21351	.02111
#3	.00089	.00238	.00220	.00127	.00683	.00987	.21535	.02105

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01333**	**.09841**	**.00141**	**.02464**	**.01357**	**.00044**	**.00828**	**.02301**
Stddev	.00020	.00062	.00006	.00010	.00019	.00000	.00009	.00007
%RSD	1.4789	.63150	4.3211	.42048	1.3636	.70927	1.1297	.30727
#1	.01311	.09880	.00147	.02459	.01358	.00044	.00830	.02296
#2	.01349	.09770	.00141	.02476	.01376	.00044	.00818	.02298
#3	.01340	.09874	.00135	.02457	.01339	.00044	.00836	.02309

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02240**	**.00119**	**.02882**	**.00448**	**.09997**	**.01185**	**.03329**	**.13022**
Stddev	.00013	.00004	.00008	.00013	.00083	.00014	.00024	.00014
%RSD	.59658	3.6717	.28205	2.8389	.83026	1.1576	.70750	.10941
#1	.02224	.00116	.02880	.00443	.09904	.01169	.03341	.13027
#2	.02248	.00118	.02874	.00438	.10065	.01191	.03302	.13033
#3	.02247	.00124	.02890	.00462	.10022	.01194	.03343	.13006

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00416**	**.01547**	**.00277**	**-.00045**	**.00061**	**.01796**	**.13173**
Stddev	.00002	.00021	.00003	.00008	.00005	.00046	.00028
%RSD	.58001	1.3631	1.0032	17.986	7.3985	2.5644	.21073
#1	.00418	.01525	.00278	-.00054	.00064	.01825	.13142
#2	.00414	.01548	.00279	-.00043	.00056	.01821	.13182
#3	.00418	.01567	.00274	-.00038	.00064	.01743	.13196

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: S1 Acquired: 3/13/2025 11:46:26 Type: Cal
Method: NON EPA-6010-200.7(v2804) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3551.3	78331.	15495.	2273.9	5106.8
Stddev	5.1	92.	72.	13.3	3.2
%RSD	.14413	.11694	.46164	.58328	.06207
#1	3545.4	78264.	15448.	2289.2	5103.2
#2	3554.0	78436.	15578.	2267.2	5109.4
#3	3554.6	78294.	15460.	2265.3	5107.7

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: S2 Acquired: 3/13/2025 11:50:48 Type: Cal
Method: NON EPA-6010-200.7(v2804) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.03660**	**.05034**	**.15001**	**.04077**	**.09764**	**.14756**	**3.0632**	**.13576**
Stddev	.00006	.00027	.00046	.00026	.00042	.00062	.0033	.00009
%RSD	.16657	.53671	.30829	.64484	.42508	.42241	.10877	.06536
#1	.03662	.05027	.14959	.04061	.09730	.14685	3.0614	.13577
#2	.03665	.05063	.14994	.04063	.09752	.14800	3.0670	.13567
#3	.03653	.05011	.15051	.04107	.09810	.14784	3.0611	.13584

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.89308**	**.19230**	**.02186**	**.32847**	**.12888**	**.00367**	**.16129**	**.04163**
Stddev	.00175	.00079	.00002	.00065	.00051	.00002	.00035	.00016
%RSD	.19624	.40901	.10157	.19726	.39805	.56129	.21868	.37248
#1	.89175	.19321	.02183	.32794	.12849	.00365	.16088	.04180
#2	.89242	.19187	.02186	.32828	.12868	.00367	.16144	.04150
#3	.89506	.19181	.02188	.32920	.12946	.00369	.16154	.04159

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.22559**	**.04776**	**.05780**	**.04438**	**.95068**	**.02463**	**.23306**	**.51326**
Stddev	.00023	.00022	.00020	.00016	.00537	.00014	.00023	.00085
%RSD	.10208	.46717	.34469	.36241	.56502	.57526	.09929	.16658
#1	.22539	.04769	.05776	.04430	.95503	.02479	.23321	.51228
#2	.22554	.04801	.05802	.04428	.94467	.02451	.23280	.51379
#3	.22584	.04758	.05763	.04457	.95234	.02460	.23319	.51373

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.08123**	**.26723**	**.00569**	**.02471**	**.01708**	**.49980**	**5.4116**
Stddev	.00042	.00064	.00002	.00006	.00016	.00017	.0059
%RSD	.51211	.23969	.27903	.22942	.94982	.03331	.10916
#1	.08075	.26713	.00570	.02467	.01690	.49998	5.4076
#2	.08142	.26665	.00568	.02468	.01711	.49966	5.4184
#3	.08152	.26792	.00568	.02477	.01722	.49977	5.4087

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: S2 Acquired: 3/13/2025 11:50:48 Type: Cal
Method: NON EPA-6010-200.7(v2804) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3537.3	78521.	16074.	2257.7	4992.7
Stddev	4.6	161.	44.	15.3	7.4
%RSD	.12937	.20539	.27248	.67696	.14880
#1	3539.7	78364.	16034.	2242.3	4995.4
#2	3540.2	78687.	16121.	2272.9	4998.5
#3	3532.0	78511.	16066.	2258.0	4984.3

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: S3 Acquired: 3/13/2025 11:54:53 Type: Cal
Method: NON EPA-6010-200.7(v2804) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.11628**	**.15821**	**.47445**	**.12885**	**.30681**	**.46237**	**9.4976**	**.42370**
Stddev	.00026	.00050	.00139	.00063	.00099	.00026	.0868	.00150
%RSD	.22754	.31732	.29319	.49265	.32155	.05635	.91409	.35436
#1	.11604	.15821	.47304	.12820	.30570	.46230	9.5136	.42423
#2	.11624	.15872	.47448	.12888	.30714	.46266	9.5753	.42486
#3	.11656	.15772	.47582	.12947	.30758	.46216	9.4039	.42200

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.8385**	**.60057**	**.06813**	**1.0395**	**.40029**	**.01119**	**.50364**	**.13085**
Stddev	.0055	.00172	.00011	.0016	.00097	.00005	.00154	.00113
%RSD	.19460	.28567	.16642	.15312	.24107	.46152	.30522	.86387
#1	2.8357	.59944	.06812	1.0381	.39942	.01123	.50521	.13133
#2	2.8349	.60255	.06825	1.0391	.40012	.01122	.50356	.13166
#3	2.8448	.59974	.06802	1.0412	.40133	.01113	.50214	.12955

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.71211**	**.14820**	**.18246**	**.14072**	**2.9194**	**.07752**	**.71996**	**1.5926**
Stddev	.00187	.00030	.00232	.00034	.0121	.00036	.00403	.0056
%RSD	.26300	.20412	1.2697	.23890	.41410	.45960	.55955	.34945
#1	.71100	.14825	.18435	.14077	2.9218	.07768	.71704	1.5885
#2	.71106	.14847	.17987	.14102	2.9301	.07711	.72455	1.5904
#3	.71428	.14787	.18315	.14036	2.9063	.07776	.71828	1.5989

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.25925**	**.83198**	**.01748**	**.08285**	**.05596**	**1.5634**	**16.789**
Stddev	.00035	.00142	.00007	.00007	.00010	.0053	.198
%RSD	.13416	.17039	.38052	.08312	.17345	.33979	1.1787
#1	.25941	.83357	.01754	.08279	.05607	1.5689	16.940
#2	.25885	.83087	.01741	.08284	.05590	1.5583	16.861
#3	.25949	.83149	.01748	.08293	.05590	1.5630	16.565

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: S3 Acquired: 3/13/2025 11:54:53 Type: Cal
Method: NON EPA-6010-200.7(v2804) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3460.2	78160.	15867.	2230.2	4760.0
Stddev	9.1	158.	60.	6.1	9.5
%RSD	.26353	.20258	.38043	.27150	.20026
#1	3461.2	77979.	15853.	2223.2	4757.7
#2	3468.8	78227.	15815.	2233.8	4770.5
#3	3450.6	78274.	15933.	2233.6	4751.9

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: S4 Acquired: 3/13/2025 11:59:06 Type: Cal
Method: NON EPA-6010-200.7(v2804) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.23679	.31532	.95284	.25320	.59820	.92525	18.690	.87033
Stddev	.00028	.00134	.00093	.00036	.00052	.00156	.185	.00238
%RSD	.11947	.42363	.09742	.14175	.08627	.16891	.98718	.27355
#1	.23650	.31679	.95386	.25341	.59788	.92576	18.898	.86884
#2	.23707	.31500	.95259	.25278	.59793	.92649	18.548	.87308
#3	.23681	.31418	.95206	.25340	.59880	.92349	18.623	.86908

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.6831	1.1870	.13344	2.0660	.77894	.02174	.99770	.26321
Stddev	.0104	.0024	.00037	.0017	.00069	.00008	.00467	.00017
%RSD	.18368	.20381	.27925	.08313	.08921	.38597	.46784	.06328
#1	5.6949	1.1882	.13385	2.0670	.77851	.02184	1.0001	.26336
#2	5.6751	1.1886	.13311	2.0640	.77857	.02169	1.0007	.26324
#3	5.6792	1.1842	.13336	2.0669	.77974	.02170	.99232	.26303

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4127	.29572	.36342	.28031	5.7287	.15135	1.4852	3.0968
Stddev	.0008	.00060	.00256	.00106	.0154	.00059	.0048	.0010
%RSD	.05871	.20174	.70470	.37920	.26932	.39121	.32587	.03121
#1	1.4135	.29568	.36570	.28098	5.7112	.15149	1.4851	3.0977
#2	1.4118	.29515	.36065	.28087	5.7348	.15070	1.4901	3.0958
#3	1.4127	.29634	.36391	.27909	5.7402	.15186	1.4804	3.0968

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.50993	1.6426	.03565	.16889	.11291	3.1418	33.040
Stddev	.00111	.0050	.00005	.00039	.00014	.0071	.432
%RSD	.21761	.30485	.13823	.23272	.12022	.22563	1.3066
#1	.51113	1.6450	.03569	.16935	.11289	3.1484	32.891
#2	.50970	1.6459	.03567	.16867	.11278	3.1426	33.527
#3	.50895	1.6368	.03560	.16866	.11305	3.1343	32.703

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: S4 Acquired: 3/13/2025 11:59:06 Type: Cal
Method: NON EPA-6010-200.7(v2804) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3438.1	76550.	15063.	2202.3	4619.0
Stddev	1.7	27.	65.	6.7	2.5
%RSD	.05080	.03487	.43165	.30285	.05365
#1	3440.0	76531.	15062.	2208.6	4616.5
#2	3437.5	76581.	14999.	2195.3	4621.5
#3	3436.7	76539.	15129.	2202.9	4619.1

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: S5 Acquired: 3/13/2025 12:03:18 Type: Cal
Method: NON EPA-6010-200.7(v2804) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.47043	.62312	1.9097	.50576	1.2076	1.9053	39.358	1.7562
Stddev	.00206	.00472	.0073	.00190	.0040	.0029	.650	.0094
%RSD	.43741	.75742	.38461	.37588	.33408	.14975	1.6512	.53413
#1	.47020	.62846	1.9081	.50622	1.2058	1.9060	39.643	1.7571
#2	.46850	.61952	1.9033	.50367	1.2048	1.9077	39.816	1.7651
#3	.47260	.62139	1.9177	.50738	1.2122	1.9021	38.614	1.7464

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.568	2.4584	.26394	4.2228	1.5450	.04528	2.0660	.54707
Stddev	.041	.0057	.00030	.0141	.0066	.00022	.0095	.00163
%RSD	.35736	.23159	.11281	.33421	.42743	.49391	.46053	.29842
#1	11.549	2.4584	.26373	4.2153	1.5422	.04528	2.0643	.54827
#2	11.540	2.4641	.26428	4.2140	1.5403	.04551	2.0763	.54774
#3	11.615	2.4527	.26382	4.2391	1.5525	.04506	2.0575	.54521

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.8701	.60225	.77562	.57775	11.539	.32511	2.9902	6.1814
Stddev	.0095	.00161	.00290	.00203	.023	.00080	.0114	.0223
%RSD	.32972	.26790	.37357	.35202	.19975	.24709	.38226	.36162
#1	2.8634	.60138	.77726	.57918	11.529	.32581	2.9882	6.1771
#2	2.8659	.60411	.77732	.57865	11.523	.32530	3.0025	6.1615
#3	2.8809	.60125	.77227	.57542	11.566	.32423	2.9799	6.2056

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.0340	3.4302	.07309	.35466	.23735	6.6462	67.643
Stddev	.0036	.0068	.00016	.00112	.00080	.0207	.313
%RSD	.34391	.19918	.22210	.31601	.33746	.31099	.46226
#1	1.0343	3.4304	.07307	.35426	.23772	6.6449	67.845
#2	1.0303	3.4369	.07294	.35379	.23643	6.6674	67.800
#3	1.0374	3.4232	.07326	.35593	.23789	6.6262	67.282

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: S5 Acquired: 3/13/2025 12:03:18 Type: Cal
Method: NON EPA-6010-200.7(v2804) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3336.7	74580.	14829.	2146.7	4361.5
Stddev	11.9	138.	38.	4.2	12.1
%RSD	.35607	.18569	.25456	.19433	.27785
#1	3345.7	74456.	14832.	2143.9	4372.4
#2	3341.2	74556.	14790.	2151.5	4363.7
#3	3323.2	74729.	14865.	2144.8	4348.4

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: ICV01 Acquired: 3/13/2025 12:07:29 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.023319**	**1.052094**	**1.001120**	**1.044511**	**1.015793**	**2.507610**	**.5329574**
Stddev	.004018	.006402	.000878	.005339	.003001	.004977	.0025129
%RSD	.3926613	.6085450	.0877064	.5111775	.2954273	.1984933	.4715047
#1	1.018768	1.045256	1.001411	1.042022	1.014656	2.504538	.5307364
#2	1.026377	1.053078	1.000134	1.040871	1.013526	2.513353	.5324509
#3	1.024811	1.057947	1.001816	1.050641	1.019196	2.504940	.5356851

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5364067**	**.5027774**	**9.869264**	**.5252467**	**.5102300**	**.5292622**	**9.861429**
Stddev	.0024429	.0009015	.038361	.0020061	.0017139	.0008468	.080696
%RSD	.4554235	.1793134	.3886887	.3819296	.3359034	.1599883	.8183029
#1	.5345120	.5027253	9.826077	.5229693	.5091791	.5290191	9.847845
#2	.5391639	.5019030	9.899385	.5260191	.5093030	.5285635	9.788386
#3	.5355442	.5037038	9.882331	.5267518	.5122077	.5302039	9.948055

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5415575**	**6.274207**	**.5454800**	**.2522255**	**10.18936**	**.5183829**	**1.015069**
Stddev	.0044512	.034938	.0007003	.0004928	.10033	.0015395	.004345
%RSD	.8219249	.5568493	.1283813	.1953664	.9846097	.2969825	.4280379
#1	.5376438	6.241979	.5450443	.2519366	10.17582	.5197048	1.013295
#2	.5406289	6.311337	.5451079	.2519454	10.09649	.5187512	1.011892
#3	.5463997	6.269305	.5462878	.2527945	10.29576	.5166926	1.020020

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.14291**	**2.696643**	**2.396587**	**2.436881**	**2.446002**	**2.492802**	**2.550578**
Stddev	.07966	.012970	.004715	.004191	.009222	.015458	.005394
%RSD	.7853317	.4809520	.1967243	.1719643	.3770349	.6200931	.2114913
#1	10.13796	2.686208	2.393245	2.432842	2.439754	2.504716	2.546482
#2	10.06585	2.711163	2.394537	2.436592	2.441659	2.475335	2.548562
#3	10.22493	2.692559	2.401980	2.441208	2.456595	2.498355	2.556690

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: ICV01 Acquired: 3/13/2025 12:07:29 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.475240**	**2.545217**	**2.544442**
Stddev	.013193	.014263	.021560
%RSD	.5329980	.5603741	.8473313
#1	2.465872	2.540983	2.559040
#2	2.469520	2.533549	2.554608
#3	2.490328	2.561117	2.519679

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3494.428**	**79269.35**	**16100.95**	**2257.771**	**4859.966**
Stddev	11.432	107.09	64.06	14.089	15.032
%RSD	.3271619	.1350941	.3978719	.6240250	.3092956
#1	3501.051	79259.40	16154.01	2265.356	4870.125
#2	3501.006	79381.07	16029.78	2266.442	4867.075
#3	3481.227	79167.59	16119.05	2241.514	4842.699

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: LLICV01 Acquired: 3/13/2025 12:13:04 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0172596**	**.0421056**	**.0126067**	**.0192262**	**.0542969**	**.0985612**
Stddev	.0021532	.0014164	.0009774	.0023553	.0004698	.0028567
%RSD	12.47529	3.363848	7.753288	12.25065	.8651495	2.898435
#1	.0177924	.0405700	.0134722	.0189478	.0542033	.1008285
#2	.0190964	.0433608	.0115466	.0217083	.0538810	.0995024
#3	.0148901	.0423860	.0128013	.0170223	.0548064	.0953526

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0922136**	**.0061511**	**.0059476**	**1.971992**	**.0100806**	**.0297386**
Stddev	.0031802	.0000778	.0000172	.005510	.0000608	.0000835
%RSD	3.448772	1.265271	.2886948	.2794300	.6031870	.2808128
#1	.0958675	.0062329	.0059378	1.975128	.0101009	.0296835
#2	.0907041	.0061423	.0059674	1.965630	.0101287	.0296977
#3	.0900693	.0060780	.0059375	1.975219	.0100123	.0298347

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0227367**	**.1009157**	**.0196450**	**2.096364**	**.0396712**	**.0106344**
Stddev	.0000976	.0027397	.0002434	.011569	.0001238	.0002441
%RSD	.4290747	2.714793	1.238821	.5518669	.3121577	2.295091
#1	.0227247	.1008352	.0199259	2.083227	.0398133	.0104430
#2	.0228397	.0982172	.0195094	2.105031	.0395865	.0109092
#3	.0226457	.1036947	.0194996	2.100835	.0396138	.0105508

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.740375**	**.0392525**	**.0413438**	**1.847967**	**.1174394**	**.2101818**
Stddev	.011571	.0012542	.0005091	.008042	.0013122	.0005881
%RSD	.6648488	3.195228	1.231411	.4352054	1.117333	.2798081
#1	1.733409	.0403237	.0415255	1.853820	.1184029	.2095075
#2	1.753731	.0395609	.0417372	1.838796	.1179704	.2104497
#3	1.733983	.0378729	.0407688	1.851285	.1159449	.2105883

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: LLICV01 Acquired: 3/13/2025 12:13:04 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0389652	.0396029	.3536584	F .0152969	.0197096	.0194271
Stddev	.0006797	.0006561	.0037506	.0002645	.0004861	.0001142
%RSD	1.744489	1.656714	1.060509	1.728855	2.466358	.5876699
#1	.0396652	.0399245	.3525044	.0150709	.0191625	.0195502
#2	.0383077	.0400361	.3506204	.0152320	.0200919	.0194066
#3	.0389228	.0388480	.3578503	.0155877	.0198743	.0193247

Elem	Sr4077
Units	ppm
Avg	.0197111
Stddev	.0011097
%RSD	5.630027
#1	.0209926
#2	.0190712
#3	.0190697

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3521.223	79681.09	15157.86	2274.726	5064.013
Stddev	11.137	204.30	97.52	7.703	11.334
%RSD	.3162823	.2564017	.6433576	.3386518	.2238159
#1	3531.130	79445.52	15066.39	2268.786	5074.449
#2	3523.369	79787.88	15146.70	2271.961	5065.635
#3	3509.168	79809.86	15260.47	2283.430	5051.956

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: ICB01 Acquired: 3/13/2025 12:17:21 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002229**	**.0014001**	**-.000087**	**.0023069**	**.0009129**	**-.015462**	**.0027191**
Stddev	.001030	.0006760	.000277	.0015516	.0019763	.000567	.0006563
%RSD	46.22196	48.28733	317.5144	67.25828	216.4989	3.666943	24.13578
#1	-.003418	.0020249	.000116	.0025256	-.001284	-.015767	.0034501
#2	-.001678	.0014929	.000025	.0037374	.002547	-.015811	.0025266
#3	-.001592	.0006824	-.000402	.0006575	.001476	-.014808	.0021807

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000112**	**-.000026**	**-.004653**	**-.000048**	**.0000323**	**-.000172**	**.0022416**
Stddev	.0000302	.000093	.009998	.000649	.0001114	.000062	.0027950
%RSD	268.9461	356.4676	214.8816	1356.466	344.8556	35.84461	124.6865
#1	-.000011	.000080	.005628	-.000166	-.000088	-.000198	.0054509
#2	.000046	-.000062	-.014341	.000652	.000054	-.000102	.0009328
#3	-.000001	-.000097	-.005246	-.000630	.000131	-.000216	.0003412

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000579**	**.0022769**	**.0000886**	**.0002191**	**.0190586**	**.0002395**	**-.000984**
Stddev	.000060	.0046970	.0003792	.0002227	.0087512	.0002402	.000270
%RSD	10.39624	206.2914	428.0715	101.6075	45.91751	100.3184	27.43638
#1	-.000617	-.002721	.0001349	.0000503	.0143383	.0004261	-.000679
#2	-.000611	.006600	.0004425	.0004715	.0136810	-.000032	-.001081
#3	-.000510	.002951	-.000312	.0001356	.0291565	.000324	-.001192

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0205279**	**.0083646**	**-.000047**	**-.001327**	**.0011089**	**-.001325**	**-.004482**
Stddev	.0141659	.0003555	.000222	.000322	.0002885	.003069	.002174
%RSD	69.00802	4.249800	472.7039	24.28550	26.01719	231.5738	48.49703
#1	.0179679	.0079609	.000195	-.001688	.0013492	.002217	-.004132
#2	.0078165	.0085019	-.000242	-.001225	.0011885	-.002994	-.006810
#3	.0357992	.0086309	-.000093	-.001067	.0007889	-.003199	-.002505

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: ICB01 Acquired: 3/13/2025 12:17:21 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001205	.0017877	-.000005
Stddev	.002275	.0011110	.000058
%RSD	188.8608	62.14833	1246.240
#1	-.003791	.0010909	.000018
#2	.000488	.0012033	-.000071
#3	-.000311	.0030690	.000039

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3492.534	77771.29	14905.66	2237.123	5055.713
Stddev	2.715	138.57	77.76	4.354	9.040
%RSD	.0777299	.1781746	.5216599	.1946324	.1788125
#1	3495.463	77827.52	14841.46	2232.440	5065.697
#2	3492.035	77872.90	14992.12	2241.049	5048.082
#3	3490.103	77613.44	14883.40	2237.881	5053.359

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CRI01 Acquired: 3/13/2025 12:21:41 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0211847**	**.0416487**	**.0117389**	**.0213279**	**.0528621**	**.0992258**
Stddev	.0017833	.0017286	.0015884	.0017131	.0009178	.0019327
%RSD	8.417925	4.150357	13.53137	8.032019	1.736232	1.947780
#1	.0203237	.0425463	.0135058	.0212138	.0518538	.0986406
#2	.0232351	.0427438	.0112814	.0196747	.0530837	.0976533
#3	.0199952	.0396560	.0104293	.0230951	.0536488	.1013834

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0940446**	**.0060719**	**.0058974**	**2.019066**	**.0104250**	**.0301677**
Stddev	.0004139	.0000269	.0000369	.004870	.0001175	.0001030
%RSD	.4401001	.4429253	.6263642	.2412135	1.126802	.3415486
#1	.0944633	.0061029	.0059285	2.021245	.0105554	.0302790
#2	.0940346	.0060582	.0058566	2.022466	.0103275	.0301482
#3	.0936357	.0060546	.0059071	2.013487	.0103920	.0300757

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0231299**	**.1102897**	**.0205900**	**2.140852**	**.0398264**	**.0106236**
Stddev	.0002067	.0031461	.0006144	.021546	.0002832	.0001731
%RSD	.8937693	2.852604	2.983971	1.006426	.7111547	1.628943
#1	.0231357	.1066671	.0211317	2.118860	.0401526	.0105158
#2	.0233337	.1118652	.0207159	2.141771	.0396845	.0105319
#3	.0229203	.1123368	.0199224	2.161923	.0396422	.0108233

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.827754**	**.0409944**	**.0424755**	**1.922954**	**.1099884**	**.2127317**
Stddev	.027746	.0013023	.0002774	.026153	.0010791	.0006908
%RSD	1.518011	3.176707	.6530889	1.360059	.9811008	.3247491
#1	1.805166	.0400745	.0426606	1.897618	.1110888	.2123119
#2	1.858724	.0404242	.0426093	1.921388	.1089320	.2123542
#3	1.819373	.0424845	.0421565	1.949855	.1099443	.2135291

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CRI01 Acquired: 3/13/2025 12:21:41 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0400111	.0395867	.3662256	F .0158916	.0183800	.0204578
Stddev	.0010981	.0004552	.0051199	.0021132	.0017268	.0010730
%RSD	2.744454	1.149975	1.398022	13.29768	9.395021	5.245105
#1	.0399143	.0398825	.3628640	.0137687	.0174035	.0199262
#2	.0389646	.0390625	.3636948	.0179950	.0173627	.0197543
#3	.0411544	.0398151	.3721181	.0159112	.0203738	.0216928

Elem	Sr4077
Units	ppm
Avg	.0194576
Stddev	.0000188
%RSD	.0966164
#1	.0194764
#2	.0194576
#3	.0194388

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3493.045	77787.39	15267.76	2233.838	5011.215
Stddev	2.345	109.63	57.52	9.018	8.023
%RSD	.0671294	.1409300	.3767698	.4036976	.1601054
#1	3490.338	77710.28	15232.73	2223.573	5003.165
#2	3494.333	77739.01	15334.15	2237.459	5019.211
#3	3494.463	77912.89	15236.40	2240.483	5011.269

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: ICSA01 Acquired: 3/13/2025 12:25:58 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043191**	**.0092274**	**.0047161**	**-.015246**	**-.002752**	**255.9178**
Stddev	.0032143	.0026089	.0002738	.002611	.000723	1.0710
%RSD	74.42085	28.27313	5.806221	17.12529	26.26053	.4184876
#1	.0028472	.0110850	.0045925	-.018105	-.002815	256.1936
#2	.0021043	.0103524	.0045258	-.012987	-.002000	254.7359
#3	.0080058	.0062448	.0050299	-.014645	-.003441	256.8240

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0047186**	**.0012606**	**-.003111**	**242.3184**	**.0599869**	**.0015877**
Stddev	.0000880	.0000419	.000049	1.1014	.0003133	.0005026
%RSD	1.865651	3.322887	1.589569	.4545303	.5222672	31.65507
#1	.0046698	.0013061	-.003168	241.4612	.0603008	.0017264
#2	.0048202	.0012236	-.003086	241.9334	.0596742	.0020064
#3	.0046657	.0012521	-.003079	243.5606	.0599858	.0010304

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0103832**	**103.0858**	**.0037665**	**262.3130**	**.0019277**	**-.000883**
Stddev	.0007069	.1753	.0002235	1.3822	.0004305	.000287
%RSD	6.807892	.1700588	5.932679	.5269276	22.33302	32.49798
#1	.0095984	103.2143	.0037073	261.5846	.0024230	-.001029
#2	.0105814	103.1571	.0035786	261.4474	.0016430	-.000553
#3	.0109698	102.8861	.0040136	263.9071	.0017172	-.001068

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0812520**	**.0034870**	**.0046492**	**.1116055**	F **-.128877**	**.0000384**
Stddev	.0127403	.0005941	.0006247	.0357706	.002924	.0003430
%RSD	15.68003	17.03731	13.43665	32.05097	2.269017	892.0976
#1	.0667752	.0030843	.0053229	.0850475	-.127142	.0004277
#2	.0907561	.0032075	.0040892	.1522805	-.127236	-.000219
#3	.0862246	.0041693	.0045353	.0974885	-.132253	-.000093

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: ICSA01 Acquired: 3/13/2025 12:25:58 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003906	-.001020	.0216826	-.001555	-.009528	.0055634
Stddev	.000774	.000215	.0043397	.003299	.006168	.0002879
%RSD	19.81586	21.04609	20.01459	212.1479	64.73530	5.175402
#1	-.003015	-.000957	.0192414	-.004194	-.002756	.0058717
#2	-.004409	-.001259	.0191133	-.002615	-.014823	.0055172
#3	-.004295	-.000844	.0266931	.002144	-.011004	.0053014

Elem	Sr4077
Units	ppm
Avg	F .0985894
Stddev	.0004192
%RSD	.4251899
#1	.0982562
#2	.0984519
#3	.0990601

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3146.437	68248.75	14841.43	2008.065	4040.348
Stddev	2.410	91.17	75.62	3.827	6.699
%RSD	.0766011	.1335777	.5095368	.1905819	.1657906
#1	3147.957	68143.86	14892.93	2009.079	4047.972
#2	3147.697	68293.48	14876.75	2003.833	4035.405
#3	3143.658	68308.90	14754.61	2011.282	4037.668

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: ICSAB01 Acquired: 3/13/2025 12:30:22 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1131477**	**.1069166**	**.0541647**	**.0429599**	**.6104071**	**240.4082**
Stddev	.0017683	.0013837	.0003964	.0030794	.0021878	1.9793
%RSD	1.562820	1.294163	.7318334	7.168038	.3584176	.8232915
#1	.1145663	.1054132	.0543054	.0394247	.6078840	242.6781
#2	.1137103	.1072002	.0537172	.0443967	.6115598	239.0428
#3	.1111666	.1081366	.0544716	.0450582	.6117776	239.5036

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4849569**	**.4908953**	**1.002948**	**231.1152**	**.5640676**	**.5084867**
Stddev	.0020811	.0024778	.002420	1.2219	.0014895	.0014464
%RSD	.4291335	.5047595	.2412904	.5287102	.2640579	.2844585
#1	.4867010	.4937339	1.000467	232.5006	.5629073	.5068212
#2	.4855166	.4891657	1.003076	230.6542	.5657472	.5092106
#3	.4826532	.4897863	1.005302	230.1908	.5635482	.5094282

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5037197**	**100.4457**	**.4758053**	**248.9152**	**1.005905**	**.2183363**
Stddev	.0013971	.4143	.0028112	1.3351	.002991	.0008128
%RSD	.2773634	.4124413	.5908285	.5363652	.2973541	.3722694
#1	.5021167	100.3118	.4781586	250.4568	1.002529	.2175780
#2	.5043638	100.9104	.4765650	248.1342	1.006962	.2191944
#3	.5046785	100.1150	.4726923	248.1547	1.008225	.2182364

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0936484**	**.4696274**	**1.047119**	**.0789780**	**.8695390**	**1.068719**
Stddev	.0237110	.0030323	.004030	.0118902	.0035339	.001219
%RSD	25.31917	.6456783	.3848444	15.05507	.4064105	.1140540
#1	.0800141	.4729426	1.050028	.0874868	.8731053	1.067571
#2	.1210274	.4669941	1.042519	.0840551	.8660384	1.069998
#3	.0799037	.4689454	1.048809	.0653921	.8694732	1.068588

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: ICSAB01 Acquired: 3/13/2025 12:30:22 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.088035	1.010617	.9838758	F 10.37073	F 10.59370	F 9.806880
Stddev	.002604	.005677	.0043700	.02176	.00948	.060009
%RSD	.2392886	.5617337	.4441635	.2098084	.0895202	.6119101
#1	1.089235	1.016044	.9883253	10.34562	10.59769	9.852287
#2	1.089822	1.011087	.9837122	10.38406	10.60054	9.829506
#3	1.085048	1.004720	.9795898	10.38252	10.58288	9.738847

Elem	Sr4077
Units	ppm
Avg	F 9.185808
Stddev	.063531
%RSD	.6916244
#1	9.179081
#2	9.125908
#3	9.252435

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3092.634	68363.42	15236.19	2015.378	3970.825
Stddev	5.747	113.41	80.08	6.216	6.279
%RSD	.1858201	.1658891	.5256156	.3084520	.1581217
#1	3098.598	68488.52	15145.53	2018.965	3977.926
#2	3092.171	68267.36	15297.30	2018.969	3968.539
#3	3087.133	68334.39	15265.74	2008.200	3966.009

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: ICSADLX20 Acquired: 3/13/2025 12:34:40 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001301**	**.0010719**	**.0000700**	**.0021077**	**-.000424**	**12.50627**	**-.000428**
Stddev	.000873	.0005251	.0003773	.0026735	.000660	.00964	.000525
%RSD	67.06615	48.98561	538.7816	126.8416	155.8942	.0771101	122.7019
#1	-.002116	.0009952	.0000549	.0004706	.000318	12.51734	.000175
#2	-.001406	.0005894	-.000300	.0051928	-.000639	12.50177	-.000676
#3	-.000381	.0016311	.000455	.0006597	-.000949	12.49971	-.000784

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000709**	**-.000101**	**12.26734**	**.0026626**	**.0002647**	**.0002560**	**4.604028**
Stddev	.0000244	.000015	.04848	.0000923	.0000791	.0002120	.014562
%RSD	34.36048	14.57521	.3952023	3.465430	29.90373	82.81687	.3162843
#1	.0000728	-.000102	12.31552	.0026755	.0002031	.0003895	4.616648
#2	.0000456	-.000114	12.26795	.0025646	.0002370	.0003669	4.588095
#3	.0000943	-.000085	12.21856	.0027478	.0003539	.0000115	4.607340

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000365**	**12.84154**	**.0001134**	**.0002111**	**.0041553**	**-.000592**	**-.000490**
Stddev	.000246	.00931	.0003747	.0004530	.0222161	.001223	.000204
%RSD	67.37318	.0724820	330.3494	214.5764	534.6389	206.5251	41.54907
#1	-.000084	12.84894	.0005400	-.000266	-.006240	-.000880	-.000278
#2	-.000470	12.83109	-.000037	.000635	-.010957	.000749	-.000684
#3	-.000541	12.84459	-.000163	.000265	.029663	-.001646	-.000508

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0058223**	**-.009213**	**.0000062**	**-.001406**	**.0003266**	**.0007294**	**-.003690**
Stddev	.0154494	.000650	.0002523	.000749	.0009521	.0012894	.000567
%RSD	265.3511	7.051829	4053.066	53.26347	291.4941	176.7806	15.36038
#1	-.009528	-.008469	.0000724	-.002270	-.000630	.0010234	-.003227
#2	.005626	-.009667	.0002188	-.000970	.000335	-.000682	-.003522
#3	.021369	-.009502	-.000273	-.000976	.001275	.001846	-.004322

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: ICSADLX20 Acquired: 3/13/2025 12:34:40 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002820	.0014477	.0048208
Stddev	.000880	.0008391	.0000408
%RSD	31.20405	57.96113	.8453568
#1	-.003356	.0014061	.0048296
#2	-.001804	.0006302	.0048565
#3	-.003300	.0023068	.0047764

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3490.599	78594.99	14550.86	2256.867	4909.572
Stddev	13.101	277.60	19.46	6.481	16.055
%RSD	.3753130	.3532056	.1337374	.2871514	.3270067
#1	3489.327	78627.61	14554.54	2261.348	4913.277
#2	3504.290	78854.85	14568.22	2259.816	4923.450
#3	3478.181	78302.53	14529.83	2249.436	4891.989

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: ICSABDLX20 Acquired: 3/13/2025 12:38:56 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054837	.0062559	.0027619	.0054511	.0313760	12.88174	.0255975
Stddev	.0006390	.0007697	.0005939	.0005579	.0006464	.01404	.0010747
%RSD	11.65323	12.30312	21.50229	10.23409	2.060291	.1090106	4.198607
#1	.0056806	.0057290	.0031141	.0052298	.0321208	12.87154	.0248271
#2	.0060010	.0071391	.0020762	.0050379	.0309612	12.87593	.0251401
#3	.0047694	.0058995	.0030952	.0060857	.0310459	12.89776	.0268253

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0282476	.0524851	12.71507	.0315623	.0261492	.0284393	5.046730
Stddev	.0001554	.0003021	.04016	.0002142	.0000375	.0001753	.009059
%RSD	.5500239	.5756223	.3158710	.6785631	.1432409	.6165286	.1795090
#1	.0282030	.0522378	12.70196	.0316477	.0261725	.0282507	5.036398
#2	.0281194	.0523957	12.68310	.0313186	.0261060	.0284699	5.050478
#3	.0284204	.0528218	12.76015	.0317206	.0261692	.0285974	5.053314

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0255567	13.21483	.0525936	.0117177	.0250943	.0257439	.0554142
Stddev	.0001210	.08392	.0002770	.0000462	.0096312	.0020309	.0005795
%RSD	.4734889	.6350077	.5267474	.3942928	38.38003	7.888751	1.045797
#1	.0256882	13.21852	.0524924	.0116861	.0192240	.0238980	.0547451
#2	.0255321	13.12914	.0523814	.0117707	.0198493	.0279194	.0557385
#3	.0254499	13.29685	.0529070	.0116962	.0362096	.0254144	.0557588

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121306	.0487079	.0585736	.0559624	.0560987	.0520832	-.004820
Stddev	.0343922	.0005101	.0002947	.0008596	.0006986	.0049713	.001244
%RSD	283.5161	1.047286	.5032186	1.536023	1.245368	9.544912	25.81278
#1	.0375969	.0489100	.0584926	.0552269	.0562052	.0506462	-.006152
#2	.0257874	.0481277	.0583278	.0557529	.0553529	.0479887	-.003689
#3	-.026992	.0490860	.0589004	.0569074	.0567380	.0576147	-.004619

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: ICSABDLX20 Acquired: 3/13/2025 12:38:56 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000568	.0006648	.0050006
Stddev	.001425	.0001634	.0000175
%RSD	250.9729	24.57701	.3504821
#1	.000084	.0005942	.0049945
#2	-.002202	.0005486	.0049869
#3	.000415	.0008517	.0050203

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3461.425	74923.30	14782.78	2185.858	4869.774
Stddev	8.021	64.85	18.58	7.521	17.440
%RSD	.2317244	.0865607	.1257165	.3440791	.3581363
#1	3467.124	74981.04	14777.88	2194.508	4883.851
#2	3464.898	74853.14	14803.32	2180.866	4875.208
#3	3452.253	74935.74	14767.13	2182.199	4850.264

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV01 Acquired: 3/13/2025 12:53:26 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.158631**	**5.104539**	**5.192543**	**5.067368**	**5.055720**	**10.26613**	**9.861959**
Stddev	.031720	.041858	.010813	.018813	.018132	.00918	.141106
%RSD	.6149003	.8200141	.2082393	.3712643	.3586492	.0894629	1.430806
#1	5.158688	5.147777	5.182641	5.067201	5.046514	10.26916	10.01796
#2	5.126882	5.064213	5.190906	5.048638	5.044038	10.25582	9.82470
#3	5.190323	5.101627	5.204081	5.086263	5.076608	10.27342	9.74322

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2736909**	**2.567739**	**25.45599**	**1.049302**	**2.555001**	**1.283313**	**4.894597**
Stddev	.0022023	.005441	.06450	.004224	.004205	.005376	.030686
%RSD	.8046569	.2118889	.2533867	.4025647	.1645636	.4188954	.6269295
#1	.2758250	2.563836	25.52483	1.044433	2.551228	1.282797	4.860760
#2	.2738214	2.565427	25.44620	1.051980	2.554241	1.278213	4.902412
#3	.2714263	2.573954	25.39695	1.051495	2.559534	1.288927	4.920620

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.533204**	**25.69180**	**2.557642**	**1.295268**	**24.00098**	**2.547808**	**2.596435**
Stddev	.003387	.08549	.006109	.002522	.26585	.005125	.009996
%RSD	.1336899	.3327523	.2388683	.1946724	1.107644	.2011376	.3849900
#1	2.536538	25.75849	2.552663	1.293080	23.86444	2.553725	2.584912
#2	2.529767	25.72149	2.555802	1.294699	23.83115	2.544892	2.602770
#3	2.533307	25.59543	2.564459	1.298026	24.30735	2.544806	2.601624

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.92823**	**5.426926**	**5.117513**	**5.148932**	**5.003388**	**4.992882**	**5.209350**
Stddev	.27343	.054191	.015008	.010290	.008718	.032646	.024400
%RSD	1.142730	.9985609	.2932585	.1998465	.1742505	.6538578	.4683872
#1	23.67957	5.484535	5.115103	5.147252	5.013364	4.958813	5.215064
#2	23.88407	5.419278	5.103855	5.139585	4.999572	4.995942	5.182600
#3	24.22106	5.376965	5.133579	5.159958	4.997229	5.023891	5.230385

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV01 Acquired: 3/13/2025 12:53:26 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.037267	4.969641	5.020896
Stddev	.011414	.009119	.016251
%RSD	.2265906	.1834960	.3236644
#1	5.040780	4.974334	5.037071
#2	5.024509	4.959131	5.004570
#3	5.046511	4.975457	5.021046

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3391.254	73690.80	14067.45	2158.217	4539.866
Stddev	4.817	362.79	71.19	14.473	3.956
%RSD	.1420473	.4923073	.5060815	.6706014	.0871332
#1	3386.689	74061.56	13994.01	2174.705	4535.300
#2	3396.289	73674.28	14072.19	2152.336	4542.269
#3	3390.784	73336.56	14136.16	2147.611	4542.029

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB01 Acquired: 3/13/2025 12:58:02 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002387**	**.0010977**	**.0004597**	**.0021695**	**.0006425**	**-.006921**	**.0003490**
Stddev	.002634	.0007532	.0009438	.0027988	.0004202	.003487	.0006989
%RSD	110.3475	68.61981	205.2970	129.0064	65.39873	50.38731	200.2563
#1	-.000440	.0012934	.0002170	.0002679	.0006682	-.003514	-.000356
#2	-.005384	.0017337	-.000339	.0053832	.0010492	-.010483	.001042
#3	-.001337	.0002659	.001501	.0008573	.0002100	-.006766	.000361

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000054**	**-.000002**	**-.012236**	**.0003246**	**.0001148**	**.0000355**	**.0018518**
Stddev	.000028	.000041	.002315	.0001669	.0000755	.0001259	.0010769
%RSD	52.52552	1833.101	18.91785	51.41510	65.72702	353.9966	58.15245
#1	-.000026	.000035	-.009658	.0004697	.0000760	-.000048	.0010685
#2	-.000083	-.000046	-.014136	.0003618	.0000666	.000180	.0030799
#3	-.000053	.000004	-.012912	.0001422	.0002018	-.000026	.0014071

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000597**	**-.009727**	**.0000693**	**.0001260**	**.0129714**	**.0010015**	**-.000644**
Stddev	.000246	.008047	.0002227	.0001247	.0163551	.0012492	.000157
%RSD	41.13439	82.72277	321.2428	98.97174	126.0857	124.7235	24.40945
#1	-.000870	-.004231	.0001728	.0000670	.0007951	.0024266	-.000772
#2	-.000525	-.018964	.0002216	.0000417	.0065579	.0004824	-.000692
#3	-.000395	-.005987	-.000186	.0002692	.0315612	.0000957	-.000469

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.026845**	**.0064743**	**.0002276**	**-.000597**	**.0009144**	**.0065644**	**-.005550**
Stddev	.016867	.0009511	.0001302	.000106	.0011743	.0027744	.000951
%RSD	62.82964	14.69111	57.20689	17.66870	128.4210	42.26534	17.13651
#1	-.028246	.0074369	.0003728	-.000719	.0018842	.0035349	-.006639
#2	-.042968	.0055350	.0001211	-.000545	-.000391	.0089814	-.004881
#3	-.009322	.0064509	.0001890	-.000528	.001250	.0071768	-.005130

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB01 Acquired: 3/13/2025 12:58:02 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**-.001048**	**.0009422**	**-.000047**
Stddev	.003835	.0006982	.000006
%RSD	365.7758	74.10638	13.21865
#1	-.000354	.0003295	-.000051
#2	.002392	.0017024	-.000040
#3	-.005183	.0007948	-.000050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3473.782**	**77092.51**	**14926.39**	**2235.288**	**5055.090**
Stddev	4.752	315.59	103.17	3.922	12.291
%RSD	.1367904	.4093631	.6912249	.1754671	.2431440
#1	3470.997	76808.51	14885.10	2230.789	5050.142
#2	3479.269	77036.77	14850.24	2237.086	5069.084
#3	3471.082	77432.26	15043.81	2237.989	5046.044

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB166963BL Acquired: 3/13/2025 13:02:22 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001712**	**-.001582**	**.0010024**	**.0034584**	**.0011461**	**-.006177**	**.0001657**
Stddev	.001823	.001105	.0007616	.0009622	.0006692	.006834	.0009626
%RSD	106.4948	69.85166	75.97014	27.82072	58.38920	110.6289	580.8715
#1	-.001867	-.001609	.0003377	.0035662	.0017899	-.000227	-.000430
#2	.000184	-.000464	.0018334	.0043621	.0004541	-.004663	.001276
#3	-.003453	-.002673	.0008362	.0024469	.0011943	-.013640	-.000349

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000007**	**.0000286**	**-.009708**	**.0000395**	**.0000093**	**-.000175**	**.0025975**
Stddev	.000005	.0000066	.005527	.0002419	.0001754	.000137	.0020220
%RSD	68.22822	23.10413	56.93001	612.1016	1882.601	78.09927	77.84359
#1	-.000002	.0000319	-.012828	-.000004	.0001713	-.000018	.0044888
#2	-.000007	.0000210	-.003327	-.000177	.0000336	-.000266	.0028375
#3	-.000012	.0000329	-.012970	.000300	-.000177	-.000241	.0004662

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000664**	**.0005399**	**-.000248**	**.0002709**	**-.002837**	**.0002537**	**-.000858**
Stddev	.000172	.0099706	.000141	.0001489	.004462	.0007522	.000314
%RSD	25.89905	1846.799	56.79224	54.95437	157.2531	296.4656	36.54158
#1	-.000765	.0109728	-.000379	.0002114	-.007334	-.000567	-.001093
#2	-.000465	-.008893	-.000266	.0004403	-.002768	.000418	-.000979
#3	-.000761	-.000460	-.000099	.0001610	.001589	.000910	-.000502

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.012438**	**.0013039**	**-.000084**	**-.001209**	**.0009564**	**.0013470**	**-.005708**
Stddev	.016013	.0002088	.000242	.000385	.0006682	.0057961	.002626
%RSD	128.7392	16.01630	287.4437	31.82478	69.86735	430.3045	46.01036
#1	-.029900	.0011323	-.000210	-.000783	.0007649	-.004023	-.002678
#2	.001558	.0012429	.000195	-.001532	.0004048	.000572	-.007335
#3	-.008973	.0015364	-.000238	-.001310	.0016994	.007492	-.007110

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB166963BL Acquired: 3/13/2025 13:02:22 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001600	.0013711	.0000031
Stddev	.004471	.0022777	.0000428
%RSD	279.3829	166.1250	1387.339
#1	-.004607	.0001086	.0000134
#2	.003537	.0000042	.0000398
#3	-.003731	.0040005	-.000044

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3466.354	76993.14	14829.64	2217.137	5062.884
Stddev	7.308	109.97	75.90	11.537	12.224
%RSD	.2108343	.1428287	.5118090	.5203443	.2414480
#1	3463.376	76883.06	14911.50	2227.711	5058.307
#2	3474.681	77103.00	14761.61	2218.866	5076.736
#3	3461.006	76993.38	14815.80	2204.833	5053.609

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB166963BS Acquired: 3/13/2025 13:06:42 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7921126	1.969061	.9809113	1.970539	.7965106	1.948118
Stddev	.0026696	.015587	.0025661	.013113	.0034586	.006647
%RSD	.3370280	.7916054	.2616041	.6654438	.4342174	.3412043
#1	.7890473	1.970557	.9795774	1.960771	.7964753	1.940482
#2	.7933620	1.983847	.9792869	1.965404	.7930698	1.952602
#3	.7939284	1.952780	.9838697	1.985442	.7999867	1.951272

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1825339	.2065478	.1938344	1.000317	.4169650	.1947180
Stddev	.0005647	.0007741	.0004803	.002884	.0004448	.0009376
%RSD	.3093849	.3747919	.2477728	.2883206	.1066808	.4815358
#1	.1822806	.2059356	.1933046	.997107	.4164938	.1938449
#2	.1821402	.2074179	.1939577	1.001156	.4170236	.1946003
#3	.1831810	.2062898	.1942411	1.002689	.4173776	.1957090

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3093994	2.846777	.1945305	1.922776	.4891141	.0762624
Stddev	.0009825	.007889	.0000454	.037173	.0005708	.0001133
%RSD	.3175550	.2771334	.0233157	1.933323	.1167085	.1485032
#1	.3087115	2.837693	.1944782	1.885348	.4884787	.0763162
#2	.3089622	2.851908	.1945582	1.959690	.4892797	.0761323
#3	.3105247	2.850731	.1945552	1.923290	.4895837	.0763388

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.650329	.2892281	.2039316	8.997270	.3004789	.3995987
Stddev	.017570	.0012122	.0006808	.039344	.0026822	.0010639
%RSD	.6629288	.4191029	.3338545	.4372828	.8926560	.2662512
#1	2.656570	.2883203	.2033298	9.030533	.2976240	.3985228
#2	2.663926	.2906046	.2037944	8.953841	.3029463	.3996229
#3	2.630491	.2887593	.2046706	9.007435	.3008662	.4006502

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB166963BS Acquired: 3/13/2025 13:06:42 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6916779	.1890023	.7540904	5.720030	F -.012654	.1955976
Stddev	.0018681	.0003290	.0054837	.031233	.003838	.0006232
%RSD	.2700851	.1740862	.7271992	.5460200	30.32734	.3185940
#1	.6895357	.1892369	.7548939	5.684085	-.014111	.1957643
#2	.6929681	.1891439	.7482493	5.735458	-.008301	.1961204
#3	.6925300	.1886262	.7591281	5.740546	-.015550	.1949080

Elem	Sr4077
Units	ppm
Avg	.1880190
Stddev	.0002544
%RSD	.1353232
#1	.1879573
#2	.1882987
#3	.1878012

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3405.691	74839.64	14523.99	2176.320	4822.206
Stddev	9.011	159.18	68.28	5.925	8.024
%RSD	.2645934	.2126964	.4701243	.2722591	.1663953
#1	3410.329	74843.18	14600.01	2170.563	4830.155
#2	3411.438	74997.02	14467.87	2182.400	4822.355
#3	3395.305	74678.71	14504.09	2175.997	4814.109

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB167116BL Acquired: 3/13/2025 13:10:45 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002142**	**.0014913**	**.0005472**	**.0003853**	**-.000543**	**-.007975**	**.0001468**
Stddev	.0001999	.0004153	.0006019	.0013655	.001148	.003064	.0013634
%RSD	93.30984	27.84641	110.0055	354.3750	211.6487	38.42426	928.7570
#1	.0000388	.0010566	.0009856	.0019618	-.001132	-.005067	-.000284
#2	.0001721	.0018840	.0007951	-.000432	-.001277	-.007682	-.000949
#3	.0004318	.0015334	-.000139	-.000374	.000781	-.011175	.001674

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000046**	**.0000088**	**-.009680**	**.0001126**	**-.000061**	**-.000228**	**.0033716**
Stddev	.000019	.0000963	.002891	.0001004	.000137	.000392	.0013297
%RSD	41.24050	1092.928	29.87124	89.16472	224.4135	172.0781	39.43881
#1	-.000064	-.000023	-.012190	.0001585	-.000044	-.000547	.0024652
#2	-.000026	-.000067	-.006518	-.000003	-.000206	-.000345	.0027516
#3	-.000049	.000117	-.010331	.000182	.000067	.000209	.0048981

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000936**	**-.010328**	**-.000248**	**.0003078**	**-.013391**	**.0006476**	**-.000646**
Stddev	.000042	.003748	.000113	.0002161	.020717	.0007566	.000169
%RSD	4.481840	36.28947	45.67705	70.22708	154.7034	116.8193	26.16069
#1	-.000888	-.010830	-.000182	.0005498	-.017552	.0015212	-.000835
#2	-.000965	-.006354	-.000378	.0001342	.009090	.0002122	-.000510
#3	-.000955	-.013799	-.000183	.0002393	-.031712	.0002095	-.000594

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.024454**	**-.000590**	**.0000682**	**-.001586**	**.0007183**	**-.000249**	**-.003645**
Stddev	.029584	.000888	.0002666	.000159	.0002105	.002249	.001860
%RSD	120.9794	150.5813	390.8641	10.02288	29.30772	904.4804	51.01698
#1	-.046445	.000424	.0001312	-.001514	.0009525	-.000940	-.005791
#2	-.036096	-.000965	-.000224	-.001475	.0006574	.002265	-.002512
#3	.009180	-.001229	.000298	-.001768	.0005449	-.002071	-.002632

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB167116BL Acquired: 3/13/2025 13:10:45 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.002566	.0002740	-.000081
Stddev	.003082	.0013987	.000051
%RSD	120.0979	510.5599	62.52166
#1	-.002011	.0018040	-.000029
#2	.000200	-.000043	-.000083
#3	-.005887	-.000939	-.000131

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3451.339	75909.53	14649.14	2200.578	5017.315
Stddev	6.375	50.04	42.10	2.333	4.277
%RSD	.1847030	.0659172	.2873999	.1060160	.0852413
#1	3444.079	75900.01	14639.88	2199.333	5015.416
#2	3456.022	75963.65	14612.44	2203.269	5022.213
#3	3453.916	75864.94	14695.10	2199.132	5014.317

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB167116BS Acquired: 3/13/2025 13:15:05 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7763336**	**1.931329**	**.9760031**	**1.934955**	**.7832455**	**1.934104**
Stddev	.0069003	.030623	.0085279	.016944	.0078606	.005281
%RSD	.8888254	1.585609	.8737617	.8756799	1.003592	.2730699
#1	.7822794	1.964817	.9792837	1.950571	.7889063	1.929955
#2	.7779540	1.924415	.9824036	1.937357	.7865597	1.940050
#3	.7687673	1.904753	.9663220	1.916939	.7742706	1.932309

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1868897**	**.2113398**	**.1934623**	**1.012279**	**.4099599**	**.1957618**
Stddev	.0007012	.0011864	.0015773	.005064	.0013474	.0017346
%RSD	.3751890	.5613902	.8152971	.5002996	.3286681	.8861017
#1	.1861191	.2123954	.1942001	1.018033	.4086537	.1970611
#2	.1874900	.2115682	.1945355	1.010307	.4113450	.1964324
#3	.1870602	.2100557	.1916513	1.008497	.4098810	.1937920

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3084685**	**2.839241**	**.1982833**	**1.974992**	**.4909100**	**.0756317**
Stddev	.0026279	.026074	.0012919	.008780	.0033050	.0001495
%RSD	.8519072	.9183485	.6515501	.4445790	.6732312	.1976142
#1	.3099731	2.811977	.1987715	1.982182	.4927762	.0757399
#2	.3099982	2.841812	.1992600	1.977587	.4928598	.0756941
#3	.3054341	2.863935	.1968185	1.965206	.4870941	.0754612

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.607017**	**.2918619**	**.2032027**	**8.887492**	**.3018061**	**.3976011**
Stddev	.032930	.0036220	.0014751	.067586	.0018242	.0038082
%RSD	1.263130	1.240980	.7259030	.7604658	.6044332	.9577918
#1	2.579722	.2938529	.2019389	8.811863	.3034408	.4004217
#2	2.643591	.2940516	.2028459	8.941982	.3021392	.3991123
#3	2.597738	.2876812	.2048235	8.908632	.2998383	.3932693

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB167116BS Acquired: 3/13/2025 13:15:05 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6854460	.1901120	F .7412375	5.778518	F -.009201	.1964216
Stddev	.0050106	.0008056	.0032635	.048570	.003049	.0007864
%RSD	.7310048	.4237768	.4402810	.8405227	33.14184	.4003759
#1	.6890052	.1909172	.7380910	5.816784	-.011919	.1973286
#2	.6876168	.1893059	.7410150	5.794892	-.009778	.1960074
#3	.6797160	.1901130	.7446067	5.723877	-.005904	.1959290

Elem	Sr4077
Units	ppm
Avg	.1902430
Stddev	.0004200
%RSD	.2207787
#1	.1899958
#2	.1907280
#3	.1900052

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3437.901	75522.52	14365.63	2221.641	4834.485
Stddev	22.071	243.16	60.62	11.315	33.705
%RSD	.6419937	.3219680	.4219831	.5093085	.6971729
#1	3424.982	75742.58	14296.86	2222.371	4819.905
#2	3425.336	75563.52	14388.74	2232.573	4810.526
#3	3463.386	75261.48	14411.30	2209.978	4873.026

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1485-01 Acquired: 3/13/2025 13:19:07 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0909458	.0008562	2.349975	-.048201	.0269262	156.6956	1.455567
Stddev	.0027791	.0013724	.007788	.000280	.0021158	.6281	.009595
%RSD	3.055821	160.2870	.3314011	.5812171	7.857744	.4008154	.6591615
#1	.0934148	.0019473	2.344149	-.047912	.0270594	155.9986	1.444834
#2	.0879360	.0013058	2.346956	-.048222	.0289722	157.2176	1.463311
#3	.0914865	-.000685	2.358821	-.048471	.0247470	156.8707	1.458556

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138228	-.006404	42.32541	.3444296	.1709163	1.988846	374.8592
Stddev	.0001344	.000442	.23004	.0014296	.0005294	.005039	1.1969
%RSD	.9721695	6.908085	.5435130	.4150727	.3097621	.2533883	.3192957
#1	.0137123	-.006582	42.07224	.3444477	.1710745	1.985771	373.7856
#2	.0137837	-.006730	42.52163	.3458501	.1703259	1.986104	376.1497
#3	.0139724	-.005901	42.38236	.3429910	.1713487	1.994662	374.6424

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.235210	60.25125	.3755786	.0001535	6.564483	.4661876	1.129998
Stddev	.032216	.21477	.0014777	.0002956	.076419	.0033489	.003456
%RSD	.6153674	.3564609	.3934421	192.5459	1.164124	.7183552	.3058198
#1	5.198754	60.02660	.3745626	.0003767	6.477874	.4630382	1.128171
#2	5.259848	60.45455	.3748993	.0002657	6.622414	.4658191	1.133984
#3	5.247027	60.27259	.3772737	-.000182	6.593161	.4697055	1.127839

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.72894	-.470105	.0097158	.2097751	9.128929	9.968094	9.449659
Stddev	.09339	.002673	.0001528	.0010793	.045260	.022120	.042295
%RSD	.2350664	.5686373	1.572761	.5145124	.4957824	.2219064	.4475818
#1	39.63351	-.469717	.0095519	.2089196	9.077189	9.954321	9.436023
#2	39.82014	-.467647	.0097412	.2094181	9.161176	9.993608	9.415863
#3	39.73318	-.472951	.0098543	.2109877	9.148421	9.956351	9.497089

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1485-01 Acquired: 3/13/2025 13:19:07 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.929316	.3951664	.2997319
Stddev	.013736	.0029759	.0017655
%RSD	.3495816	.7530656	.5890320
#1	3.931916	.3921576	.2977356
#2	3.914465	.3981082	.3010880
#3	3.941566	.3952335	.3003721

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3735.882	81810.87	17237.88	2413.468	4244.313
Stddev	6.404	161.23	55.62	8.876	10.852
%RSD	.1714283	.1970774	.3226798	.3677831	.2556889
#1	3740.323	81798.32	17298.51	2419.235	4251.312
#2	3738.783	81656.28	17189.20	2403.247	4249.815
#3	3728.541	81978.01	17225.94	2417.922	4231.812

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1486-01 Acquired: 3/13/2025 13:23:10 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0173818**	**-.015108**	**.5613788**	**-.031977**	**-.005601**	**158.5940**
Stddev	.0024189	.002378	.0073493	.000591	.001342	.1336
%RSD	13.91603	15.73726	1.309153	1.848349	23.96056	.0842241
#1	.0162420	-.012438	.5655429	-.031388	-.004079	158.5615
#2	.0157434	-.016997	.5657005	-.031974	-.006615	158.4796
#3	.0201600	-.015888	.5528931	-.032570	-.006109	158.7408

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8606767**	**.0087655**	**-.000478**	**178.7995**	**.2915288**	**.1195694**
Stddev	.0025025	.0000632	.000187	.4242	.0002510	.0010006
%RSD	.2907586	.7206103	39.03415	.2372389	.0860813	.8367994
#1	.8579598	.0088021	-.000296	178.9007	.2913007	.1202727
#2	.8611830	.0088019	-.000469	178.3338	.2914880	.1200115
#3	.8628874	.0086926	-.000669	179.1639	.2917976	.1184239

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1961657**	**226.2085**	**4.074142**	**67.43873**	**.1819835**	**-.000291**
Stddev	.0018551	1.2976	.014183	.29231	.0017487	.000417
%RSD	.9456653	.5736510	.3481184	.4334425	.9609331	143.0594
#1	.1971156	225.3160	4.068221	67.67573	.1821961	.000105
#2	.1973535	227.6971	4.063879	67.11210	.1836163	-.000253
#3	.1940281	225.6124	4.090326	67.52836	.1801382	-.000726

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.884177**	**.3782766**	**.8079568**	**58.73227**	**-.343865**	**.0114652**
Stddev	.061824	.0009704	.0015384	.39748	.008762	.0004980
%RSD	1.050682	.2565386	.1904117	.6767645	2.547954	4.343183
#1	5.833745	.3793640	.8078523	58.47349	-.351063	.0111139
#2	5.953150	.3779671	.8095448	59.18993	-.334109	.0120350
#3	5.865637	.3774987	.8064733	58.53338	-.346422	.0112465

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1486-01 Acquired: 3/13/2025 13:23:10 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0181501	F 10.62970	F 11.18605	F 16.78013	4.104803	.4562834
Stddev	.0018706	.01055	.07132	.13160	.045671	.0019512
%RSD	10.30654	.0992166	.6375702	.7842815	1.112629	.4276225
#1	.0167466	10.62214	11.15540	16.84408	4.109523	.4543510
#2	.0174298	10.62522	11.26757	16.86754	4.147931	.4582528
#3	.0202738	10.64175	11.13518	16.62877	4.056955	.4562465

Elem	Sr4077
Units	ppm
Avg	.6911591
Stddev	.0012038
%RSD	.1741682
#1	.6898111
#2	.6915394
#3	.6921268

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3650.868	81071.06	16873.78	2347.680	4031.682
Stddev	17.392	236.82	84.23	19.974	29.502
%RSD	.4763806	.2921118	.4991573	.8508126	.7317560
#1	3641.081	81157.80	16838.81	2349.360	4016.855
#2	3640.575	80803.10	16969.86	2326.918	4012.535
#3	3670.949	81252.27	16812.67	2366.761	4065.657

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1487-01 Acquired: 3/13/2025 13:27:13 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0207536**	**-.012321**	**.3078575**	**-.068485**	**-.012291**	**230.1496**
Stddev	.0032910	.001298	.0021985	.002526	.003914	.0472
%RSD	15.85773	10.53285	.7141226	3.688482	31.84290	.0205023
#1	.0209448	-.013819	.3102809	-.070350	-.007891	230.1648
#2	.0239448	-.011564	.3059910	-.069495	-.015384	230.0966
#3	.0173711	-.011580	.3073007	-.065610	-.013598	230.1872

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.094332**	**.0148888**	**-.006765**	**39.56127**	**.5593714**	**.2601048**
Stddev	.004500	.0000391	.000860	.08157	.0020193	.0004353
%RSD	.2148611	.2627001	12.71940	.2061990	.3609872	.1673698
#1	2.093378	.0149281	-.007594	39.58562	.5599166	.2600839
#2	2.090385	.0148499	-.005876	39.47030	.5610621	.2596803
#3	2.099232	.0148883	-.006823	39.62790	.5571355	.2605502

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5642314**	**431.5491**	**4.698600**	**119.5928**	**.5317387**	**-.001116**
Stddev	.0013183	3.4905	.005274	.2913	.0011341	.000335
%RSD	.2336411	.8088391	.1122565	.2435908	.2132839	29.99359
#1	.5650392	433.7299	4.699480	119.4707	.5329593	-.001138
#2	.5649448	427.5233	4.692940	119.3824	.5307176	-.001439
#3	.5627101	433.3942	4.703379	119.9253	.5315391	-.000771

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.197185**	**.5504162**	**1.340682**	**121.1435**	**-.709830**	**.0030522**
Stddev	.013603	.0021379	.007441	.3602	.018956	.0003397
%RSD	.3240944	.3884112	.5550321	.2973100	2.670539	11.13137
#1	4.206869	.5480975	1.338818	121.5414	-.694052	.0030425
#2	4.203054	.5508420	1.348879	121.0494	-.730858	.0033967
#3	4.181633	.5523092	1.334351	120.8398	-.704580	.0027174

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1487-01 Acquired: 3/13/2025 13:27:13 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0155741	F 18.27868	8.397311	8.279622	3.854363	.7672955
Stddev	.0023239	.02382	.020891	.030120	.006783	.0014489
%RSD	14.92167	.1303095	.2487847	.3637829	.1759723	.1888267
#1	.0182193	18.29684	8.419977	8.313522	3.857412	.7685610
#2	.0138607	18.25171	8.378827	8.255940	3.859087	.7657151
#3	.0146424	18.28748	8.393129	8.269405	3.846591	.7676105

Elem	Sr4077
Units	ppm
Avg	.2016621
Stddev	.0003392
%RSD	.1682265
#1	.2013740
#2	.2015762
#3	.2020360

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3406.141	74361.22	15468.85	2159.852	4061.673
Stddev	7.569	243.33	8.54	14.503	7.960
%RSD	.2222145	.3272259	.0552166	.6714636	.1959772
#1	3404.369	74148.42	15471.13	2149.698	4055.708
#2	3414.439	74308.73	15459.40	2153.396	4070.712
#3	3399.616	74626.51	15476.02	2176.461	4058.600

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-04 Acquired: 3/13/2025 13:31:32 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002352**	**-.004147**	**.0028277**	**.0046838**	**.0010596**	**.0370270**	**.1558972**
Stddev	.003275	.000461	.0006049	.0049011	.0017849	.0056034	.0010109
%RSD	139.2769	11.12395	21.39288	104.6381	168.4520	15.13324	.6484380
#1	.001361	-.004679	.0028021	.0097422	-.000055	.0336391	.1564943
#2	-.003586	-.003898	.0034451	-.000043	.003118	.0434947	.1564672
#3	-.004830	-.003863	.0022360	.004352	.000115	.0339470	.1547300

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000424**	**-.000050**	**3.062928**	**.0003778**	**.0013949**	**.0213799**	**.0508516**
Stddev	.0000400	.000001	.004933	.0001566	.0002111	.0004422	.0048785
%RSD	94.45789	1.848210	.1610408	41.45814	15.13279	2.068389	9.593639
#1	.0000878	-.000049	3.061475	.0005053	.0013070	.0218033	.0558722
#2	.0000274	-.000051	3.068424	.0002030	.0016358	.0214154	.0461288
#3	.0000120	-.000049	3.058886	.0004252	.0012420	.0209210	.0505538

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1477420**	**.3913338**	**.0022199**	**.0002260**	**308.8072**	**.0010172**	**.0438451**
Stddev	.0005003	.0147990	.0001215	.0003023	1.6370	.0014687	.0003062
%RSD	.3386635	3.781678	5.473994	133.7247	.5301130	144.3851	.6984128
#1	.1472401	.3806601	.0020802	.0005217	309.8190	.0003991	.0436089
#2	.1482408	.3851135	.0023013	-.000082	306.9186	-.000041	.0441911
#3	.1477453	.4082276	.0022783	.000239	309.6841	.002694	.0437354

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4400594**	**.0120008**	**.0002846**	**-.001000**	**.0016431**	**.2106751**	**.0035874**
Stddev	.0249202	.0008125	.0000293	.000367	.0006289	.0031666	.0026975
%RSD	5.662922	6.770460	10.31259	36.73216	38.27659	1.503062	75.19448
#1	.4446908	.0117139	.0002702	-.001248	.0015939	.2070990	.0012600
#2	.4623390	.0113707	.0003183	-.001174	.0010402	.2131232	.0065439
#3	.4131484	.0129179	.0002651	-.000578	.0022952	.2118033	.0029583

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-04 Acquired: 3/13/2025 13:31:32 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1829792	-.001692	.0248751
Stddev	.0023923	.000105	.0002053
%RSD	1.307407	6.212084	.8253913
#1	.1804840	-.001715	.0248140
#2	.1852532	-.001784	.0251040
#3	.1832004	-.001577	.0247073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3213.726	70199.34	14201.71	2047.431	4331.479
Stddev	9.143	63.85	95.88	.177	4.219
%RSD	.2844895	.0909530	.6751253	.0086638	.0974053
#1	3216.451	70137.51	14227.68	2047.250	4333.470
#2	3221.196	70195.49	14281.94	2047.440	4334.333
#3	3203.530	70265.03	14095.53	2047.604	4326.632

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-06 Acquired: 3/13/2025 13:35:59 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004805**	**-.004231**	**.0340288**	**.0029305**	**.0016950**	**.0435859**	**.3050335**
Stddev	.001890	.001557	.0008130	.0018782	.0017137	.0021222	.0017046
%RSD	39.33319	36.80463	2.389305	64.09006	101.1038	4.869102	.5588136
#1	-.004016	-.003619	.0331018	.0044952	-.000282	.0460303	.3059277
#2	-.003438	-.003073	.0343638	.0008477	.002606	.0422135	.3030679
#3	-.006962	-.006001	.0346209	.0034485	.002760	.0425139	.3061049

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000055**	**.0017456**	**8.047227**	**-.000200**	**.0041193**	**.3308505**	**.0224975**
Stddev	.000062	.0000541	.025260	.000266	.0001370	.0021446	.0015317
%RSD	112.1923	3.099623	.3138999	133.2893	3.325913	.6482138	6.808140
#1	-.000120	.0017643	8.059230	-.000495	.0040696	.3299084	.0226571
#2	.000003	.0016846	8.018203	-.000124	.0040142	.3293381	.0239431
#3	-.000049	.0017879	8.064248	.000020	.0042743	.3333049	.0208923

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.236304**	**1.170660**	**.0120015**	**.0001579**	**382.7558**	**.0006159**	**.2378748**
Stddev	.002929	.018895	.0006705	.0001631	1.8367	.0021156	.0003225
%RSD	.2369501	1.614079	5.586453	103.2887	.4798562	343.5062	.1355933
#1	1.239562	1.164707	.0127441	-.000029	384.5362	-.000229	.2376489
#2	1.233888	1.155458	.0118194	.000272	382.8637	-.000947	.2382442
#3	1.235462	1.191815	.0114409	.000231	380.8676	.003023	.2377313

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9688728**	**.0135374**	**.0001272**	**-.001306**	**.0000085**	**.3245919**	**.0311931**
Stddev	.0269269	.0006722	.0001260	.001019	.0006708	.0063282	.0007631
%RSD	2.779197	4.965789	99.01931	78.01636	7871.144	1.949600	2.446274
#1	.9777906	.0143114	.0002688	-.002332	-.000564	.3287503	.0318574
#2	.9386183	.0132015	.0000852	-.000294	-.000156	.3173091	.0303596
#3	.9902095	.0130993	.0000276	-.001293	.000746	.3277163	.0313622

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-06 Acquired: 3/13/2025 13:35:59 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3751128	-.002237	.0779592
Stddev	.0036316	.001376	.0003132
%RSD	.9681448	61.50511	.4017414
#1	.3710592	-.000738	.0781993
#2	.3762093	-.003443	.0776049
#3	.3780698	-.002531	.0780733

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3215.697	69749.00	14401.82	2048.836	4288.211
Stddev	16.870	182.29	40.66	2.340	17.776
%RSD	.5246062	.2613503	.2823282	.1142186	.4145318
#1	3226.140	69540.69	14413.06	2046.758	4295.880
#2	3224.717	69827.01	14435.68	2048.380	4300.865
#3	3196.235	69879.31	14356.73	2051.371	4267.888

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-08 Acquired: 3/13/2025 13:40:22 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002625**	**-.003438**	**.0068992**	**.0027316**	**.0011007**	**.0586407**	**.2000478**
Stddev	.002198	.001142	.0010946	.0016477	.0012627	.0009920	.0014247
%RSD	83.73234	33.21909	15.86558	60.32198	114.7108	1.691599	.7121922
#1	-.000141	-.004746	.0056864	.0025028	.0009399	.0594488	.2013703
#2	-.003418	-.002931	.0078139	.0012102	-.000074	.0589398	.2002341
#3	-.004318	-.002638	.0071972	.0044818	.002436	.0575336	.1985392

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000010**	**-.000016**	**4.777686**	**.0005177**	**.0008669**	**.0146533**	**.8427491**
Stddev	.000024	.000019	.024686	.0006139	.0001115	.0005331	.0084107
%RSD	233.4079	118.6997	.5166973	118.6012	12.85800	3.637813	.9980073
#1	.000015	.000000	4.803499	-.000191	.0008085	.0147038	.8425973
#2	-.000012	-.000037	4.775251	.000900	.0009954	.0140968	.8512348
#3	-.000033	-.000011	4.754308	.000843	.0007967	.0151593	.8344154

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1780756**	**3.273904**	**.0014324**	**-.000305**	**357.8585**	**.0098622**	**.0966907**
Stddev	.0012773	.009827	.0001089	.000133	5.1028	.0012831	.0000791
%RSD	.7172496	.3001576	7.604640	43.70829	1.425915	13.00988	.0818345
#1	.1787180	3.284961	.0015023	-.000151	357.6603	.0096782	.0967003
#2	.1789041	3.266168	.0014880	-.000390	363.0575	.0086810	.0966072
#3	.1766047	3.270583	.0013069	-.000374	352.8578	.0112272	.0967646

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.105402**	**.0530099**	**.0008287**	**-.000725**	**.0014204**	**.3552357**	**.0277354**
Stddev	.010961	.0009582	.0001051	.000517	.0003594	.0007467	.0028771
%RSD	.5206204	1.807509	12.67657	71.29088	25.30527	.2102029	10.37329
#1	2.103647	.0521911	.0007124	-.001207	.0017710	.3548013	.0253643
#2	2.095424	.0527749	.0008571	-.000179	.0010527	.3548078	.0269057
#3	2.117135	.0540637	.0009166	-.000790	.0014376	.3560979	.0309361

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-08 Acquired: 3/13/2025 13:40:22 Type: Unk
Method: NON EPA-6010-200.7(v2804) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.288158	-.000044	.0477026
Stddev	.013449	.000734	.0003605
%RSD	1.044023	1670.000	.7557486
#1	1.302566	-.000892	.0479495
#2	1.275936	.000380	.0478695
#3	1.285973	.000380	.0472889

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3241.703	72057.90	14553.47	2117.619	4329.214
Stddev	26.728	215.87	34.22	4.552	32.054
%RSD	.8244927	.2995834	.2351252	.2149623	.7404177
#1	3239.670	72306.48	14516.34	2114.452	4317.682
#2	3269.388	71917.55	14560.32	2115.569	4365.439
#3	3216.049	71949.68	14583.74	2122.835	4304.521

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV02 Acquired: 3/13/2025 13:49:53 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.290119**	**5.111883**	**5.330192**	**5.179630**	**5.179698**	**10.43256**	**10.13034**
Stddev	.024030	.014276	.012705	.030867	.024458	.02211	.08553
%RSD	.4542401	.2792746	.2383590	.5959299	.4721868	.2119200	.8442951
#1	5.295455	5.100352	5.318414	5.172669	5.176973	10.41684	10.22299
#2	5.263870	5.107445	5.328507	5.152838	5.156716	10.42300	10.11364
#3	5.311033	5.127851	5.343656	5.213383	5.205404	10.45784	10.05440

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2675975**	**2.631688**	**26.04788**	**1.095199**	**2.605988**	**1.309816**	**5.129983**
Stddev	.0014060	.006651	.08345	.003802	.007822	.007193	.037791
%RSD	.5254133	.2527158	.3203888	.3471160	.3001698	.5491427	.7366770
#1	.2688446	2.626314	26.03770	1.093051	2.600730	1.307313	5.103933
#2	.2660738	2.629625	25.96999	1.092957	2.602255	1.304210	5.112688
#3	.2678741	2.639126	26.13596	1.099588	2.614977	1.317926	5.173327

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.582733**	**26.13231**	**2.604565**	**1.313325**	**25.60062**	**2.604295**	**2.621727**
Stddev	.007004	.09860	.007952	.001935	.23524	.005989	.012206
%RSD	.2711988	.3773199	.3053192	.1473214	.9188781	.2299558	.4655866
#1	2.579123	26.15491	2.597367	1.315018	25.33137	2.597659	2.612675
#2	2.578271	26.02437	2.603225	1.311216	25.70415	2.605930	2.616897
#3	2.590806	26.21765	2.613101	1.313741	25.76634	2.609297	2.635609

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.10547**	**5.306765**	**5.212738**	**5.333363**	**5.111583**	**5.302202**	**5.350626**
Stddev	.11646	.021233	.023398	.011661	.014872	.040815	.022371
%RSD	.4638695	.4001176	.4488705	.2186473	.2909566	.7697813	.4180930
#1	24.97121	5.326172	5.207138	5.324742	5.097314	5.269352	5.335221
#2	25.16613	5.284085	5.192648	5.328716	5.110440	5.289360	5.340373
#3	25.17908	5.310037	5.238428	5.346631	5.126994	5.347894	5.376286

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV02 Acquired: 3/13/2025 13:49:53 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**5.103279**	**5.034187**	**5.169602**
Stddev	.026425	.018289	.048205
%RSD	.5178099	.3632896	.9324748
#1	5.087854	5.013421	5.218525
#2	5.088191	5.041246	5.168132
#3	5.133792	5.047894	5.122148

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3274.246**	**71628.30**	**14156.82**	**2085.973**	**4387.404**
Stddev	10.144	146.41	60.75	5.900	7.165
%RSD	.3098143	.2044072	.4291016	.2828416	.1633003
#1	3272.593	71665.54	14107.37	2090.030	4391.226
#2	3285.115	71752.50	14224.63	2088.685	4391.847
#3	3265.030	71466.87	14138.45	2079.205	4379.139

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB02 Acquired: 3/13/2025 13:54:04 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002280**	**.0010326**	**.0008389**	**.0016854**	**.0009020**	**-.004972**	**.0029080**
Stddev	.002535	.0008243	.0009164	.0018411	.0018758	.002488	.0013657
%RSD	111.1628	79.82309	109.2439	109.2419	207.9692	50.04360	46.96509
#1	-.001048	.0001318	.0008674	.0019969	-.000652	-.006820	.0044768
#2	-.005195	.0012170	-.000091	.0033509	.002986	-.005952	.0022630
#3	-.000597	.0017491	.001741	-.000292	.000372	-.002143	.0019842

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000242**	**.0000043**	**-.003695**	**.0002783**	**.0001673**	**.0000795**	**.0011773**
Stddev	.0000481	.0001070	.009120	.0002007	.0001656	.0002768	.0059662
%RSD	199.0110	2465.102	246.8146	72.11763	99.01127	348.3777	506.7776
#1	.0000747	.0001189	-.013722	.0001651	-.000021	-.000080	.0070739
#2	.0000190	-.000013	.004105	.0005100	.000289	.000399	-.004856
#3	-.000021	-.000093	-.001468	.0001597	.000235	-.000081	.001314

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000789**	**.0014163**	**-.000008**	**.0004444**	**.0238026**	**.0002016**	**-.000614**
Stddev	.000196	.0092458	.000059	.0002183	.0052493	.0007890	.000512
%RSD	24.85141	652.8079	697.8778	49.10764	22.05366	391.3962	83.47732
#1	-.000910	-.008214	.000021	.0005842	.0279769	-.000550	-.000024
#2	-.000895	.002240	-.000076	.0005562	.0179093	.000132	-.000872
#3	-.000563	.010223	.000029	.0001930	.0255216	.001023	-.000946

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0254096**	**.0057616**	**.0002665**	**-.000536**	**.0007145**	**.0040165**	**-.004289**
Stddev	.0084013	.0001682	.0002124	.000241	.0008010	.0037582	.000933
%RSD	33.06334	2.918570	79.72066	44.99583	112.1053	93.56926	21.74473
#1	.0222846	.0059475	.0004981	-.000272	.0016278	.0056688	-.003659
#2	.0190187	.0056201	.0000808	-.000744	.0003845	.0066654	-.005361
#3	.0349256	.0057172	.0002204	-.000592	.0001313	-.000285	-.003848

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB02 Acquired: 3/13/2025 13:54:04 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.003595	.0017093	.0001552
Stddev	.002238	.0005843	.0003392
%RSD	62.26571	34.18407	218.5172
#1	-.005872	.0016332	.0005466
#2	-.001398	.0011669	-.000053
#3	-.003514	.0023280	-.000028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3397.690	74150.87	14625.50	2166.226	4931.369
Stddev	11.149	230.61	18.19	8.050	14.611
%RSD	.3281458	.3109988	.1243536	.3716153	.2962928
#1	3405.446	73885.18	14628.46	2160.081	4935.110
#2	3402.711	74268.39	14606.02	2175.338	4943.745
#3	3384.913	74299.05	14642.03	2163.258	4915.250

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-10 Acquired: 3/13/2025 13:58:24 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003931**	**-.003630**	**.0313954**	**.0052712**	**.0026052**	**.1481312**	**.1171170**
Stddev	.001741	.000928	.0016616	.0032713	.0013903	.0030260	.0007268
%RSD	44.29087	25.56019	5.292372	62.05988	53.36513	2.042785	.6206037
#1	-.004225	-.003674	.0299663	.0087608	.0015593	.1467889	.1165598
#2	-.005507	-.002681	.0310014	.0022741	.0041829	.1515961	.1168520
#3	-.002062	-.004535	.0332186	.0047787	.0020734	.1460085	.1179391

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000173**	**.0017164**	**5.483291**	**-.000157**	**.0082005**	**1.377312**	**.0774091**
Stddev	.000051	.0000485	.015080	.000043	.0003638	.006127	.0030889
%RSD	29.38668	2.824214	.2750254	27.71469	4.436218	.4448276	3.990387
#1	-.000153	.0017320	5.466747	-.000206	.0079426	1.374287	.0794105
#2	-.000230	.0016621	5.496268	-.000124	.0080422	1.373286	.0789651
#3	-.000134	.0017552	5.486858	-.000140	.0086166	1.384363	.0738516

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5546195**	**.4542265**	**.0109296**	**.0001075**	**340.0627**	**-.001238**	**.3374563**
Stddev	.0019078	.0139051	.0002476	.0000658	1.8244	.000551	.0010659
%RSD	.3439884	3.061279	2.265895	61.18069	.5364781	44.55306	.3158674
#1	.5534124	.4502621	.0110355	.0000548	340.8385	-.001855	.3366832
#2	.5536271	.4427341	.0106466	.0001812	337.9787	-.000792	.3370133
#3	.5568190	.4696833	.0111067	.0000864	341.3710	-.001066	.3386722

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6884068**	**.0157394**	**.0003045**	**-.000702**	**.0016143**	**.8932747**	**.0051732**
Stddev	.0078937	.0007566	.0001235	.000656	.0001732	.0086980	.0022370
%RSD	1.146656	4.807370	40.56307	93.48810	10.72899	.9737236	43.24262
#1	.6912304	.0150743	.0004337	-.000851	.0017106	.9002261	.0025993
#2	.6945004	.0155812	.0001876	-.001270	.0014144	.8960771	.0062709
#3	.6794897	.0165626	.0002923	.000016	.0017179	.8835209	.0066493

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-10 Acquired: 3/13/2025 13:58:24 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3408979	-.000472	.0440281
Stddev	.0034589	.000717	.0001080
%RSD	1.014639	151.9731	.2453165
#1	.3446315	.000332	.0439259
#2	.3378026	-.001045	.0440173
#3	.3402597	-.000703	.0441411

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3143.542	69910.58	14106.72	2040.522	4192.665
Stddev	6.884	275.95	11.65	9.665	11.444
%RSD	.2189871	.3947208	.0825931	.4736375	.2729455
#1	3145.193	69640.81	14111.31	2037.377	4195.912
#2	3149.450	69898.60	14115.38	2032.822	4202.134
#3	3135.982	70192.32	14093.47	2051.368	4179.949

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-12 Acquired: 3/13/2025 14:02:47 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002462**	**-.002927**	**.0892578**	**.0040035**	**.0018866**	**.0489787**	**.1181793**
Stddev	.001961	.002650	.0008938	.0022716	.0015558	.0044335	.0002710
%RSD	79.64598	90.54136	1.001339	56.73953	82.46594	9.051824	.2292773
#1	-.002080	-.005787	.0882958	.0047997	.0019972	.0518431	.1184914
#2	-.004585	-.000555	.0900623	.0014410	.0033842	.0512209	.1180428
#3	-.000720	-.002438	.0894154	.0057699	.0002785	.0438720	.1180038

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000090**	**.0010515**	**4.765159**	**.0001536**	**.0034400**	**.4860164**	**2.003688**
Stddev	.000038	.0001366	.019615	.0006546	.0000687	.0012040	.013962
%RSD	41.81277	12.99265	.4116361	426.1200	1.997672	.2477256	.6967944
#1	-.000090	.0011990	4.787392	.0008611	.0034047	.4854044	2.007198
#2	-.000052	.0010260	4.750298	-.000431	.0035192	.4852413	1.988306
#3	-.000128	.0009294	4.757786	.000030	.0033961	.4874034	2.015559

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4124520**	**1.995955**	**.0104666**	**.0000785**	**337.6491**	**.0018118**	**.4479119**
Stddev	.0007588	.003548	.0001873	.0000159	2.2539	.0009114	.0017301
%RSD	.1839626	.1777494	1.789279	20.26981	.6675167	50.30683	.3862663
#1	.4119055	2.000051	.0104990	.0000629	340.0122	.0007942	.4494606
#2	.4133183	1.993908	.0102652	.0000777	337.4119	.0025532	.4460446
#3	.4121323	1.993905	.0106355	.0000947	335.5232	.0020879	.4482306

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.217527**	**.0244755**	**.0000540**	**-.000308**	**.0008212**	**1.008176**	**.0060207**
Stddev	.018846	.0003955	.0000241	.000131	.0001527	.000788	.0014172
%RSD	1.547896	1.615927	44.64773	42.67455	18.59677	.0781834	23.53885
#1	1.195767	.0244505	.0000271	-.000405	.0006555	1.009012	.0076549
#2	1.228189	.0248829	.0000614	-.000158	.0009562	1.007446	.0051294
#3	1.228625	.0240931	.0000736	-.000361	.0008520	1.008069	.0052778

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-12 Acquired: 3/13/2025 14:02:47 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3012202	.0030530	.0565154
Stddev	.0060251	.0014988	.0000988
%RSD	2.000233	49.09527	.1747830
#1	.2942678	.0040582	.0564239
#2	.3044741	.0037704	.0565023
#3	.3049189	.0013302	.0566201

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3213.148	69999.67	14675.47	2091.957	4279.821
Stddev	9.090	489.58	83.28	15.726	16.867
%RSD	.2828890	.6993986	.5674465	.7517524	.3940968
#1	3215.422	69545.32	14585.93	2075.346	4280.256
#2	3220.884	70518.15	14689.88	2106.617	4296.466
#3	3203.137	69935.53	14750.60	2093.907	4262.741

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-14 Acquired: 3/13/2025 14:07:11 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1149075**	**.0073878**	**1.907094**	**-.016749**	**.0085376**	**61.97365**
Stddev	.0015472	.0023134	.011396	.002640	.0009907	.80701
%RSD	1.346496	31.31346	.5975468	15.76013	11.60421	1.302178
#1	.1132502	.0086147	1.895644	-.019022	.0093297	62.42768
#2	.1163140	.0047194	1.907205	-.013854	.0074267	61.04190
#3	.1151583	.0088293	1.918435	-.017372	.0088564	62.45138

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4428631**	**.0041712**	**.0025746**	**71.95883**	**.1382525**	**.0560422**
Stddev	.0053026	.0000287	.0003143	1.04798	.0009160	.0005443
%RSD	1.197352	.6884079	12.20854	1.456360	.6625624	.9711804
#1	.4470775	.0041415	.0022328	72.57282	.1379983	.0555397
#2	.4369092	.0041733	.0026399	70.74877	.1374904	.0559665
#3	.4446026	.0041988	.0028512	72.55491	.1392687	.0566204

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.18969**	**150.0268**	**7.634696**	**19.03100**	**.1943418**	**.0076163**
Stddev	.17875	.3713	.104549	.30919	.0019855	.0002775
%RSD	.7389688	.2474957	1.369393	1.624681	1.021652	3.643617
#1	24.02872	150.3734	7.701935	19.16796	.1921144	.0077139
#2	24.15829	149.6350	7.514245	18.67698	.1949853	.0073032
#3	24.38206	150.0720	7.687907	19.24806	.1959258	.0078319

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.98161**	**.1350665**	**3.521352**	**16.55806**	**-.008251**	**.0165670**
Stddev	.09154	.0040271	.015103	.02022	.002247	.0004032
%RSD	.3271511	2.981596	.4289013	.1221116	27.23596	2.433942
#1	28.02821	.1372331	3.511445	16.56230	-.008257	.0164275
#2	28.04047	.1304199	3.513875	16.53605	-.006001	.0162520
#3	27.87614	.1375466	3.538735	16.57581	-.010496	.0170214

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-14 Acquired: 3/13/2025 14:07:11 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1002447	1.149754	F 67.86288	2.604508	F 10.55773	.1209384
Stddev	.0009314	.016567	.27132	.016751	.06873	.0014299
%RSD	.9291005	1.440933	.3998005	.6431552	.6509845	1.182298
#1	.0993299	1.163797	67.66289	2.588004	10.48148	.1212882
#2	.1011918	1.131482	67.75404	2.604025	10.57680	.1193661
#3	.1002126	1.153983	68.17172	2.621496	10.61492	.1221609

Elem	Sr4077
Units	ppm
Avg	.6261898
Stddev	.0084858
%RSD	1.355149
#1	.6328412
#2	.6166329
#3	.6290953

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3295.224	74978.77	14551.76	2180.824	4387.775
Stddev	26.784	153.78	195.76	5.647	33.268
%RSD	.8128049	.2051038	1.345239	.2589413	.7581925
#1	3315.565	75122.86	14456.99	2181.312	4416.704
#2	3305.229	74996.59	14776.87	2186.212	4395.198
#3	3264.878	74816.85	14421.44	2174.949	4351.423

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-01 Acquired: 3/13/2025 14:11:15 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0333917	.0029519	.2188027	-.024995	-.005585	144.0984	.6837014
Stddev	.0009330	.0033856	.0001695	.004997	.001072	.8645	.0024557
%RSD	2.794054	114.6894	.0774589	19.99045	19.18827	.5999681	.3591761
#1	.0344137	.0041091	.2188872	-.027031	-.004613	143.3101	.6810014
#2	.0325856	-.000860	.2186076	-.019302	-.006734	143.9621	.6843012
#3	.0331758	.005607	.2189133	-.028652	-.005407	145.0230	.6858017

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087407	-.006418	19.97422	.2105225	.1112622	.2238614	250.1534
Stddev	.0001747	.000156	.12460	.0009075	.0004109	.0004712	.4718
%RSD	1.998402	2.437630	.6238289	.4310676	.3693242	.2104970	.1886027
#1	.0085837	-.006566	19.87640	.2099661	.1109556	.2241035	250.1723
#2	.0087095	-.006254	19.93176	.2100317	.1111020	.2241624	249.6724
#3	.0089289	-.006435	20.11451	.2115697	.1117292	.2233184	250.6155

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.622742	35.83816	.2026622	.0007497	7.737120	.3876571	.4384553
Stddev	.020270	.27080	.0005345	.0001479	.044876	.0029715	.0026550
%RSD	.5595124	.7556061	.2637152	19.72949	.5800045	.7665242	.6055307
#1	3.601006	35.67299	.2020712	.0005898	7.716519	.3850962	.4367713
#2	3.626093	35.69081	.2028037	.0007776	7.788597	.3869598	.4370787
#3	3.641128	36.15068	.2031116	.0008816	7.706244	.3909152	.4415158

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.307072	-.251612	.0016132	.0086851	4.651775	8.692891	5.507975
Stddev	.008004	.008654	.0003083	.0005422	.027228	.018763	.031862
%RSD	.0859955	3.439584	19.10937	6.243381	.5853293	.2158417	.5784667
#1	9.313877	-.243998	.0019467	.0081250	4.626405	8.695461	5.471281
#2	9.298254	-.249815	.0013388	.0087228	4.648378	8.672975	5.524006
#3	9.309086	-.261024	.0015541	.0092075	4.680542	8.710236	5.528637

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-01 Acquired: 3/13/2025 14:11:15 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.487577	.2279997	.0869256
Stddev	.012186	.0003297	.0003224
%RSD	.8192055	.1445933	.3708908
#1	1.476221	.2281640	.0865757
#2	1.486059	.2276202	.0869906
#3	1.500452	.2282150	.0872106

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3741.539	81478.65	17233.14	2403.678	4278.033
Stddev	10.870	353.67	140.84	14.884	12.984
%RSD	.2905153	.4340672	.8172699	.6192075	.3035067
#1	3753.964	81602.55	17355.45	2412.147	4292.945
#2	3736.868	81753.71	17264.82	2412.394	4271.923
#3	3733.786	81079.70	17079.16	2386.492	4269.231

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-03 Acquired: 3/13/2025 14:15:20 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0263588	.0035633	.1037443	-.017240	-.003347	71.46085	.5644663
Stddev	.0025518	.0015731	.0013703	.003088	.001123	.12540	.0013084
%RSD	9.681026	44.14697	1.320807	17.91431	33.55492	.1754857	.2317990
#1	.0240721	.0052875	.1035064	-.015779	-.004640	71.31702	.5639188
#2	.0258928	.0022064	.1025086	-.015153	-.002624	71.54727	.5659595
#3	.0291115	.0031959	.1052180	-.020788	-.002775	71.51825	.5635206

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059972	-.005371	15.58709	.1680132	.0727393	.2494948	155.1596
Stddev	.0000524	.000181	.01833	.0004616	.0006423	.0020027	.5865
%RSD	.8744838	3.365437	.1176287	.2747097	.8830109	.8027080	.3779902
#1	.0059695	-.005567	15.56700	.1675034	.0722309	.2480105	155.7843
#2	.0060577	-.005337	15.59135	.1681334	.0725258	.2487013	154.6208
#3	.0059644	-.005210	15.60291	.1684027	.0734611	.2517727	155.0737

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.169391	16.10349	.1156860	.0005917	.9685568	.1891067	.2536150
Stddev	.000405	.03748	.0004555	.0000993	.0104341	.0002733	.0013063
%RSD	.0345968	.2327627	.3937159	16.78329	1.077287	.1445264	.5150735
#1	1.168942	16.07478	.1160890	.0007036	.9686215	.1887945	.2550306
#2	1.169506	16.14589	.1151919	.0005139	.9789584	.1893032	.2533583
#3	1.169726	16.08980	.1157772	.0005576	.9580904	.1892222	.2524561

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.457138	-.210807	.0114914	.0054080	2.125585	6.817813	4.508949
Stddev	.011409	.004093	.0000922	.0001974	.002761	.028368	.026449
%RSD	.1766927	1.941774	.8025525	3.649185	.1298801	.4160871	.5865903
#1	6.449582	-.206234	.0114975	.0052121	2.122485	6.841579	4.504502
#2	6.470262	-.214127	.0115804	.0054051	2.127778	6.786407	4.485005
#3	6.451569	-.212061	.0113963	.0056068	2.126494	6.825451	4.537339

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-03 Acquired: 3/13/2025 14:15:20 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.067260	.1342781	.0916758
Stddev	.013832	.0003689	.0000138
%RSD	.2729666	.2747209	.0150160
#1	5.063163	.1340254	.0916645
#2	5.055940	.1341076	.0916717
#3	5.082678	.1347014	.0916911

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3676.648	80976.07	16564.37	2374.317	4480.813
Stddev	11.411	96.74	54.03	4.260	20.877
%RSD	.3103631	.1194654	.3261574	.1794356	.4659151
#1	3679.778	80876.14	16624.48	2369.626	4484.937
#2	3686.166	80982.80	16519.87	2375.378	4499.320
#3	3663.998	81069.26	16548.75	2377.946	4458.182

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-05 Acquired: 3/13/2025 14:19:27 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0732074	.0095671	2.355033	-.040120	-.003827	161.7785	1.446486
Stddev	.0024937	.0030317	.018629	.001719	.004312	.2980	.002005
%RSD	3.406292	31.68882	.7910192	4.283428	112.6565	.1842150	.1386031
#1	.0704497	.0077481	2.353123	-.038790	-.006752	161.4346	1.445728
#2	.0738692	.0078863	2.337432	-.042061	-.005854	161.9606	1.448759
#3	.0753035	.0130670	2.374543	-.039511	.001124	161.9404	1.444970

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0152343	.0022638	26.15869	.2827217	.1776444	3.851773	297.1157
Stddev	.0000460	.0003737	.05381	.0004920	.0012007	.022851	.5791
%RSD	.3019046	16.50971	.2057056	.1740140	.6759053	.5932515	.1948963
#1	.0152716	.0022587	26.18167	.2826109	.1778221	3.839019	296.5652
#2	.0151829	.0018926	26.19720	.2822945	.1763647	3.838145	297.0623
#3	.0152485	.0026400	26.09721	.2832596	.1787463	3.878153	297.7196

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.758579	58.48987	.3464646	.0023369	1.228855	.3499633	1.825455
Stddev	.014452	.09394	.0036121	.0004220	.011696	.0025384	.006836
%RSD	.1862688	.1606100	1.042571	18.05867	.9518117	.7253445	.3744679
#1	7.767746	58.56515	.3441667	.0026072	1.235890	.3506706	1.818047
#2	7.766071	58.51986	.3445990	.0025529	1.215354	.3520731	1.831520
#3	7.741919	58.38459	.3506280	.0018506	1.235323	.3471462	1.826798

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.64480	-.348928	.0236608	.0483443	3.606907	7.362039	9.428104
Stddev	.12152	.003625	.0007359	.0010198	.003832	.033301	.080223
%RSD	.5614488	1.038828	3.110372	2.109497	.1062455	.4523360	.8508933
#1	21.54119	-.350551	.0238692	.0471683	3.609733	7.330420	9.371604
#2	21.61465	-.351457	.0228431	.0488784	3.608443	7.358897	9.392780
#3	21.77856	-.344775	.0242700	.0489861	3.602545	7.396800	9.519927

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-05 Acquired: 3/13/2025 14:19:27 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.268355	.3938132	.2736249
Stddev	.037934	.0005634	.0003543
%RSD	.8887315	.1430750	.1294766
#1	4.237635	.3932247	.2733130
#2	4.256674	.3938670	.2740101
#3	4.310756	.3943478	.2735516

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3888.350	85419.60	18074.48	2495.957	4228.665
Stddev	15.981	254.87	45.74	4.854	26.222
%RSD	.4110059	.2983764	.2530413	.1944657	.6200921
#1	3893.888	85711.98	18057.47	2500.107	4239.193
#2	3900.825	85302.55	18039.69	2497.144	4247.987
#3	3870.336	85244.28	18126.29	2490.620	4198.816

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-07 Acquired: 3/13/2025 14:23:29 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0422154**	**.0059359**	**.1237381**	**-.020734**	**-.004092**	**101.2748**
Stddev	.0007997	.0014140	.0008954	.002478	.003312	.1240
%RSD	1.894330	23.82191	.7236225	11.95069	80.95627	.1224526
#1	.0429836	.0072123	.1227055	-.022905	-.006101	101.1469
#2	.0413876	.0061794	.1242094	-.021262	-.005905	101.2831
#3	.0422750	.0044159	.1242995	-.018034	-.000268	101.3945

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1639439**	**.0063451**	**-.006935**	**8.700587**	**.1595739**	**.1071594**
Stddev	.0010338	.0000925	.000189	.012540	.0012838	.0003448
%RSD	.6306055	1.457205	2.718834	.1441224	.8045245	.3217500
#1	.1632852	.0063127	-.007117	8.711849	.1581266	.1067856
#2	.1651355	.0064494	-.006741	8.702837	.1600198	.1074649
#3	.1634110	.0062731	-.006946	8.687075	.1605753	.1072279

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1906356**	**185.9878**	**1.268144**	**20.90144**	**.1372508**	**.0003612**
Stddev	.0007590	.5946	.002676	.08926	.0006825	.0002733
%RSD	.3981560	.3196786	.2110059	.4270338	.4972294	75.65864
#1	.1897669	186.0962	1.268550	20.85405	.1368239	.0006010
#2	.1911704	185.3466	1.265288	20.84587	.1380379	.0000636
#3	.1909696	186.5208	1.270594	21.00439	.1368906	.0004191

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.870801**	**.2931575**	**.4978260**	**6.869913**	**-.214454**	**.0071510**
Stddev	.005034	.0009866	.0024724	.022388	.005822	.0002876
%RSD	.1753496	.3365436	.4966343	.3258886	2.714938	4.021655
#1	2.871359	.2940730	.4956940	6.844338	-.207798	.0068318
#2	2.875533	.2932869	.4972477	6.879430	-.218602	.0072315
#3	2.865511	.2921126	.5005363	6.885969	-.216962	.0073898

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-07 Acquired: 3/13/2025 14:23:29 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081576	2.387520	6.977309	7.897429	F 119.0982	.2015331
Stddev	.0006401	.001918	.014601	.032684	.5357	.0017358
%RSD	7.846426	.0803281	.2092632	.4138529	.4497853	.8612777
#1	.0081588	2.388869	6.970920	7.860187	118.5237	.2015095
#2	.0075169	2.385325	6.966993	7.921341	119.5840	.1998092
#3	.0087971	2.388366	6.994016	7.910759	119.1868	.2032805

Elem	Sr4077
Units	ppm
Avg	.0968887
Stddev	.0002660
%RSD	.2745010
#1	.0969400
#2	.0966008
#3	.0971253

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3554.849	79138.04	16299.49	2355.319	4413.470
Stddev	9.471	192.00	39.96	5.645	14.398
%RSD	.2664318	.2426102	.2451395	.2396701	.3262299
#1	3565.786	79340.23	16345.46	2353.329	4429.222
#2	3549.465	79115.69	16273.08	2361.690	4400.989
#3	3549.298	78958.20	16279.93	2350.939	4410.198

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-09 Acquired: 3/13/2025 14:27:34 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1985622**	**.0163514**	**4.221565**	**-.058933**	**.0073166**	**116.7843**	**.9398564**
Stddev	.0022911	.0017272	.008134	.003626	.0017856	.2835	.0026252
%RSD	1.153843	10.56312	.1926822	6.152549	24.40495	.2427881	.2793166
#1	.2011895	.0161071	4.223968	-.055714	.0057733	116.6051	.9397623
#2	.1975173	.0181878	4.212500	-.058226	.0069041	116.6365	.9372796
#3	.1969799	.0147594	4.228227	-.062861	.0092723	117.1112	.9425274

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0122756**	**.0053010**	**127.9534**	**.3340634**	**.1380582**	**19.40453**	**392.5705**
Stddev	.0000584	.0008431	.4100	.0022183	.0006186	.04031	3.0211
%RSD	.4761881	15.90428	.3204380	.6640242	.4480426	.2077334	.7695647
#1	.0122465	.0043874	128.3091	.3325685	.1376093	19.38124	395.9582
#2	.0123429	.0054668	127.5050	.3330096	.1378016	19.38128	391.5974
#3	.0122373	.0060490	128.0461	.3366121	.1387638	19.45108	390.1559

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.50446**	**24.63379**	**.3440858**	**-.002636**	**3.736649**	**.4354865**	**3.907813**
Stddev	.03864	.04934	.0013434	.000574	.030357	.0014902	.009080
%RSD	.3090126	.2002934	.3904249	21.77634	.8124122	.3422000	.2323452
#1	12.53653	24.65985	.3437057	-.002539	3.745479	.4372030	3.918266
#2	12.46156	24.57688	.3429734	-.002117	3.702856	.4347326	3.901891
#3	12.51530	24.66463	.3455783	-.003253	3.761612	.4345239	3.903281

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.64752**	**-.707228**	**.0254976**	**1.266817**	**5.548004**	**9.310163**	**6.415174**
Stddev	.08300	.014614	.0002536	.003854	.011446	.059661	.007765
%RSD	.7126314	2.066418	.9943904	.3041949	.2063158	.6408142	.1210415
#1	11.70051	-.691003	.0255145	1.266296	5.549336	9.311889	6.408250
#2	11.55186	-.719359	.0252361	1.263251	5.535950	9.249658	6.413702
#3	11.69020	-.711321	.0257423	1.270905	5.558727	9.368942	6.423569

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-09 Acquired: 3/13/2025 14:27:34 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.694876	.2338540	.8096590
Stddev	.032782	.0002146	.0015100
%RSD	.3770301	.0917708	.1864957
#1	8.669422	.2340026	.8105267
#2	8.683339	.2336080	.8079155
#3	8.731867	.2339515	.8105349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3478.087	78072.99	14938.90	2287.365	4236.512
Stddev	7.186	183.14	10.17	7.725	8.603
%RSD	.2066158	.2345706	.0681037	.3377206	.2030567
#1	3482.801	77985.09	14939.01	2278.822	4237.690
#2	3481.644	78283.51	14928.67	2289.416	4244.465
#3	3469.816	77950.38	14949.02	2293.858	4227.382

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-11 Acquired: 3/13/2025 14:31:39 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0359756**	**.0129731**	**.2148719**	**-.020255**	**-.004512**	**76.90080**
Stddev	.0010018	.0009423	.0008266	.002270	.000776	.10532
%RSD	2.784526	7.263346	.3846783	11.20678	17.19022	.1369562
#1	.0348297	.0118990	.2156466	-.022634	-.004066	76.78055
#2	.0366852	.0136605	.2140018	-.020016	-.005407	76.94522
#3	.0364119	.0133598	.2149672	-.018113	-.004062	76.97664

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1522217**	**.0052892**	**-.008595**	**12.89407**	**.1150730**	**.0434041**
Stddev	.0007907	.0000466	.000247	.02245	.0005693	.0001349
%RSD	.5194644	.8802758	2.871485	.1741065	.4947436	.3108865
#1	.1530749	.0052428	-.008598	12.87420	.1157301	.0435597
#2	.1515136	.0052887	-.008841	12.88958	.1147610	.0433334
#3	.1520765	.0053359	-.008347	12.91842	.1147279	.0433192

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.189372**	**202.1766**	**1.112497**	**22.84836**	**.1067159**	**-.000547**
Stddev	.005651	.5531	.003192	.07013	.0001063	.000371
%RSD	.4751182	.2735642	.2869247	.3069473	.0996010	67.82823
#1	1.191903	202.7339	1.114992	22.84239	.1066018	-.000220
#2	1.182898	201.6279	1.113600	22.78141	.1067339	-.000950
#3	1.193315	202.1679	1.108900	22.92129	.1068121	-.000471

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.704066**	**.1388760**	**.6544242**	**6.030659**	**-.227601**	**.0371810**
Stddev	.026234	.0026318	.0004808	.005947	.002073	.0002797
%RSD	.3913175	1.895041	.0734740	.0986133	.9109477	.7521786
#1	6.733870	.1417025	.6541688	6.023871	-.225348	.0372278
#2	6.693862	.1384295	.6541249	6.033153	-.228027	.0368809
#3	6.684468	.1364961	.6549788	6.034953	-.229428	.0374344

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-11 Acquired: 3/13/2025 14:31:39 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0902699	1.528987	F 11.55768	3.856411	F 157.2399	.3403364
Stddev	.0014719	.002439	.01530	.021765	1.2108	.0010421
%RSD	1.630586	.1595286	.1324119	.5643962	.7700634	.3062040
#1	.0914976	1.530319	11.55784	3.866769	158.0109	.3406266
#2	.0886381	1.530471	11.54230	3.831401	155.8443	.3412026
#3	.0906740	1.526172	11.57291	3.871064	157.8646	.3391799

Elem	Sr4077
Units	ppm
Avg	.1784447
Stddev	.0003101
%RSD	.1738010
#1	.1788026
#2	.1782765
#3	.1782550

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3547.018	77980.10	15899.55	2283.585	4599.503
Stddev	16.686	210.69	34.38	8.071	24.407
%RSD	.4704275	.2701886	.2162530	.3534468	.5306509
#1	3542.309	77812.83	15863.77	2283.304	4588.105
#2	3565.553	78216.73	15932.35	2291.793	4627.524
#3	3533.193	77910.74	15902.51	2275.658	4582.880

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1491-02 Acquired: 3/13/2025 14:35:46 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000757**	**.0009223**	**.0421633**	**.0011808**	**.0274114**	**2.249775**
Stddev	.001900	.0012139	.0004207	.0024484	.0004351	.004185
%RSD	251.0161	131.6120	.9978788	207.3451	1.587236	.1860187
#1	.001428	.0014875	.0423660	.0026060	.0269095	2.254591
#2	-.002019	-.000471	.0424444	.0025828	.0276816	2.247015
#3	-.001679	.001751	.0416796	-.001646	.0276430	2.247720

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1452827**	**.0002665**	**.0024803**	**25.10912**	**.0344049**	**.0044210**
Stddev	.0016309	.0000647	.0000316	.03922	.0009129	.0001910
%RSD	1.122597	24.27388	1.272837	.1561951	2.653329	4.320847
#1	.1467677	.0001964	.0024942	25.13080	.0334674	.0042039
#2	.1455433	.0003239	.0024442	25.13271	.0352910	.0044962
#3	.1435372	.0002792	.0025025	25.06385	.0344564	.0045631

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2448517**	**17.77591**	**.2191223**	**6.080847**	**.0386310**	**.0017095**
Stddev	.0015825	.12046	.0006166	.026458	.0000434	.0002871
%RSD	.6463099	.6776720	.2813895	.4351062	.1122494	16.79379
#1	.2446900	17.72499	.2198320	6.105927	.0386621	.0020258
#2	.2433562	17.91347	.2188167	6.083415	.0385815	.0016374
#3	.2465088	17.68926	.2187181	6.053198	.0386495	.0014654

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**521.4326**	**.0064699**	**.9545760**	**22.51925**	**.1418616**	**.0148925**
Stddev	5.6104	.0004684	.0028510	.22685	.0008330	.0002587
%RSD	1.075968	7.239579	.2986721	1.007370	.5871631	1.737263
#1	518.1732	.0059375	.9538824	22.43084	.1412375	.0146094
#2	527.9109	.0068183	.9577099	22.77700	.1428075	.0149516
#3	518.2136	.0066540	.9521358	22.34992	.1415399	.0151166

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1491-02 Acquired: 3/13/2025 14:35:46 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103281	.0462200	F 26.83775	7.436160	F 29.30218	.0212625
Stddev	.0002978	.0021708	.23627	.015635	.16020	.0014276
%RSD	2.883775	4.696630	.8803717	.2102566	.5467251	6.714085
#1	.0103410	.0463166	26.70667	7.437631	29.13410	.0197523
#2	.0100240	.0483409	27.11051	7.419842	29.31930	.0225898
#3	.0106192	.0440026	26.69608	7.451008	29.45313	.0214453

Elem	Sr4077
Units	ppm
Avg	.2846994
Stddev	.0004825
%RSD	.1694665
#1	.2843395
#2	.2852476
#3	.2845110

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3122.176	67758.89	14661.92	2006.860	4060.174
Stddev	18.174	325.18	50.37	4.696	19.041
%RSD	.5820827	.4799148	.3435697	.2340068	.4689592
#1	3133.593	67826.74	14608.24	2007.387	4072.366
#2	3131.717	67405.14	14708.17	2001.922	4069.923
#3	3101.219	68044.80	14669.34	2011.270	4038.233

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV03 Acquired: 3/13/2025 14:40:03 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.126470**	**4.970811**	**5.152736**	**5.055544**	**5.043876**	**10.10511**	**9.834531**
Stddev	.016724	.035254	.004956	.013263	.008251	.03682	.049718
%RSD	.3262274	.7092144	.0961789	.2623434	.1635899	.3643905	.5055499
#1	5.141992	4.980244	5.157747	5.063759	5.053394	10.11934	9.810358
#2	5.128659	5.000389	5.152623	5.062629	5.039487	10.06329	9.801521
#3	5.108760	4.931800	5.147837	5.040243	5.038747	10.13269	9.891713

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2606511**	**2.544894**	**25.10587**	**1.054834**	**2.523681**	**1.271320**	**4.994064**
Stddev	.0010399	.001874	.06095	.001067	.003544	.004353	.019329
%RSD	.3989703	.0736421	.2427693	.1011761	.1404469	.3424004	.3870374
#1	.2606640	2.546190	25.07330	1.055771	2.527411	1.275450	4.972534
#2	.2596048	2.545746	25.06813	1.053673	2.523273	1.271735	4.999733
#3	.2616845	2.542745	25.17619	1.055058	2.520358	1.266774	5.009924

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.489387**	**25.13083**	**2.525800**	**1.284368**	**24.66097**	**2.518699**	**2.558259**
Stddev	.004176	.13813	.000837	.002380	.09613	.004558	.014204
%RSD	.1677636	.5496554	.0331360	.1853366	.3898241	.1809642	.5552127
#1	2.487677	25.02750	2.526647	1.283338	24.61504	2.516022	2.542222
#2	2.486337	25.07726	2.525780	1.287090	24.77145	2.516113	2.563299
#3	2.494147	25.28772	2.524974	1.282677	24.59642	2.523962	2.569255

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.51121**	**5.176209**	**5.057925**	**5.128156**	**4.950249**	**5.229926**	**5.126132**
Stddev	.07087	.014737	.012788	.004865	.008322	.031841	.005949
%RSD	.2891185	.2846994	.2528357	.0948767	.1681054	.6088210	.1160586
#1	24.45189	5.180398	5.070372	5.122657	4.948519	5.196187	5.132381
#2	24.58969	5.159832	5.058582	5.129913	4.942929	5.234143	5.125478
#3	24.49207	5.188398	5.044821	5.131900	4.959300	5.259449	5.120536

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV03 Acquired: 3/13/2025 14:40:03 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.962142	4.894748	4.977557
Stddev	.006716	.004497	.060101
%RSD	.1353469	.0918754	1.207443
#1	4.968233	4.899417	5.014235
#2	4.963253	4.890445	4.908197
#3	4.954939	4.894384	5.010241

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3301.007	71608.58	14226.83	2080.837	4431.859
Stddev	13.339	95.17	43.92	9.641	11.228
%RSD	.4040764	.1329084	.3087176	.4633323	.2533547
#1	3287.903	71707.03	14214.52	2091.745	4420.607
#2	3300.549	71517.06	14275.59	2077.311	4431.905
#3	3314.568	71601.66	14190.38	2073.455	4443.064

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB03 Acquired: 3/13/2025 14:48:56 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001658**	**.0013600**	**.0012141**	**-.000501**	**.0011453**	**-.007618**	**.0019363**
Stddev	.0008228	.0011263	.0006843	.001557	.0013955	.002376	.0005118
%RSD	496.3993	82.81386	56.36568	310.4694	121.8414	31.19528	26.43000
#1	.0003859	.0014579	.0007712	-.000456	-.000053	-.006763	.0015872
#2	.0008562	.0001880	.0008688	.001032	.002677	-.005787	.0016979
#3	-.000745	.0024341	.0020023	-.002080	.000811	-.010304	.0025237

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000026**	**-.000018**	**.0007566**	**.0001030**	**.0001981**	**-.000295**	**.0023265**
Stddev	.000030	.000047	.0035801	.0005950	.0000240	.000388	.0045986
%RSD	113.5608	262.1158	473.2075	577.8874	12.12332	131.4773	197.6646
#1	-.000058	.000025	.0048458	-.000029	.0002213	.000058	.0033370
#2	.000000	-.000067	-.000763	-.000415	.0001733	-.000711	-.002693
#3	-.000020	-.000012	-.001813	.000753	.0001998	-.000234	.006336

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000826**	**-.002104**	**-.000164**	**-.000004**	**.0283374**	**-.000100**	**-.000541**
Stddev	.000306	.009214	.000270	.000142	.0138177	.001202	.000352
%RSD	37.02951	437.9268	164.4881	3206.668	48.76123	1202.657	65.09288
#1	-.000850	.003085	-.000428	.000098	.0162694	-.001468	-.000332
#2	-.001119	-.012742	.000111	.000055	.0253326	.000786	-.000947
#3	-.000508	.003346	-.000176	-.000166	.0434103	.000382	-.000343

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0694044**	**-.001161**	**.0000099**	**-.001782**	**.0006306**	**-.001752**	**-.004989**
Stddev	.0285602	.000872	.0004283	.000405	.0003406	.002186	.001155
%RSD	41.15047	75.13910	4343.723	22.74883	54.00036	124.8238	23.14235
#1	.0472697	-.001565	.0003475	-.001539	.0004906	-.003891	-.003802
#2	.0593003	-.001759	-.000472	-.001558	.0003825	-.001843	-.006108
#3	.1016431	-.000160	.000154	-.002250	.0010189	.000479	-.005058

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB03 Acquired: 3/13/2025 14:48:56 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0014915	.0021374	-.000033
Stddev	.0035392	.0007167	.000046
%RSD	237.2832	33.52970	139.6098
#1	-.002261	.0013587	.000012
#2	.001967	.0027693	-.000079
#3	.004769	.0022841	-.000032

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3488.731	76460.92	14533.91	2267.092	5043.760
Stddev	4.208	503.65	27.30	23.026	7.518
%RSD	.1206099	.6586979	.1878133	1.015649	.1490592
#1	3489.363	76135.65	14513.69	2247.246	5049.106
#2	3484.243	76206.05	14564.96	2261.692	5035.163
#3	3492.586	77041.06	14523.07	2292.337	5047.009

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1495-01 Acquired: 3/13/2025 14:53:16 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028093**	**-.000559**	**.0296287**	**-.003991**	**.0029265**	**1.564569**
Stddev	.0018712	.000701	.0006317	.003684	.0011408	.003843
%RSD	66.60643	125.4248	2.132104	92.30846	38.98355	.2456420
#1	.0048564	-.001076	.0303576	-.003653	.0030824	1.560760
#2	.0023841	-.000841	.0292887	-.000487	.0017157	1.564503
#3	.0011873	.000239	.0292397	-.007831	.0039813	1.568446

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1045823**	**.0002391**	**-.000305**	**125.0191**	**.0070898**	**.0046324**
Stddev	.0004092	.0000270	.000119	.3678	.0002368	.0002782
%RSD	.3912882	11.27580	38.97144	.2942194	3.340519	6.006345
#1	.1050156	.0002590	-.000265	124.6309	.0071269	.0043421
#2	.1042025	.0002499	-.000438	125.3625	.0073059	.0048967
#3	.1045288	.0002084	-.000211	125.0638	.0068366	.0046586

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0281154**	**16.33222**	**.4263904**	**11.11169**	**.0119325**	**.0004000**
Stddev	.0001377	.06843	.0025683	.05777	.0001637	.0003078
%RSD	.4896863	.4189704	.6023434	.5199241	1.372006	76.93188
#1	.0282296	16.25321	.4250613	11.08739	.0121116	.0001079
#2	.0279625	16.37271	.4293510	11.07004	.0118951	.0007214
#3	.0281541	16.37073	.4247590	11.17765	.0117907	.0003709

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1657.437**	**.0066959**	**.9328908**	**16.27108**	**.0748022**	**.0078919**
Stddev	36.575	.0015678	.0066060	.08865	.0010507	.0002883
%RSD	2.206692	23.41407	.7081164	.5448559	1.404626	3.653334
#1	1656.203	.0050870	.9260173	16.18042	.0746937	.0078509
#2	1694.614	.0082190	.9391920	16.27524	.0759029	.0081984
#3	1621.496	.0067816	.9334631	16.35758	.0738099	.0076262

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1495-01 Acquired: 3/13/2025 14:53:16 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003126	.0604466	8.498285	1.500801	F 37.48291	.0132556
Stddev	.001445	.0005683	.027648	.000394	.13716	.0007198
%RSD	46.22940	.9402224	.3253353	.0262198	.3659241	5.430129
#1	-.002983	.0607799	8.469043	1.501070	37.48985	.0124433
#2	-.001757	.0597904	8.501814	1.500350	37.34241	.0138143
#3	-.004637	.0607695	8.524000	1.500985	37.61647	.0135092

Elem	Sr4077
Units	ppm
Avg	.4295398
Stddev	.0014743
%RSD	.3432371
#1	.4279309
#2	.4308262
#3	.4298624

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2868.925	62785.69	13406.53	1893.259	3523.105
Stddev	11.663	263.63	59.36	10.351	13.328
%RSD	.4065171	.4198882	.4427378	.5467131	.3782892
#1	2882.382	63089.95	13461.29	1904.899	3538.475
#2	2861.759	62641.91	13343.45	1885.090	3514.754
#3	2862.633	62625.21	13414.85	1889.787	3516.086

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1495-02 Acquired: 3/13/2025 14:57:36 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0122959**	**-.000844**	**.0357608**	**.0000740**	**.0038783**	**2.105145**
Stddev	.0033969	.001792	.0009314	.0007215	.0009192	.003827
%RSD	27.62657	212.2351	2.604538	975.3671	23.69996	.1817992
#1	.0131618	-.002785	.0361522	-.000533	.0035007	2.107612
#2	.0085498	-.000495	.0346975	.000872	.0032081	2.107087
#3	.0151761	.000747	.0364326	-.000117	.0049262	2.100736

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1151388**	**.0002137**	**-.000578**	**126.1224**	**.0092225**	**.0046828**
Stddev	.0007234	.0000207	.000038	.2671	.0003106	.0003325
%RSD	.6282620	9.696922	6.556450	.2118095	3.368141	7.100093
#1	.1159655	.0001938	-.000621	126.4067	.0095084	.0050353
#2	.1146220	.0002122	-.000565	126.0841	.0092670	.0046384
#3	.1148289	.0002351	-.000549	125.8765	.0088920	.0043748

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0320797**	**19.46410**	**.4517459**	**12.43849**	**.0120632**	**.0006168**
Stddev	.0001592	.07338	.0015952	.07727	.0005034	.0003609
%RSD	.4962960	.3769864	.3531198	.6212013	4.172993	58.51229
#1	.0320901	19.38701	.4529573	12.49592	.0117715	.0010299
#2	.0319155	19.53310	.4523420	12.35064	.0117736	.0003628
#3	.0322334	19.47218	.4499385	12.46890	.0126445	.0004577

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1937.266**	**.0087028**	**1.002558**	**18.61596**	**.1050208**	**.0076124**
Stddev	21.719	.0014790	.002182	.18007	.0005076	.0001972
%RSD	1.121107	16.99486	.2176024	.9672829	.4833108	2.590545
#1	1936.490	.0082401	1.004072	18.41208	.1050700	.0073852
#2	1959.363	.0075104	1.000058	18.75327	.1055020	.0077139
#3	1915.946	.0103579	1.003544	18.68251	.1044904	.0077383

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1495-02 Acquired: 3/13/2025 14:57:36 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003499	.0838006	F 10.63061	1.599913	F 37.39093	.0302775
Stddev	.000131	.0007999	.04301	.001096	.08825	.0003858
%RSD	3.739784	.9544952	.4046065	.0685287	.2360264	1.274315
#1	-.003394	.0832219	10.58338	1.600373	37.32377	.0298385
#2	-.003456	.0847133	10.66753	1.600705	37.35814	.0305626
#3	-.003645	.0834666	10.64094	1.598662	37.49089	.0304316

Elem	Sr4077
Units	ppm
Avg	.4478318
Stddev	.0010610
%RSD	.2369222
#1	.4469626
#2	.4490141
#3	.4475186

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2828.556	60975.86	14034.08	1831.094	3467.773
Stddev	6.578	82.95	59.04	5.392	7.198
%RSD	.2325613	.1360438	.4206771	.2944471	.2075787
#1	2825.368	61045.74	13966.37	1829.774	3472.469
#2	2836.121	60884.19	14061.08	1837.023	3471.364
#3	2824.179	60997.66	14074.79	1826.486	3459.485

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-02 Acquired: 3/13/2025 15:01:56 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004578**	**-.005013**	**.0714577**	**.0021561**	**.0023522**	**.0132964**	**.2324696**
Stddev	.001451	.001268	.0015091	.0024146	.0014603	.0036066	.0009552
%RSD	31.69255	25.30014	2.111811	111.9882	62.08028	27.12488	.4108767
#1	-.006173	-.004487	.0720258	.0049414	.0011509	.0112894	.2324622
#2	-.004225	-.006459	.0697471	.0008736	.0019282	.0111398	.2315182
#3	-.003337	-.004092	.0726003	.0006534	.0039776	.0174601	.2334285

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000052**	**.0004785**	**32.04328**	**-.000246**	**.0053291**	**.0109426**	**1.732005**
Stddev	.0000342	.0000241	.03678	.000365	.0002772	.0003495	.007701
%RSD	659.7391	5.028867	.1147956	148.2693	5.200908	3.194153	.4446348
#1	.0000102	.0004636	32.04681	-.000625	.0050621	.0112864	1.724136
#2	.0000366	.0005062	32.07817	-.000217	.0053098	.0105876	1.739527
#3	-.000031	.0004656	32.00485	.000103	.0056154	.0109538	1.732352

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6480976**	**1.627854**	**.0065124**	**.0000347**	**331.8984**	**-.000196**	**.0864858**
Stddev	.0008293	.004527	.0002811	.0001681	1.6772	.000576	.0006519
%RSD	.1279629	.2780726	4.316049	483.9658	.5053260	293.7561	.7537962
#1	.6490065	1.626161	.0065322	.0000297	330.5174	-.000497	.0858929
#2	.6473820	1.624419	.0067830	.0002052	333.7647	-.000560	.0871840
#3	.6479043	1.632984	.0062219	-.000131	331.4131	.000468	.0863807

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.512600**	**.0134502**	**.0001087**	**-.001525**	**-.000062**	**.4940651**	**.0015834**
Stddev	.032342	.0008884	.0001038	.000707	.000671	.0033623	.0016291
%RSD	2.138145	6.605133	95.52902	46.35542	1081.136	.6805397	102.8845
#1	1.487707	.0144486	.0001220	-.001530	.000712	.4901826	.0032541
#2	1.549155	.0127468	-.000001	-.000816	-.000473	.4960007	-.000001
#3	1.500936	.0131552	.000205	-.002229	-.000425	.4960119	.001497

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-02 Acquired: 3/13/2025 15:01:56 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3680296	-.005208	.1033904
Stddev	.0015615	.000564	.0000979
%RSD	.4242721	10.82876	.0947237
#1	.3698211	-.005015	.1033108
#2	.3673106	-.004766	.1034998
#3	.3669573	-.005844	.1033607

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3193.767	70513.81	14879.07	2051.119	4241.819
Stddev	5.108	248.92	68.25	8.324	10.336
%RSD	.1599496	.3530056	.4586940	.4058149	.2436670
#1	3189.574	70687.21	14805.40	2058.914	4232.172
#2	3199.457	70228.59	14891.69	2042.351	4252.728
#3	3192.270	70625.63	14940.13	2052.091	4240.558

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-04 Acquired: 3/13/2025 15:06:22 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035037	-.003385	.0118611	.0025576	.0031378	.0142533	.1606181
Stddev	.0013300	.001250	.0021154	.0024590	.0017904	.0018371	.0007279
%RSD	37.95938	36.92751	17.83460	96.14691	57.05834	12.88874	.4532110
#1	.0024421	-.003749	.0099460	.0036851	.0044872	.0137408	.1598104
#2	.0030734	-.004412	.0141317	.0042507	.0011067	.0127269	.1612234
#3	.0049955	-.001993	.0115054	-.000263	.0038194	.0162922	.1608204

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000698	-.001455	106.6138	-.000116	.0029449	.0071916	23.12802
Stddev	.0000396	.000022	.2702	.000203	.0003583	.0002823	.26108
%RSD	56.76922	1.536324	.2534575	174.1378	12.16613	3.925377	1.128858
#1	.0001091	-.001460	106.4095	.000025	.0025312	.0072056	22.87450
#2	.0000298	-.001430	106.9202	-.000349	.0031483	.0074667	23.11351
#3	.0000705	-.001474	106.5116	-.000026	.0031552	.0069026	23.39606

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.284110	2.384083	.0261034	.0000154	394.4475	.0012343	.1855472
Stddev	.004782	.022585	.0003115	.0001334	3.7087	.0013818	.0023885
%RSD	.3724194	.9473152	1.193203	868.5825	.9402308	111.9473	1.287291
#1	1.278657	2.366298	.0259374	.0000666	390.4906	.0024988	.1835157
#2	1.286083	2.409493	.0259101	-.000136	395.0075	.0014448	.1849476
#3	1.287590	2.376457	.0264627	.000116	397.8443	-.000241	.1881785

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.718520	-.009482	.0025054	-.002484	-.001837	.8703134	.1661073
Stddev	.047830	.000242	.0001251	.000991	.000172	.0112010	.0043262
%RSD	2.783226	2.556673	4.993796	39.90561	9.336300	1.287008	2.604466
#1	1.673486	-.009427	.0025185	-.003576	-.001880	.8625942	.1676829
#2	1.713349	-.009747	.0026234	-.002239	-.001983	.8651856	.1612141
#3	1.768726	-.009272	.0023742	-.001639	-.001648	.8831604	.1694249

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-04 Acquired: 3/13/2025 15:06:22 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.513665	-.007338	.3821242
Stddev	.006518	.000983	.0012614
%RSD	.4305819	13.40078	.3300980
#1	1.517208	-.008321	.3807558
#2	1.506143	-.006355	.3832404
#3	1.517643	-.007338	.3823764

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3178.315	69948.17	15146.45	2041.311	4180.200
Stddev	1.551	615.29	42.59	14.155	7.994
%RSD	.0487931	.8796306	.2811719	.6934250	.1912448
#1	3176.695	70580.44	15160.62	2057.377	4175.002
#2	3179.786	69912.66	15098.59	2035.881	4189.406
#3	3178.465	69351.40	15180.16	2030.675	4176.192

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-06 Acquired: 3/13/2025 15:10:45 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004039**	**-.004715**	**.0053197**	**.0058133**	**.0015852**	**.5809411**	**.0920214**
Stddev	.001695	.001305	.0008828	.0031247	.0013793	.0053504	.0013734
%RSD	41.96342	27.68487	16.59406	53.75165	87.00985	.9209903	1.492465
#1	-.003366	-.003517	.0062964	.0033020	-.000005	.5791509	.0912354
#2	-.002783	-.004522	.0050841	.0093126	.002453	.5767153	.0936073
#3	-.005967	-.006106	.0045787	.0048252	.002308	.5869570	.0912216

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000522**	**.0002713**	**49.61003**	**.0014411**	**.0100419**	**.0054480**	**.4640984**
Stddev	.0000276	.0000642	.08473	.0003496	.0000587	.0001174	.0058281
%RSD	52.83395	23.64980	.1707964	24.26181	.5846442	2.154986	1.255799
#1	.0000609	.0002050	49.69567	.0013799	.0100133	.0055195	.4667873
#2	.0000743	.0002760	49.60818	.0011261	.0100030	.0055119	.4574112
#3	.0000213	.0003330	49.52624	.0018173	.0101094	.0053125	.4680966

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4160458**	**2.111096**	**.0124498**	**-.000100**	**342.0208**	**.0001634**	**.0716971**
Stddev	.0004440	.015841	.0001007	.000235	1.5886	.0015403	.0002623
%RSD	.1067319	.7503835	.8086942	235.7521	.4644601	942.3761	.3657865
#1	.4160710	2.116339	.0125573	-.000245	343.1068	-.001417	.0714050
#2	.4155897	2.123650	.0123577	.000172	342.7580	.000247	.0719122
#3	.4164767	2.093297	.0124345	-.000226	340.1976	.001661	.0717742

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.871789**	**.0082627**	**.0008314**	**-.001745**	**.0001487**	**1.949484**	**.0034246**
Stddev	.053788	.0008090	.0001115	.000700	.0008866	.008840	.0017782
%RSD	1.389237	9.790786	13.40832	40.08904	596.1598	.4534723	51.92432
#1	3.846162	.0078295	.0008888	-.002428	-.000384	1.939307	.0032167
#2	3.835606	.0091961	.0007029	-.001029	.001172	1.955252	.0017595
#3	3.933598	.0077627	.0009025	-.001779	-.000343	1.953895	.0052977

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-06 Acquired: 3/13/2025 15:10:45 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.772534	-.006150	.1480195
Stddev	.023425	.000721	.0004674
%RSD	.8448811	11.71783	.3157427
#1	2.790263	-.005769	.1483044
#2	2.781360	-.005700	.1474801
#3	2.745978	-.006981	.1482739

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3286.980	71436.19	14683.71	2117.710	4347.666
Stddev	15.326	405.58	27.29	5.732	15.420
%RSD	.4662501	.5677528	.1858519	.2706774	.3546718
#1	3280.154	71898.95	14685.67	2121.296	4339.338
#2	3276.252	71142.46	14655.50	2120.736	4338.201
#3	3304.532	71267.17	14709.97	2111.099	4365.459

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-06DUP Acquired: 3/13/2025 15:15:10 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005030**	**-.005086**	**.0041059**	**.0044715**	**.0012278**	**.5817619**	**.0941254**
Stddev	.002025	.000499	.0009047	.0027360	.0019694	.0023736	.0007580
%RSD	40.26584	9.807703	22.03313	61.18700	160.3910	.4080059	.8053152
#1	-.007152	-.005607	.0051427	.0019945	-.000496	.5805541	.0933962
#2	-.003118	-.004613	.0034771	.0040117	.000806	.5844965	.0949093
#3	-.004821	-.005040	.0036978	.0074082	.003374	.5802350	.0940706

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000018**	**.0002130**	**49.92114**	**.0017706**	**.0100460**	**.0052574**	**.4782506**
Stddev	.000037	.0000549	.04569	.0002279	.0002007	.0000771	.0057178
%RSD	209.0639	25.79064	.0915292	12.87195	1.997964	1.466199	1.195570
#1	-.000046	.0002591	49.87116	.0020242	.0098795	.0053213	.4841681
#2	.000024	.0001522	49.96078	.0015828	.0102688	.0051718	.4727559
#3	-.000031	.0002276	49.93146	.0017048	.0099895	.0052791	.4778277

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4158013**	**2.103612**	**.0123257**	**.0000578**	**348.5983**	**.0010768**	**.0709632**
Stddev	.0010579	.002075	.0002465	.0001190	4.3030	.0009530	.0006017
%RSD	.2544147	.0986514	2.000141	205.9068	1.234385	88.50505	.8479127
#1	.4145999	2.106006	.0124819	-.000067	352.5397	.0020254	.0708006
#2	.4165934	2.102311	.0120415	.000169	344.0075	.0001194	.0704594
#3	.4162105	2.102520	.0124538	.000071	349.2479	.0010855	.0716294

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.957639**	**.0077238**	**.0009055**	**-.001830**	**.0003030**	**1.979603**	**.0046700**
Stddev	.010313	.0004392	.0001079	.000763	.0002285	.009068	.0020880
%RSD	.2605747	5.686327	11.91557	41.66178	75.39275	.4580564	44.71067
#1	3.946388	.0073368	.0010300	-.001040	.0002097	1.969133	.0026093
#2	3.966642	.0076333	.0008405	-.002561	.0001360	1.984713	.0046164
#3	3.959888	.0082011	.0008460	-.001890	.0005634	1.984962	.0067842

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-06DUP Acquired: 3/13/2025 15:15:10 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.797062**	**-.005636**	**.1489866**
Stddev	.006273	.000089	.0001414
%RSD	.2242857	1.585411	.0948881
#1	2.795990	-.005678	.1489727
#2	2.803802	-.005533	.1491344
#3	2.791393	-.005696	.1488526

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3242.882**	**71794.71**	**15113.13**	**2111.266**	**4291.672**
Stddev	6.500	164.77	38.91	11.676	12.045
%RSD	.2004446	.2295029	.2574678	.5530275	.2806664
#1	3247.418	71865.94	15099.38	2106.071	4299.156
#2	3235.435	71911.89	15157.04	2124.638	4277.777
#3	3245.791	71606.31	15082.95	2103.089	4298.083

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-06LX5 Acquired: 3/13/2025 15:19:35 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001785**	**-.000186**	**.0027720**	**.0030138**	**.0000451**	**.1168033**	**.0204381**
Stddev	.001522	.001251	.0008075	.0022888	.0009431	.0031016	.0003601
%RSD	85.22053	670.8139	29.13041	75.94250	2093.058	2.655438	1.762006
#1	-.000629	.001161	.0036766	.0020895	.0010969	.1192978	.0206167
#2	-.001218	-.001311	.0021237	.0013318	-.000237	.1177816	.0200236
#3	-.003509	-.000409	.0025158	.0056202	-.000725	.1133304	.0206740

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000004**	**.0000481**	**10.52859**	**-.000141**	**.0020676**	**.0009622**	**.1023632**
Stddev	.000045	.0000479	.01496	.000146	.0001938	.0002588	.0077155
%RSD	1182.179	99.59408	.1420609	103.2877	9.374796	26.89565	7.537343
#1	-.000054	.0000505	10.54183	.000023	.0021405	.0006649	.1112470
#2	.000013	.0000948	10.53157	-.000256	.0022145	.0011373	.0985020
#3	.000030	-.000001	10.51236	-.000191	.0018479	.0010843	.0973406

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0865388**	**.4494563**	**.0025074**	**.0002613**	**70.10296**	**.0008696**	**.0144905**
Stddev	.0005911	.0224779	.0000782	.0002688	.36032	.0008134	.0001569
%RSD	.6830216	5.001129	3.117333	102.8674	.5139838	93.54318	1.082911
#1	.0860943	.4433029	.0025544	.0005513	70.47400	.0014675	.0143097
#2	.0872096	.4743700	.0024172	.0002122	70.08044	.0011980	.0145712
#3	.0863126	.4306959	.0025506	.0000205	69.75442	-.000057	.0145907

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9229913**	**-.002167**	**.0001984**	**-.000879**	**.0009079**	**.4031569**	**-.003909**
Stddev	.0135743	.000916	.0004771	.000674	.0003438	.0022866	.001800
%RSD	1.470689	42.27848	240.5206	76.62285	37.86677	.5671843	46.03825
#1	.9084210	-.002674	.0007429	-.000110	.0009416	.4012300	-.003787
#2	.9252723	-.001110	-.000146	-.001365	.0012335	.4025570	-.002173
#3	.9352807	-.002719	-.000002	-.001162	.0005485	.4056837	-.005766

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-06LX5 Acquired: 3/13/2025 15:19:35 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5625482	.0084457	.0311720
Stddev	.0040943	.0012093	.0000794
%RSD	.7278136	14.31840	.2547820
#1	.5615918	.0073657	.0311042
#2	.5670360	.0082192	.0312594
#3	.5590167	.0097523	.0311526

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3388.565	73470.54	14950.58	2152.853	4638.614
Stddev	17.469	173.64	42.99	2.319	21.747
%RSD	.5155229	.2363365	.2875806	.1077008	.4688175
#1	3383.085	73287.35	14990.76	2155.353	4632.028
#2	3374.493	73491.56	14905.24	2150.773	4620.922
#3	3408.117	73632.71	14955.74	2152.432	4662.893

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-06MS Acquired: 3/13/2025 15:23:53 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7804302	1.730179	.9272565	1.889482	.7795168	2.436797	.2652758
Stddev	.0018125	.003992	.0016138	.002052	.0023635	.008376	.0002559
%RSD	.2322440	.2307142	.1740432	.1086085	.3031996	.3437143	.0964802
#1	.7795925	1.731928	.9257602	1.890720	.7811081	2.441009	.2654554
#2	.7791880	1.732998	.9270427	1.887113	.7768010	2.442231	.2653892
#3	.7825100	1.725611	.9289665	1.890612	.7806414	2.427151	.2649827

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1905308	.1929533	48.43389	.4061525	.2026169	.2862139	3.337223
Stddev	.0008906	.0005878	.12502	.0011666	.0001918	.0004855	.001739
%RSD	.4674189	.3046164	.2581235	.2872250	.0946568	.1696212	.0521067
#1	.1914063	.1923017	48.52603	.4073750	.2027799	.2859104	3.337161
#2	.1896259	.1931147	48.29158	.4060311	.2026653	.2859576	3.335516
#3	.1905602	.1934435	48.48407	.4050514	.2024056	.2867739	3.338992

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5838534	3.836374	.4912973	.0731554	328.2641	.2869665	.2643026
Stddev	.0011114	.019000	.0005757	.0004896	.5525	.0007487	.0015836
%RSD	.1903514	.4952481	.1171709	.6692651	.1683139	.2608895	.5991472
#1	.5850706	3.857646	.4911158	.0729843	328.8439	.2876222	.2626766
#2	.5828927	3.830386	.4908343	.0737075	327.7437	.2871265	.2658399
#3	.5835970	3.821090	.4919419	.0727742	328.2047	.2861507	.2643912

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.58817	.2619812	.4071497	.6858066	.1890663	2.653698	6.091044
Stddev	.11050	.0007644	.0010610	.0013305	.0004210	.008393	.012889
%RSD	.8132143	.2917941	.2605787	.1940048	.2226742	.3162769	.2115992
#1	13.52248	.2627694	.4074431	.6857770	.1894510	2.654400	6.076344
#2	13.71574	.2612429	.4059730	.6844913	.1891313	2.661719	6.100405
#3	13.52628	.2619313	.4080331	.6871517	.1886165	2.644977	6.096384

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-06MS Acquired: 3/13/2025 15:23:53 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.649881	.1862554	.3272102
Stddev	.007413	.0011429	.0008501
%RSD	.2797403	.6136116	.2598148
#1	2.641825	.1859216	.3276948
#2	2.651404	.1853166	.3277072
#3	2.656414	.1875281	.3262285

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3260.289	71860.51	14785.24	2093.774	4312.556
Stddev	5.040	117.81	89.12	5.641	2.861
%RSD	.1545890	.1639472	.6027689	.2693967	.0663486
#1	3256.863	71756.50	14692.58	2093.506	4315.158
#2	3266.076	71836.59	14870.34	2088.272	4313.018
#3	3257.927	71988.45	14792.80	2099.544	4309.492

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-06MSD Acquired: 3/13/2025 15:28:04 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7724737	1.721494	.9234760	1.866246	.7695921	2.434717	.2702220
Stddev	.0046027	.013638	.0030787	.000892	.0026200	.007103	.0013353
%RSD	.5958369	.7921987	.3333826	.0477927	.3404366	.2917508	.4941399
#1	.7719531	1.736485	.9224529	1.866388	.7667736	2.426543	.2694394
#2	.7681534	1.709822	.9269360	1.867059	.7700492	2.438220	.2694628
#3	.7773145	1.718174	.9210391	1.865292	.7719534	2.439389	.2717638

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1904116	.1924568	48.93951	.3987480	.2025084	.2847203	3.333020
Stddev	.0009668	.0001773	.10236	.0008682	.0000722	.0003508	.043262
%RSD	.5077457	.0921117	.2091624	.2177187	.0356633	.1232185	1.297990
#1	.1901130	.1924359	48.89340	.3996642	.2024746	.2846987	3.362490
#2	.1914924	.1926435	48.86832	.3986422	.2025913	.2843807	3.283353
#3	.1896292	.1922908	49.05682	.3979376	.2024592	.2850814	3.353219

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5865223	3.886410	.4922949	.0724170	326.2331	.2883838	.2640458
Stddev	.0008394	.001275	.0001348	.0005610	2.9043	.0032292	.0001058
%RSD	.1431140	.0327986	.0273737	.7746656	.8902392	1.119740	.0400777
#1	.5868199	3.887695	.4921413	.0729005	329.3540	.2913380	.2639845
#2	.5855747	3.886388	.4923500	.0718020	323.6098	.2849364	.2639849
#3	.5871724	3.885146	.4923933	.0725487	325.7354	.2888770	.2641680

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.52300	.2610451	.4053797	.6801866	.1893150	2.637958	6.075285
Stddev	.08785	.0018397	.0007732	.0009406	.0015728	.024281	.012904
%RSD	.6496396	.7047534	.1907460	.1382850	.8308013	.9204382	.2124048
#1	13.55069	.2619859	.4056883	.6801751	.1877044	2.640863	6.062147
#2	13.42465	.2622240	.4044999	.6811329	.1893936	2.612355	6.075767
#3	13.59368	.2589252	.4059511	.6792518	.1908471	2.660656	6.087942

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-06MSD Acquired: 3/13/2025 15:28:04 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.634810	.1865116	.3296714
Stddev	.005716	.0009141	.0017708
%RSD	.2169436	.4900840	.5371419
#1	2.630129	.1857319	.3290423
#2	2.641180	.1862853	.3283010
#3	2.633120	.1875176	.3316708

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3276.408	72716.01	14817.03	2112.725	4329.283
Stddev	14.423	70.89	49.89	.971	13.898
%RSD	.4401988	.0974835	.3367069	.0459735	.3210254
#1	3281.988	72634.28	14831.54	2111.713	4338.691
#2	3287.206	72752.96	14761.49	2112.812	4335.839
#3	3260.028	72760.78	14858.05	2113.650	4313.320

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-06A Acquired: 3/13/2025 15:34:12 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7499624**	**1.709394**	**.9078414**	**1.805325**	**.7456657**	**2.376367**	**.2705274**
Stddev	.0046870	.004597	.0041664	.001817	.0021134	.010608	.0021938
%RSD	.6249718	.2689223	.4589296	.1006328	.2834305	.4464076	.8109490
#1	.7490135	1.711285	.9030333	1.805119	.7460052	2.386708	.2702888
#2	.7458224	1.712743	.9103891	1.803621	.7434031	2.365510	.2684626
#3	.7550513	1.704153	.9101017	1.807237	.7475889	2.376883	.2728307

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1876342**	**.1890401**	**49.34821**	**.3934792**	**.1992244**	**.2790634**	**3.374739**
Stddev	.0017355	.0004420	.30179	.0026723	.0006010	.0003679	.008383
%RSD	.9249161	.2338033	.6115561	.6791418	.3016672	.1318151	.2483963
#1	.1882272	.1885457	49.52320	.3910733	.1987288	.2794545	3.366701
#2	.1856799	.1891778	48.99974	.3963554	.1990516	.2787244	3.383429
#3	.1889954	.1893969	49.52170	.3930088	.1998929	.2790112	3.374086

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5880190**	**3.893717**	**.4836737**	**.0721976**	**331.5176**	**.2828587**	**.2618996**
Stddev	.0057273	.027728	.0005398	.0003476	4.4646	.0018905	.0022228
%RSD	.9740006	.7121317	.1115982	.4814022	1.346714	.6683547	.8487111
#1	.5907735	3.889747	.4830648	.0725728	326.3624	.2816548	.2594540
#2	.5814348	3.868188	.4838630	.0721333	334.0808	.2818837	.2624479
#3	.5918485	3.923217	.4840934	.0718867	334.1096	.2850377	.2637969

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.79556**	**.2556529**	**.3952683**	**.6680152**	**.1856055**	**2.714436**	**6.030371**
Stddev	.10428	.0028033	.0011155	.0013590	.0010876	.029632	.001222
%RSD	.7558803	1.096509	.2822168	.2034447	.5859869	1.091658	.0202717
#1	13.81491	.2567429	.3940136	.6670137	.1866581	2.707893	6.031021
#2	13.88880	.2524684	.3956432	.6674697	.1844860	2.746793	6.028961
#3	13.68296	.2577475	.3961480	.6695623	.1856725	2.688623	6.031131

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-06A Acquired: 3/13/2025 15:34:12 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.649599	.1838931	.3280281
Stddev	.001202	.0003052	.0017779
%RSD	.0453738	.1659846	.5419923
#1	2.648645	.1839523	.3295381
#2	2.650949	.1835626	.3260686
#3	2.649203	.1841644	.3284776

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3284.126	70909.79	14855.62	2106.864	4327.412
Stddev	2.010	313.90	106.53	10.582	5.380
%RSD	.0612054	.4426780	.7170840	.5022457	.1243196
#1	3282.528	71103.43	14805.92	2117.182	4333.600
#2	3286.383	70547.62	14977.91	2096.037	4323.849
#3	3283.467	71078.32	14783.02	2107.371	4324.785

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV04 Acquired: 3/13/2025 15:38:23 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.953134**	**4.900976**	**5.049714**	**4.834008**	**4.843170**	**9.835349**	**9.580135**
Stddev	.009248	.030669	.011885	.018443	.012416	.007161	.047919
%RSD	.1867104	.6257732	.2353649	.3815290	.2563658	.0728132	.5001878
#1	4.942839	4.904941	5.041855	4.817592	4.828961	9.843199	9.620030
#2	4.955823	4.929469	5.043901	4.853965	4.848621	9.833673	9.593392
#3	4.960740	4.868517	5.063387	4.830465	4.851929	9.829173	9.526984

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2605563**	**2.505113**	**24.85450**	**1.029689**	**2.478255**	**1.237044**	**4.775820**
Stddev	.0013768	.003743	.05217	.003007	.003065	.001692	.035807
%RSD	.5284118	.1494033	.2099170	.2920414	.1236693	.1367527	.7497642
#1	.2589683	2.501646	24.87338	1.030604	2.474756	1.235101	4.788555
#2	.2612855	2.504611	24.89461	1.032133	2.479543	1.237837	4.803520
#3	.2614153	2.509081	24.79552	1.026331	2.480466	1.238193	4.735386

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.442503**	**25.28890**	**2.484190**	**1.238841**	**22.89023**	**2.473015**	**2.463581**
Stddev	.004715	.03623	.002800	.003177	.27213	.006588	.017794
%RSD	.1930509	.1432686	.1127298	.2564429	1.188855	.2663766	.7222744
#1	2.447827	25.31105	2.481251	1.241669	23.16549	2.478068	2.463533
#2	2.440829	25.30856	2.486828	1.239451	22.88387	2.475412	2.481398
#3	2.438854	25.24709	2.484490	1.235404	22.62134	2.465564	2.445811

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.19952**	**5.088390**	**4.940829**	**5.021722**	**4.834026**	**4.895015**	**5.094659**
Stddev	.18442	.027931	.009455	.008473	.016304	.033994	.001981
%RSD	.7949288	.5489106	.1913682	.1687246	.3372669	.6944655	.0388897
#1	23.36786	5.058213	4.930545	5.014711	4.837422	4.907655	5.094222
#2	23.22829	5.093621	4.949146	5.019317	4.848365	4.920879	5.092933
#3	23.00240	5.113335	4.942797	5.031137	4.816293	4.856512	5.096822

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV04 Acquired: 3/13/2025 15:38:23 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.817787**	**4.708914**	**4.822578**
Stddev	.005179	.017357	.054153
%RSD	.1074993	.3686025	1.122903
#1	4.814526	4.717607	4.764268
#2	4.823759	4.720207	4.871290
#3	4.815077	4.688928	4.832176

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3319.370**	**72481.55**	**13945.02**	**2123.897**	**4436.674**
Stddev	2.676	300.95	69.02	17.007	1.709
%RSD	.0806109	.4152059	.4949661	.8007429	.0385142
#1	3322.417	72358.48	14022.92	2118.174	4437.860
#2	3318.288	72261.63	13891.47	2110.491	4437.447
#3	3317.405	72824.52	13920.67	2143.028	4434.716

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB04 Acquired: 3/13/2025 15:42:34 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001355**	**.0012275**	**.0007031**	**.0021333**	**.0015807**	**-.003407**	**.0032630**
Stddev	.004051	.0022518	.0003529	.0016399	.0012109	.003704	.0014101
%RSD	298.9790	183.4469	50.19594	76.87167	76.60629	108.7017	43.21553
#1	-.002145	.0027254	.0004641	.0009513	.0008751	-.002198	.0016449
#2	.003033	.0023192	.0005367	.0014431	.0008881	-.000459	.0039152
#3	-.004953	-.001362	.0011085	.0040055	.0029789	-.007564	.0042291

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000018**	**-.000012**	**.0027084**	**-.000326**	**-.000031**	**.0000729**	**.0013070**
Stddev	.000059	.000095	.0083562	.000425	.000116	.0002046	.0036439
%RSD	328.6865	767.5260	308.5269	130.3947	376.7975	280.5047	278.7879
#1	-.000061	-.000085	.0087930	-.000283	-.000137	.0002572	.0055125
#2	.000050	-.000047	-.006819	-.000771	.000092	.0001087	-.000912
#3	-.000043	.000095	.006151	.000076	-.000047	-.000147	-.000679

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000717**	**-.001034**	**-.000137**	**.0003440**	**.1421872**	**.0004991**	**-.000424**
Stddev	.000141	.021073	.000167	.0002373	.0225467	.0016180	.000075
%RSD	19.59291	2038.552	122.0264	68.97876	15.85703	324.1999	17.61016
#1	-.000663	-.023899	-.000310	.0002590	.1520820	-.000285	-.000497
#2	-.000877	.003189	-.000122	.0001609	.1163850	.002360	-.000429
#3	-.000612	.017609	.000022	.0006121	.1580945	-.000577	-.000348

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2509570**	**.0011407**	**.0002206**	**-.000735**	**.0016583**	**.0054170**	**-.004384**
Stddev	.0424274	.0004856	.0001298	.000377	.0006996	.0027204	.002108
%RSD	16.90623	42.57522	58.85168	51.29503	42.18979	50.22011	48.08309
#1	.2048649	.0016625	.0001069	-.000773	.0009126	.0031233	-.005169
#2	.2883808	.0007020	.0003621	-.000341	.0017621	.0084226	-.001996
#3	.2596251	.0010574	.0001928	-.001092	.0023002	.0047051	-.005987

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB04 Acquired: 3/13/2025 15:42:34 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0020855	.0056720	.0000080
Stddev	.0013502	.0007023	.0000500
%RSD	64.74149	12.38166	623.0690
#1	.0008669	.0049953	-.000049
#2	.0018526	.0063974	.000028
#3	.0035369	.0056235	.000045

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3437.065	74491.32	14388.80	2196.861	4973.012
Stddev	9.298	241.90	98.51	4.022	7.011
%RSD	.2705265	.3247343	.6846281	.1830936	.1409787
#1	3447.792	74226.65	14406.59	2192.401	4980.657
#2	3432.092	74546.35	14477.20	2200.215	4966.884
#3	3431.311	74700.96	14282.61	2197.968	4971.493

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-08 Acquired: 3/13/2025 15:46:53 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0298909**	**-.020228**	**.2697779**	**-.038248**	**-.003011**	**89.46560**
Stddev	.0023721	.002777	.0012868	.003540	.002265	.06075
%RSD	7.935869	13.73054	.4769762	9.255210	75.20902	.0679031
#1	.0324097	-.017956	.2683339	-.037505	-.003312	89.41118
#2	.0295635	-.019404	.2708031	-.035139	-.005110	89.53114
#3	.0276996	-.023324	.2701967	-.042101	-.000611	89.45448

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5776208**	**.0067597**	**.0032081**	**553.1516**	**.3160188**	**.1499773**
Stddev	.0011376	.0000393	.0001133	2.6141	.0013620	.0002836
%RSD	.1969496	.5810533	3.530661	.4725886	.4309828	.1891068
#1	.5778262	.0067510	.0031650	550.3796	.3161760	.1501878
#2	.5763944	.0068027	.0031227	553.5027	.3172953	.1496548
#3	.5786416	.0067256	.0033365	555.5724	.3145850	.1500894

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4393173**	**178.4306**	**5.850603**	**80.97139**	**.2503685**	**-.001899**
Stddev	.0008693	.6479	.011148	.63271	.0012545	.000278
%RSD	.1978746	.3631061	.1905461	.7814000	.5010707	14.62910
#1	.4389847	179.1301	5.837752	80.24481	.2502462	-.002103
#2	.4386635	178.3105	5.857683	81.26846	.2491796	-.001583
#3	.4403039	177.8511	5.856374	81.40089	.2516797	-.002010

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**805.1249**	**.2432429**	**.5181336**	**72.35626**	**-.135766**	**.0708977**
Stddev	10.8512	.0009131	.0015158	.57143	.004230	.0006541
%RSD	1.347760	.3753861	.2925566	.7897481	3.115449	.9226284
#1	792.6452	.2421977	.5198551	72.96965	-.131240	.0706824
#2	810.3948	.2436450	.5169990	72.26019	-.136438	.0703783
#3	812.3347	.2438859	.5175467	71.83896	-.139619	.0716323

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-08 Acquired: 3/13/2025 15:46:53 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000377	7.984031	F 79.88794	4.457025	F 267.2164	.0956745
Stddev	.000782	.009226	.24552	.016528	.8002	.0010523
%RSD	207.2296	.1155592	.3073325	.3708198	.2994451	1.099841
#1	-.001014	7.973468	80.13918	4.451523	267.8537	.0968876
#2	.000496	7.988110	79.87607	4.443950	266.3184	.0951286
#3	-.000614	7.990515	79.64857	4.475601	267.4770	.0950074

Elem	Sr4077
Units	ppm
Avg	2.238609
Stddev	.012761
%RSD	.5700403
#1	2.226496
#2	2.237397
#3	2.251932

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3440.486	76401.41	16320.48	2214.251	3508.898
Stddev	3.105	124.17	99.61	5.781	4.123
%RSD	.0902349	.1625175	.6103105	.2610625	.1174985
#1	3440.593	76349.22	16433.72	2207.580	3510.600
#2	3443.536	76311.85	16281.30	2217.785	3511.897
#3	3437.330	76543.15	16246.42	2217.387	3504.196

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-09 Acquired: 3/13/2025 15:51:23 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003184**	**-.002713**	**.0014289**	**.0019771**	**.0021856**	**.0098577**	**.0013232**
Stddev	.001843	.001001	.0009563	.0010928	.0012053	.0025777	.0010122
%RSD	57.89168	36.90088	66.92296	55.27530	55.14599	26.14869	76.49287
#1	-.004465	-.003751	.0006975	.0028958	.0013298	.0101965	.0024291
#2	-.004015	-.002635	.0025110	.0007686	.0035640	.0122492	.0004427
#3	-.001071	-.001753	.0010782	.0022668	.0016630	.0071274	.0010979

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000178**	**-.000086**	**.1154372**	**.0002640**	**-.000286**	**.0002708**	**.0467276**
Stddev	.000031	.000023	.0072757	.0004818	.000107	.0002235	.0017964
%RSD	17.14834	26.57647	6.302711	182.5310	37.23821	82.53874	3.844502
#1	-.000167	-.000090	.1108948	.0001316	-.000195	.0000761	.0483996
#2	-.000155	-.000062	.1238289	-.000138	-.000259	.0005149	.0448283
#3	-.000213	-.000107	.1115880	.000798	-.000403	.0002214	.0469549

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030684**	**.0053782**	**.0001827**	**.0000782**	**.3511492**	**-.000329**	**.0096047**
Stddev	.0003982	.0188098	.0004483	.0000856	.0100021	.001302	.0000880
%RSD	12.97613	349.7430	245.3819	109.3460	2.848392	396.4565	.9160392
#1	.0026726	-.009125	.0003832	-.000020	.3411893	-.001217	.0095132
#2	.0034689	-.001373	.0004958	.000131	.3611929	.001167	.0096886
#3	.0030637	.026632	-.000331	.000124	.3510653	-.000935	.0096122

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000972**	**-.003720**	**.0009893**	**-.001346**	**.0015653**	**.0773578**	**.0023141**
Stddev	.008813	.000980	.0001908	.000196	.0002632	.0093994	.0027849
%RSD	906.2976	26.33277	19.29059	14.56819	16.81855	12.15051	120.3466
#1	.009204	-.004394	.0011705	-.001249	.0017760	.0851335	.0048703
#2	-.006033	-.002596	.0010073	-.001217	.0012702	.0800275	-.000654
#3	-.006088	-.004170	.0007901	-.001572	.0016496	.0669123	.002726

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-09 Acquired: 3/13/2025 15:51:23 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0342528	-.001733	.0002198
Stddev	.0028623	.001617	.0000672
%RSD	8.356258	93.30647	30.59150
#1	.0375526	-.003064	.0002975
#2	.0327645	.000066	.0001808
#3	.0324413	-.002200	.0001812

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3527.736	78665.98	14684.26	2286.032	5146.973
Stddev	10.168	141.63	13.16	2.894	15.849
%RSD	.2882272	.1800424	.0896097	.1265969	.3079271
#1	3536.947	78538.48	14672.76	2282.795	5159.738
#2	3529.435	78818.43	14681.42	2288.370	5151.949
#3	3516.825	78641.02	14698.61	2286.930	5129.234

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-01 Acquired: 3/13/2025 15:55:42 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0871207**	**-.005467**	**23.18623**	**-.060182**	**-.002484**	**123.5938**
Stddev	.0045947	.003959	.06284	.001985	.001470	.8630
%RSD	5.273964	72.42764	.2710147	3.298321	59.20093	.6982754
#1	.0920172	-.008524	23.16857	-.058743	-.003720	122.7979
#2	.0864415	-.000994	23.13411	-.059356	-.002874	123.4725
#3	.0829034	-.006882	23.25601	-.062446	-.000858	124.5111

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.208045**	**.0099988**	**.0009029**	**358.6861**	**.4275815**	**.1924679**
Stddev	.017001	.0001030	.0002183	3.7065	.0008877	.0009714
%RSD	.7699379	1.029912	24.18086	1.033357	.2075995	.5047217
#1	2.190181	.0098859	.0006523	354.4064	.4265868	.1917864
#2	2.209928	.0100226	.0010045	360.7877	.4282930	.1920370
#3	2.224025	.0100877	.0010520	360.8642	.4278648	.1935802

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.414645**	**372.3224**	**5.000391**	**72.16003**	**.4548137**	**-.001188**
Stddev	.003843	2.0452	.042594	.53553	.0013346	.000583
%RSD	.2716306	.5493024	.8518160	.7421430	.2934278	49.04365
#1	1.417279	374.3897	4.953989	71.67975	.4550472	-.001124
#2	1.410236	370.3001	5.009470	72.06284	.4533779	-.001801
#3	1.416420	372.2774	5.037714	72.73750	.4560161	-.000641

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.415483**	**.5315693**	**3.078248**	**26.92045**	**-.103160**	**.0112221**
Stddev	.008404	.0035877	.006968	.16928	.020239	.0004650
%RSD	.1309928	.6749247	.2263487	.6288200	19.61919	4.143892
#1	6.419862	.5274758	3.073088	27.11380	-.080276	.0114272
#2	6.420794	.5330649	3.075483	26.79892	-.118709	.0115494
#3	6.405795	.5341673	3.086174	26.84864	-.110495	.0106898

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-01 Acquired: 3/13/2025 15:55:42 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5899327	9.023982	8.506568	F 10.58503	F 23.22771	.2956579
Stddev	.0017763	.072181	.060714	.04987	.07095	.0011157
%RSD	.3010988	.7998832	.7137267	.4711637	.3054584	.3773560
#1	.5885253	8.954675	8.567133	10.56405	23.20940	.2951274
#2	.5893443	9.018541	8.445707	10.54909	23.16770	.2949065
#3	.5919286	9.098729	8.506863	10.64197	23.30601	.2969399

Elem	Sr4077
Units	ppm
Avg	.8930109
Stddev	.0059547
%RSD	.6668135
#1	.8869061
#2	.8933235
#3	.8988032

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3575.614	78638.36	16443.87	2313.791	3920.439
Stddev	8.707	256.35	155.43	11.692	6.150
%RSD	.2434968	.3259876	.9452131	.5053155	.1568656
#1	3569.192	78344.24	16619.91	2303.250	3918.789
#2	3585.524	78814.38	16386.09	2326.367	3927.246
#3	3572.127	78756.45	16325.60	2311.757	3915.283

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-03 Acquired: 3/13/2025 15:59:54 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0391543**	**.0053854**	**.3593858**	**-.029138**	**-.000975**	**61.22313**
Stddev	.0059857	.0014364	.0014841	.002340	.002075	.08229
%RSD	15.28756	26.67264	.4129568	8.029839	212.7173	.1344046
#1	.0362396	.0067847	.3583622	-.031502	-.002041	61.24313
#2	.0460391	.0039145	.3587074	-.026823	-.002301	61.13268
#3	.0351841	.0054570	.3610879	-.029088	.001416	61.29357

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3513439**	**.0071857**	**-.004562**	**17.08973**	**.1202755**	**.1007960**
Stddev	.0019515	.0000525	.000254	.05923	.0009228	.0007926
%RSD	.5554354	.7312165	5.569917	.3465924	.7672520	.7863131
#1	.3505937	.0071261	-.004854	17.12127	.1204901	.1003319
#2	.3498788	.0072058	-.004441	17.02140	.1192643	.1003450
#3	.3535591	.0072252	-.004391	17.12651	.1210721	.1017112

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2423933**	**204.9785**	**1.059864**	**20.46842**	**.1789276**	**-.000597**
Stddev	.0019772	1.1204	.004136	.05167	.0005934	.000130
%RSD	.8156856	.5466082	.3902408	.2524280	.3316620	21.70344
#1	.2406851	204.7676	1.061972	20.46332	.1788084	-.000559
#2	.2419357	203.9786	1.055098	20.41950	.1784029	-.000491
#3	.2445592	206.1894	1.062521	20.52246	.1795717	-.000742

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9641644**	**.2153836**	**.7584826**	**5.896874**	**-.320959**	**.0062851**
Stddev	.0113343	.0011653	.0064006	.050076	.005065	.0000585
%RSD	1.175561	.5410279	.8438703	.8491888	1.578175	.9310184
#1	.9552753	.2140393	.7548454	5.845479	-.322491	.0062241
#2	.9602900	.2160049	.7547294	5.899627	-.315305	.0062905
#3	.9769279	.2161066	.7658731	5.945516	-.325082	.0063408

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-03 Acquired: 3/13/2025 15:59:54 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0143507	2.655818	7.824181	5.758984	F 31.05426	.1876076
Stddev	.0012651	.008918	.012258	.035959	.22247	.0007490
%RSD	8.815803	.3357945	.1566702	.6243957	.7163814	.3992404
#1	.0141597	2.654828	7.819531	5.734672	30.87143	.1879770
#2	.0157005	2.647435	7.814929	5.741989	30.98940	.1867457
#3	.0131920	2.665189	7.838084	5.800290	31.30194	.1881002

Elem	Sr4077
Units	ppm
Avg	.1115827
Stddev	.0004672
%RSD	.4187153
#1	.1114456
#2	.1111994
#3	.1121032

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3893.580	84713.78	16737.34	2494.005	4544.070
Stddev	21.552	270.54	53.32	17.608	21.014
%RSD	.5535172	.3193622	.3185709	.7060275	.4624393
#1	3907.279	84703.17	16712.49	2497.379	4558.955
#2	3904.724	84989.47	16798.55	2509.682	4553.223
#3	3868.738	84448.70	16700.98	2474.953	4520.033

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-05 Acquired: 3/13/2025 16:03:57 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0489500**	**-.037252**	**.3476853**	**-.050068**	**-.011717**	**126.7863**
Stddev	.0016375	.004002	.0016286	.001458	.000437	.3073
%RSD	3.345205	10.74323	.4684208	2.911487	3.725822	.2424016
#1	.0506848	-.040916	.3459345	-.050949	-.012146	126.5164
#2	.0474313	-.032982	.3491552	-.048386	-.011730	126.7217
#3	.0487338	-.037859	.3479664	-.050870	-.011274	127.1208

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6460608**	**.0101261**	**.0144804**	**131.9033**	**.5792010**	**.2226921**
Stddev	.0008907	.0002004	.0007311	.2169	.0020544	.0013444
%RSD	.1378666	1.979214	5.048802	.1644256	.3546954	.6036836
#1	.6464800	.0101951	.0141286	131.9835	.5789752	.2213021
#2	.6466646	.0099003	.0139918	131.6578	.5813590	.2227884
#3	.6450379	.0102830	.0153209	132.0687	.5772689	.2239856

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7632026**	**293.3684**	**2.858104**	**94.94989**	**.3894334**	**-.005047**
Stddev	.0023512	1.4437	.004286	.38366	.0013867	.000292
%RSD	.3080674	.4921093	.1499548	.4040670	.3560902	5.787344
#1	.7615192	293.5977	2.855332	94.89657	.3893056	-.004725
#2	.7621997	294.6837	2.863041	94.59568	.3881151	-.005122
#3	.7658889	291.8238	2.855940	95.35743	.3908797	-.005294

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.926508**	**.3924544**	**.6317177**	**36.91144**	**-.507695**	**.0430183**
Stddev	.048633	.0025149	.0026922	.28769	.007135	.0001335
%RSD	1.238594	.6408056	.4261656	.7794169	1.405331	.3102577
#1	3.940802	.3930853	.6287315	36.91401	-.510747	.0429063
#2	3.966393	.3896842	.6339590	37.19785	-.499542	.0429826
#3	3.872330	.3945938	.6324624	36.62248	-.512796	.0431659

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-05 Acquired: 3/13/2025 16:03:57 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062598	F 12.80620	9.933228	F 12.45244	F 19.11150	.2549414
Stddev	.0008536	.01048	.022092	.06878	.11545	.0008450
%RSD	13.63531	.0818341	.2224095	.5523099	.6040925	.3314337
#1	.0071960	12.79585	9.917959	12.45820	19.12086	.2540457
#2	.0055248	12.80594	9.958560	12.38097	18.99165	.2557244
#3	.0060586	12.81681	9.923164	12.51816	19.22198	.2550541

Elem	Sr4077
Units	ppm
Avg	.2675729
Stddev	.0005621
%RSD	.2100656
#1	.2674106
#2	.2681983
#3	.2671098

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4464.365	100558.1	20172.09	2877.370	4051.430
Stddev	5.100	259.3	62.95	24.268	10.529
%RSD	.1142491	.2578828	.3120436	.8433933	.2598787
#1	4469.491	100571.7	20170.44	2902.995	4059.958
#2	4464.313	100292.2	20235.84	2854.738	4054.669
#3	4459.290	100810.4	20109.98	2874.377	4039.662

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1525-01 Acquired: 3/13/2025 16:08:01 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0801272**	**.0171867**	**.0684569**	**-.032070**	**-.002476**	**44.77009**
Stddev	.0009258	.0009410	.0013120	.000687	.001894	.13364
%RSD	1.155460	5.475253	1.916476	2.141216	76.49803	.2985076
#1	.0811648	.0181833	.0671820	-.031332	-.000326	44.62507
#2	.0798315	.0163134	.0683856	-.032689	-.003205	44.79690
#3	.0793854	.0170635	.0698030	-.032191	-.003898	44.88829

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4508892**	**.0005516**	**-.004504**	**164.5027**	**.1302505**	**.0382186**
Stddev	.0001511	.0000504	.000410	.4292	.0008850	.0000624
%RSD	.0334999	9.133256	9.106196	.2608886	.6794990	.1633666
#1	.4510035	.0006019	-.004441	164.3938	.1292408	.0381764
#2	.4509461	.0005012	-.004129	164.1386	.1306187	.0382903
#3	.4507180	.0005517	-.004942	164.9759	.1308920	.0381891

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1314286**	**196.3914**	F **45.64130**	**68.90890**	**.0677182**	**.0010929**
Stddev	.0009196	1.6723	.13398	.21513	.0001762	.0002274
%RSD	.6996855	.8515250	.2935561	.3122019	.2601632	20.80963
#1	.1303974	195.9124	45.70729	68.95080	.0677855	.0008982
#2	.1317248	195.0109	45.48712	68.67590	.0675183	.0013428
#3	.1321635	198.2510	45.72949	69.10001	.0678508	.0010377

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **1985.507**	**.0945519**	**.3747035**	**16.61106**	**-.143881**	**.0043587**
Stddev	12.397	.0009619	.0037361	.20258	.003506	.0004180
%RSD	.6243896	1.017309	.9970876	1.219525	2.436466	9.589962
#1	1972.660	.0944109	.3738124	16.47384	-.141909	.0047578
#2	1986.460	.0955765	.3714935	16.51561	-.147928	.0039241
#3	1997.400	.0936683	.3788046	16.84373	-.141805	.0043943

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1525-01 Acquired: 3/13/2025 16:08:01 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005255	.8999175	F 66.16455	2.190650	5.577888	.1237565
Stddev	.0020138	.0010908	.53010	.002574	.011923	.0008950
%RSD	383.2416	.1212142	.8011814	.1175062	.2137491	.7232172
#1	.0022081	.8986580	66.01578	2.189274	5.574743	.1227792
#2	-.001706	.9005562	65.72473	2.189056	5.591068	.1239539
#3	.001074	.9005383	66.75313	2.193620	5.567853	.1245363

Elem	Sr4077
Units	ppm
Avg	.7385761
Stddev	.0021266
%RSD	.2879298
#1	.7364540
#2	.7385671
#3	.7407071

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2902.514	63429.95	14592.03	1861.546	3393.609
Stddev	3.539	290.08	24.97	5.243	2.523
%RSD	.1219176	.4573224	.1711153	.2816584	.0743424
#1	2903.260	63595.84	14613.05	1865.985	3391.058
#2	2898.662	63599.00	14564.43	1862.892	3396.103
#3	2905.621	63094.99	14598.60	1855.761	3393.666

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1552-01 Acquired: 3/13/2025 16:12:26 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0809046**	**.0073349**	**1.308047**	**-.031613**	**.0001303**	**110.9329**
Stddev	.0010867	.0012905	.004777	.003521	.0011480	.6071
%RSD	1.343173	17.59328	.3651749	11.13637	880.7404	.5472610
#1	.0818126	.0076954	1.302983	-.031343	-.000635	110.2565
#2	.0812005	.0084067	1.308688	-.035261	.001450	111.1114
#3	.0797006	.0059025	1.312471	-.028235	-.000425	111.4307

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8722620**	**.0123409**	**-.002487**	**13.00095**	**.1917018**	**.0676780**
Stddev	.0028472	.0000282	.000457	.06674	.0002520	.0009225
%RSD	.3264111	.2281961	18.38230	.5133622	.1314768	1.363114
#1	.8691358	.0123110	-.002863	12.92539	.1919776	.0666763
#2	.8729437	.0123450	-.002620	13.05186	.1916442	.0678649
#3	.8747063	.0123669	-.001978	13.02560	.1914835	.0684927

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4271752**	**221.9096**	**.8787837**	**10.12546**	**.1107781**	**-.002309**
Stddev	.0031462	.4913	.0039179	.06419	.0006256	.000515
%RSD	.7365076	.2213876	.4458363	.6339846	.5646878	22.32472
#1	.4240029	221.9413	.8747473	10.05140	.1100948	-.002878
#2	.4272280	222.3843	.8790323	10.16521	.1109170	-.001875
#3	.4302946	221.4033	.8825714	10.15977	.1113226	-.002173

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.890263**	**.2937272**	**2.052961**	**4.752366**	**-.361858**	**.0041064**
Stddev	.021509	.0010978	.008974	.027575	.004738	.0005230
%RSD	1.137904	.3737405	.4371365	.5802320	1.309378	12.73509
#1	1.910977	.2924602	2.061005	4.781298	-.356438	.0042361
#2	1.868038	.2943269	2.054598	4.726386	-.363919	.0045522
#3	1.891774	.2943945	2.043281	4.749415	-.365217	.0035308

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1552-01 Acquired: 3/13/2025 16:12:26 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0294382	2.460815	4.329718	3.959374	F 51.75174	.1612114
Stddev	.0011683	.003572	.048952	.022002	.22538	.0008377
%RSD	3.968635	.1451525	1.130603	.5556912	.4355042	.5196055
#1	.0303282	2.456751	4.370620	3.937630	51.51564	.1611153
#2	.0281152	2.462238	4.275480	3.958866	51.77500	.1620929
#3	.0298710	2.463457	4.343052	3.981625	51.96460	.1604259

Elem	Sr4077
Units	ppm
Avg	.1062601
Stddev	.0005458
%RSD	.5135986
#1	.1056314
#2	.1065376
#3	.1066114

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3621.209	78806.01	15348.68	2346.913	4530.694
Stddev	19.534	163.26	60.26	8.473	26.730
%RSD	.5394374	.2071645	.3926302	.3610405	.5899709
#1	3642.300	78698.13	15418.09	2337.394	4560.033
#2	3617.590	78726.06	15318.20	2349.713	4524.324
#3	3603.737	78993.83	15309.74	2353.633	4507.725

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1553-01 Acquired: 3/13/2025 16:16:30 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0786960**	**-.000142**	**1.053602**	**-.027035**	**-.002037**	**93.00965**	**.6691490**
Stddev	.0012193	.001529	.007137	.001563	.001176	.27445	.0022107
%RSD	1.549320	1076.143	.6773605	5.781105	57.76095	.2950738	.3303673
#1	.0781367	.001445	1.048837	-.027401	-.002079	92.69792	.6673892
#2	.0800946	-.001605	1.061807	-.028383	-.003191	93.21492	.6716302
#3	.0778568	-.000265	1.050160	-.025322	-.000840	93.11611	.6684276

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0080836**	**-.001879**	**27.43092**	**.2628337**	**.1037721**	**.4492896**	**199.5639**
Stddev	.0002120	.000329	.10190	.0015549	.0005961	.0028680	.4878
%RSD	2.622259	17.52722	.3714801	.5915972	.5744171	.6383393	.2444343
#1	.0079521	-.001785	27.36916	.2614483	.1037297	.4479420	199.1847
#2	.0083282	-.001606	27.54853	.2625372	.1043883	.4525832	199.3928
#3	.0079706	-.002244	27.37506	.2645155	.1031984	.4473437	200.1142

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.052964**	**30.69542**	**.2043849**	**-.001406**	**4.744668**	**.4032470**	**1.483753**
Stddev	.017399	.14209	.0007665	.000305	.013526	.0021579	.001969
%RSD	.3443239	.4628871	.3750065	21.66135	.2850878	.5351299	.1326891
#1	5.038946	30.54823	.2040092	-.001662	4.750607	.4016107	1.483091
#2	5.072437	30.83177	.2052668	-.001069	4.729188	.4056925	1.482200
#3	5.047509	30.70625	.2038788	-.001487	4.754208	.4024378	1.485967

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.036681**	**-.296373**	**.0057563**	**.0261749**	**3.719837**	**4.226966**	**6.965037**
Stddev	.007947	.003437	.0003489	.0006902	.016833	.051953	.036721
%RSD	.1129433	1.159653	6.060600	2.636782	.4525254	1.229096	.5272226
#1	7.045077	-.293037	.0060724	.0264347	3.718589	4.178632	6.952737
#2	7.029275	-.296181	.0058144	.0266974	3.737259	4.220358	7.006330
#3	7.035691	-.299902	.0053820	.0253925	3.703662	4.281907	6.936045

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1553-01 Acquired: 3/13/2025 16:16:30 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.847599	.1534642	.1024864
Stddev	.024116	.0007312	.0003076
%RSD	.6267900	.4764764	.3001665
#1	3.836556	.1530047	.1021374
#2	3.875260	.1543074	.1027183
#3	3.830982	.1530805	.1026034

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3766.451	82496.87	16240.33	2423.364	4573.800
Stddev	24.844	129.27	77.92	.964	30.209
%RSD	.6596035	.1567000	.4798012	.0397775	.6604684
#1	3778.606	82596.07	16307.12	2424.476	4588.854
#2	3737.870	82543.87	16154.72	2422.855	4539.022
#3	3782.876	82350.67	16259.15	2422.762	4593.523

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1556-01 Acquired: 3/13/2025 16:20:35 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0339865**	**.0021290**	**.3909944**	**-.033325**	**-.004043**	**98.02091**	**.6043365**
Stddev	.0030003	.0035038	.0006866	.001296	.001886	.24847	.0037406
%RSD	8.827803	164.5779	.1756044	3.890254	46.64733	.2534819	.6189583
#1	.0344399	.0061748	.3915037	-.034442	-.006069	97.77527	.6001048
#2	.0367343	.0000883	.3912659	-.033629	-.003723	98.27210	.6072018
#3	.0307854	.0001238	.3902136	-.031904	-.002338	98.01536	.6057028

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0072930**	**-.003558**	**54.95876**	**.1557485**	**.0964963**	**.5702442**	**204.7974**
Stddev	.0000296	.000198	.20700	.0011085	.0001526	.0001602	1.1502
%RSD	.4061189	5.556019	.3766410	.7117116	.1581268	.0280928	.5616498
#1	.0072676	-.003618	54.72542	.1551947	.0963282	.5702405	204.2811
#2	.0073255	-.003337	55.03057	.1550261	.0966261	.5700859	203.9958
#3	.0072860	-.003718	55.12028	.1570247	.0965345	.5704062	206.1153

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.575067**	**42.35114**	**.1704996**	**-.002000**	**10.56011**	**.3207143**	**.4684422**
Stddev	.023266	.11693	.0002851	.000258	.07272	.0006210	.0004396
%RSD	.4173156	.2761009	.1671864	12.90901	.6886662	.1936323	.0938458
#1	5.549115	42.23814	.1708277	-.002079	10.47992	.3200325	.4683939
#2	5.594055	42.34365	.1703126	-.001711	10.57861	.3208627	.4680287
#3	5.582033	42.47164	.1703586	-.002209	10.62180	.3212477	.4689040

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.528750**	**-.239485**	**.0030371**	**.0253643**	**3.287626**	**3.920813**	**5.634008**
Stddev	.050687	.005226	.0001683	.0008995	.018419	.049244	.012030
%RSD	.5319373	2.182016	5.540500	3.546330	.5602625	1.255959	.2135186
#1	9.471034	-.237010	.0032089	.0244157	3.267664	3.912907	5.625727
#2	9.549196	-.245488	.0028726	.0254725	3.303965	3.876001	5.628491
#3	9.566022	-.235957	.0030297	.0262049	3.291248	3.973532	5.647807

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1556-01 Acquired: 3/13/2025 16:20:35 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.482828**	**.1823191**	**.1987714**
Stddev	.004897	.0007377	.0008466
%RSD	.1406051	.4046228	.4259287
#1	3.480357	.1822166	.1978968
#2	3.479659	.1816379	.1995869
#3	3.488468	.1831027	.1988305

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3749.094**	**82322.26**	**16550.34**	**2401.941**	**4411.084**
Stddev	3.894	301.29	56.27	7.949	7.779
%RSD	.1038555	.3659926	.3399892	.3309238	.1763558
#1	3753.558	82460.35	16603.53	2407.170	4419.843
#2	3746.402	82529.76	16491.43	2405.860	4404.978
#3	3747.321	81976.67	16556.06	2392.794	4408.433

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1556-01DUP Acquired: 3/13/2025 16:24:39 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0366320	.0023962	.3988622	-.029783	-.006422	99.67545	.6048908
Stddev	.0007764	.0012333	.0114460	.003326	.001612	.15506	.0008952
%RSD	2.119437	51.46896	2.869655	11.16789	25.10210	.1555614	.1479899
#1	.0364061	.0035263	.3870460	-.026487	-.007297	99.58383	.6039112
#2	.0374963	.0025816	.3996425	-.029722	-.004562	99.85448	.6050950
#3	.0359937	.0010807	.4098980	-.033139	-.007408	99.58804	.6056662

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074571	-.003424	55.23515	.1617744	.0968868	.5712019	205.9855
Stddev	.0000718	.001046	.09509	.0010806	.0031960	.0163971	1.0406
%RSD	.9635729	30.53905	.1721564	.6679472	3.298732	2.870628	.5051772
#1	.0074203	-.004604	55.14603	.1612380	.0936398	.5533127	205.8338
#2	.0074111	-.003060	55.22417	.1610669	.0969913	.5747758	205.0292
#3	.0075399	-.002609	55.33526	.1630182	.1000293	.5855173	207.0937

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.623499	42.68965	.1709418	-.002495	10.55212	.3237391	.4691116
Stddev	.015365	.06285	.0047427	.000188	.05163	.0004784	.0027126
%RSD	.2732261	.1472297	2.774457	7.535386	.4892581	.1477706	.5782510
#1	5.614541	42.62228	.1659107	-.002702	10.53667	.3236260	.4694466
#2	5.614715	42.69997	.1715840	-.002447	10.50999	.3233274	.4662471
#3	5.641241	42.74671	.1753307	-.002335	10.60971	.3242639	.4716413

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.513473	-.270918	.0033447	.0265877	3.291201	3.175496	5.617412
Stddev	.026756	.002662	.0000611	.0014580	.005760	.015918	.180946
%RSD	.2812393	.9826179	1.825616	5.483668	.1750264	.5012847	3.221156
#1	9.494422	-.268117	.0033716	.0272131	3.290551	3.191571	5.424615
#2	9.501935	-.273415	.0033878	.0249213	3.285793	3.175179	5.644073
#3	9.544061	-.271222	.0032748	.0276286	3.297259	3.159739	5.783548

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1556-01DUP Acquired: 3/13/2025 16:24:39 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**3.479496**	**.1833170**	**.1992327**
Stddev	.129306	.0010650	.0002160
%RSD	3.716218	.5809318	.1084086
#1	3.342435	.1824447	.1992319
#2	3.496736	.1830026	.1994491
#3	3.599316	.1845038	.1990171

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3732.730**	**80731.86**	**16181.27**	**2341.745**	**4385.003**
Stddev	80.765	172.83	49.69	3.728	115.008
%RSD	2.163698	.2140847	.3070604	.1591962	2.622752
#1	3820.359	80885.94	16226.20	2345.209	4510.173
#2	3716.553	80764.66	16127.91	2337.799	4360.840
#3	3661.278	80544.97	16189.70	2342.226	4283.997

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV05 Acquired: 3/13/2025 16:28:43 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.247392**	**5.194312**	**5.301775**	**5.151920**	**5.125844**	**10.13496**
Stddev	.015993	.008053	.016936	.020528	.020163	.04809
%RSD	.3047800	.1550255	.3194313	.3984542	.3933569	.4744569
#1	5.264687	5.199929	5.315641	5.175542	5.148750	10.14024
#2	5.233138	5.185086	5.282900	5.141804	5.118002	10.08446
#3	5.244351	5.197920	5.306785	5.138413	5.110781	10.18020

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.882975**	**.2641841**	**2.632399**	**25.60833**	**1.073698**	**2.607598**
Stddev	.052065	.0017737	.009125	.13879	.003109	.007911
%RSD	.5268121	.6713975	.3466480	.5419590	.2895671	.3033785
#1	9.918788	.2644102	2.638255	25.58325	1.077252	2.613467
#2	9.823250	.2623082	2.621885	25.48379	1.071481	2.598601
#3	9.906887	.2658339	2.637058	25.75794	1.072361	2.610725

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.301558**	**5.115165**	**2.526029**	**25.90372**	**2.616404**	**1.298779**
Stddev	.003695	.012796	.015567	.13290	.010164	.002797
%RSD	.2838730	.2501559	.6162591	.5130494	.3884681	.2153635
#1	1.305755	5.108826	2.517240	25.91645	2.622111	1.299385
#2	1.300122	5.106775	2.516845	25.76492	2.604669	1.295728
#3	1.298796	5.129892	2.544003	26.02980	2.622432	1.301223

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.69960**	**2.554252**	**2.581538**	**24.95933**	**5.189989**	**5.192856**
Stddev	.06141	.013014	.016274	.04569	.034558	.013239
%RSD	.2486348	.5094918	.6303989	.1830543	.6658578	.2549373
#1	24.62899	2.553851	2.578327	24.90674	5.181368	5.208101
#2	24.74058	2.541444	2.567109	24.98193	5.160557	5.184263
#3	24.72922	2.567462	2.599179	24.98931	5.228041	5.186203

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV05 Acquired: 3/13/2025 16:28:43 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.264719**	**5.019166**	F **5.519811**	**5.259225**	**5.108575**	**4.887952**
Stddev	.021587	.020612	.009875	.021441	.014325	.018278
%RSD	.4100326	.4106691	.1788932	.4076835	.2804197	.3739337
#1	5.286144	5.012087	5.528329	5.268807	5.124971	4.882418
#2	5.242973	5.003025	5.522116	5.234663	5.098484	4.873080
#3	5.265040	5.042384	5.508988	5.274203	5.102268	4.908357

Elem	Sr4077
Units	ppm
Avg	**5.038619**
Stddev	.021527
%RSD	.4272361
#1	5.017384
#2	5.038049
#3	5.060426

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3271.055**	**71340.54**	**14271.01**	**2084.409**	**4370.025**
Stddev	10.653	89.13	73.21	6.777	16.126
%RSD	.3256736	.1249357	.5129657	.3251223	.3690060
#1	3258.894	71244.55	14256.87	2087.907	4353.792
#2	3275.530	71356.37	14350.26	2088.722	4386.041
#3	3278.740	71420.69	14205.91	2076.598	4370.243

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB05 Acquired: 3/13/2025 16:32:54 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000534**	**-.000391**	**-.000336**	**.0023647**	**.0007614**	**-.002530**	**.0039848**
Stddev	.001566	.001306	.000236	.0016984	.0007204	.004443	.0003947
%RSD	293.0461	334.1695	70.18128	71.82244	94.61311	175.5779	9.904125
#1	-.002245	-.001899	-.000608	.0037143	.0012432	-.007368	.0035395
#2	-.000187	.000402	-.000213	.0029222	.0011078	-.001592	.0042912
#3	.000829	.000324	-.000187	.0004576	-.000067	.001369	.0041238

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000032**	**.0000419**	**-.004206**	**-.000155**	**-.000104**	**.0000228**	**-.003390**
Stddev	.000034	.0000416	.004480	.000044	.000191	.0001872	.002142
%RSD	105.8146	99.30766	106.5162	28.71022	183.2701	822.4375	63.18106
#1	-.000063	.0000681	-.001518	-.000182	-.000312	-.000080	-.000942
#2	.000004	.0000638	-.009377	-.000103	-.000065	.000239	-.004918
#3	-.000036	-.000006	-.001722	-.000179	.000064	-.000090	-.004309

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001109**	**.0021837**	**.0000411**	**.0000157**	**.1412779**	**.0007393**	**-.000798**
Stddev	.000279	.0114159	.0000777	.0001670	.0065838	.0007212	.000376
%RSD	25.17604	522.7708	188.9974	1062.069	4.660206	97.55435	47.13541
#1	-.001431	.0037389	-.000048	-.000177	.1433175	.0015375	-.000883
#2	-.000967	.0127424	.000081	.000110	.1466006	.0001346	-.001124
#3	-.000929	-.009930	.000091	.000114	.1339156	.0005457	-.000386

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2349119**	**.0010965**	**.0002358**	**-.001266**	**.0009531**	**.0044155**	**-.003568**
Stddev	.0185439	.0005646	.0001443	.000782	.0004859	.0037913	.002259
%RSD	7.893980	51.49463	61.19363	61.78571	50.97619	85.86347	63.32412
#1	.2393825	.0010867	.0001896	-.001956	.0011770	.0066968	-.003618
#2	.2145414	.0016660	.0003976	-.000416	.0003957	.0065108	-.001284
#3	.2508118	.0005368	.0001203	-.001425	.0012867	.0000390	-.005802

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB05 Acquired: 3/13/2025 16:32:54 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0022648	.0031577	-.000024
Stddev	.0010785	.0008852	.000032
%RSD	47.62011	28.03468	135.0034
#1	.0022583	.0039133	.000006
#2	.0033465	.0021837	-.000058
#3	.0011895	.0033759	-.000020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3466.550	75129.53	14306.28	2234.169	4972.455
Stddev	22.034	453.52	123.25	12.701	30.945
%RSD	.6356060	.6036532	.8614960	.5685055	.6223285
#1	3441.316	74914.34	14415.03	2221.185	4937.177
#2	3481.983	74823.67	14172.40	2234.756	4995.013
#3	3476.351	75650.59	14331.40	2246.567	4985.175

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1556-01LX5 Acquired: 3/13/2025 16:37:13 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056311	.0010316	.0823445	-.005665	-.001462	21.53589	.1373813
Stddev	.0003423	.0023948	.0011635	.000173	.000161	.01176	.0009516
%RSD	6.077942	232.1521	1.412915	3.057591	11.04655	.0545943	.6926646
#1	.0052803	-.001613	.0813257	-.005649	-.001634	21.54452	.1378834
#2	.0059641	.003054	.0820954	-.005501	-.001438	21.52249	.1362839
#3	.0056491	.001654	.0836123	-.005847	-.001314	21.54064	.1379767

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017391	-.001861	12.53230	.0348690	.0193433	.1335922	45.18741
Stddev	.0000212	.000047	.01296	.0004974	.0002203	.0011811	.10669
%RSD	1.218192	2.535814	.1034218	1.426396	1.138760	.8840826	.2361057
#1	.0017565	-.001867	12.54725	.0351834	.0191088	.1323043	45.25884
#2	.0017453	-.001905	12.52546	.0351280	.0195459	.1338478	45.06477
#3	.0017155	-.001811	12.52420	.0342956	.0193752	.1346245	45.23863

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.267462	9.601719	.0347084	-.000891	2.249976	.0716757	.1023027
Stddev	.007506	.024137	.0003324	.000457	.007781	.0001449	.0009862
%RSD	.5921889	.2513813	.9578171	51.35475	.3458125	.2021972	.9639547
#1	1.273577	9.628107	.0344581	-.000401	2.251414	.0715240	.1012354
#2	1.259086	9.596293	.0345815	-.000964	2.241577	.0718127	.1031801
#3	1.269724	9.580757	.0350856	-.001307	2.256937	.0716905	.1024926

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.198866	-.059654	.0008521	.0044689	.7357975	.7553397	1.129220
Stddev	.008270	.001359	.0002061	.0004494	.0004998	.0212901	.008771
%RSD	.3761090	2.277775	24.19295	10.05552	.0679242	2.818606	.7767600
#1	2.196642	-.058403	.0008353	.0047043	.7361424	.7415025	1.122981
#2	2.191935	-.061100	.0010661	.0039508	.7352244	.7798556	1.125429
#3	2.208020	-.059460	.0006548	.0047517	.7360258	.7446609	1.139249

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1556-01LX5 Acquired: 3/13/2025 16:37:13 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6803491	.0413002	.0442071
Stddev	.0056384	.0014123	.0000623
%RSD	.8287434	3.419530	.1409815
#1	.6767431	.0427717	.0441851
#2	.6774575	.0411733	.0441588
#3	.6868466	.0399557	.0442775

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3516.906	76257.98	14804.98	2267.982	4703.420
Stddev	7.507	46.98	43.14	13.372	11.635
%RSD	.2134587	.0616081	.2913646	.5895900	.2473730
#1	3519.849	76248.18	14765.54	2279.515	4707.256
#2	3522.497	76309.09	14851.04	2253.324	4712.652
#3	3508.374	76216.68	14798.35	2271.107	4690.351

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1556-01MS Acquired: 3/13/2025 16:41:26 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0351562**	**.0017878**	**.3871023**	**-.027381**	**-.005593**	**98.13260**	**.5762160**
Stddev	.0015008	.0004080	.0006527	.001121	.001657	.04994	.0019968
%RSD	4.268884	22.82252	.1686012	4.093865	29.62591	.0508872	.3465398
#1	.0368193	.0021125	.3878249	-.026837	-.006377	98.07521	.5756215
#2	.0347464	.0013298	.3869265	-.028670	-.003689	98.16615	.5784426
#3	.0339028	.0019210	.3865556	-.026636	-.006711	98.15643	.5745840

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0071227**	**-.003800**	**77.08576**	**.1562200**	**.1005018**	**.2880221**	**201.3515**
Stddev	.0000707	.000127	.17245	.0012455	.0003893	.0010741	.2004
%RSD	.9925339	3.351546	.2237080	.7972779	.3873490	.3729154	.0995273
#1	.0071173	-.003880	77.09113	.1547899	.1001225	.2869642	201.2669
#2	.0071960	-.003653	77.25546	.1570669	.1004826	.2879905	201.2073
#3	.0070549	-.003866	76.91069	.1568033	.1009004	.2891116	201.5803

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.371406**	**55.51797**	**.1674282**	**-.001001**	**11.33598**	**.3176879**	**.4948890**
Stddev	.012449	.17432	.0006606	.000079	.02980	.0009810	.0008353
%RSD	.3692389	.3139910	.3945535	7.858589	.2628669	.3087931	.1687893
#1	3.367060	55.46790	.1667008	-.000974	11.30815	.3177297	.4939483
#2	3.385445	55.71184	.1679907	-.001089	11.33236	.3166867	.4955442
#3	3.361713	55.37416	.1675931	-.000939	11.36742	.3186474	.4951744

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.08862**	**-.254847**	**.0033994**	**.0146257**	**3.258580**	**6.304106**	**5.360402**
Stddev	.06043	.004283	.0001473	.0005761	.011200	.109991	.009373
%RSD	.5989827	1.680510	4.331684	3.938847	.3437217	1.744745	.1748521
#1	10.04602	-.250133	.0034259	.0152909	3.245735	6.184636	5.353059
#2	10.06206	-.258499	.0035316	.0142889	3.266307	6.326516	5.370959
#3	10.15778	-.255909	.0032407	.0142974	3.263700	6.401166	5.357187

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1556-01MS Acquired: 3/13/2025 16:41:26 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.674975**	**.1806385**	**.2095585**
Stddev	.022277	.0007847	.0001422
%RSD	.8328011	.4344191	.0678428
#1	2.650925	.1812999	.2093943
#2	2.694905	.1797714	.2096392
#3	2.679095	.1808442	.2096419

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3673.001**	**82106.16**	**16758.68**	**2388.329**	**4304.720**
Stddev	10.342	230.73	87.14	12.566	9.840
%RSD	.2815573	.2810180	.5199519	.5261527	.2285892
#1	3680.962	82372.52	16826.06	2402.591	4313.052
#2	3676.730	81978.34	16660.27	2383.516	4307.244
#3	3661.313	81967.62	16789.69	2378.881	4293.864

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1556-01MSD Acquired: 3/13/2025 16:45:32 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0348686**	**.0036731**	**.3879967**	**-.028110**	**-.004380**	**98.18974**	**.5688877**
Stddev	.0019671	.0014938	.0023163	.000957	.001584	.10864	.0008564
%RSD	5.641583	40.66961	.5969855	3.404160	36.16880	.1106419	.1505463
#1	.0371273	.0019669	.3856711	-.027842	-.003700	98.10387	.5682672
#2	.0339471	.0047457	.3880154	-.027315	-.006191	98.15349	.5698649
#3	.0335313	.0043067	.3903036	-.029172	-.003249	98.31187	.5685311

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0072109**	**-.004110**	**76.04524**	**.1589955**	**.0997328**	**.2837383**	**203.2902**
Stddev	.0000905	.000026	.21773	.0001458	.0005872	.0011156	.5628
%RSD	1.255079	.6285032	.2863208	.0916769	.5887559	.3931785	.2768367
#1	.0071374	-.004138	75.98800	.1591108	.0996666	.2833481	203.3743
#2	.0073120	-.004106	76.28588	.1590441	.0991815	.2828702	202.6901
#3	.0071833	-.004087	75.86185	.1588316	.1003503	.2849966	203.8062

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.353358**	**54.74981**	**.1659193**	**-.000721**	**11.49582**	**.3159668**	**.4757011**
Stddev	.009704	.28859	.0002209	.000157	.03815	.0016981	.0013575
%RSD	.2893940	.5271135	.1331581	21.72719	.3318402	.5374155	.2853728
#1	3.348866	54.82567	.1660922	-.000664	11.48041	.3171832	.4750288
#2	3.364494	54.99290	.1659954	-.000899	11.46779	.3166903	.4748108
#3	3.346713	54.43087	.1656704	-.000601	11.53927	.3140268	.4772635

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.10053**	**-.258375**	**.0038290**	**.0156019**	**3.223568**	**5.712783**	**5.272907**
Stddev	.09319	.004466	.0003387	.0014570	.013083	.040397	.013229
%RSD	.9226532	1.728645	8.844407	9.338294	.4058503	.7071328	.2508853
#1	10.06225	-.253222	.0036647	.0159790	3.220156	5.719286	5.264549
#2	10.03258	-.261149	.0036038	.0168333	3.238019	5.669529	5.266013
#3	10.20677	-.260752	.0042184	.0139935	3.212529	5.749534	5.288159

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1556-01MSD Acquired: 3/13/2025 16:45:32 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.651535	.1811071	.2077261
Stddev	.021663	.0014363	.0002556
%RSD	.8170077	.7930907	.1230568
#1	2.648301	.1802919	.2075261
#2	2.631671	.1802638	.2076381
#3	2.674634	.1827656	.2080141

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3665.592	79849.37	16573.34	2339.860	4307.227
Stddev	3.844	106.56	100.95	7.225	2.731
%RSD	.1048563	.1334486	.6091033	.3087942	.0634044
#1	3668.707	79948.71	16611.29	2345.622	4306.469
#2	3661.297	79862.58	16458.92	2331.753	4310.257
#3	3666.774	79736.82	16649.82	2342.204	4304.955

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1556-01A Acquired: 3/13/2025 16:49:37 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0369078	.0031767	.3810011	-.028503	-.004334	95.13400	.5544898
Stddev	.0022397	.0004710	.0024844	.001500	.001050	.57039	.0033523
%RSD	6.068462	14.82593	.6520766	5.264180	24.23676	.5995597	.6045715
#1	.0362144	.0035534	.3790953	-.027900	-.005537	94.78155	.5530050
#2	.0350968	.0026486	.3800970	-.027397	-.003869	94.82838	.5521362
#3	.0394123	.0033279	.3838110	-.030211	-.003596	95.79207	.5583280

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069403	-.004581	74.09181	.1551323	.0984616	.2807751	201.3526
Stddev	.0001333	.000149	.47930	.0002458	.0006155	.0014603	.3508
%RSD	1.920472	3.249891	.6469019	.1584184	.6251008	.5201015	.1742164
#1	.0068255	-.004602	73.69406	.1552674	.0979139	.2794568	201.2502
#2	.0069088	-.004719	73.95740	.1548486	.0983432	.2805237	201.7432
#3	.0070865	-.004423	74.62397	.1552808	.0991276	.2823448	201.0644

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.263928	53.37135	.1632234	-.000872	11.38806	.3085114	.4626011
Stddev	.020959	.34919	.0012054	.000125	.01982	.0011304	.0015187
%RSD	.6421486	.6542649	.7384964	14.38157	.1740600	.3663903	.3282847
#1	3.255188	53.06404	.1618543	-.000857	11.36652	.3095828	.4623750
#2	3.248754	53.29895	.1636913	-.001005	11.40554	.3073301	.4642201
#3	3.287843	53.75107	.1641248	-.000755	11.39211	.3086212	.4612082

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.840002	-.235648	.0032672	.0132913	3.104443	3.770974	5.176069
Stddev	.040450	.006412	.0002646	.0017292	.018185	.056552	.023191
%RSD	.4110737	2.720966	8.099617	13.00984	.5857618	1.499670	.4480489
#1	9.865364	-.234128	.0033224	.0150415	3.095257	3.765851	5.154532
#2	9.861288	-.230133	.0029793	.0132485	3.092684	3.829913	5.173056
#3	9.793354	-.242683	.0034999	.0115839	3.125388	3.717157	5.200620

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1556-01A Acquired: 3/13/2025 16:49:37 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.611082**	**.1770717**	**.2029683**
Stddev	.008646	.0008855	.0012774
%RSD	.3311144	.5000736	.6293706
#1	2.602442	.1764926	.2027831
#2	2.611071	.1766316	.2017936
#3	2.619733	.1780910	.2043282

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3722.466**	**80967.32**	**17096.03**	**2367.208**	**4381.445**
Stddev	5.633	136.71	129.92	10.540	13.095
%RSD	.1513242	.1688483	.7599615	.4452330	.2988851
#1	3727.769	81120.83	17169.51	2368.348	4394.284
#2	3723.077	80858.68	17172.55	2356.145	4381.944
#3	3716.553	80922.46	16946.01	2377.132	4368.107

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: LR1 Acquired: 3/13/2025 16:53:20 Type: Unk
Method: NON EPA-6010-200.7(v2805) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0432594	.0779784	.0221107	-.177652	-.020309	2096.629	.0210760
Stddev	.0060862	.0055442	.0089084	.022783	.012452	13.413	.0017149
%RSD	14.06898	7.109911	40.29013	12.82471	61.31458	.6397204	8.136549
#1	.0499125	.0841958	.0254607	-.153511	-.018840	2095.370	.0196110
#2	.0418934	.0761909	.0288585	-.198777	-.033431	2083.890	.0206548
#3	.0379723	.0735484	.0120129	-.180667	-.008656	2110.627	.0229622

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089908	-.001674	1903.027	.0288505	.0304120	.6009829	1008.075
Stddev	.0001197	.006765	23.626	.0006032	.0019561	.0294469	6.902
%RSD	1.331334	403.9871	1.241489	2.090923	6.432049	4.899782	.6847006
#1	.0089582	-.009290	1884.684	.0294720	.0282124	.5670729	1005.824
#2	.0088907	.000630	1894.710	.0282673	.0310671	.6157696	1015.822
#3	.0091234	.003637	1929.686	.0288123	.0319565	.6201062	1002.579

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.093975	1830.518	.0058389	-.037457	2191.597	.0178666	.0783260
Stddev	.000518	23.554	.0007399	.001006	7.525	.0001892	.0016564
%RSD	.5514016	1.286743	12.67132	2.685200	.3433424	1.059091	2.114756
#1	-.093418	1809.373	.0052877	-.038439	2200.246	.0177074	.0772740
#2	-.094065	1826.276	.0055494	-.036429	2187.997	.0178166	.0774686
#3	-.094442	1855.905	.0066798	-.037503	2186.549	.0180758	.0802354

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1276.638	^ *****	.0048126	.0026029	-.037464	.1867313	.1330570
Stddev	9.039	-----	.0005955	.0053682	.001430	.0017981	.0028548
%RSD	.7080093	-----	12.37313	206.2376	3.816950	.9629529	2.145568
#1	1286.901	^ -----	.0042982	-.003588	-.039114	.1853977	.1351708
#2	1273.151	^ -----	.0054649	.005422	-.036586	.1860200	.1341909
#3	1269.862	^ -----	.0046748	.005975	-.036692	.1887763	.1298095

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: LR1 Acquired: 3/13/2025 16:53:20 Type: Unk
Method: NON EPA-6010-200.7(v2805) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.211651	.1128008	.0125446
Stddev	.014642	.0058808	.0001113
%RSD	6.918239	5.213435	.8874728
#1	-.227970	.1163221	.0124840
#2	-.207320	.1160684	.0126731
#3	-.199662	.1060118	.0124766

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2339.789	50087.76	11865.68	1462.784	2717.667
Stddev	73.105	114.06	105.43	8.350	87.169
%RSD	3.124415	.2277118	.8885158	.5708464	3.207510
#1	2424.101	50133.46	11953.77	1453.180	2818.210
#2	2301.230	49957.94	11894.41	1466.845	2671.503
#3	2294.036	50171.88	11748.87	1468.328	2663.288

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: LR2 Acquired: 3/13/2025 16:58:18 Type: Unk
Method: NON EPA-6010-200.7(v2805) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082980	-.002120	247.5949	.0162226	-.004301	.2206853	^F *****
Stddev	.0007856	.002200	1.3995	.0037304	.001521	.0025402	-----
%RSD	9.466795	103.7582	.5652289	22.99512	35.36173	1.151040	-----
#1	.0088336	-.003814	247.1798	.0199117	-.002820	.2209352	^ -----
#2	.0086642	.000366	246.4500	.0124522	-.004225	.2230912	91.04036
#3	.0073962	-.002911	249.1550	.0163039	-.005859	.2180293	90.23960

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003423	-.003549	.0785397	.0011245	.0055756	225.5188	.0378137
Stddev	.000036	.000044	.0087840	.0003182	.0003328	1.5130	.0036371
%RSD	1.042542	1.245221	11.18415	28.29448	5.968581	.6709096	9.618471
#1	-.003382	-.003591	.0810031	.0010253	.0058840	226.0874	.0412519
#2	-.003437	-.003552	.0858290	.0008677	.0056198	223.8039	.0381832
#3	-.003449	-.003503	.0687870	.0014804	.0052228	226.6652	.0340059

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	45.92435	-.086098	49.27059	.0017083	.3246598	-.012263	33.65544
Stddev	.40551	.020522	.29545	.0002273	.0273427	.001313	.05120
%RSD	.8829999	23.83563	.5996391	13.30383	8.421943	10.70671	.1521361
#1	46.32457	-.102610	49.24195	.0014678	.3381270	-.011877	33.66619
#2	45.93473	-.063122	48.99051	.0019196	.3426568	-.013726	33.70042
#3	45.51375	-.092562	49.57932	.0017374	.2931957	-.011187	33.59972

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3295613	-.004955	-.007827	-.005790	-.038537	-.002571	.3209676
Stddev	.0400474	.000528	.000475	.000223	.000983	.002633	.0075311
%RSD	12.15173	10.65528	6.073905	3.850085	2.549471	102.4179	2.346371
#1	.3750779	-.005524	-.007398	-.005535	-.039568	-.004999	.3281264
#2	.3138723	-.004481	-.007745	-.005887	-.038432	-.002941	.3131126
#3	.2997337	-.004860	-.008338	-.005947	-.037612	.000228	.3216637

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: LR2 Acquired: 3/13/2025 16:58:18 Type: Unk
Method: NON EPA-6010-200.7(v2805) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0378515	.0032109	.0016481
Stddev	.0073257	.0007138	.0001037
%RSD	19.35376	22.23162	6.291632
#1	.0323959	.0024132	.0015650
#2	.0349807	.0037895	.0017643
#3	.0461777	.0034300	.0016150

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2990.465	72723.84	14139.80	2067.881	4582.940
Stddev	18.713	281.25	106.93	5.147	23.508
%RSD	.6257459	.3867368	.7561989	.2489095	.5129398
#1	2987.834	72925.55	14023.94	2070.798	4586.461
#2	3010.353	72843.42	14160.79	2061.938	4604.488
#3	2973.206	72402.57	14234.68	2070.907	4557.870

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB167103TB Acquired: 3/13/2025 17:04:10 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004645	-.004888	.0041289	.0038556	.0022419	.0030857
Stddev	.001038	.000615	.0017997	.0017637	.0006486	.0014127
%RSD	22.33531	12.57866	43.58853	45.74509	28.93143	45.78345
#1	-.004737	-.005407	.0053199	.0043236	.0029908	.0019857
#2	-.005634	-.005047	.0020586	.0019050	.0018647	.0025925
#3	-.003565	-.004209	.0050081	.0053381	.0018701	.0046790

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000009	-.000158	-.000059	.0193178	.0005526	-.000120
Stddev	.000750	.000033	.000062	.0085006	.0003879	.000299
%RSD	8738.397	20.89284	104.6196	44.00405	70.20453	249.0627
#1	-.000523	-.000121	-.000091	.0124510	.0003108	-.000079
#2	-.000354	-.000184	-.000098	.0166769	.0003469	.000156
#3	.000852	-.000169	.000012	.0288254	.0010000	-.000438

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021380	.0072346	.0003572	.0006648	.0011880	-.000043
Stddev	.0003528	.0016816	.0001040	.0055813	.0001038	.000095
%RSD	16.50126	23.24311	29.11201	839.5023	8.735479	220.7148
#1	.0018891	.0053479	.0004091	.0037336	.0012898	-.000088
#2	.0019832	.0085753	.0004251	.0040384	.0010824	.000066
#3	.0025418	.0077807	.0002375	-.005777	.0011917	-.000107

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 300.8827	.0004220	.0018635	.0271656	-.006519	.0001314
Stddev	3.8900	.0010899	.0001695	.0212045	.000258	.0002488
%RSD	1.292850	258.2807	9.096801	78.05651	3.957291	189.2706
#1	305.2842	.0015980	.0018695	.0514320	-.006374	.0003820
#2	297.9063	.0002221	.0020300	.0122067	-.006367	-.000115
#3	299.4574	-.000554	.0016911	.0178579	-.006817	.000128

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB167103TB Acquired: 3/13/2025 17:04:10 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001252	.0011839	.0118092	-.000504	F .0176398	-.001826
Stddev	.000572	.0003928	.0046532	.000959	.0008818	.001732
%RSD	45.67508	33.17574	39.40288	190.2490	4.998977	94.86156
#1	-.001912	.0016326	.0163322	-.001454	.0181485	-.003519
#2	-.000918	.0010171	.0070359	.000465	.0181494	-.001901
#3	-.000925	.0009021	.0120596	-.000524	.0166216	-.000057

Elem	Sr4077
Units	ppm
Avg	.0000119
Stddev	.0000480
%RSD	405.0234
#1	-.000005
#2	.000066
#3	-.000025

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3231.222	72326.22	14972.06	2107.414	4337.974
Stddev	90.960	53.47	55.23	6.260	127.480
%RSD	2.815047	.0739310	.3689072	.2970320	2.938704
#1	3293.569	72379.31	15031.38	2111.547	4427.574
#2	3126.847	72272.38	14962.69	2100.212	4192.030
#3	3273.251	72326.98	14922.11	2110.483	4394.319

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-05 Acquired: 3/13/2025 17:08:36 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004368**	**-.003776**	**.0416065**	**.0040325**	**.0010556**	**.0291585**	**.2069863**
Stddev	.000961	.001195	.0004265	.0010721	.0009831	.0062396	.0004008
%RSD	22.00012	31.65554	1.025148	26.58730	93.12993	21.39878	.1936226
#1	-.003259	-.003093	.0420876	.0028337	-.000021	.0234597	.2071832
#2	-.004885	-.005156	.0414569	.0048997	.001283	.0358256	.2072505
#3	-.004960	-.003079	.0412749	.0043641	.001905	.0281902	.2065251

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000096**	**.0010554**	**7.697806**	**.0025903**	**.0005271**	**.0094398**	**.0208188**
Stddev	.000020	.0000459	.034917	.0002223	.0001464	.0000055	.0019165
%RSD	21.27870	4.347220	.4536002	8.581403	27.77662	.0582826	9.205851
#1	-.000073	.0010561	7.738110	.0028123	.0006228	.0094360	.0187191
#2	-.000112	.0011008	7.678632	.0023677	.0003586	.0094373	.0212633
#3	-.000102	.0010091	7.676678	.0025909	.0006000	.0094461	.0224741

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0308982**	**.5537634**	**.0031740**	**.0001803**	**315.3461**	**.0004886**	**.0875235**
Stddev	.0006705	.0069872	.0002219	.0001945	2.9111	.0009641	.0001564
%RSD	2.169979	1.261773	6.992592	107.8327	.9231443	197.3327	.1787277
#1	.0312670	.5560699	.0031494	-.000043	312.0493	.0016008	.0876622
#2	.0313034	.5593059	.0034072	.000310	317.5626	-.000027	.0873539
#3	.0301243	.5459146	.0029653	.000274	316.4263	-.000109	.0875543

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3567319**	**.0217592**	**.0001569**	**-.000989**	**.0012437**	**.6077737**	**.0115902**
Stddev	.0299629	.0007359	.0000119	.001114	.0012134	.0078405	.0008002
%RSD	8.399277	3.382260	7.555152	112.5971	97.55898	1.290036	6.904134
#1	.3900619	.0216498	.0001493	-.001635	.0003143	.6010561	.0115299
#2	.3481047	.0225438	.0001508	-.001628	.0008005	.6163888	.0124189
#3	.3320290	.0210841	.0001705	.000297	.0026164	.6058762	.0108219

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-05 Acquired: 3/13/2025 17:08:36 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3169029	-.002923	.0453530
Stddev	.0010210	.000102	.0000941
%RSD	.3221745	3.497881	.2074891
#1	.3179503	-.003034	.0454475
#2	.3159106	-.002832	.0453521
#3	.3168477	-.002904	.0452593

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3241.716	70835.85	14735.91	2070.475	4323.348
Stddev	5.704	173.17	48.43	9.265	1.935
%RSD	.1759526	.2444615	.3286769	.4474974	.0447586
#1	3247.004	70903.43	14682.66	2077.844	4323.059
#2	3242.471	70965.04	14747.73	2073.507	4321.574
#3	3235.672	70639.08	14777.34	2060.073	4325.412

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-05DUP Acquired: 3/13/2025 17:13:02 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005946**	**-.003657**	**.0419073**	**.0021646**	**.0007798**	**.0258652**	**.2108098**
Stddev	.001311	.001908	.0013333	.0027944	.0011291	.0031145	.0012027
%RSD	22.04086	52.16715	3.181551	129.0978	144.8025	12.04139	.5705199
#1	-.004455	-.005848	.0432056	-.000380	.0019999	.0290203	.2110622
#2	-.006470	-.002362	.0405416	.001719	-.000228	.0227929	.2118662
#3	-.006914	-.002762	.0419746	.005155	.000568	.0257824	.2095009

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000057**	**.0010678**	**7.681896**	**.0026667**	**.0005813**	**.0091733**	**.0195744**
Stddev	.000062	.0000427	.016403	.0003449	.0004227	.0001921	.0015271
%RSD	109.5106	4.001653	.2135259	12.93280	72.71859	2.094428	7.801578
#1	-.000101	.0011144	7.691325	.0022696	.0000968	.0090634	.0189660
#2	-.000084	.0010305	7.662956	.0028399	.0008746	.0093951	.0213119
#3	.000014	.0010585	7.691408	.0028907	.0007726	.0090613	.0184452

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0308554**	**.5502627**	**.0026780**	**-.000121**	**312.5550**	**.0001199**	**.0856160**
Stddev	.0000720	.0214430	.0001210	.000238	4.8022	.0011451	.0000623
%RSD	.2334582	3.896874	4.519311	196.3998	1.536424	955.0997	.0728176
#1	.0307724	.5441075	.0027906	-.000046	317.6722	.0013633	.0856880
#2	.0309020	.5741102	.0026935	.000070	308.1466	-.000891	.0855774
#3	.0308918	.5325703	.0025500	-.000387	311.8464	-.000112	.0855828

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3685115**	**.0209029**	**.0001532**	**-.001089**	**.0008773**	**.6019695**	**.0132935**
Stddev	.0267951	.0006674	.0002634	.000876	.0002938	.0087033	.0025138
%RSD	7.271177	3.192827	171.9226	80.46440	33.49046	1.445800	18.91030
#1	.3772602	.0212927	.0001475	-.000086	.0012163	.5928210	.0111522
#2	.3384355	.0201323	.0004195	-.001478	.0006965	.6101459	.0160613
#3	.3898388	.0212838	-.000107	-.001704	.0007191	.6029416	.0126668

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-05DUP Acquired: 3/13/2025 17:13:02 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3217331	-.002187	.0457207
Stddev	.0023935	.001341	.0001398
%RSD	.7439439	61.30223	.3057342
#1	.3218438	-.001701	.0457940
#2	.3192862	-.001157	.0458086
#3	.3240693	-.003703	.0455595

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3312.076	73285.15	15189.48	2132.759	4420.887
Stddev	12.425	169.52	8.26	18.596	22.101
%RSD	.3751574	.2313179	.0544068	.8719062	.4999334
#1	3305.670	73209.87	15180.06	2111.863	4412.514
#2	3326.397	73166.31	15192.90	2138.929	4445.951
#3	3304.160	73479.28	15195.49	2147.486	4404.194

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-05LX5 Acquired: 3/13/2025 17:17:28 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001784**	**-.000967**	**.0090504**	**.0008835**	**.0005334**	**.0022095**	**.0448592**
Stddev	.003234	.001118	.0003225	.0038797	.0022112	.0019108	.0007753
%RSD	181.2150	115.5987	3.563419	439.1318	414.5606	86.48224	1.728232
#1	-.002067	-.000263	.0088498	-.003000	-.001010	.0004386	.0456967
#2	.001581	-.000382	.0094225	.004759	.003066	.0042348	.0447145
#3	-.004867	-.002257	.0088791	.000891	-.000456	.0019552	.0441666

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000024**	**.0001414**	**1.611679**	**.0008703**	**.0000710**	**.0020672**	**.0064983**
Stddev	.000078	.0000430	.011726	.0001316	.0001894	.0003345	.0041999
%RSD	331.2480	30.41338	.7275711	15.11956	266.9620	16.18179	64.63079
#1	-.000061	.0001571	1.601073	.0010078	.0001271	.0022624	.0016832
#2	-.000076	.0000928	1.609694	.0007455	.0002260	.0016810	.0094058
#3	.000066	.0001744	1.624271	.0008578	-.000140	.0022583	.0084060

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057887**	**.1104509**	**.0005571**	**-.000375**	**60.55737**	**.0015784**	**.0173123**
Stddev	.0000237	.0088612	.0000557	.000207	.07779	.0010153	.0003570
%RSD	.4100770	8.022755	10.00369	55.18888	.1284599	64.32383	2.062419
#1	.0057622	.1132765	.0005859	-.000160	60.49374	.0009870	.0170945
#2	.0057958	.1005215	.0004928	-.000392	60.64409	.0027508	.0171180
#3	.0058080	.1175547	.0005924	-.000574	60.53427	.0009976	.0177244

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1892175**	**.0001433**	**-.000052**	**-.001135**	**.0009370**	**.1145914**	**.0007089**
Stddev	.0287266	.0008151	.000098	.000263	.0007003	.0017346	.0022815
%RSD	15.18177	568.5852	189.5401	23.15521	74.74032	1.513741	321.8542
#1	.1830168	.0008771	-.000108	-.001104	.0017447	.1149503	-.000080
#2	.2205380	.0002869	.000061	-.000890	.0005687	.1127054	.003280
#3	.1640977	-.000734	-.000108	-.001413	.0004977	.1161185	-.001074

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-05LX5 Acquired: 3/13/2025 17:17:28 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0649829	.0058895	.0095564
Stddev	.0016133	.0007865	.0000662
%RSD	2.482683	13.35440	.6930471
#1	.0662940	.0065261	.0096304
#2	.0654735	.0050102	.0095027
#3	.0631812	.0061320	.0095360

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3417.377	73602.80	14146.76	2191.959	4687.391
Stddev	14.372	217.25	92.52	4.359	26.771
%RSD	.4205571	.2951711	.6540367	.1988738	.5711229
#1	3427.466	73625.30	14072.94	2189.281	4704.243
#2	3423.744	73375.18	14250.56	2189.608	4701.407
#3	3400.921	73807.93	14116.78	2196.990	4656.522

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV06 Acquired: 3/13/2025 17:21:47 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.070560**	**5.074795**	**5.180185**	**4.973060**	**4.975558**	**10.02855**	**9.979444**
Stddev	.034682	.046561	.026150	.033134	.025544	.02319	.145857
%RSD	.6839956	.9175045	.5048149	.6662688	.5133850	.2312024	1.461573
#1	5.036596	5.047242	5.156147	4.938871	4.957024	10.03031	9.832020
#2	5.069164	5.048590	5.176379	4.975282	4.964955	10.05081	10.12368
#3	5.105919	5.128554	5.208030	5.005027	5.004696	10.00454	9.98263

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2638450**	**2.572398**	**25.66825**	**1.058839**	**2.548582**	**1.272260**	**5.039567**
Stddev	.0008974	.011150	.08946	.002200	.011098	.004867	.022072
%RSD	.3401090	.4334522	.3485088	.2077467	.4354563	.3825317	.4379705
#1	.2646212	2.561565	25.76075	1.060903	2.537426	1.266930	5.064901
#2	.2640514	2.571789	25.66182	1.059088	2.548698	1.273383	5.029316
#3	.2628624	2.583840	25.58219	1.056525	2.559621	1.276467	5.024485

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.512560**	**26.02495**	**2.554966**	**1.287593**	**24.06556**	**2.544340**	**2.547271**
Stddev	.013961	.10363	.011261	.001123	.17258	.011570	.007410
%RSD	.5556487	.3982069	.4407403	.0872491	.7171246	.4547332	.2909081
#1	2.526458	26.13712	2.543163	1.288149	24.18020	2.556791	2.545524
#2	2.512684	25.93277	2.556143	1.286300	24.14942	2.542308	2.540890
#3	2.498537	26.00498	2.565592	1.288330	23.86708	2.533921	2.555399

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.79497**	**5.139561**	**5.081842**	**5.138306**	**5.007957**	**5.344049**	**5.220974**
Stddev	.06628	.006896	.023500	.028770	.023251	.013129	.027142
%RSD	.2673129	.1341724	.4624244	.5599038	.4642846	.2456717	.5198702
#1	24.84624	5.147523	5.060603	5.107989	5.029334	5.358560	5.195818
#2	24.81855	5.135513	5.077836	5.141700	5.011336	5.332993	5.217364
#3	24.72013	5.135647	5.107087	5.165228	4.983202	5.340594	5.249741

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV06 Acquired: 3/13/2025 17:21:47 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.970776**	**4.831627**	**5.034528**
Stddev	.024774	.025375	.055374
%RSD	.4983981	.5251762	1.099880
#1	4.946900	4.848240	5.083735
#2	4.969068	4.844223	4.974566
#3	4.996360	4.802419	5.045284

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3330.323**	**71634.49**	**14271.63**	**2110.158**	**4448.119**
Stddev	14.411	111.11	38.96	2.053	19.082
%RSD	.4327278	.1551067	.2730124	.0972964	.4289878
#1	3339.323	71660.83	14253.82	2110.713	4459.706
#2	3337.945	71512.58	14244.75	2107.884	4458.556
#3	3313.702	71730.07	14316.31	2111.877	4426.095

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB06 Acquired: 3/13/2025 17:25:57 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001699**	**-.000211**	**.0000910**	**-.002051**	**.0020133**	**-.005019**	**.0028432**
Stddev	.001386	.001095	.0010910	.000573	.0014205	.000124	.0010628
%RSD	81.55911	518.0778	1198.352	27.91651	70.55642	2.472913	37.38246
#1	-.003133	.000423	-.000366	-.002674	.0014871	-.004889	.0016315
#2	-.000367	.000418	.001336	-.001547	.0036219	-.005033	.0032799
#3	-.001596	-.001475	-.000697	-.001933	.0009310	-.005136	.0036181

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000004**	**.0000253**	**-.003343**	**.0000433**	**.0000202**	**.0001708**	**.0036308**
Stddev	.000034	.0000145	.005017	.0006675	.0002889	.0003353	.0013984
%RSD	827.0824	57.23073	150.0544	1541.408	1431.859	196.3427	38.51338
#1	.000028	.0000086	-.009134	.0006447	.0002132	.0002502	.0031002
#2	-.000001	.0000343	-.000293	.0001601	.0001592	.0004593	.0025754
#3	-.000039	.0000330	-.000603	-.000675	-.000312	-.000197	.0052168

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000511**	**-.002129**	**-.000115**	**.0001199**	**.1472494**	**.0005229**	**-.000661**
Stddev	.000456	.004238	.000140	.0003738	.0055535	.0003479	.000463
%RSD	89.18601	199.0269	121.1342	311.7946	3.771513	66.53762	70.07025
#1	-.000846	-.004851	-.000270	-.000197	.1428295	.0007790	-.000866
#2	.000008	-.004289	.000002	.000532	.1454356	.0001268	-.000986
#3	-.000696	.002753	-.000079	.000025	.1534830	.0006630	-.000131

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0919917**	**.0006153**	**.0002540**	**-.000496**	**.0014592**	**.0090047**	**-.005417**
Stddev	.0299547	.0006491	.0001316	.000306	.0002656	.0016308	.001800
%RSD	32.56240	105.4847	51.80498	61.57886	18.20148	18.11017	33.22330
#1	.1068191	.0008603	.0004057	-.000186	.0011539	.0084052	-.007360
#2	.1116408	.0011062	.0001856	-.000506	.0016373	.0108503	-.003808
#3	.0575152	-.000121	.0001708	-.000797	.0015862	.0077585	-.005083

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB06 Acquired: 3/13/2025 17:25:57 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000533	.0032378	.0000831
Stddev	.002593	.0002271	.0000606
%RSD	486.6956	7.014166	72.85795
#1	-.002352	.0035000	.0000899
#2	.002436	.0031111	.0001399
#3	-.001682	.0031023	.0000194

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3443.227	74472.28	14283.41	2185.324	4980.677
Stddev	3.649	107.30	61.04	1.827	10.245
%RSD	.1059790	.1440872	.4273246	.0836048	.2057005
#1	3447.439	74353.46	14256.70	2183.253	4988.809
#2	3441.194	74562.12	14240.28	2186.707	4984.052
#3	3441.047	74501.25	14353.25	2186.011	4969.170

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-05MS Acquired: 3/13/2025 17:30:17 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8054089**	**1.776928**	**.9752016**	**1.902398**	**.7815544**	**1.934399**	**.3865491**
Stddev	.0021824	.017224	.0013119	.004230	.0034398	.005462	.0011943
%RSD	.2709648	.9692998	.1345227	.2223450	.4401185	.2823419	.3089638
#1	.8028893	1.774244	.9764042	1.897929	.7826317	1.931763	.3877791
#2	.8066300	1.795336	.9738026	1.902926	.7777049	1.930755	.3853940
#3	.8067074	1.761204	.9753978	1.906339	.7843265	1.940678	.3864742

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1938814**	**.1969316**	**8.572990**	**.4166448**	**.1973208**	**.2943024**	**2.985841**
Stddev	.0002552	.0003003	.025872	.0013918	.0001762	.0007104	.023648
%RSD	.1316142	.1524676	.3017882	.3340435	.0892865	.2413671	.7919889
#1	.1941558	.1965924	8.552409	.4182518	.1974373	.2944844	2.999793
#2	.1936512	.1971635	8.564527	.4158269	.1974071	.2935188	2.958538
#3	.1938373	.1970388	8.602034	.4158557	.1971181	.2949041	2.999194

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2213221**	**2.423896**	**.4912662**	**.0749357**	**312.8173**	**.2927639**	**.2875034**
Stddev	.0012083	.010617	.0014386	.0002783	.8629	.0020241	.0020975
%RSD	.5459452	.4380306	.2928243	.3713971	.2758526	.6913767	.7295539
#1	.2225629	2.432309	.4897942	.0751937	313.1696	.2937448	.2861755
#2	.2201492	2.411966	.4926687	.0749727	311.8340	.2904363	.2899215
#3	.2212542	2.427412	.4913358	.0746407	313.4484	.2941107	.2864133

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.30773**	**.2848920**	**.4084299**	**.6926895**	**.1910236**	**1.408579**	**5.987482**
Stddev	.03202	.0019226	.0003072	.0025453	.0009716	.002829	.016755
%RSD	.3106252	.6748670	.0752093	.3674475	.5086088	.2008303	.2798408
#1	10.34427	.2826908	.4087614	.6897506	.1910427	1.405366	5.982111
#2	10.29436	.2857427	.4081549	.6941370	.1900426	1.409676	6.006264
#3	10.28457	.2862426	.4083735	.6941810	.1919855	1.410696	5.974070

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-05MS Acquired: 3/13/2025 17:30:17 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2923244	.1878519	.2309340
Stddev	.0049175	.0005952	.0010136
%RSD	1.682198	.3168229	.4389157
#1	.2887450	.1872138	.2319475
#2	.2902967	.1879499	.2299203
#3	.2979314	.1883919	.2309343

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3301.660	71234.09	14721.93	2081.256	4398.238
Stddev	7.980	155.59	15.17	8.342	4.232
%RSD	.2417102	.2184242	.1030548	.4008356	.0962101
#1	3298.839	71073.28	14713.23	2089.327	4402.751
#2	3310.667	71383.87	14739.45	2072.667	4397.604
#3	3295.473	71245.12	14713.11	2081.775	4394.359

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-05MSD Acquired: 3/13/2025 17:34:27 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8048625	1.774762	.9745565	1.901528	.7793531	1.928115	.3851094
Stddev	.0031539	.014093	.0014661	.002713	.0024018	.001631	.0015671
%RSD	.3918496	.7940674	.1504328	.1426590	.3081775	.0846059	.4069193
#1	.8083784	1.765930	.9732413	1.901375	.7809157	1.927823	.3865526
#2	.8039264	1.767342	.9761371	1.904314	.7805561	1.926648	.3834425
#3	.8022826	1.791015	.9742910	1.898895	.7765876	1.929872	.3853330

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1972624	.1963376	8.595865	.4131216	.1971878	.2949192	2.927167
Stddev	.0009500	.0004752	.010826	.0012819	.0007573	.0006672	.018633
%RSD	.4815729	.2420113	.1259443	.3102886	.3840530	.2262438	.6365633
#1	.1962368	.1964773	8.583376	.4140251	.1970046	.2941703	2.945097
#2	.1981121	.1967273	8.601640	.4116545	.1980199	.2954505	2.907902
#3	.1974383	.1958083	8.602580	.4136853	.1965389	.2951368	2.928502

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2222659	2.440361	.4918535	.0744598	307.9242	.2950682	.2852711
Stddev	.0007006	.017399	.0005863	.0003967	5.9865	.0003357	.0002307
%RSD	.3152075	.7129492	.1191955	.5327901	1.944138	.1137827	.0808746
#1	.2221724	2.444963	.4919943	.0746900	314.8279	.2953768	.2850051
#2	.2216168	2.421125	.4923565	.0740017	304.1697	.2951171	.2853921
#3	.2230086	2.454996	.4912097	.0746876	304.7749	.2947107	.2854162

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.03774	.2884141	.4079748	.6895981	.1919059	1.363206	6.004339
Stddev	.03867	.0013246	.0012913	.0041954	.0013071	.003623	.018053
%RSD	.3852011	.4592782	.3165046	.6083867	.6811282	.2657392	.3006688
#1	10.06605	.2881573	.4073172	.6895660	.1924525	1.367363	5.984331
#2	9.99368	.2898483	.4094625	.6938096	.1928509	1.361536	6.019411
#3	10.05348	.2872366	.4071447	.6854189	.1904142	1.360720	6.009274

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-05MSD Acquired: 3/13/2025 17:34:27 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2949943	.1879431	.2309041
Stddev	.0037477	.0013592	.0003417
%RSD	1.270444	.7231986	.1479876
#1	.2986176	.1885229	.2312816
#2	.2911335	.1889162	.2308146
#3	.2952318	.1863901	.2306160

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3307.785	72059.37	14489.93	2111.347	4402.772
Stddev	12.666	239.41	36.14	6.400	13.066
%RSD	.3829028	.3322392	.2493886	.3031353	.2967677
#1	3308.533	71952.43	14531.45	2106.664	4400.033
#2	3294.761	72333.61	14465.63	2118.639	4391.293
#3	3320.059	71892.07	14472.69	2108.737	4416.991

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-05A Acquired: 3/13/2025 17:38:38 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7829580	1.753771	.9663901	1.848942	.7577616	1.867369	.3934170
Stddev	.0020516	.013210	.0058354	.010909	.0068801	.005234	.0020690
%RSD	.2620367	.7532208	.6038383	.5900392	.9079494	.2803050	.5259088
#1	.7834393	1.739277	.9596840	1.836860	.7498645	1.862147	.3911323
#2	.7807085	1.765133	.9691737	1.851895	.7609610	1.872616	.3939545
#3	.7847261	1.756902	.9703124	1.858071	.7624595	1.867343	.3951643

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1890739	.1947889	8.644263	.4025309	.1959665	.2913008	2.965815
Stddev	.0001374	.0013168	.034914	.0014505	.0017982	.0014937	.017114
%RSD	.0726608	.6760061	.4038979	.3603326	.9175951	.5127641	.5770570
#1	.1890999	.1933803	8.629596	.4036398	.1939219	.2896676	2.965203
#2	.1889253	.1949974	8.619075	.4008895	.1966755	.2916372	2.949015
#3	.1891964	.1959890	8.684118	.4030635	.1973022	.2925976	2.983228

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2206660	2.425931	.4898202	.0725965	310.7105	.2895875	.2777064
Stddev	.0015616	.015972	.0039856	.0001152	5.2532	.0022333	.0009897
%RSD	.7076945	.6583843	.8136868	.1587004	1.690711	.7711838	.3563755
#1	.2200162	2.436792	.4855243	.0724775	306.0685	.2870634	.2788043
#2	.2195342	2.407592	.4905386	.0726047	309.6498	.2903918	.2774322
#3	.2224476	2.433410	.4933978	.0727075	316.4131	.2913071	.2768828

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.22734	.2764221	.4012346	.6802892	.1889453	1.379887	5.978197
Stddev	.02794	.0006874	.0020955	.0042340	.0010657	.017802	.040697
%RSD	.2731582	.2486650	.5222679	.6223886	.5640339	1.290070	.6807595
#1	10.21298	.2771268	.3988345	.6759427	.1884716	1.364518	5.937845
#2	10.20951	.2757536	.4027008	.6805239	.1881986	1.375751	5.977516
#3	10.25954	.2763859	.4021685	.6844010	.1901658	1.399393	6.019231

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-05A Acquired: 3/13/2025 17:38:38 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2912400	.1874482	.2314363
Stddev	.0063610	.0002733	.0009829
%RSD	2.184112	.1458141	.4247046
#1	.2869222	.1872562	.2304579
#2	.2882531	.1873272	.2314273
#3	.2985448	.1877611	.2324237

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3332.774	72962.00	14974.87	2158.487	4416.640
Stddev	18.784	342.59	64.06	7.818	31.838
%RSD	.5636280	.4695420	.4277693	.3621992	.7208620
#1	3351.576	72856.22	14979.87	2151.900	4446.326
#2	3332.740	73345.00	15036.29	2167.127	4420.577
#3	3314.008	72684.78	14908.46	2156.436	4383.016

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-10 Acquired: 3/13/2025 17:42:48 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001476**	**-.004217**	**.0129484**	**.0033742**	**.0009026**	**.0203576**	**.2650763**
Stddev	.002350	.001986	.0016847	.0009776	.0008079	.0039406	.0006083
%RSD	159.2178	47.09916	13.01117	28.97132	89.51191	19.35705	.2294933
#1	-.001328	-.005968	.0142501	.0029741	.0005818	.0241980	.2649918
#2	.000797	-.004625	.0135495	.0044884	.0003043	.0205508	.2657225
#3	-.003897	-.002059	.0110456	.0026602	.0018216	.0163239	.2645147

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000009**	**.0001161**	**11.22772**	**-.000079**	**.0153508**	**.0116022**	**1.403295**
Stddev	.000013	.0000445	.01271	.000167	.0002448	.0003225	.005320
%RSD	143.2805	38.29374	.1131789	210.5415	1.594453	2.779530	.3791134
#1	.000003	.0001671	11.23633	.000010	.0152598	.0116404	1.407969
#2	-.000007	.0000855	11.21312	-.000273	.0156280	.0112624	1.404411
#3	-.000022	.0000957	11.23370	.000024	.0151646	.0119040	1.397506

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3676692**	**.6166513**	**.0037323**	**-.000135**	**316.6692**	**.0015856**	**.0853280**
Stddev	.0002794	.0125569	.0003991	.000244	4.9896	.0009242	.0002517
%RSD	.0759820	2.036304	10.69322	180.9761	1.575661	58.28986	.2949723
#1	.3678330	.6092688	.0033322	.000142	321.0825	.0007325	.0850504
#2	.3673466	.6311500	.0037343	-.000316	317.6701	.0014567	.0855413
#3	.3678280	.6095352	.0041304	-.000230	311.2550	.0025675	.0853923

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9165102**	**.0308125**	**-.000002**	**-.001309**	**.0008983**	**.8082710**	**.0097488**
Stddev	.0170686	.0003518	.000198	.000359	.0002631	.0094446	.0030642
%RSD	1.862348	1.141598	12039.96	27.46419	29.29056	1.168492	31.43164
#1	.9104422	.0306746	-.000224	-.001677	.0010677	.8073207	.0096132
#2	.9033046	.0305505	.000064	-.001290	.0005952	.8181548	.0128786
#3	.9357837	.0312123	.000155	-.000959	.0010322	.7993375	.0067546

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1547-10 Acquired: 3/13/2025 17:42:48 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3950351	-.001895	.0793749
Stddev	.0026865	.000878	.0000804
%RSD	.6800765	46.35003	.1012266
#1	.3976106	-.002555	.0794356
#2	.3922498	-.000898	.0794052
#3	.3952448	-.002232	.0792838

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3314.798	71850.90	14515.51	2131.317	4415.137
Stddev	3.402	450.19	15.36	12.406	9.888
%RSD	.1026265	.6265620	.1057964	.5820611	.2239616
#1	3317.711	71743.58	14529.57	2119.854	4415.663
#2	3311.059	71464.07	14499.12	2129.609	4404.996
#3	3315.624	72345.06	14517.83	2144.488	4424.751

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1552-05 Acquired: 3/13/2025 17:47:14 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065243	-.002203	.0171192	.0016177	.0029561	.0892956	.5991115
Stddev	.0027373	.000914	.0008813	.0007334	.0016303	.0047909	.0011874
%RSD	41.95546	41.48921	5.148008	45.33816	55.14842	5.365179	.1981853
#1	.0090103	-.003090	.0161540	.0007808	.0024748	.0838863	.5996446
#2	.0069718	-.002255	.0178811	.0021487	.0047728	.0930038	.5999388
#3	.0035909	-.001264	.0173224	.0019235	.0016207	.0909966	.5977510

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001268	-.000863	12.96602	.0003235	.0018501	.0192508	12.24144
Stddev	.0000265	.000060	.01768	.0003165	.0001585	.0000132	.04494
%RSD	20.93790	6.891746	.1363639	97.81453	8.565060	.0684130	.3671527
#1	.0001563	-.000923	12.95709	.0006773	.0019931	.0192655	12.29157
#2	.0001192	-.000804	12.98639	.0000675	.0018773	.0192403	12.22803
#3	.0001048	-.000862	12.95459	.0002258	.0016797	.0192466	12.20473

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2256814	4.435617	.0029199	.0003008	340.3673	.0029253	.2847634
Stddev	.0006634	.041410	.0004419	.0005018	2.1381	.0012995	.0011995
%RSD	.2939445	.9335734	15.13525	166.8495	.6281888	44.42206	.4212201
#1	.2260495	4.415710	.0024650	-.000047	338.1237	.0014862	.2845928
#2	.2260790	4.483221	.0033476	.000876	342.3814	.0032769	.2860391
#3	.2249155	4.407920	.0029470	.000074	340.5969	.0040128	.2836584

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.971155	.1473849	.0000203	-.001819	.0024593	1.178881	.1430528
Stddev	.012690	.0006097	.0001869	.000492	.0001681	.007422	.0005261
%RSD	.4271168	.4136668	919.7099	27.04650	6.837493	.6295741	.3677344
#1	2.981942	.1476838	-.000132	-.001909	.0025553	1.187451	.1436600
#2	2.974351	.1477874	-.000036	-.002261	.0022651	1.174695	.1427374
#3	2.957172	.1466834	.000229	-.001289	.0025574	1.174499	.1427608

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1552-05 Acquired: 3/13/2025 17:47:14 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6568495	.0033785	.1127152
Stddev	.0063565	.0003501	.0004829
%RSD	.9677231	10.36353	.4284580
#1	.6511051	.0037666	.1131441
#2	.6557647	.0032826	.1128095
#3	.6636785	.0030864	.1121921

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3281.737	71845.75	15035.45	2104.045	4377.629
Stddev	23.833	110.53	87.35	5.906	22.423
%RSD	.7262273	.1538484	.5809370	.2806863	.5122079
#1	3300.428	71777.69	15089.77	2097.228	4392.404
#2	3289.884	71786.28	14934.69	2107.610	4388.655
#3	3254.899	71973.29	15081.89	2107.296	4351.829

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB167117BL Acquired: 3/13/2025 17:51:38 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002026	.0007802	.0004670	.0013533	.0019466	-.006017	.0022761
Stddev	.0024422	.0023288	.0008029	.0020450	.0002752	.004070	.0019383
%RSD	1205.555	298.4709	171.9201	151.1039	14.13778	67.64652	85.15835
#1	-.002595	.0029481	.0012246	.0025787	.0021575	-.006957	.0003452
#2	.001908	-.001682	.0005512	-.001007	.0020470	-.001559	.0022615
#3	.001295	.001074	-.000375	.002489	.0016353	-.009535	.0042218

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000351	.0000627	-.003878	.0002241	.0001068	.0000847	.0023057
Stddev	.0000344	.0000725	.013588	.0002275	.0001004	.0002176	.0023236
%RSD	98.21450	115.6086	350.4104	101.4835	94.02358	256.7953	100.7755
#1	-.000003	.0000499	-.004134	.0004867	.0000832	.0002066	.0007031
#2	.000043	.0001407	.009837	.0000870	.0002168	.0002140	.0012434
#3	.000065	-.000003	-.017335	.0000987	.0000202	-.000166	.0049705

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000601	.0061467	-.000131	.0000069	.2191507	-.000444	-.001136
Stddev	.000136	.0070259	.000093	.0004202	.0239567	.001115	.000378
%RSD	22.72866	114.3039	70.55634	6070.931	10.93163	251.1875	33.29589
#1	-.000544	.0009451	-.000207	.0004493	.2046980	.000663	-.001287
#2	-.000501	.0033557	-.000159	-.000387	.2468041	-.001565	-.000705
#3	-.000756	.0141392	-.000028	-.000042	.2059499	-.000429	-.001414

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1057200	-.004164	.0000155	-.001340	.0006875	-.003753	-.003826
Stddev	.0128872	.000560	.0000406	.000395	.0004450	.002235	.001006
%RSD	12.18990	13.43631	261.0540	29.47277	64.72675	59.55941	26.30264
#1	.0923834	-.004810	.0000097	-.001016	.0006543	-.001439	-.003756
#2	.1181050	-.003848	-.000022	-.001224	.0002600	-.005901	-.002857
#3	.1066717	-.003835	.000059	-.001780	.0011481	-.003920	-.004866

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB167117BL Acquired: 3/13/2025 17:51:38 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001668	.0050715	-.000051
Stddev	.003015	.0005799	.000067
%RSD	180.7929	11.43367	132.8273
#1	-.003585	.0046129	-.000093
#2	.001808	.0048782	-.000086
#3	-.003227	.0057233	.000027

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3442.256	75017.49	14299.24	2198.246	4981.174
Stddev	26.034	227.09	56.77	10.024	33.301
%RSD	.7563199	.3027156	.3970086	.4560077	.6685332
#1	3460.057	75003.57	14354.23	2191.102	5008.733
#2	3454.335	74797.67	14302.65	2193.932	4990.617
#3	3412.376	75251.21	14240.84	2209.705	4944.171

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB167117BS Acquired: 3/13/2025 17:55:58 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7915988**	**1.969029**	**.9639414**	**1.917598**	**.7791807**	**1.881172**
Stddev	.0023670	.010462	.0028571	.008878	.0057612	.007330
%RSD	.2990178	.5313524	.2963933	.4629503	.7393895	.3896592
#1	.7901028	1.979217	.9614438	1.910513	.7765056	1.889323
#2	.7903658	1.958312	.9633236	1.914726	.7752433	1.875122
#3	.7943278	1.969560	.9670568	1.927556	.7857930	1.879072

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1768342**	**.2103217**	**.1918852**	**.9809289**	**.4071497**	**.1933373**
Stddev	.0012133	.0019895	.0005856	.0078170	.0007045	.0007390
%RSD	.6861455	.9459343	.3051901	.7968953	.1730202	.3822288
#1	.1781222	.2121099	.1914703	.9891518	.4063363	.1927412
#2	.1757127	.2081787	.1916302	.9735936	.4075632	.1931066
#3	.1766678	.2106766	.1925551	.9800414	.4075495	.1941641

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3039258**	**2.703886**	**.1911803**	**1.922416**	**.4861262**	**.0742940**
Stddev	.0018646	.015876	.0008023	.012994	.0021139	.0002342
%RSD	.6134936	.5871459	.4196487	.6759262	.4348452	.3152758
#1	.3026845	2.691756	.1921002	1.937322	.4843242	.0744693
#2	.3030229	2.721854	.1908151	1.913475	.4856015	.0740280
#3	.3060699	2.698047	.1906256	1.916452	.4884531	.0743848

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.563249**	**.2841139**	**.1986337**	**8.535070**	**.2964622**	**.3968197**
Stddev	.010065	.0008028	.0013191	.093072	.0025137	.0014581
%RSD	.3926812	.2825746	.6640611	1.090470	.8478813	.3674397
#1	2.574362	.2833799	.1974732	8.430665	.2993626	.3960770
#2	2.560637	.2839904	.1983597	8.609345	.2949154	.3958825
#3	2.554746	.2849713	.2000682	8.565199	.2951086	.3984996

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: PB167117BS Acquired: 3/13/2025 17:55:58 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6827311	.1861890	F .7200973	5.669972	F -.012793	.1894475
Stddev	.0026389	.0005913	.0088082	.022149	.001121	.0006043
%RSD	.3865149	.3175847	1.223197	.3906314	8.760268	.3189996
#1	.6807695	.1864352	.7111301	5.657505	-.012709	.1901453
#2	.6816926	.1855144	.7287374	5.656867	-.013954	.1890927
#3	.6857312	.1866174	.7204245	5.695545	-.011717	.1891046

Elem	Sr4077
Units	ppm
Avg	.1820682
Stddev	.0005008
%RSD	.2750717
#1	.1826421
#2	.1818424
#3	.1817200

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3448.328	75706.46	14094.24	2223.248	4855.039
Stddev	7.357	149.13	121.96	10.576	5.520
%RSD	.2133536	.1969897	.8652846	.4757170	.1137027
#1	3445.896	75878.04	13968.58	2228.381	4855.738
#2	3456.593	75633.34	14212.12	2230.279	4860.177
#3	3442.494	75607.99	14102.02	2211.085	4849.203

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1545-01DLX5 Acquired: 3/13/2025 17:59:59 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170219	.0024836	.0144592	-.002638	-.000346	9.011489
Stddev	.0020997	.0012610	.0012113	.003394	.001172	.006207
%RSD	12.33504	50.77245	8.377577	128.6772	338.8989	.0688825
#1	.0178856	.0013724	.0155622	.000368	-.001282	9.008279
#2	.0185520	.0038540	.0146528	-.006318	.000969	9.007544
#3	.0146281	.0022242	.0131628	-.001962	-.000725	9.018644

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0921931	.0000863	-.001258	34.91364	.0271494	.0073963
Stddev	.0009436	.0000329	.000049	.06975	.0001865	.0002136
%RSD	1.023498	38.06508	3.883007	.1997810	.6869212	2.888532
#1	.0929442	.0000746	-.001254	34.89520	.0272833	.0076395
#2	.0911340	.0001234	-.001308	34.85495	.0269364	.0072391
#3	.0925011	.0000609	-.001211	34.99075	.0272285	.0073102

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0309426	36.93689	9.924113	14.80785	.0136921	-.000722
Stddev	.0006333	.31811	.033317	.03720	.0004416	.000235
%RSD	2.046597	.8612376	.3357132	.2512248	3.225447	32.50173
#1	.0311913	36.60500	9.916204	14.80099	.0131824	-.000969
#2	.0302227	36.96650	9.895464	14.77456	.0139333	-.000695
#3	.0314137	37.23916	9.960673	14.84800	.0139607	-.000502

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	386.5274	.0216014	.0718662	2.723940	-.047564	.0006928
Stddev	3.5252	.0011359	.0005519	.048148	.001901	.0002076
%RSD	.9120271	5.258249	.7679601	1.767592	3.996508	29.96530
#1	384.5733	.0215025	.0715897	2.671768	-.049686	.0009029
#2	384.4120	.0205182	.0725017	2.733388	-.046991	.0004878
#3	390.5969	.0227834	.0715071	2.766663	-.046015	.0006876

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1545-01DLX5 Acquired: 3/13/2025 17:59:59 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001898	.1856285	F 11.83799	.4088863	1.036876	.0262526
Stddev	.000271	.0007611	.08257	.0049381	.000951	.0003427
%RSD	14.29878	.4100035	.6975076	1.207685	.0917025	1.305339
#1	-.002074	.1856004	11.74394	.4138808	1.037624	.0264353
#2	-.001586	.1848818	11.89857	.4040067	1.035806	.0258573
#3	-.002034	.1864032	11.87145	.4087713	1.037199	.0264653

Elem	Sr4077
Units	ppm
Avg	.1472532
Stddev	.0006539
%RSD	.4440487
#1	.1468921
#2	.1468596
#3	.1480080

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3271.172	70599.06	14072.54	2135.785	4128.296
Stddev	15.973	255.92	45.47	11.047	16.552
%RSD	.4883032	.3624924	.3231457	.5172305	.4009316
#1	3258.229	70889.53	14024.36	2147.831	4118.775
#2	3289.023	70500.87	14114.71	2133.395	4147.408
#3	3266.262	70406.77	14078.54	2126.129	4118.705

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-13DLX10 Acquired: 3/13/2025 18:04:21 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1022843**	**.0223009**	**2.571095**	**-.050084**	**-.013178**	**284.7247**
Stddev	.0017292	.0041504	.007901	.003013	.002530	.1135
%RSD	1.690601	18.61102	.3072862	6.015337	19.19993	.0398609
#1	.1041675	.0257956	2.565552	-.046697	-.014999	284.6056
#2	.1007679	.0233937	2.567591	-.052465	-.010289	284.8316
#3	.1019176	.0177134	2.580141	-.051089	-.014248	284.7370

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5233256**	**.0217035**	**.0402230**	**57.42780**	**.5574380**	**.3451633**
Stddev	.0006985	.0000845	.0004275	.15995	.0025622	.0009757
%RSD	.1334705	.3893074	1.062766	.2785251	.4596355	.2826913
#1	.5236591	.0216546	.0397310	57.38922	.5547023	.3441247
#2	.5225229	.0216549	.0404343	57.29066	.5578302	.3453043
#3	.5237949	.0218011	.0405037	57.60351	.5597815	.3460608

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.824043**	**350.6715**	**12.69073**	**86.13104**	**.7479633**	**-.003961**
Stddev	.012923	1.0768	.04038	.37665	.0025189	.000276
%RSD	.2678863	.3070723	.3181532	.4373045	.3367620	6.971453
#1	4.812596	349.4983	12.67626	85.84704	.7452929	-.004088
#2	4.821475	350.9013	12.65958	85.98779	.7483002	-.004151
#3	4.838056	351.6149	12.73634	86.55831	.7502967	-.003644

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.24047**	**.4492488**	**8.696345**	**29.93002**	**-.353234**	**.0206279**
Stddev	.07908	.0013519	.029396	.11696	.001677	.0002494
%RSD	.3555560	.3009268	.3380319	.3907807	.4747067	1.209221
#1	22.15296	.4487370	8.717193	29.79779	-.355023	.0207882
#2	22.30679	.4482276	8.709120	30.01993	-.351699	.0207549
#3	22.26168	.4507820	8.662723	29.97235	-.352980	.0203405

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-13DLX10 Acquired: 3/13/2025 18:04:21 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0214499	1.234721	7.717380	F 18.48676	F 87.48469	.5545051
Stddev	.0025542	.000455	.114995	.06523	.46598	.0005815
%RSD	11.90768	.0368563	1.490077	.3528220	.5326435	.1048614
#1	.0238381	1.234335	7.589902	18.42637	87.04349	.5544155
#2	.0187571	1.234604	7.748938	18.47800	87.43856	.5539736
#3	.0217547	1.235223	7.813302	18.55593	87.97202	.5551261

Elem	Sr4077
Units	ppm
Avg	.4112732
Stddev	.0008092
%RSD	.1967433
#1	.4110322
#2	.4106120
#3	.4121755

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4552.144	97889.61	21138.50	2939.536	4025.720
Stddev	8.663	271.96	39.06	8.550	14.371
%RSD	.1903111	.2778246	.1847714	.2908662	.3569917
#1	4558.801	98201.88	21138.88	2942.275	4038.961
#2	4555.283	97704.73	21177.37	2929.951	4027.762
#3	4542.349	97762.21	21099.26	2946.380	4010.436

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-07DLX10 Acquired: 3/13/2025 18:08:39 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0862058**	**.0064891**	**26.93084**	**-.031791**	**-.003453**	**103.2196**
Stddev	.0036085	.0020533	.04572	.003922	.001252	.0756
%RSD	4.185907	31.64200	.1697795	12.33763	36.26275	.0732881
#1	.0890827	.0045043	26.90652	-.030398	-.003646	103.1848
#2	.0821570	.0086046	26.98358	-.036220	-.002116	103.3063
#3	.0873776	.0063584	26.90241	-.028756	-.004598	103.1675

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.496819**	**.0087592**	**.0076460**	**564.7645**	**.3202701**	**.1395883**
Stddev	.002441	.0000907	.0000646	5.0496	.0005047	.0006689
%RSD	.1630600	1.035199	.8445012	.8941072	.1575845	.4792035
#1	1.496461	.0087619	.0075768	563.8417	.3200415	.1390928
#2	1.499418	.0086673	.0076567	560.2399	.3208487	.1403492
#3	1.494576	.0088486	.0077046	570.2118	.3199203	.1393229

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.700912**	**247.3903**	**4.825668**	**54.93974**	**.4562169**	**-.002149**
Stddev	.003245	.6480	.011235	.18768	.0010667	.000417
%RSD	.0690259	.2619169	.2328095	.3416097	.2338138	19.39812
#1	4.697550	247.4296	4.824119	54.93940	.4553863	-.002606
#2	4.704025	248.0177	4.815288	54.75224	.4574199	-.002054
#3	4.701161	246.7236	4.837597	55.12760	.4558446	-.001788

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.49326**	**.2929330**	**6.410060**	**22.25902**	**-.145706**	**.0089791**
Stddev	.07869	.0026510	.032840	.15797	.010211	.0001093
%RSD	.5429404	.9049732	.5123256	.7096987	7.007671	1.216702
#1	14.55383	.2932502	6.396969	22.25792	-.140621	.0091030
#2	14.52161	.2901377	6.447427	22.41754	-.139037	.0089375
#3	14.40432	.2954110	6.385784	22.10160	-.157461	.0088968

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-07DLX10 Acquired: 3/13/2025 18:08:39 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0423719	3.253808	F 18.40142	7.203053	F 55.29131	.1680698
Stddev	.0008652	.004714	.07705	.029888	.12953	.0014155
%RSD	2.041947	.1448818	.4187181	.4149340	.2342682	.8421837
#1	.0413931	3.254518	18.33836	7.211804	55.34307	.1666120
#2	.0430345	3.248779	18.48731	7.227588	55.38696	.1694387
#3	.0426881	3.258127	18.37860	7.169766	55.14391	.1681585

Elem	Sr4077
Units	ppm
Avg	1.548391
Stddev	.007528
%RSD	.4861739
#1	1.545969
#2	1.556831
#3	1.542371

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3426.250	74900.53	15603.49	2196.010	3879.085
Stddev	8.005	181.41	47.35	9.732	10.430
%RSD	.2336384	.2421959	.3034707	.4431565	.2688665
#1	3435.122	74893.59	15607.79	2198.366	3888.499
#2	3419.566	74722.70	15648.55	2185.316	3867.874
#3	3424.062	75085.31	15554.14	2204.348	3880.881

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV07 Acquired: 3/13/2025 18:12:58 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.254388**	**5.221212**	**5.332944**	**5.179713**	**5.162615**	**10.18104**
Stddev	.048924	.044526	.041213	.040368	.050289	.06042
%RSD	.9311049	.8527958	.7727917	.7793568	.9740994	.5934582
#1	5.197991	5.177267	5.285666	5.134139	5.104596	10.11517
#2	5.279750	5.220071	5.351888	5.194026	5.189564	10.23388
#3	5.285424	5.266297	5.361279	5.210976	5.193687	10.19408

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.962327**	**.2672721**	**2.640300**	**25.76465**	**1.087808**	**2.615391**
Stddev	.060391	.0008855	.021218	.14461	.012822	.020552
%RSD	.6061921	.3312967	.8036072	.5612644	1.178697	.7857998
#1	10.00761	.2664202	2.615805	25.60074	1.073566	2.591745
#2	9.89376	.2672085	2.652100	25.87422	1.098434	2.625479
#3	9.98561	.2681877	2.652994	25.81898	1.091424	2.628950

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.306956**	**5.150240**	**2.544194**	**26.05334**	**2.617499**	**1.313131**
Stddev	.010507	.065874	.019611	.07392	.022838	.012119
%RSD	.8039464	1.279038	.7708143	.2837142	.8725118	.9228858
#1	1.294839	5.075627	2.521549	25.96955	2.591134	1.300059
#2	1.312469	5.200355	2.555535	26.08113	2.631178	1.323991
#3	1.313559	5.174737	2.555499	26.10933	2.630185	1.315344

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.66040**	**2.570958**	**2.595571**	**25.00401**	**5.246646**	**5.216289**
Stddev	.42158	.018422	.029200	.42589	.013967	.044314
%RSD	1.709558	.7165549	1.124992	1.703298	.2662081	.8495342
#1	24.19484	2.550475	2.564434	24.55443	5.234129	5.165403
#2	25.01635	2.576229	2.622342	25.40141	5.244098	5.237075
#3	24.77001	2.586170	2.599937	25.05618	5.261712	5.246389

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV07 Acquired: 3/13/2025 18:12:58 Type: Unk
Method: NON EPA-6010-200.7(v2806) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.313756**	**5.052778**	F **5.519977**	**5.319648**	**5.136323**	**4.878473**
Stddev	.047327	.033179	.068772	.041890	.048683	.045993
%RSD	.8906497	.6566519	1.245870	.7874668	.9478087	.9427808
#1	5.259250	5.014857	5.443314	5.271430	5.080244	4.826468
#2	5.344424	5.076470	5.576242	5.340427	5.161001	4.913803
#3	5.337594	5.067006	5.540376	5.347088	5.167724	4.895147

Elem	Sr4077
Units	ppm
Avg	**5.119384**
Stddev	.020533
%RSD	.4010807
#1	5.108787
#2	5.106315
#3	5.143051

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3272.996**	**71055.81**	**14168.57**	**2078.755**	**4369.971**
Stddev	22.191	646.02	33.00	24.128	27.584
%RSD	.6779892	.9091739	.2328852	1.160690	.6312094
#1	3298.608	71761.75	14189.73	2102.833	4401.748
#2	3259.525	70494.09	14185.42	2054.577	4352.208
#3	3260.855	70911.59	14130.55	2078.856	4355.957

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB07 Acquired: 3/13/2025 18:35:44 Type: Unk
Method: NON EPA-6010-200.7(v2807) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003443**	**.0003873**	**.0004767**	**.0010832**	**.0009277**	**.0350891**
Stddev	.001522	.0010169	.0011112	.0006958	.0011556	.0040293
%RSD	44.18568	262.5499	233.0825	64.24095	124.5647	11.48295
#1	-.001789	-.000784	.0013632	.0016384	-.000085	.0397410
#2	-.004782	.000907	-.000770	.0013085	.000682	.0326926
#3	-.003760	.001039	.000837	.0003026	.002186	.0328338

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009465**	**-.000005**	**-.000065**	**.0096253**	**.0004963**	**.0000982**
Stddev	.0007017	.000044	.000039	.0041656	.0003809	.0002168
%RSD	74.13561	908.8259	59.75856	43.27812	76.74513	220.8872
#1	.0001611	-.000019	-.000047	.0075401	.0000592	.0002414
#2	.0011665	.000044	-.000109	.0069141	.0007567	.0002043
#3	.0015117	-.000040	-.000038	.0144218	.0006731	-.000151

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006039**	**.0456432**	**.0021504**	**.0204709**	**.0001640**	**.0002486**
Stddev	.0000675	.0042720	.0002479	.0072105	.0001245	.0001780
%RSD	11.17303	9.359586	11.52942	35.22341	75.93418	71.61901
#1	.0006447	.0494763	.0024350	.0283610	.0001322	.0002498
#2	.0005260	.0464157	.0020348	.0188283	.0000585	.0000700
#3	.0006409	.0410377	.0019814	.0142233	.0003013	.0004261

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0744459**	**.0009945**	**.0003660**	**.0630431**	**-.002452**	**-.000039**
Stddev	.0171228	.0016565	.0000626	.0349635	.001099	.000028
%RSD	23.00033	166.5562	17.09595	55.45966	44.80499	71.70239
#1	.0688591	.0024193	.0004345	.0341530	-.003379	-.000007
#2	.0608144	.0013873	.0003118	.0530655	-.001238	-.000059
#3	.0936644	-.000823	.0003516	.1019108	-.002739	-.000049

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB07 Acquired: 3/13/2025 18:35:44 Type: Unk
Method: NON EPA-6010-200.7(v2807) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001294	.0018077	.0196236	-.003213	F .0105764	.0008358
Stddev	.000539	.0002666	.0016630	.001477	.0008338	.0008751
%RSD	41.61524	14.74733	8.474342	45.97745	7.883200	104.7094
#1	-.001272	.0021123	.0214618	-.004825	.0099689	.0000585
#2	-.001844	.0016167	.0191852	-.001924	.0115269	.0006652
#3	-.000767	.0016941	.0182237	-.002890	.0102333	.0017837

Elem	Sr4077
Units	ppm
Avg	.0000199
Stddev	.0000249
%RSD	125.3220
#1	.0000242
#2	.0000424
#3	-.000007

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3465.809	74589.02	14297.03	2176.017	5038.206
Stddev	16.453	86.96	33.31	13.109	24.663
%RSD	.4747272	.1165853	.2329689	.6024396	.4895245
#1	3446.816	74593.82	14274.26	2169.146	5009.920
#2	3474.902	74673.49	14335.26	2191.134	5049.486
#3	3475.708	74499.77	14281.57	2167.772	5055.213

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-13 Acquired: 3/13/2025 18:39:38 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3270694	-.033025	21.41415	-.263034	-.031657	781.4163
Stddev	.0031190	.007077	.05015	.002856	.001060	6.3263
%RSD	.9536128	21.42799	.2341727	1.085640	3.349443	.8095964
#1	.3276556	-.038157	21.47109	-.263092	-.032474	786.0940
#2	.3298537	-.035966	21.37656	-.265860	-.032037	783.9368
#3	.3236989	-.024952	21.39481	-.260150	-.030458	774.2183

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.437383	.0594507	1.075739	145.9756	1.428332	2.923285
Stddev	.022814	.0002198	.002333	1.3147	.002996	.006093
%RSD	.6637140	.3696677	.2168600	.9006635	.2097587	.2084450
#1	3.429059	.0595922	1.078389	146.5083	1.426276	2.928243
#2	3.419900	.0595625	1.073998	146.9404	1.431770	2.916483
#3	3.463191	.0591975	1.074829	144.4781	1.426951	2.925129

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.88596	761.5116	29.60540	219.2043	5.885835	^ *****
Stddev	.01148	.6561	.02656	.7846	.016053	-----
%RSD	.0965639	.0861624	.0897297	.3579284	.2727395	-----
#1	11.89438	760.8596	29.58664	220.0967	5.902078	^ -----
#2	11.89061	762.1718	29.63580	218.6228	5.869979	^ -----
#3	11.87289	761.5036	29.59377	218.8934	5.885448	^ -----

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	81.02651	1.141432	8.949270	105.9974	^ *****	.0576410
Stddev	.34721	.000680	.034570	.4467	-----	.0004293
%RSD	.4285129	.0595390	.3862850	.4213820	-----	.7448334
#1	81.35046	1.141694	8.948039	106.0247	^ -----	.0576574
#2	81.06911	1.140661	8.915333	106.4298	^ -----	.0572037
#3	80.65997	1.141942	8.984439	105.5377	^ -----	.0580618

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-13 Acquired: 3/13/2025 18:39:38 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1835505	3.277685	F 32.81593	F 145.4242	F 692.9766	1.624255
Stddev	.0048991	.004977	.13562	.4634	1.9244	.002916
%RSD	2.669069	.1518381	.4132840	.3186405	.2776968	.1795067
#1	.1779851	3.282186	32.68086	145.9374	695.0706	1.624150
#2	.1872110	3.272340	32.81481	145.2989	692.5735	1.627222
#3	.1854556	3.278529	32.95210	145.0364	691.2857	1.621393

Elem	Sr4077
Units	ppm
Avg	1.142834
Stddev	.002304
%RSD	.2015772
#1	1.145275
#2	1.142529
#3	1.140698

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10888.31	250594.6	62969.35	6941.948	2862.922
Stddev	8.58	73.6	213.05	25.582	7.556
%RSD	.0787597	.0293809	.3383423	.3685131	.2639273
#1	10879.16	250627.5	62782.97	6917.985	2854.782
#2	10889.60	250510.3	62923.49	6968.889	2869.713
#3	10896.16	250646.1	63201.60	6938.970	2864.270

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-07 Acquired: 3/13/2025 18:44:46 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5439785**	**-.083497**	F **241.6701**	**-.272098**	**-.011694**	**607.5722**
Stddev	.0033924	.004582	1.0146	.003927	.002788	7.1166
%RSD	.6236308	5.487869	.4198183	1.443187	23.83973	1.171312
#1	.5433965	-.085424	241.8076	-.269910	-.009418	615.2494
#2	.5476242	-.078266	240.5938	-.269752	-.014804	606.2716
#3	.5409147	-.086802	242.6089	-.276631	-.010861	601.1957

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.07703**	**.0475851**	**.4795052**	F **2560.086**	**1.519981**	**1.313382**
Stddev	.08283	.0001073	.0029304	14.691	.005200	.003976
%RSD	.5884360	.2253934	.6111251	.5738460	.3421333	.3027394
#1	14.00671	.0475380	.4808674	2563.716	1.515875	1.313734
#2	14.05605	.0475094	.4761417	2543.920	1.525829	1.309242
#3	14.16834	.0477078	.4815065	2572.621	1.518239	1.317171

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.66240**	F **1115.970**	**23.67159**	**279.0531**	**3.951546**	^ *****
Stddev	.03700	3.314	.21874	1.2945	.017125	-----
%RSD	.1632795	.2969617	.9240444	.4638946	.4333860	-----
#1	22.64464	1114.137	23.45971	279.2198	3.951784	^ -----
#2	22.63763	1119.795	23.89659	277.6832	3.934302	^ -----
#3	22.70494	1113.978	23.65845	280.2561	3.968551	^ -----

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**100.2919**	**1.482029**	**18.26090**	**152.1861**	^ *****	**.0495992**
Stddev	.4556	.012682	.09444	.3397	-----	.0003859
%RSD	.4542437	.8557162	.5171693	.2231854	-----	.7780140
#1	99.9145	1.478856	18.28238	151.8888	^ -----	.0496400
#2	100.1632	1.471235	18.34276	152.1132	^ -----	.0499631
#3	100.7980	1.495996	18.15758	152.5563	^ -----	.0491946

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1514-07 Acquired: 3/13/2025 18:44:46 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3947380	F 17.11657	F 129.8402	F 72.75713	F 537.6080	1.053862
Stddev	.0065202	.10482	.3042	.38230	2.4824	.002753
%RSD	1.651776	.6123847	.2343038	.5254530	.4617491	.2612256
#1	.3965038	17.12576	129.4900	72.94785	538.7103	1.055109
#2	.3875168	17.00746	130.0392	72.31699	534.7654	1.050706
#3	.4001935	17.21649	129.9913	73.00656	539.3484	1.055770

Elem	Sr4077
Units	ppm
Avg	7.920092
Stddev	.053802
%RSD	.6793103
#1	7.952254
#2	7.857980
#3	7.950043

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4502.425	105300.4	24213.46	2887.906	2679.360
Stddev	2.312	309.2	79.50	27.123	4.527
%RSD	.0513474	.2936664	.3283201	.9392015	.1689594
#1	4502.928	105357.8	24154.76	2871.983	2678.231
#2	4499.903	104966.4	24303.93	2872.511	2684.345
#3	4504.443	105576.8	24181.69	2919.224	2675.505

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-13REDLX10 Acquired: 3/13/2025 18:49:35 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0910011	.0243208	2.455129	-.048450	-.013600	281.8411
Stddev	.0029094	.0052299	.007811	.005036	.000662	3.9512
%RSD	3.197107	21.50400	.3181459	10.39479	4.866007	1.401922
#1	.0876463	.0187388	2.461332	-.042746	-.014132	285.1989
#2	.0925249	.0251159	2.457697	-.052283	-.012859	282.8373
#3	.0928322	.0291076	2.446357	-.050322	-.013810	277.4872

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4897239	.0211593	.0366803	55.95812	.5432403	.3299456
Stddev	.0019529	.0000052	.0008325	.05658	.0011444	.0000788
%RSD	.3987789	.0246773	2.269601	.1011191	.2106680	.0238820
#1	.4893227	.0211600	.0374780	55.97194	.5420008	.3299772
#2	.4880028	.0211641	.0367460	55.89591	.5442568	.3298559
#3	.4918463	.0211537	.0358169	56.00652	.5434633	.3300038

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.700574	341.3552	12.44633	84.40388	.7149709	-.003658
Stddev	.002195	4.1404	.01327	.10893	.0001152	.000912
%RSD	.0467014	1.212943	.1066349	.1290530	.0161086	24.93643
#1	4.703093	337.0467	12.45056	84.52846	.7148635	-.004204
#2	4.699071	341.7147	12.43145	84.35659	.7149566	-.004166
#3	4.699558	345.3041	12.45696	84.32659	.7150926	-.002605

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.19235	.4416939	7.774519	29.49669	-.345447	.0202737
Stddev	.17544	.0004058	.022168	.20451	.012334	.0002838
%RSD	.8278393	.0918782	.2851350	.6933219	3.570474	1.400085
#1	21.03078	.4414771	7.748985	29.29055	-.358421	.0200070
#2	21.16730	.4421620	7.785733	29.50001	-.344049	.0202422
#3	21.37896	.4414424	7.788839	29.69953	-.333872	.0205720

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1488-13REDLX10 Acquired: 3/13/2025 18:49:35 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0204742	1.362363	F 13.91823	F 17.65106	F 83.41607	.5295140
Stddev	.0006040	.012881	.03254	.03115	.08489	.0015311
%RSD	2.950004	.9454809	.2337716	.1764757	.1017693	.2891590
#1	.0208700	1.371478	13.88272	17.61590	83.48390	.5277470
#2	.0207737	1.347627	13.92538	17.66210	83.32087	.5304499
#3	.0197790	1.367986	13.94660	17.67519	83.44345	.5303451

Elem	Sr4077
Units	ppm
Avg	.4004432
Stddev	.0003872
%RSD	.0966801
#1	.4000249
#2	.4005159
#3	.4007888

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4530.827	97787.56	20923.61	2933.071	4079.743
Stddev	3.755	255.20	87.74	3.529	5.723
%RSD	.0828867	.2609740	.4193242	.1203011	.1402858
#1	4528.800	98073.24	20841.78	2931.667	4079.150
#2	4528.522	97707.29	20912.79	2930.460	4074.339
#3	4535.161	97582.14	21016.25	2937.085	4085.740

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV08 Acquired: 3/13/2025 18:53:53 Type: Unk
Method: NON EPA-6010-200.7(v2808) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.954074**	**4.916991**	**5.057677**	**4.843185**	**4.849242**	**9.616900**	**9.389481**
Stddev	.005446	.030817	.015891	.008438	.009128	.378266	.558789
%RSD	.1099254	.6267541	.3142008	.1742241	.1882300	3.933348	5.951218
#1	4.947796	4.893757	5.046436	4.835093	4.847087	9.809377	9.764979
#2	4.957522	4.905266	5.050738	4.842531	4.841385	9.860219	9.656150
#3	4.956906	4.951950	5.075858	4.851931	4.859255	9.181103	8.747314

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2597565**	**2.507007**	**24.65310**	**1.035846**	**2.480738**	**1.238107**	**4.876480**
Stddev	.0076569	.006508	.90381	.029099	.005469	.002187	.116487
%RSD	2.947728	.2595795	3.666118	2.809218	.2204486	.1766504	2.388759
#1	.2643742	2.502603	25.21471	1.003668	2.479861	1.235608	4.747152
#2	.2639772	2.503935	25.13408	1.043557	2.475760	1.239674	4.909127
#3	.2509180	2.514482	23.61051	1.060313	2.486592	1.239040	4.973160

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.443400**	**25.20963**	**2.482963**	**1.254840**	**23.37048**	**2.459015**	**2.327536**
Stddev	.091551	.94905	.006634	.031296	.46693	.095101	.067771
%RSD	3.746861	3.764624	.2671692	2.494051	1.997954	3.867449	2.911719
#1	2.505717	25.77493	2.477579	1.220462	22.86496	2.519754	2.262294
#2	2.486193	25.74001	2.480938	1.262383	23.46090	2.507875	2.322733
#3	2.338289	24.11395	2.490374	1.281676	23.78559	2.349416	2.397581

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.36449**	**5.077001**	**4.940286**	**5.026643**	**4.818384**	**5.254650**	**5.042939**
Stddev	.54936	.156356	.003051	.013875	.177036	.133039	.012145
%RSD	2.351244	3.079686	.0617500	.2760278	3.674182	2.531833	.2408260
#1	22.74597	5.161808	4.937139	5.012777	4.935085	5.104582	5.033176
#2	23.55182	5.172629	4.940487	5.026625	4.905387	5.301236	5.039102
#3	23.79568	4.896565	4.943231	5.040527	4.614681	5.358130	5.056538

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV08 Acquired: 3/13/2025 18:53:53 Type: Unk
Method: NON EPA-6010-200.7(v2808) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.845904**	**4.525593**	**4.813273**
Stddev	.013137	.160347	.222117
%RSD	.2710917	3.543121	4.614676
#1	4.831138	4.628318	4.991003
#2	4.850278	4.607636	4.884549
#3	4.856295	4.340826	4.564268

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3380.544**	**72762.71**	**14308.78**	**2132.631**	**4517.331**
Stddev	4.190	1778.04	493.86	45.295	2.449
%RSD	.1239559	2.443608	3.451441	2.123893	.0542236
#1	3380.524	74751.26	14001.49	2180.402	4520.119
#2	3376.363	72210.78	14046.40	2127.186	4516.350
#3	3384.743	71326.10	14878.45	2090.305	4515.524

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB08 Acquired: 3/13/2025 19:03:24 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000092**	**.0004518**	**.0021339**	**.0055212**	**.0024447**	**-.005332**
Stddev	.000978	.0016741	.0009572	.0018570	.0008563	.004412
%RSD	1063.679	370.5378	44.85525	33.63331	35.02470	82.73404
#1	-.000142	.0016338	.0011033	.0075650	.0032054	-.004695
#2	-.001044	.0011855	.0029950	.0050613	.0026113	-.001274
#3	.000910	-.001464	.0023036	.0039375	.0015174	-.010028

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000616**	**-.000028**	**.0000169**	**.0047773**	**-.000021**	**-.000043**
Stddev	.000180	.000051	.0000522	.0036864	.000051	.000278
%RSD	29.16007	183.1298	309.6760	77.16311	249.3862	653.2721
#1	-.000418	-.000033	.0000157	.0081965	-.000063	-.000357
#2	-.000664	.000025	.0000697	.0052635	.000037	.000172
#3	-.000767	-.000076	-.000035	.0008720	-.000036	.000057

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001743**	**.0063023**	**-.000898**	**-.001574**	**-.000205**	**.0001877**
Stddev	.0002296	.0050151	.000302	.007078	.000234	.0000923
%RSD	131.7554	79.57633	33.63786	449.8214	114.1147	49.18316
#1	-.000008	.0092443	-.001091	-.008569	-.000469	.0001796
#2	.000432	.0091510	-.001054	.005585	-.000022	.0000997
#3	.000099	.0005116	-.000550	-.001736	-.000125	.0002838

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1069850**	**-.000087**	**-.000578**	**.1927656**	**-.000845**	**.0000736**
Stddev	.0230698	.000898	.000522	.0227838	.000674	.0000205
%RSD	21.56357	1029.417	90.21552	11.81944	79.71468	27.89145
#1	.1010210	-.000302	-.000998	.1666037	-.000227	.0000535
#2	.1324512	-.000859	-.000743	.2034441	-.001564	.0000728
#3	.0874828	.000899	.000006	.2082489	-.000745	.0000946

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB08 Acquired: 3/13/2025 19:03:24 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000809	.0013233	.0093764	.0040326	F .0199398	.0003083
Stddev	.000663	.0005340	.0029482	.0035225	.0041594	.0007502
%RSD	81.86392	40.35716	31.44235	87.35107	20.85990	243.3383
#1	-.000995	.0007071	.0121327	.0008092	.0160688	.0010570
#2	-.001360	.0016526	.0062680	.0034959	.0194131	.0003114
#3	-.000074	.0016101	.0097285	.0077926	.0243374	-.000443

Elem	Sr4077
Units	ppm
Avg	-.000092
Stddev	.000009
%RSD	9.944679
#1	-.000102
#2	-.000084
#3	-.000089

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3451.527	75284.95	14610.90	2194.961	5005.988
Stddev	14.366	92.91	91.72	6.918	14.724
%RSD	.4162156	.1234103	.6277184	.3151545	.2941319
#1	3456.234	75183.33	14684.26	2202.842	5017.030
#2	3435.399	75365.56	14508.07	2189.891	4989.271
#3	3462.949	75305.95	14640.37	2192.151	5011.664

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1528-02 Acquired: 3/13/2025 19:07:41 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.149073**	**-.212836**	**-.001437**	**1.829123**	**.2127742**	**6.325321**
Stddev	.007335	.002431	.000862	.024347	.0060443	.030784
%RSD	4.920660	1.142335	60.01080	1.331059	2.840706	.4866857
#1	-.143146	-.210919	-.000490	1.816788	.2141834	6.340031
#2	-.146796	-.215571	-.002177	1.813413	.2061497	6.345990
#3	-.157277	-.212018	-.001644	1.857169	.2179893	6.289941

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0605189**	**.0011754**	**-.002940**	**7.176557**	**.0313404**	**.0156083**
Stddev	.0004580	.0000411	.000152	.031892	.0006391	.0005532
%RSD	.7568369	3.500901	5.177498	.4443913	2.039174	3.544373
#1	.0610476	.0012014	-.003079	7.191043	.0320312	.0157029
#2	.0602410	.0011279	-.002964	7.198635	.0307702	.0150139
#3	.0602682	.0011968	-.002778	7.139993	.0312200	.0161082

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1922920**	**24.90155**	**.1591539**	**2.957000**	**.0030853**	**.0026033**
Stddev	.0019201	.21664	.0006150	.010454	.0004637	.0003160
%RSD	.9985298	.8699757	.3864023	.3535494	15.03092	12.13994
#1	.1923703	24.90848	.1597549	2.955938	.0036207	.0029598
#2	.1903340	25.11465	.1591810	2.947117	.0028110	.0023575
#3	.1941718	24.68154	.1585258	2.967945	.0028241	.0024925

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**198.2282**	**.0217398**	**1.471160**	**656.2874**	**.0833257**	**.0193196**
Stddev	1.4445	.0012293	.012797	8.3469	.0017111	.0001563
%RSD	.7287202	5.654535	.8698356	1.271841	2.053546	.8089418
#1	198.9959	.0213447	1.477972	655.2540	.0847567	.0194626
#2	199.1268	.0231181	1.479109	665.1029	.0814303	.0191528
#3	196.5619	.0207567	1.456398	648.5053	.0837901	.0193433

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: Q1528-02 Acquired: 3/13/2025 19:07:41 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5471702	.1688857	8.076958	F 188.3940	F 27.79000	.0198811
Stddev	.0051422	.0008874	.078806	1.0483	.25477	.0003607
%RSD	.9397879	.5254451	.9756874	.5564261	.9167545	1.814475
#1	.5435004	.1695123	8.069619	188.3437	27.71867	.0199011
#2	.5449627	.1692746	8.159176	187.3718	27.57849	.0195108
#3	.5530477	.1678703	8.002077	189.4666	28.07282	.0202314

Elem	Sr4077
Units	ppm
Avg	.0333481
Stddev	.0002641
%RSD	.7918538
#1	.0336344
#2	.0332959
#3	.0331141

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2399.727	54984.81	14582.72	1518.258	3668.966
Stddev	18.940	556.29	49.96	24.987	28.702
%RSD	.7892366	1.011724	.3425663	1.645772	.7823011
#1	2399.362	55045.92	14549.13	1527.152	3663.983
#2	2418.846	54400.49	14558.91	1490.041	3699.834
#3	2380.973	55508.03	14640.13	1537.582	3643.082

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV09 Acquired: 3/13/2025 19:12:00 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.277354**	**5.019484**	**5.119639**	**5.438692**	**5.059522**	**9.647873**	**9.619680**
Stddev	.028525	.006230	.044330	.011969	.040010	.387342	.254727
%RSD	.5405197	.1241233	.8658805	.2200627	.7907949	4.014787	2.647982
#1	5.256605	5.012786	5.082075	5.441425	5.018895	9.270086	9.441037
#2	5.265575	5.025107	5.108307	5.425594	5.060785	9.629423	9.506637
#3	5.309883	5.020558	5.168535	5.449058	5.098885	10.04411	9.911365

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2577379**	**2.552172**	**24.59379**	**1.067064**	**2.552476**	**1.291463**	**5.234706**
Stddev	.0084391	.018660	.89269	.003803	.020227	.010631	.056794
%RSD	3.274287	.7311418	3.629748	.3563788	.7924633	.8231370	1.084960
#1	.2498635	2.535158	23.76479	1.064172	2.533705	1.281891	5.175206
#2	.2567039	2.549231	24.47775	1.065648	2.549824	1.289593	5.240572
#3	.2666464	2.572128	25.53883	1.071371	2.573898	1.302904	5.288340

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.449761**	**24.84225**	**2.553448**	**1.293416**	**23.52524**	**2.463202**	**2.489869**
Stddev	.094091	.96501	.021228	.008455	.25692	.082930	.011572
%RSD	3.840839	3.884535	.8313514	.6537306	1.092101	3.366737	.4647573
#1	2.357463	23.89653	2.532909	1.287263	23.28853	2.380216	2.476980
#2	2.446272	24.80477	2.552133	1.289927	23.48872	2.463316	2.493258
#3	2.545548	25.82545	2.575304	1.303057	23.79846	2.546075	2.499367

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.38927**	**5.039873**	**5.152723**	**5.073064**	**4.833675**	**5.307499**	**5.216465**
Stddev	.22471	.165019	.032169	.031263	.179179	.067946	.051877
%RSD	.9213448	3.274267	.6243065	.6162635	3.706892	1.280187	.9944924
#1	24.15842	4.882036	5.123872	5.040821	4.655912	5.235978	5.163162
#2	24.40210	5.026341	5.146888	5.075127	4.830874	5.315326	5.219444
#3	24.60728	5.211241	5.187411	5.103246	5.014237	5.371192	5.266789

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCV09 Acquired: 3/13/2025 19:12:00 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV09 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.927785**	**4.583289**	**4.915298**
Stddev	.043159	.173413	.186731
%RSD	.8758266	3.783599	3.798984
#1	4.892803	4.410050	4.779622
#2	4.914538	4.582939	4.838006
#3	4.976015	4.756876	5.128266

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3334.826**	**73172.46**	**14875.50**	**2134.969**	**4533.725**
Stddev	19.649	286.21	458.88	8.804	33.867
%RSD	.5892079	.3911468	3.084788	.4123839	.7470094
#1	3349.146	73483.19	15336.01	2144.785	4562.775
#2	3342.906	73114.59	14872.23	2132.352	4541.873
#3	3312.425	72919.61	14418.27	2127.771	4496.527

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB09 Acquired: 3/13/2025 19:21:09 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000211**	**-.000102**	**.0004086**	**.0092890**	**.0022882**	**.0141567**
Stddev	.002386	.001481	.0010641	.0007723	.0001131	.0051102
%RSD	1132.794	1447.735	260.4396	8.314341	4.942737	36.09744
#1	.001578	-.001740	-.000108	.0086848	.0023073	.0094493
#2	.000710	.001142	.001632	.0101591	.0021667	.0195918
#3	-.002919	.000291	-.000299	.0090229	.0023905	.0134292

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001001**	**-.000014**	**-.000021**	**.0337569**	**.0002439**	**.0001522**
Stddev	.0008696	.000070	.000071	.0067598	.0002404	.0000409
%RSD	868.4215	488.7948	343.5976	20.02502	98.55969	26.89824
#1	.0009640	.000019	-.000098	.0288925	.0004973	.0001784
#2	.0001115	-.000095	.000041	.0414757	.0002153	.0001733
#3	-.000775	.000033	-.000004	.0309024	.0000191	.0001051

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005259**	**.0314241**	**.0003584**	**-.001485**	**-.000011**	**.0004342**
Stddev	.0003546	.0061432	.0004377	.010847	.000180	.0001149
%RSD	67.44348	19.54937	122.1284	730.5206	1650.631	26.46754
#1	.0005772	.0244279	.0000481	-.002963	.000175	.0004275
#2	.0008520	.0339078	.0001680	.010026	-.000184	.0003228
#3	.0001483	.0359367	.0008590	-.011517	-.000023	.0005524

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0783474**	**-.000159**	**.0000169**	**.2243706**	**-.003286**	**.0001405**
Stddev	.0194811	.001106	.0004765	.0225061	.000646	.0003429
%RSD	24.86505	696.7578	2822.615	10.03078	19.65175	244.1028
#1	.0771106	.000952	.0005384	.2085100	-.003525	.0005361
#2	.0595141	-.001260	-.000092	.2144725	-.002554	-.000043
#3	.0984174	-.000168	-.000396	.2501295	-.003777	-.000072

Reviewed By:Mohan
On:3/14/2025 1:33:41 PM
Inst Id :P4
LB :LB135035

Sample Name: CCB09 Acquired: 3/13/2025 19:21:09 Type: Unk
Method: NON EPA-6010-200.7(v2770) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB09 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000920	.0014434	.0002299	.0003815	F .0136055	.0002976
Stddev	.000368	.0000582	.0039826	.0013234	.0051740	.0006638
%RSD	40.00882	4.033772	1732.572	346.8650	38.02909	223.0916
#1	-.001261	.0013784	.0044663	-.000682	.0140165	.0008751
#2	-.000969	.0014906	-.000339	-.000037	.0185618	.0004451
#3	-.000530	.0014613	-.003438	.001864	.0082382	-.000428

Elem	Sr4077
Units	ppm
Avg	.0001082
Stddev	.0000159
%RSD	14.69152
#1	.0001140
#2	.0001203
#3	.0000902

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3510.154	80343.25	13971.40	2334.027	5082.514
Stddev	8.454	4480.16	10.88	130.205	17.022
%RSD	.2408523	5.576278	.0778409	5.578544	.3349208
#1	3519.368	76212.75	13980.73	2212.705	5101.818
#2	3502.754	85105.92	13959.45	2471.591	5069.657
#3	3508.338	79711.08	13974.00	2317.785	5076.066

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: S0 Acquired: 3/17/2025 14:05:30 Type: Cal
Method: NON EPA-6010-200.7(v2812) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00010	-.00009	-.00028	.00028	.00051	.00023	.05454	-.00012
Stddev	.00002	.00011	.00012	.00015	.00011	.00009	.00156	.00017
%RSD	21.173	125.93	44.660	54.057	21.200	40.147	2.8632	144.94
#1	-.00012	.00001	-.00029	.00011	.00041	.00016	.05566	-.00022
#2	-.00010	-.00007	-.00040	.00038	.00062	.00020	.05276	.00008
#3	-.00008	-.00021	-.00015	.00036	.00049	.00033	.05521	-.00021

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00010	.00079	.00003	.00008	-.00053	.00002	.00023	-.00016
Stddev	.00004	.00021	.00001	.00014	.00021	.00002	.00011	.00006
%RSD	41.401	26.447	40.104	176.51	38.534	71.406	46.696	33.681
#1	-.00014	.00058	.00002	.00011	-.00068	.00001	.00021	-.00019
#2	-.00006	.00079	.00004	.00020	-.00063	.00002	.00014	-.00020
#3	-.00010	.00100	.00002	-.00007	-.00030	.00004	.00035	-.00010

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00027	-.00151	.00036	-.00006	.00690	-.00178	.00395	.00032
Stddev	.00031	.00005	.00008	.00012	.00102	.00021	.00013	.00010
%RSD	114.28	3.1061	21.512	182.99	14.733	11.832	3.3852	30.798
#1	.00004	-.00156	.00039	-.00020	.00577	-.00175	.00408	.00024
#2	-.00028	-.00147	.00041	.00003	.00773	-.00200	.00381	.00043
#3	-.00058	-.00151	.00027	-.00002	.00721	-.00158	.00398	.00028

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00024	.00219	.00020	-.00079	.00045	.00495	.00148
Stddev	.00006	.00025	.00002	.00013	.00007	.00031	.00012
%RSD	23.558	11.272	7.7162	16.034	15.247	6.2476	8.2646
#1	.00030	.00194	.00021	-.00071	.00039	.00529	.00147
#2	.00022	.00243	.00022	-.00073	.00053	.00468	.00137
#3	.00020	.00220	.00019	-.00094	.00044	.00490	.00161

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: S0 Acquired: 3/17/2025 14:05:30 Type: Cal
Method: NON EPA-6010-200.7(v2812) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3211.9	69756.	14148.	2198.6	4848.2
Stddev	3.7	292.	30.	8.2	1.4
%RSD	.11606	.41846	.21033	.37409	.02904
#1	3210.8	69676.	14117.	2199.3	4849.8
#2	3216.1	70080.	14177.	2206.5	4847.6
#3	3208.9	69513.	14150.	2190.1	4847.2

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: S1 Acquired: 3/17/2025 14:09:56 Type: Cal
Method: NON EPA-6010-200.7(v2812) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00088	.00229	.00191	.00120	.00658	.00797	.26403	.02289
Stddev	.00006	.00009	.00017	.00017	.00012	.00037	.00405	.00024
%RSD	6.5208	3.9753	9.1342	13.803	1.8111	4.6157	1.5336	1.0435
#1	.00085	.00238	.00177	.00102	.00656	.00839	.26777	.02296
#2	.00084	.00229	.00186	.00134	.00671	.00772	.26460	.02309
#3	.00094	.00220	.00211	.00125	.00647	.00779	.25973	.02262

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01391	.11168	.00175	.02561	.01496	.00053	.01162	.02621
Stddev	.00013	.00024	.00003	.00037	.00019	.00003	.00219	.00017
%RSD	.91567	.21635	1.6873	1.4588	1.2431	6.1823	18.811	.65985
#1	.01380	.11195	.00174	.02546	.01493	.00056	.01056	.02633
#2	.01388	.11161	.00172	.02534	.01478	.00053	.01413	.02628
#3	.01405	.11149	.00178	.02604	.01515	.00049	.01017	.02601

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02366	.00109	.04328	.00502	.11020	.01289	.03471	.13258
Stddev	.00014	.00000	.00021	.00010	.00089	.00008	.00011	.00022
%RSD	.58602	.41821	.47511	2.0828	.80616	.61241	.31114	.16622
#1	.02363	.00109	.04304	.00514	.11092	.01297	.03479	.13268
#2	.02381	.00110	.04341	.00497	.11049	.01281	.03476	.13273
#3	.02353	.00109	.04338	.00496	.10921	.01289	.03459	.13233

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00471	.01668	.00226	-.00016	.00086	.02268	.14872
Stddev	.00006	.00021	.00005	.00010	.00004	.00032	.00090
%RSD	1.2953	1.2831	2.1532	65.184	5.2216	1.3939	.60396
#1	.00472	.01661	.00222	-.00008	.00088	.02246	.14920
#2	.00465	.01652	.00231	-.00012	.00081	.02255	.14928
#3	.00477	.01692	.00225	-.00028	.00089	.02305	.14769

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: S1 Acquired: 3/17/2025 14:09:56 Type: Cal
Method: NON EPA-6010-200.7(v2812) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3156.5	70395.	14241.	2180.6	4708.2
Stddev	7.1	51.	40.	4.3	11.1
%RSD	.22417	.07239	.28001	.19551	.23556
#1	3164.1	70361.	14195.	2179.4	4715.0
#2	3155.2	70370.	14259.	2177.0	4714.2
#3	3150.2	70454.	14268.	2185.3	4695.4

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: S2 Acquired: 3/17/2025 14:14:21 Type: Cal
Method: NON EPA-6010-200.7(v2812) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03758	.04811	.14991	.03864	.09785	.11901	3.5096	.15306
Stddev	.00012	.00040	.00055	.00009	.00049	.00019	.0046	.00068
%RSD	.32381	.82591	.36653	.23609	.50335	.15708	.13094	.44382
#1	.03747	.04771	.15050	.03865	.09728	.11881	3.5068	.15252
#2	.03755	.04850	.14941	.03855	.09820	.11904	3.5070	.15285
#3	.03771	.04813	.14983	.03873	.09805	.11918	3.5149	.15383

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.91799	.21968	.02806	.33914	.14096	.00432	.17641	.04799
Stddev	.00152	.00053	.00011	.00122	.00005	.00004	.00071	.00029
%RSD	.16507	.24020	.38241	.36050	.03780	1.0082	.40282	.60781
#1	.91663	.21933	.02805	.33845	.14093	.00434	.17563	.04778
#2	.91772	.21942	.02796	.33841	.14103	.00435	.17657	.04786
#3	.91962	.22028	.02817	.34055	.14094	.00427	.17703	.04832

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.23710	.05261	.08863	.04900	1.0342	.02772	.25325	.52792
Stddev	.00053	.00013	.00041	.00019	.0041	.00016	.00164	.00157
%RSD	.22455	.25115	.46594	.39603	.39514	.58152	.64714	.29780
#1	.23675	.05272	.08899	.04879	1.0382	.02753	.25193	.52715
#2	.23683	.05246	.08872	.04904	1.0344	.02781	.25274	.52688
#3	.23771	.05264	.08818	.04918	1.0301	.02780	.25508	.52973

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.08867	.29786	.00458	.02312	.01782	.71153	6.0645
Stddev	.00030	.00110	.00005	.00013	.00016	.00120	.0044
%RSD	.34100	.36933	1.0913	.57046	.87087	.16898	.07239
#1	.08841	.29846	.00452	.02324	.01769	.71257	6.0602
#2	.08861	.29659	.00459	.02313	.01778	.71022	6.0643
#3	.08900	.29854	.00462	.02298	.01799	.71180	6.0689

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: S2 Acquired: 3/17/2025 14:14:21 Type: Cal
Method: NON EPA-6010-200.7(v2812) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3138.0	67977.	14213.	2119.7	4645.3
Stddev	4.3	197.	79.	10.9	4.0
%RSD	.13762	.28948	.55414	.51573	.08524
#1	3142.9	67906.	14260.	2109.3	4649.7
#2	3136.3	68199.	14257.	2131.1	4642.0
#3	3134.8	67825.	14122.	2118.7	4644.2

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: S3 Acquired: 3/17/2025 14:18:30 Type: Cal
Method: NON EPA-6010-200.7(v2812) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12034	.15085	.47461	.12208	.30790	.37483	10.817	.48345
Stddev	.00042	.00108	.00145	.00043	.00092	.00063	.141	.00204
%RSD	.34985	.71846	.30640	.35081	.29766	.16728	1.3005	.42195
#1	.12038	.15019	.47454	.12168	.30764	.37551	10.890	.48354
#2	.11991	.15027	.47319	.12202	.30715	.37427	10.655	.48137
#3	.12075	.15210	.47609	.12253	.30892	.37470	10.907	.48545

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.9246	.68055	.08794	1.0719	.43925	.01348	.54682	.15137
Stddev	.0073	.00228	.00041	.0031	.00157	.00006	.00193	.00052
%RSD	.25048	.33448	.46145	.28735	.35774	.45985	.35354	.34169
#1	2.9256	.67921	.08801	1.0708	.43860	.01355	.54760	.15178
#2	2.9168	.67926	.08751	1.0695	.43810	.01342	.54462	.15154
#3	2.9314	.68317	.08831	1.0753	.44104	.01347	.54824	.15079

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.74975	.16688	.28057	.15454	3.2106	.09253	.79293	1.6403
Stddev	.00236	.00027	.00034	.00071	.0124	.00023	.00155	.0070
%RSD	.31507	.16099	.12109	.45700	.38573	.24562	.19548	.42666
#1	.74974	.16717	.28024	.15378	3.2190	.09242	.79320	1.6368
#2	.74739	.16665	.28056	.15466	3.2164	.09237	.79126	1.6357
#3	.75211	.16681	.28092	.15518	3.1964	.09279	.79432	1.6484

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.28312	.92597	.01423	.07891	.05792	2.2385	18.658
Stddev	.00113	.00283	.00005	.00028	.00015	.0035	.148
%RSD	.39757	.30604	.31907	.34884	.26416	.15802	.79084
#1	.28330	.92509	.01418	.07865	.05783	2.2378	18.808
#2	.28191	.92369	.01427	.07887	.05783	2.2354	18.513
#3	.28414	.92914	.01423	.07920	.05809	2.2424	18.653

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: S3 Acquired: 3/17/2025 14:18:30 Type: Cal
Method: NON EPA-6010-200.7(v2812) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3049.7	66372.	13984.	2066.8	4400.7
Stddev	11.0	172.	41.	6.0	12.5
%RSD	.36024	.25956	.29535	.29176	.28417
#1	3054.0	66356.	13986.	2060.0	4402.5
#2	3057.9	66552.	14025.	2071.4	4412.2
#3	3037.2	66208.	13942.	2069.1	4387.4

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: S4 Acquired: 3/17/2025 14:22:50 Type: Cal
Method: NON EPA-6010-200.7(v2812) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.25075	.30006	.97026	.24365	.61610	.75975	21.365	.96365
Stddev	.00046	.00190	.00232	.00035	.00060	.00014	.229	.00319
%RSD	.18260	.63313	.23903	.14163	.09795	.01903	1.0740	.33114
#1	.25110	.29900	.96766	.24352	.61642	.75985	21.625	.96400
#2	.25023	.29892	.97102	.24338	.61648	.75982	21.278	.96665
#3	.25093	.30225	.97210	.24404	.61540	.75959	21.191	.96030

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.9081	1.3573	.17183	2.1561	.87106	.02555	1.0838	.30556
Stddev	.0071	.0034	.00051	.0030	.00102	.00004	.0040	.00053
%RSD	.12088	.25043	.29696	.13948	.11722	.15266	.36790	.17344
#1	5.8999	1.3569	.17144	2.1526	.87086	.02557	1.0841	.30506
#2	5.9114	1.3609	.17165	2.1579	.87015	.02550	1.0876	.30550
#3	5.9129	1.3542	.17241	2.1578	.87216	.02557	1.0797	.30611

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4986	.32501	.54469	.31186	6.2174	.18107	1.6006	3.2588
Stddev	.0009	.00104	.00210	.00042	.0149	.00082	.0069	.0029
%RSD	.06114	.31908	.38626	.13480	.23983	.45484	.42767	.09011
#1	1.4975	.32383	.54454	.31224	6.2064	.18103	1.5974	3.2562
#2	1.4989	.32578	.54267	.31193	6.2344	.18026	1.6084	3.2582
#3	1.4993	.32541	.54687	.31141	6.2115	.18191	1.5958	3.2620

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.56668	1.8443	.02868	.16149	.11730	4.5512	37.493
Stddev	.00074	.0037	.00020	.00074	.00046	.0009	.209
%RSD	.13074	.20149	.70557	.45797	.39432	.01997	.55790
#1	.56587	1.8442	.02856	.16075	.11677	4.5522	37.490
#2	.56733	1.8480	.02857	.16151	.11748	4.5510	37.285
#3	.56684	1.8406	.02891	.16223	.11764	4.5504	37.704

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: S4 Acquired: 3/17/2025 14:22:50 Type: Cal
Method: NON EPA-6010-200.7(v2812) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2988.4	67785.	13603.	2035.3	4250.3
Stddev	1.4	121.	45.	.7	4.1
%RSD	.04679	.17836	.33360	.03299	.09749
#1	2988.5	67892.	13619.	2034.5	4254.7
#2	2987.0	67809.	13552.	2035.8	4246.5
#3	2989.8	67653.	13639.	2035.5	4249.5

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: S5 Acquired: 3/17/2025 14:27:05 Type: Cal
Method: NON EPA-6010-200.7(v2812) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.51681	.60872	1.9607	.49798	1.2690	1.5610	43.659	1.9087
Stddev	.00085	.00218	.0006	.00202	.0046	.0022	.180	.0072
%RSD	.16455	.35786	.03142	.40519	.36286	.13767	.41186	.37645
#1	.51611	.60649	1.9603	.49646	1.2648	1.5590	43.845	1.9122
#2	.51657	.61084	1.9614	.49721	1.2683	1.5633	43.486	1.9135
#3	.51776	.60883	1.9603	.50027	1.2739	1.5606	43.646	1.9004

Elem	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.999	2.7563	.34454	4.3762	1.7453	.05267	2.1741	.61961
Stddev	.013	.0044	.00083	.0041	.0040	.00020	.0050	.00284
%RSD	.10894	.15837	.24094	.09357	.23127	.37313	.23236	.45887
#1	12.008	2.7596	.34410	4.3787	1.7422	.05244	2.1792	.62208
#2	12.005	2.7580	.34550	4.3785	1.7438	.05277	2.1740	.62026
#3	11.984	2.7514	.34402	4.3715	1.7498	.05279	2.1691	.61650

Elem	Ni2316	Ag3280	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.0264	.66391	1.1701	.63606	12.570	.39217	3.1409	6.5420
Stddev	.0027	.00096	.0037	.00146	.045	.00099	.0053	.0149
%RSD	.08917	.14410	.31669	.22903	.36164	.25298	.16965	.22731
#1	3.0268	.66285	1.1660	.63573	12.607	.39109	3.1375	6.5283
#2	3.0288	.66415	1.1711	.63766	12.585	.39237	3.1470	6.5400
#3	3.0235	.66472	1.1732	.63480	12.519	.39304	3.1382	6.5578

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1490	3.7673	.06064	.33662	.24807	9.3959	75.569
Stddev	.0014	.0037	.00053	.00103	.00047	.0138	.301
%RSD	.12626	.09896	.87427	.30507	.18764	.14681	.39812
#1	1.1497	3.7641	.06018	.33779	.24785	9.3973	75.528
#2	1.1500	3.7714	.06052	.33616	.24860	9.4090	75.291
#3	1.1474	3.7664	.06122	.33590	.24775	9.3815	75.889

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: S5 Acquired: 3/17/2025 14:27:05 Type: Cal
Method: NON EPA-6010-200.7(v2812) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2844.7	64310.	13350.	1919.5	3977.2
Stddev	.5	108.	24.	5.8	8.6
%RSD	.01862	.16763	.17786	.30427	.21731
#1	2845.3	64434.	13343.	1914.6	3969.5
#2	2844.3	64264.	13330.	1918.0	3975.5
#3	2844.5	64233.	13376.	1926.0	3986.5

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: ICV01 Acquired: 3/17/2025 14:31:24 Type: Unk
Method: NON EPA-6010-200.7(v2812) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.019236	1.041601	.9961180	1.048520	1.021386	2.516349	.5328627
Stddev	.003956	.008304	.0028703	.003846	.003600	.010402	.0015130
%RSD	.3881323	.7972132	.2881462	.3667911	.3524419	.4133657	.2839413
#1	1.015097	1.032865	.9942167	1.044172	1.018231	2.525857	.5345685
#2	1.019633	1.049392	.9994196	1.049911	1.020622	2.517950	.5316829
#3	1.022979	1.042547	.9947175	1.051477	1.025307	2.505239	.5323368

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5401404	.5035985	9.860088	.5292580	.5095053	.5278254	10.07578
Stddev	.0025433	.0004307	.043150	.0019773	.0008818	.0016465	.05640
%RSD	.4708528	.0855334	.4376242	.3735906	.1730782	.3119465	.5597677
#1	.5389973	.5037118	9.904838	.5315272	.5100179	.5274988	10.14053
#2	.5430546	.5039613	9.856685	.5283417	.5084871	.5263667	10.04939
#3	.5383691	.5031225	9.818739	.5279052	.5100110	.5296108	10.03740

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4987306	5.836657	.5123473	.2568544	9.916461	.5193390	1.036309
Stddev	.0019781	.037690	.0005885	.0003597	.074762	.0026142	.002257
%RSD	.3966286	.6457527	.1148719	.1400503	.7539169	.5033610	.2178252
#1	.4979149	5.875079	.5129774	.2571994	9.993059	.5201689	1.033708
#2	.5009861	5.835150	.5118118	.2564815	9.843682	.5214374	1.037472
#3	.4972908	5.799743	.5122525	.2568823	9.912642	.5164106	1.037749

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.777784	2.480019	2.386920	2.435351	2.458015	2.297730	2.369689
Stddev	.069104	.018392	.006901	.000040	.003346	.007904	.005856
%RSD	.7067460	.7416093	.2891023	.0016245	.1361369	.3439905	.2471355
#1	9.846661	2.468356	2.380465	2.435339	2.458999	2.305425	2.373081
#2	9.708456	2.501220	2.386101	2.435395	2.460760	2.298132	2.373059
#3	9.778235	2.470479	2.394193	2.435319	2.454288	2.289633	2.362927

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: ICV01 Acquired: 3/17/2025 14:31:24 Type: Unk
Method: NON EPA-6010-200.7(v2812) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.489771	2.534620	2.545534
Stddev	.004195	.007454	.012240
%RSD	.1685022	.2940879	.4808554
#1	2.489202	2.543202	2.542611
#2	2.494222	2.530892	2.558971
#3	2.485889	2.529765	2.535019

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3017.895	67319.80	14388.50	2012.775	4443.124
Stddev	6.063	243.82	82.54	5.279	3.660
%RSD	.2009109	.3621839	.5736375	.2622597	.0823831
#1	3020.741	67054.82	14398.87	2018.156	4439.699
#2	3022.011	67369.88	14301.26	2007.604	4446.982
#3	3010.932	67534.69	14465.35	2012.566	4442.691

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: LLICV01 Acquired: 3/17/2025 14:38:51 Type: Unk
Method: NON EPA-6010-200.7(v2812) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193602	.0423945	.0123125	.0181550	.0498100	.0938276	.0935610
Stddev	.0017811	.0017424	.0007991	.0016970	.0002815	.0022267	.0005521
%RSD	9.199618	4.110071	6.490508	9.347473	.5651692	2.373179	.5901007
#1	.0173147	.0417194	.0130535	.0198971	.0498563	.0918663	.0929701
#2	.0205681	.0410906	.0124182	.0165069	.0495082	.0962482	.0940637
#3	.0201977	.0443734	.0114658	.0180609	.0500655	.0933685	.0936492

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059336	.0058923	1.968595	.0103390	.0292555	.0220529	.0997752
Stddev	.0000820	.0000401	.025213	.0001669	.0000785	.0003349	.0041018
%RSD	1.381213	.6801739	1.280738	1.614243	.2682463	1.518654	4.111075
#1	.0058703	.0058476	1.940056	.0103936	.0291806	.0216734	.1003742
#2	.0060262	.0059249	1.977885	.0104717	.0293371	.0223071	.1035447
#3	.0059044	.0059045	1.987845	.0101516	.0292488	.0221782	.0954069

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0219192	2.088004	.0392849	.0105155	1.996998	.0392366	.0424947
Stddev	.0005491	.021770	.0003612	.0002031	.003687	.0011261	.0006282
%RSD	2.505228	1.042600	.9193576	1.931238	.1846395	2.869922	1.478285
#1	.0215623	2.064387	.0390585	.0107498	1.998999	.0379476	.0432155
#2	.0216439	2.107268	.0390949	.0104067	1.992743	.0397330	.0420639
#3	.0225516	2.092357	.0397014	.0103899	1.999253	.0400292	.0422047

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.963727	.0998598	.2058659	.0389840	.0384795	.3653105	.0174860
Stddev	.021861	.0003709	.0006611	.0006386	.0007450	.0079023	.0017730
%RSD	1.113247	.3714588	.3211341	1.638106	1.936087	2.163185	10.13972
#1	1.987231	.0996640	.2061568	.0384958	.0377120	.3644801	.0183639
#2	1.944002	.0996277	.2063317	.0387494	.0391997	.3578561	.0186489
#3	1.959948	.1002876	.2051092	.0397067	.0385268	.3735952	.0154453

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: LLICV01 Acquired: 3/17/2025 14:38:51 Type: Unk
Method: NON EPA-6010-200.7(v2812) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0167485	.0185704	.0190471
Stddev	.0037377	.0000655	.0001351
%RSD	22.31677	.3526455	.7093173
#1	.0201305	.0185613	.0189208
#2	.0127354	.0185099	.0190309
#3	.0173797	.0186399	.0191896

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3059.429	67001.95	14387.87	2024.069	4621.388
Stddev	6.972	62.50	134.84	12.053	11.382
%RSD	.2278772	.0932747	.9372016	.5954734	.2462889
#1	3064.073	66933.16	14543.36	2011.678	4633.291
#2	3051.413	67017.46	14317.18	2035.752	4610.611
#3	3062.802	67055.23	14303.07	2024.777	4620.262

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: ICB01 Acquired: 3/17/2025 14:43:08 Type: Unk
Method: NON EPA-6010-200.7(v2812) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004608	-.000242	.0001401	.0000986	-.001414	.0002400	-.001311
Stddev	.0012292	.001052	.0008546	.0002170	.000738	.0028488	.000824
%RSD	266.7224	434.1572	610.1206	220.1559	52.22835	1186.820	62.83746
#1	.0011200	.000015	.0010757	-.000150	-.000571	-.002066	-.000632
#2	-.000957	.000657	-.000056	.000250	-.001949	.003425	-.001074
#3	.001220	-.001399	-.000599	.000196	-.001721	-.000638	-.002227

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000587	-.000038	-.003243	.0004413	.0000060	-.000080	-.002975
Stddev	.0000262	.000047	.000808	.0000763	.0002697	.000051	.003133
%RSD	44.55500	124.2533	24.92143	17.29690	4508.596	63.85093	105.3193
#1	.0000883	-.000011	-.002408	.0003741	.0000979	-.000074	-.005254
#2	.0000388	-.000010	-.003300	.0004256	-.000298	-.000033	-.004269
#3	.0000490	-.000092	-.004021	.0005243	.000218	-.000135	.000598

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027318	.0060317	.0001672	.0002745	.0047133	.0011104	-.000777
Stddev	.0003643	.0098228	.0001164	.0001521	.0083942	.0003047	.000199
%RSD	13.33422	162.8523	69.63567	55.40105	178.0973	27.43941	25.56231
#1	.0025728	.0168087	.0002138	.0002196	.0130308	.0007750	-.000777
#2	.0031485	-.002419	.0000347	.0004464	.0048645	.0011864	-.000578
#3	.0024741	.003706	.0002531	.0001575	-.003756	.0013700	-.000975

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0197993	-.006318	-.000383	.0003634	-.000547	-.004368	-.001932
Stddev	.0262336	.000453	.000122	.0004272	.000348	.004579	.002257
%RSD	132.4974	7.173746	31.77913	117.5579	63.70821	104.8255	116.8318
#1	-.009882	-.005795	-.000517	.0001478	-.000346	-.004106	-.000461
#2	.039879	-.006550	-.000355	.0000869	-.000345	.000074	-.004530
#3	.029401	-.006608	-.000278	.0008554	-.000949	-.009073	-.000804

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: ICB01 Acquired: 3/17/2025 14:43:08 Type: Unk
Method: NON EPA-6010-200.7(v2812) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007183	.0003177	-.000169
Stddev	.004037	.0005044	.000055
%RSD	56.19609	158.7799	32.72445
#1	-.004526	.0003234	-.000124
#2	-.005196	-.000190	-.000231
#3	-.011829	.000819	-.000152

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3072.227	68683.66	13886.91	2043.921	4703.190
Stddev	5.448	141.42	106.85	9.423	8.522
%RSD	.1773440	.2058936	.7694270	.4610385	.1811856
#1	3072.485	68597.41	13958.99	2037.567	4700.943
#2	3077.542	68846.86	13937.59	2054.748	4712.610
#3	3066.654	68606.70	13764.15	2039.448	4696.017

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CRI01 Acquired: 3/17/2025 14:47:28 Type: Unk
Method: NON EPA-6010-200.7(v2812) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195854	.0432483	.0125851	.0188631	.0500873	.0984496
Stddev	.0033426	.0015388	.0005747	.0015352	.0004015	.0032095
%RSD	17.06685	3.558158	4.566876	8.138544	.8015242	3.260072
#1	.0179879	.0416778	.0119627	.0197090	.0505406	.1019827
#2	.0173413	.0447535	.0130958	.0197892	.0499445	.0976521
#3	.0234271	.0433136	.0126967	.0170910	.0497767	.0957140

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0928130	.0060233	.0058750	1.982229	.0102754	.0294599
Stddev	.0008942	.0000136	.0000236	.003334	.0003068	.0002633
%RSD	.9633851	.2253202	.4013701	.1681770	2.985593	.8936824
#1	.0937159	.0060382	.0058544	1.985477	.0104649	.0293156
#2	.0919279	.0060117	.0059007	1.982395	.0104399	.0293003
#3	.0927951	.0060199	.0058697	1.978816	.0099215	.0297638

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0221699	.0982014	.0214728	2.105780	.0394178	.0102767
Stddev	.0004193	.0043814	.0003930	.026684	.0003086	.0002906
%RSD	1.891531	4.461600	1.830416	1.267181	.7828818	2.827693
#1	.0225797	.0955494	.0214247	2.136272	.0397546	.0099502
#2	.0217416	.0957961	.0211060	2.094371	.0391486	.0105072
#3	.0221884	.1032585	.0218876	2.086698	.0393503	.0103725

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.003947	.0404824	.0428610	1.962960	.0934123	.2093619
Stddev	.015772	.0007962	.0005765	.014791	.0006505	.0005451
%RSD	.7870378	1.966755	1.345132	.7535005	.6963456	.2603683
#1	2.018239	.0412795	.0426963	1.975228	.0934570	.2098915
#2	2.006577	.0396871	.0423846	1.946535	.0927407	.2088025
#3	1.987026	.0404807	.0435019	1.967115	.0940393	.2093919

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CRI01 Acquired: 3/17/2025 14:47:28 Type: Unk
Method: NON EPA-6010-200.7(v2812) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0392835	.0382454	.3732099	.0162917	F .0129901	.0183196
Stddev	.0002884	.0007207	.0086261	.0021387	.0037073	.0005820
%RSD	.7341243	1.884424	2.311326	13.12758	28.53993	3.177187
#1	.0391975	.0390233	.3695182	.0154706	.0113023	.0186287
#2	.0390479	.0376004	.3830675	.0146852	.0104269	.0176482
#3	.0396051	.0381126	.3670441	.0187192	.0172410	.0186819

Elem	Sr4077
Units	ppm
Avg	.0188707
Stddev	.0000520
%RSD	.2754591
#1	.0189291
#2	.0188295
#3	.0188535

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3023.089	65618.90	14102.75	1971.622	4608.689
Stddev	10.984	314.41	9.04	3.179	12.767
%RSD	.3633535	.4791382	.0641193	.1612547	.2770118
#1	3018.485	65467.16	14098.86	1971.393	4609.675
#2	3035.626	65409.15	14096.30	1974.910	4620.934
#3	3015.156	65980.40	14113.08	1968.564	4595.458

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: ICSA01 Acquired: 3/17/2025 14:51:45 Type: Unk
Method: NON EPA-6010-200.7(v2812) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046773	.0093307	.0072153	-.000908	-.002923	252.0006
Stddev	.0018602	.0013460	.0005636	.004769	.004435	.9912
%RSD	39.77155	14.42600	7.810442	525.2539	151.7217	.3933397
#1	.0063744	.0098782	.0078309	.000479	-.007506	250.9191
#2	.0026884	.0103167	.0070902	.003014	.001348	252.2169
#3	.0049692	.0077972	.0067248	-.006217	-.002611	252.8658

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031008	.0013049	-.004015	236.6739	.0602497	.0016748
Stddev	.0004845	.0000173	.000047	1.3682	.0008791	.0001665
%RSD	15.62558	1.323796	1.162263	.5781108	1.459174	9.939178
#1	.0033027	.0013049	-.004068	235.7662	.0598667	.0018251
#2	.0034518	.0012876	-.004000	236.0078	.0612553	.0014959
#3	.0025480	.0013222	-.003978	238.2476	.0596269	.0017035

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0174617	101.1857	.0106704	255.8123	.0022047	-.002374
Stddev	.0001412	.3894	.0004473	1.2754	.0003294	.000442
%RSD	.8087300	.3848331	4.191881	.4985662	14.93880	18.61133
#1	.0174250	101.1426	.0101593	254.8271	.0019184	-.002086
#2	.0173426	101.5948	.0108616	255.3570	.0025647	-.002153
#3	.0176177	100.8196	.0109903	257.2529	.0021311	-.002882

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0544933	.0041047	.0035465	-.004639	F -.242807	-.000175
Stddev	.0036921	.0020401	.0003850	.005395	.002392	.000471
%RSD	6.775244	49.70204	10.85580	116.2916	.9849814	268.5073
#1	.0557610	.0060645	.0035411	.001028	-.240164	.000348
#2	.0503344	.0019928	.0031643	-.005233	-.243437	-.000308
#3	.0573844	.0042569	.0039343	-.009712	-.244821	-.000565

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: ICSA01 Acquired: 3/17/2025 14:51:45 Type: Unk
Method: NON EPA-6010-200.7(v2812) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005420	-.001279	.0191619	-.000344	-.018380	.0034174
Stddev	.000987	.000898	.0100381	.003189	.001419	.0013367
%RSD	18.21216	70.18365	52.38580	926.3416	7.719331	39.11453
#1	-.004291	-.002199	.0186746	.001939	-.018740	.0047351
#2	-.006119	-.000405	.0294348	.001017	-.016816	.0034546
#3	-.005850	-.001234	.0093763	-.003989	-.019584	.0020625

Elem	Sr4077
Units	ppm
Avg	.0067658
Stddev	.0007624
%RSD	11.26889
#1	.0061092
#2	.0065862
#3	.0076020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2679.292	59468.99	13609.46	1758.543	3718.338
Stddev	6.348	275.46	60.86	3.795	4.787
%RSD	.2369125	.4631990	.4471841	.2158161	.1287504
#1	2684.671	59390.52	13637.67	1756.622	3719.788
#2	2680.913	59241.28	13651.09	1756.093	3722.234
#3	2672.291	59775.17	13539.61	1762.915	3712.994

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: ICSAB01 Acquired: 3/17/2025 15:02:33 Type: Unk
Method: NON EPA-6010-200.7(v2813) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0958745	.1076010	.0587479	.0570729	.6436191	251.8046
Stddev	.0056717	.0015011	.0012885	.0082495	.0073025	2.0093
%RSD	5.915765	1.395077	2.193321	14.45426	1.134605	.7979645
#1	.0953411	.1088726	.0572607	.0503227	.6361117	251.7212
#2	.0904884	.1079854	.0594552	.0662686	.6506978	249.8382
#3	.1017941	.1059451	.0595279	.0546274	.6440479	253.8543

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4906402	.5090419	1.030986	235.0335	.5883500	.5245709
Stddev	.0024275	.0021328	.009063	.9033	.0014116	.0037691
%RSD	.4947664	.4189919	.8790992	.3843295	.2399204	.7185136
#1	.4917291	.5098409	1.023148	236.0475	.5875219	.5208391
#2	.4923326	.5066249	1.028898	234.7380	.5899798	.5244973
#3	.4878588	.5106598	1.040911	234.3149	.5875482	.5283762

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5343724	100.2752	.4920205	254.2775	1.033028	.2236018
Stddev	.0034823	.7629	.0022909	.7519	.008745	.0006844
%RSD	.6516560	.7607760	.4656140	.2956842	.8465259	.3060593
#1	.5304033	100.1222	.4943185	255.1163	1.024550	.2234752
#2	.5357994	101.1030	.4920061	253.6641	1.032517	.2243407
#3	.5369145	99.6004	.4897368	254.0523	1.042017	.2229897

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0404971	.4883362	.8266638	-.021146	F .7902197	1.130620
Stddev	.0036239	.0016465	.0041678	.009979	.0048253	.008804
%RSD	8.948652	.3371727	.5041749	47.19346	.6106228	.7787251
#1	.0364090	.4870389	.8244875	-.011439	.7883846	1.120743
#2	.0433149	.4901885	.8314693	-.020621	.7865812	1.133471
#3	.0417674	.4877811	.8240346	-.031377	.7956933	1.137646

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: ICSAB01 Acquired: 3/17/2025 15:02:33 Type: Unk
Method: NON EPA-6010-200.7(v2813) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSADLX20 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.116529	1.047423	1.002623	F .0030435	F -.023301	F .0034404
Stddev	.011242	.003125	.014696	.0027213	.002485	.0007134
%RSD	1.006838	.2983931	1.465737	89.41273	10.66272	20.73627
#1	1.106539	1.048815	.992855	.0001095	-.025009	.0040818
#2	1.114346	1.049610	1.019524	.0054847	-.020451	.0035674
#3	1.128702	1.043843	.995491	.0035363	-.024443	.0026720

Elem	Sr4077
Units	ppm
Avg	F .0074663
Stddev	.0003160
%RSD	4.232123
#1	.0077263
#2	.0071147
#3	.0075580

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2644.834	59507.41	13495.46	1780.612	3671.318
Stddev	18.697	139.56	78.75	10.984	23.476
%RSD	.7069334	.2345261	.5835570	.6168518	.6394516
#1	2666.228	59522.58	13423.77	1777.450	3692.595
#2	2636.645	59360.89	13579.75	1771.556	3675.228
#3	2631.628	59638.77	13482.85	1792.830	3646.133

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: ICSADLX20 Acquired: 3/17/2025 15:06:56 Type: Unk
Method: NON EPA-6010-200.7(v2814) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000123	-.000142	.0001237	-.002381	-.000541	12.42514	-.001355
Stddev	.000678	.001663	.0005144	.004731	.000770	.07940	.000772
%RSD	553.3331	1172.750	415.9083	198.7026	142.3986	.6390095	56.98829
#1	.000597	-.001282	-.000322	.001910	.000330	12.38223	-.001746
#2	-.000750	.001767	.000687	-.007454	-.000819	12.51676	-.000465
#3	-.000215	-.000910	.000006	-.001598	-.001133	12.37643	-.001853

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001567	-.000271	12.15389	.0028032	.0000442	.0008317	5.040576
Stddev	.0000154	.000032	.06378	.0003013	.0003703	.0002729	.057891
%RSD	9.861383	11.95952	.5247981	10.74760	838.7092	32.81516	1.148502
#1	.0001429	-.000308	12.11518	.0024979	.0002835	.0005212	4.999316
#2	.0001734	-.000256	12.22751	.0031003	-.000382	.0009402	5.015658
#3	.0001538	-.000248	12.11898	.0028115	.000231	.0010337	5.106754

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000437	12.65924	.0002960	-.000268	-.009287	.0004619	-.000461
Stddev	.0002301	.11566	.0003686	.000229	.007186	.0009351	.000163
%RSD	526.1584	.9136114	124.5421	85.51287	77.37815	202.4425	35.37678
#1	.0002776	12.62438	.0007144	-.000462	-.006613	-.000617	-.000290
#2	.0000361	12.78832	.0000192	-.000325	-.017427	.000966	-.000479
#3	-.000182	12.56503	.0001543	-.000016	-.003821	.001037	-.000614

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.028533	-.019802	-.000397	-.002153	.0000386	-.001026	-.005242
Stddev	.025330	.000575	.000210	.001223	.0007884	.005528	.002145
%RSD	88.77254	2.903527	52.81716	56.80696	2042.434	538.6422	40.92088
#1	-.015159	-.019199	-.000302	-.003026	.0009371	.001800	-.007064
#2	-.012694	-.019864	-.000253	-.000755	-.000537	-.007396	-.002878
#3	-.057747	-.020344	-.000638	-.002678	-.000284	.002517	-.005784

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: ICSADLX20 Acquired: 3/17/2025 15:06:56 Type: Unk
Method: NON EPA-6010-200.7(v2814) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSABDLX20 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.006698	.0000877	.0002859
Stddev	.000588	.0015574	.0001275
%RSD	8.782537	1775.663	44.60707
#1	-.007372	-.000425	.0004079
#2	-.006439	.001837	.0002963
#3	-.006284	-.001149	.0001535

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2956.552	64308.84	13701.03	1930.101	4438.259
Stddev	4.641	244.89	131.12	10.025	8.220
%RSD	.1569795	.3808040	.9569881	.5194193	.1852097
#1	2961.911	64458.40	13730.18	1924.560	4447.691
#2	2953.812	64441.88	13557.80	1941.674	4432.623
#3	2953.934	64026.22	13815.13	1924.070	4434.463

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: ICSABDLX20 Acquired: 3/17/2025 15:11:12 Type: Unk
Method: NON EPA-6010-200.7(v2814) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044676	.0049769	.0032801	.0008020	.0302901	12.65003	.0222837
Stddev	.0015069	.0009279	.0004720	.0027696	.0018365	.04289	.0002323
%RSD	33.73034	18.64378	14.39078	345.3402	6.062894	.3390464	1.042646
#1	.0056090	.0043235	.0028205	-.001310	.0289661	12.69573	.0222180
#2	.0050343	.0060390	.0037637	-.000221	.0295176	12.61065	.0220912
#3	.0027595	.0045683	.0032560	.003938	.0323866	12.64370	.0225418

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0262839	.0509696	12.42278	.0300545	.0254253	.0277912	5.181773
Stddev	.0001295	.0003072	.02180	.0002632	.0002084	.0004255	.036594
%RSD	.4927294	.6026122	.1755033	.8759144	.8194685	1.531152	.7062147
#1	.0262512	.0509199	12.43494	.0298471	.0254986	.0278901	5.149453
#2	.0264266	.0506904	12.39761	.0299656	.0251902	.0273249	5.174359
#3	.0261739	.0512986	12.43578	.0303506	.0255871	.0281585	5.221507

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0249703	12.80979	.0509876	.0110639	.0021269	.0263791	.0551877
Stddev	.0001313	.06335	.0000382	.0001609	.0083631	.0016698	.0004047
%RSD	.5259449	.4945245	.0748676	1.454310	393.2095	6.330187	.7332611
#1	.0249266	12.88293	.0510216	.0111084	-.004257	.0266453	.0548439
#2	.0248664	12.77394	.0509463	.0108854	.011594	.0245921	.0556337
#3	.0251179	12.77250	.0509950	.0111979	-.000956	.0278998	.0550855

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013459	.0339515	.0592909	.0535855	.0556763	.0494484	.0441336
Stddev	.029840	.0009440	.0001294	.0012022	.0003577	.0033396	.0016228
%RSD	221.7094	2.780406	.2181613	2.243554	.6424343	6.753616	3.677144
#1	-.046879	.0345411	.0593550	.0542034	.0560174	.0512974	.0442634
#2	.010513	.0344507	.0591420	.0543531	.0553040	.0455933	.0424497
#3	-.004011	.0328627	.0593757	.0522000	.0557075	.0514545	.0456876

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: ICSABDLX20 Acquired: 3/17/2025 15:11:12 Type: Unk
Method: NON EPA-6010-200.7(v2814) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0364524	.0479219	.0499649
Stddev	.0034387	.0006815	.0002192
%RSD	9.433255	1.422032	.4388141
#1	.0372012	.0481064	.0497865
#2	.0394550	.0484920	.0502097
#3	.0327011	.0471671	.0498985

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2967.611	64047.08	13923.55	1908.037	4479.741
Stddev	9.739	300.98	38.91	4.229	16.639
%RSD	.3281852	.4699321	.2794200	.2216239	.3714382
#1	2966.966	64149.96	13881.60	1911.355	4474.115
#2	2977.656	64283.13	13930.62	1903.276	4498.464
#3	2958.210	63708.15	13958.44	1909.482	4466.643

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCV01 Acquired: 3/17/2025 15:15:26 Type: Unk
Method: NON EPA-6010-200.7(v2814) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.157549	5.181448	5.077651	5.081963	5.171260	10.04655
Stddev	.018928	.039302	.012810	.029452	.017354	.06864
%RSD	.3669912	.7585177	.2522860	.5795484	.3355845	.6832246
#1	5.176372	5.200340	5.091673	5.104472	5.187094	10.03568
#2	5.138518	5.136267	5.066560	5.048630	5.152707	10.11998
#3	5.157757	5.207736	5.074721	5.092787	5.173979	9.98399

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.738619	.2498986	2.509248	24.71156	1.028685	2.495564
Stddev	.053895	.0006922	.006829	.14886	.007689	.006904
%RSD	.5534203	.2769836	.2721379	.6023989	.7474572	.2766496
#1	9.780111	.2493764	2.516520	24.64468	1.036866	2.503407
#2	9.758041	.2506837	2.502971	24.88213	1.021606	2.490407
#3	9.677704	.2496357	2.508254	24.60786	1.027584	2.492878

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.274095	5.184813	2.410198	24.72867	2.487137	1.305660
Stddev	.004364	.022612	.010481	.04355	.006913	.006040
%RSD	.3424979	.4361277	.4348511	.1760915	.2779615	.4625711
#1	1.278447	5.205975	2.408346	24.70453	2.494994	1.311308
#2	1.269719	5.160987	2.421480	24.77894	2.481986	1.299293
#3	1.274119	5.187476	2.400766	24.70255	2.484430	1.306379

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.24712	2.499521	2.622478	25.71103	4.978018	5.164828
Stddev	.14187	.013391	.001658	.14773	.018343	.018094
%RSD	.5405010	.5357304	.0632182	.5745929	.3684765	.3503342
#1	26.41092	2.498149	2.624392	25.87572	4.960167	5.183104
#2	26.16704	2.513545	2.621522	25.66720	4.996816	5.146921
#3	26.16339	2.486869	2.621519	25.59017	4.977071	5.164460

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCV01 Acquired: 3/17/2025 15:15:26 Type: Unk
Method: NON EPA-6010-200.7(v2814) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.049536	4.945198	F 5.355460	5.083222	4.940431	4.834117
Stddev	.012408	.024171	.024232	.016669	.003802	.022861
%RSD	.2457240	.4887824	.4524790	.3279153	.0769482	.4729185
#1	5.058818	4.937227	5.380308	5.101625	4.937825	4.828760
#2	5.035443	4.972347	5.354177	5.069137	4.938674	4.859181
#3	5.054347	4.926018	5.331894	5.078905	4.944793	4.814409

Elem	Sr4077
Units	ppm
Avg	4.909053
Stddev	.027163
%RSD	.5533249
#1	4.900262
#2	4.939522
#3	4.887373

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2887.563	62007.26	13560.75	1844.407	4171.318
Stddev	8.307	404.05	27.33	6.166	10.310
%RSD	.2876835	.6516116	.2015026	.3343292	.2471586
#1	2878.047	61660.13	13588.58	1837.330	4159.466
#2	2893.366	62450.78	13533.96	1848.625	4176.275
#3	2891.276	61910.86	13559.71	1847.266	4178.213

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCB01 Acquired: 3/17/2025 15:27:10 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000566	.0009542	.0006668	.0000751	-.000647	-.007171	-.002021
Stddev	.001281	.0011763	.0013643	.0008617	.001563	.003923	.000433
%RSD	226.1552	123.2788	204.5938	1147.715	241.4260	54.69975	21.44431
#1	-.001669	-.000383	.0006829	.0005422	-.000679	-.011637	-.001533
#2	-.000869	.001418	-.000705	.0006024	.000931	-.004281	-.002361
#3	.000839	.001828	.002023	-.000919	-.002194	-.005597	-.002168

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000124	.0000617	-.004585	.0002779	.0000956	-.000424	.0006605
Stddev	.0000357	.0000257	.001421	.0000221	.0000807	.000216	.0009428
%RSD	287.5177	41.69830	31.00068	7.964036	84.41958	50.86355	142.7361
#1	.0000436	.0000898	-.004068	.0002528	.0000507	-.000305	.0015607
#2	-.000027	.0000559	-.006193	.0002865	.0001888	-.000295	.0007407
#3	.000020	.0000393	-.003495	.0002945	.0000474	-.000674	-.000320

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000522	.0110496	.0002235	.0000623	.0113292	-.000068	-.000890
Stddev	.000224	.0027723	.0001837	.0003478	.0077821	.000386	.000327
%RSD	43.02376	25.08917	82.18859	558.3969	68.69111	566.6878	36.73268
#1	-.000325	.0088063	.0000133	-.000334	.0200621	.000212	-.000915
#2	-.000474	.0141489	.0003534	.000319	.0051287	.000092	-.000552
#3	-.000766	.0101935	.0003037	.000202	.0087967	-.000509	-.001204

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071292	.0094400	-.000009	-.000414	.0001517	.0065355	-.001725
Stddev	.0216744	.0009945	.000103	.000364	.0003223	.0017826	.001043
%RSD	304.0220	10.53515	1182.403	87.71685	212.5240	27.27592	60.46193
#1	.0275106	.0104225	-.000033	-.000099	.0000817	.0044771	-.000535
#2	.0095175	.0084338	-.000097	-.000333	.0005032	.0075700	-.002162
#3	-.015640	.0094637	.000104	-.000812	-.000130	.0075594	-.002478

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCB01 Acquired: 3/17/2025 15:27:10 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.009484	.0004707	.0000267
Stddev	.001885	.0004301	.0002540
%RSD	19.87958	91.36141	952.3735
#1	-.011660	.0006806	.0003197
#2	-.008461	-.000024	-.000109
#3	-.008332	.000756	-.000131

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3004.423	65447.58	14207.72	1946.777	4648.710
Stddev	28.921	437.83	47.08	21.074	37.579
%RSD	.9626001	.6689825	.3313548	1.082511	.8083769
#1	3020.299	65530.07	14238.58	1942.026	4670.203
#2	3021.928	64974.38	14231.05	1928.484	4670.609
#3	2971.041	65838.31	14153.53	1969.821	4605.318

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167007BL Acquired: 3/17/2025 15:31:28 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001093	-.000052	.0006046	.0005120	-.001007	-.003217	-.003802
Stddev	.000913	.000521	.0013076	.0012028	.002266	.003535	.000794
%RSD	83.52016	998.2541	216.2812	234.9349	225.0834	109.8675	20.86914
#1	-.001102	.000485	-.000422	.0018800	.000239	-.005885	-.002886
#2	-.000176	-.000556	.002077	-.000379	-.003623	.000792	-.004270
#3	-.002003	-.000087	.000159	.000035	.000363	-.004560	-.004251

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000029	-.000059	-.001595	.0001972	.0000110	-.000089	-.005848
Stddev	.0000408	.000040	.005790	.0002405	.0002804	.000390	.004762
%RSD	1402.477	68.79300	363.0516	121.9788	2543.195	438.3021	81.42382
#1	.0000496	-.000095	-.006279	.0003194	-.000109	.000361	-.000358
#2	-.000026	-.000015	-.003385	.0003520	.000332	-.000332	-.008335
#3	-.000014	-.000066	.004879	-.000080	-.000189	-.000295	-.008852

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020910	-.006004	.0001191	.0002654	.0060494	.0008434	-.000715
Stddev	.0003173	.012353	.0001614	.0003043	.0040384	.0003608	.000427
%RSD	15.17374	205.7522	135.4809	114.6252	66.75786	42.77707	59.74765
#1	.0018340	-.019951	-.000039	.0005973	.0040681	.0010482	-.001186
#2	.0024456	.003558	.000284	.0001994	.0106958	.0004268	-.000602
#3	.0019932	-.001618	.000112	-.000000	.0033842	.0010552	-.000355

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005630	-.002219	-.000326	.0001166	-.000238	-.002677	-.000609
Stddev	.026994	.000404	.000176	.0003446	.000684	.004569	.001281
%RSD	479.4797	18.22056	54.05954	295.5621	286.8257	170.6862	210.4798
#1	-.003055	-.001768	-.000517	-.000025	-.000951	-.007422	.000860
#2	.019984	-.002340	-.000170	.000510	-.000178	.001692	-.001194
#3	-.033820	-.002549	-.000291	-.000134	.000413	-.002300	-.001493

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167007BL Acquired: 3/17/2025 15:31:28 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.008175	-.000025	-.000132
Stddev	.001829	.000798	.000057
%RSD	22.37470	3185.247	43.12392
#1	-.008497	-.000265	-.000197
#2	-.009821	.000865	-.000100
#3	-.006206	-.000675	-.000098

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2991.585	65653.39	14368.94	1939.509	4650.417
Stddev	11.458	459.54	223.28	15.423	15.186
%RSD	.3830186	.6999507	1.553936	.7952140	.3265566
#1	2985.875	65854.82	14226.42	1946.599	4644.899
#2	3004.776	65977.82	14626.27	1950.113	4667.591
#3	2984.104	65127.53	14254.13	1921.816	4638.761

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167007BS Acquired: 3/17/2025 15:35:47 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7955097	1.994040	.9634608	1.990686	.8170772	1.927447
Stddev	.0038330	.022183	.0037556	.006315	.0021884	.025710
%RSD	.4818318	1.112463	.3898035	.3172185	.2678368	1.333890
#1	.7917751	1.969837	.9594860	1.983574	.8182524	1.928408
#2	.7953199	1.998878	.9639465	1.995635	.8184270	1.901270
#3	.7994341	2.013405	.9669499	1.992849	.8145522	1.952663

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1817864	.1950441	.1929580	.9874526	.4128908	.1940582
Stddev	.0032513	.0028522	.0009572	.0252879	.0009466	.0006883
%RSD	1.788527	1.462340	.4960813	2.560918	.2292500	.3547092
#1	.1803511	.1938596	.1919315	.9878509	.4123597	.1933647
#2	.1794998	.1929750	.1931164	.9619679	.4139837	.1940687
#3	.1855084	.1982977	.1938262	1.012539	.4123291	.1947413

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3124384	3.014304	.1919998	1.896670	.4876901	.0773792
Stddev	.0014638	.002351	.0034578	.040709	.0024047	.0004061
%RSD	.4684983	.0779993	1.800942	2.146363	.4930850	.5248823
#1	.3109983	3.015868	.1908314	1.889824	.4849669	.0776779
#2	.3123920	3.015443	.1892776	1.859818	.4885818	.0775430
#3	.3139248	3.011600	.1958904	1.940369	.4895216	.0769168

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.991308	.2895074	.2105290	9.545891	.2768429	.4075611
Stddev	.001829	.0036497	.0008840	.038067	.0031790	.0016591
%RSD	.0611365	1.260648	.4198985	.3987738	1.148317	.4070725
#1	2.993418	.2873582	.2104912	9.536176	.2748975	.4056494
#2	2.990190	.2874425	.2114312	9.587873	.2751198	.4084094
#3	2.990315	.2937213	.2096644	9.513623	.2805115	.4086244

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167007BS Acquired: 3/17/2025 15:35:47 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6824171	.1904135	.8051623	5.850168	F -.017809	.1906246
Stddev	.0021492	.0037295	.0053828	.022362	.002296	.0032023
%RSD	.3149426	1.958649	.6685294	.3822489	12.89325	1.679901
#1	.6801301	.1891162	.8038725	5.825325	-.015233	.1893298
#2	.6827260	.1875058	.8005416	5.856494	-.019643	.1882725
#3	.6843951	.1946184	.8110727	5.868686	-.018550	.1942716

Elem	Sr4077
Units	ppm
Avg	.1848373
Stddev	.0029139
%RSD	1.576484
#1	.1842067
#2	.1822904
#3	.1880149

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2943.877	64304.56	13975.46	1925.641	4435.241
Stddev	4.319	53.49	235.60	.432	8.874
%RSD	.1467012	.0831782	1.685845	.0224400	.2000796
#1	2948.860	64250.44	14042.69	1925.698	4444.672
#2	2941.554	64357.39	14170.15	1926.042	4433.997
#3	2941.218	64305.84	13713.55	1925.183	4427.056

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167119BL Acquired: 3/17/2025 15:39:49 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000018	-.000353	.0000740	-.001917	-.000298	.0000401	-.002340
Stddev	.001905	.000107	.0010941	.001247	.001669	.0020169	.000123
%RSD	10478.95	30.28260	1477.450	65.06899	559.5281	5027.748	5.249966
#1	.002180	-.000349	-.000085	-.003236	.001626	-.002121	-.002270
#2	-.001173	-.000248	-.000932	-.001759	-.001348	.000369	-.002268
#3	-.001062	-.000462	.001239	-.000756	-.001173	.001872	-.002482

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000327	.0000036	.0014083	.0001428	.0000592	-.000053	-.000423
Stddev	.0000305	.0000370	.0011474	.0002530	.0001686	.000196	.003813
%RSD	93.42548	1029.235	81.46937	177.1903	284.9212	370.2656	900.8940
#1	-.000003	-.000039	.0022144	.0000892	-.000120	-.000077	.003873
#2	.000052	.000030	.0000947	-.000079	.000082	-.000236	-.003404
#3	.000049	.000019	.0019158	.000418	.000215	.000154	-.001739

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025655	.0016016	.0001592	.0003859	.0083835	.0007242	-.000662
Stddev	.0004145	.0051409	.0000935	.0000703	.0099224	.0011716	.000236
%RSD	16.15618	320.9778	58.73039	18.20989	118.3568	161.7804	35.64266
#1	.0025392	-.003594	.0001974	.0003318	-.001160	-.000146	-.000432
#2	.0029925	.006686	.0000527	.0003605	.018645	.000262	-.000903
#3	.0021647	.001713	.0002277	.0004653	.007665	.002056	-.000651

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0313822	-.006502	-.000254	.0000650	.0005825	-.002199	-.001527
Stddev	.0104652	.000455	.000134	.0002145	.0004082	.003291	.001852
%RSD	33.34758	6.991695	52.76325	329.7474	70.07528	149.6635	121.2885
#1	.0320723	-.006207	-.000238	.0002963	.0009742	-.005426	-.000376
#2	.0414852	-.006273	-.000395	-.000127	.0006138	-.002324	-.000542
#3	.0205890	-.007025	-.000128	.000026	.0001596	.001153	-.003664

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167119BL Acquired: 3/17/2025 15:39:49 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007408	.0001388	-.000192
Stddev	.001755	.0002034	.000048
%RSD	23.69354	146.4990	25.12002
#1	-.005621	-.000069	-.000137
#2	-.009130	.000337	-.000225
#3	-.007472	.000148	-.000215

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3004.117	64784.01	14011.13	1928.763	4639.837
Stddev	14.655	1597.16	114.24	36.007	19.380
%RSD	.4878217	2.465355	.8153250	1.866846	.4176776
#1	3006.431	65787.59	13880.23	1942.863	4643.842
#2	3017.478	65622.19	14062.48	1955.587	4656.902
#3	2988.444	62942.25	14090.68	1887.840	4618.769

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167119BS Acquired: 3/17/2025 15:44:08 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7836703	1.994730	.9451043	1.948828	.8061101	1.879764
Stddev	.0039466	.010781	.0027297	.004212	.0041802	.010210
%RSD	.5035986	.5404855	.2888204	.2161375	.5185622	.5431410
#1	.7828051	1.988516	.9438885	1.948318	.8042975	1.875898
#2	.7802282	1.988496	.9431939	1.944895	.8031421	1.872052
#3	.7879777	2.007179	.9482306	1.953272	.8108906	1.891342

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1786801	.1912227	.1887401	.9579249	.4002532	.1896783
Stddev	.0014152	.0017598	.0004571	.0079122	.0002961	.0004376
%RSD	.7920021	.9202644	.2421686	.8259703	.0739792	.2307117
#1	.1779956	.1899890	.1890187	.9566353	.4005598	.1900124
#2	.1777374	.1904413	.1882126	.9507368	.4002309	.1891830
#3	.1803074	.1932378	.1889890	.9664027	.3999689	.1898396

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3054841	2.871327	.1868920	1.858303	.4769381	.0745455
Stddev	.0002979	.016888	.0019581	.014295	.0008139	.0004169
%RSD	.0975110	.5881447	1.047704	.7692359	.1706545	.5592423
#1	.3058040	2.871911	.1856585	1.848668	.4778732	.0749650
#2	.3054333	2.887915	.1858677	1.851514	.4765513	.0745402
#3	.3052148	2.854155	.1891498	1.874727	.4763896	.0741313

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.865896	.2828442	.2011940	9.143908	.2678484	.4025571
Stddev	.020392	.0034802	.0004409	.092212	.0022857	.0011345
%RSD	.7115228	1.230429	.2191274	1.008448	.8533392	.2818254
#1	2.876595	.2814831	.2009961	9.197904	.2669239	.4018038
#2	2.878711	.2802503	.2008867	9.196385	.2661698	.4020055
#3	2.842382	.2867993	.2016991	9.037435	.2704515	.4038619

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167119BS Acquired: 3/17/2025 15:44:08 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6741379	.1843116	.7600489	5.707698	F -.019199	.1850599
Stddev	.0033336	.0019733	.0039493	.006074	.002081	.0005940
%RSD	.4945045	1.070644	.5196118	.1064181	10.83901	.3209857
#1	.6770173	.1820343	.7635505	5.708375	-.016874	.1844666
#2	.6704858	.1855175	.7608282	5.701314	-.019836	.1850585
#3	.6749107	.1853829	.7557680	5.713405	-.020887	.1856546

Elem	Sr4077
Units	ppm
Avg	.1816049
Stddev	.0009469
%RSD	.5214148
#1	.1808125
#2	.1813487
#3	.1826536

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2965.814	66490.17	14108.28	1978.232	4474.933
Stddev	3.857	267.23	119.15	3.682	5.005
%RSD	.1300322	.4019087	.8445531	.1861225	.1118441
#1	2968.262	66323.33	14188.32	1973.981	4476.399
#2	2967.812	66348.78	14165.18	1980.314	4479.042
#3	2961.368	66798.39	13971.35	1980.402	4469.359

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-01 Acquired: 3/17/2025 15:48:10 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001916	-.005029	.0000431	.0010183	.0011438	.4107695	.0507948
Stddev	.000519	.001193	.0003489	.0019159	.0015788	.0087199	.0000848
%RSD	27.10886	23.72187	810.2199	188.1510	138.0381	2.122825	.1669163
#1	-.002387	-.003669	.0004368	-.001175	-.000261	.4177471	.0507365
#2	-.002002	-.005898	-.000080	.001863	.000840	.4135673	.0508921
#3	-.001359	-.005520	-.000228	.002367	.002852	.4009941	.0507559

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000097	-.000082	15.15161	.0026247	.0091091	.0026380	1.002638
Stddev	.0000210	.000039	.02122	.0000454	.0003416	.0000836	.003044
%RSD	214.7254	47.89758	.1400624	1.729567	3.750264	3.168132	.3035882
#1	.0000142	-.000100	15.12847	.0026770	.0092929	.0025546	1.005555
#2	.0000282	-.000037	15.15621	.0025962	.0087150	.0026377	1.002877
#3	-.000013	-.000108	15.17016	.0026007	.0093196	.0027218	.999481

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0729128	10.79726	.0058094	.0000259	28.52382	.0014406	.0099793
Stddev	.0006000	.04479	.0001734	.0001114	.08991	.0003958	.0001965
%RSD	.8229365	.4147936	2.984939	429.4346	.3151984	27.47658	1.969023
#1	.0736055	10.74564	.0057142	-.000097	28.61411	.0018000	.0097603
#2	.0725747	10.82039	.0060096	.000120	28.43430	.0010163	.0101401
#3	.0725580	10.82575	.0057045	.000055	28.52306	.0015055	.0100375

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7927194	.0554219	.0000740	-.001894	.0035788	9.575694	.0246554
Stddev	.0159724	.0001540	.0001420	.000266	.0004096	.015501	.0022144
%RSD	2.014889	.2778741	191.7214	14.01985	11.44564	.1618785	8.981382
#1	.7894440	.0555414	.0001749	-.001587	.0032311	9.575881	.0264951
#2	.8100755	.0554762	.0001355	-.002052	.0034749	9.591101	.0221976
#3	.7786385	.0552481	-.000088	-.002043	.0040303	9.560101	.0252734

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-01 Acquired: 3/17/2025 15:48:10 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	8.684703	-.000099	.0972164
Stddev	.039731	.000640	.0004853
%RSD	.4574795	649.1079	.4992397
#1	8.712779	.000564	.0977427
#2	8.639243	-.000714	.0971200
#3	8.702089	-.000145	.0967865

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2917.314	65699.53	14438.69	1904.966	4469.137
Stddev	10.246	88.09	47.25	6.660	18.594
%RSD	.3512231	.1340872	.3272263	.3496122	.4160534
#1	2912.587	65787.13	14491.44	1911.410	4460.569
#2	2929.071	65700.50	14424.35	1898.109	4490.470
#3	2910.285	65610.95	14400.27	1905.380	4456.371

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-02 Acquired: 3/17/2025 15:52:25 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000448	-.005360	.0019460	.0029664	-.001070	1.681345
Stddev	.003073	.001539	.0006652	.0037210	.000588	.007317
%RSD	686.0485	28.71973	34.18459	125.4391	54.97429	.4351855
#1	-.001288	-.004309	.0026880	.0059980	-.000391	1.687877
#2	.002958	-.004644	.0014030	-.001186	-.001412	1.682720
#3	-.003014	-.007127	.0017470	.004087	-.001408	1.673438

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3296750	.0008016	-.000377	55.03957	.0028461	.0289583
Stddev	.0014864	.0000429	.000005	.14425	.0001874	.0002234
%RSD	.4508633	5.347359	1.365110	.2620768	6.584415	.7715912
#1	.3303681	.0007975	-.000376	54.89063	.0026866	.0291523
#2	.3279686	.0007609	-.000382	55.04947	.0030525	.0290085
#3	.3306881	.0008463	-.000372	55.17861	.0027992	.0287140

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057167	6.583640	.2859827	32.80274	.0148750	.0000087
Stddev	.0002300	.006755	.0016275	.09800	.0001372	.0002630
%RSD	4.024029	.1025985	.5690996	.2987660	.9224596	3024.086
#1	.0059688	6.589198	.2841235	32.69753	.0148218	-.000237
#2	.0055182	6.585599	.2866744	32.89144	.0150309	.000286
#3	.0056630	6.576122	.2871501	32.81924	.0147724	-.000023

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	279.9483	.0070920	.0362824	4.562783	.0625813	.0002754
Stddev	1.3401	.0012889	.0005411	.010710	.0002832	.0001629
%RSD	.4786978	18.17375	1.491392	.2347161	.4524986	59.16278
#1	278.4025	.0085095	.0359970	4.567878	.0622760	.0002846
#2	280.7841	.0059905	.0369064	4.569994	.0628355	.0004334
#3	280.6581	.0067761	.0359436	4.550477	.0626322	.0001080

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-02 Acquired: 3/17/2025 15:52:25 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003430	.0250452	F 15.06767	.1368170	F 21.69302	-.000120
Stddev	.000235	.0011082	.01249	.0008311	.04406	.000497
%RSD	6.842286	4.424808	.0828936	.6074542	.2031254	413.8351
#1	-.003324	.0261922	15.07941	.1377761	21.73477	.000260
#2	-.003268	.0239803	15.06904	.1363668	21.64696	-.000683
#3	-.003699	.0249631	15.05454	.1363081	21.69733	.000062

Elem	Sr4077
Units	ppm
Avg	.3183684
Stddev	.0014269
%RSD	.4481995
#1	.3174788
#2	.3176122
#3	.3200143

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2788.131	63526.00	14063.50	1827.922	3978.448
Stddev	.725	306.28	35.55	12.530	6.314
%RSD	.0260209	.4821375	.2527834	.6854998	.1587115
#1	2788.920	63456.03	14093.64	1833.109	3974.738
#2	2787.982	63260.76	14024.30	1813.631	3985.738
#3	2787.492	63861.22	14072.56	1837.025	3974.867

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-02DUP Acquired: 3/17/2025 15:56:46 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000482	-.005805	.0020781	.0035210	.0010595	1.748262
Stddev	.000774	.002365	.0007666	.0055492	.0014811	.006759
%RSD	160.5943	40.73949	36.89129	157.6033	139.7998	.3866299
#1	.000406	-.008510	.0028539	.0044169	.0027603	1.755959
#2	-.001016	-.004782	.0020595	.0085676	.0000542	1.743292
#3	-.000836	-.004124	.0013210	-.002422	.0003638	1.745535

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3327267	.0007568	-.000346	54.69317	.0030988	.0287998
Stddev	.0027324	.0000483	.000035	.21856	.0001375	.0000970
%RSD	.8212110	6.381813	10.24063	.3996027	4.436019	.3369233
#1	.3354120	.0007580	-.000372	54.87964	.0031687	.0287944
#2	.3328184	.0008044	-.000306	54.74719	.0029404	.0287055
#3	.3299495	.0007078	-.000361	54.45266	.0031872	.0288994

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056377	6.885633	.2840342	32.20632	.0144943	-.000097
Stddev	.0002861	.032029	.0020990	.10270	.0001076	.000043
%RSD	5.075084	.4651633	.7390115	.3188888	.7424550	44.15503
#1	.0053891	6.863027	.2859617	32.25466	.0144371	-.000055
#2	.0059504	6.922286	.2843432	32.27593	.0146185	-.000141
#3	.0055735	6.871587	.2817978	32.08837	.0144275	-.000094

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	289.9685	.0065258	.0362972	4.796866	.0609106	.0001886
Stddev	1.6131	.0005868	.0004624	.012329	.0004645	.0002314
%RSD	.5562942	8.991377	1.273988	.2570188	.7626156	122.6692
#1	289.1580	.0067281	.0358641	4.788087	.0614391	.0000949
#2	288.9214	.0058647	.0362432	4.810961	.0607260	.0004522
#3	291.8261	.0069847	.0367842	4.791550	.0605669	.0000188

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-02DUP Acquired: 3/17/2025 15:56:46 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002557	.0332728	F 15.78764	.1383549	F 21.49413	-.000255
Stddev	.000588	.0010207	.07242	.0008388	.10973	.000238
%RSD	22.98099	3.067684	.4586994	.6062705	.5105074	93.50913
#1	-.002675	.0321056	15.72411	.1378383	21.46955	-.000514
#2	-.003076	.0337143	15.86649	.1379036	21.39877	-.000205
#3	-.001919	.0339984	15.77232	.1393227	21.61406	-.000045

Elem	Sr4077
Units	ppm
Avg	.3192660
Stddev	.0020118
%RSD	.6301464
#1	.3214317
#2	.3189110
#3	.3174553

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2820.865	61712.38	14401.76	1815.754	4014.361
Stddev	13.219	275.88	23.15	13.125	18.317
%RSD	.4686144	.4470449	.1607694	.7228662	.4562798
#1	2823.883	62029.00	14376.72	1829.778	4021.092
#2	2832.313	61523.65	14406.20	1803.765	4028.360
#3	2806.398	61584.49	14422.38	1813.720	3993.631

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-02LX5 Acquired: 3/17/2025 16:01:09 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008323	-.002476	.0008273	.0004124	-.000289	.8037820	.0662186
Stddev	.0019436	.002608	.0009454	.0006097	.000460	.0077215	.0005744
%RSD	233.5138	105.3277	114.2732	147.8356	159.1636	.9606436	.8674274
#1	-.001403	-.005488	.0015304	.0009255	.000022	.7979626	.0660902
#2	.002120	-.000955	.0011988	-.000262	-.000817	.8008417	.0668462
#3	.001780	-.000986	-.000247	.000573	-.000071	.8125417	.0657192

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002080	-.000122	11.48501	.0013183	.0058801	.0010846	1.588302
Stddev	.0000397	.000067	.05548	.0001167	.0003434	.0000812	.014926
%RSD	19.08403	54.98109	.4830950	8.855066	5.839129	7.489427	.9397456
#1	.0001720	-.000072	11.42716	.0012736	.0060003	.0009981	1.571182
#2	.0002505	-.000199	11.49008	.0014508	.0054928	.0011592	1.598583
#3	.0002013	-.000097	11.53778	.0012306	.0061471	.0010966	1.595142

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0621419	6.785832	.0030556	.0001288	56.26800	.0026891	.0065939
Stddev	.0003465	.011251	.0000500	.0001497	.09591	.0008121	.0004691
%RSD	.5576197	.1658061	1.635226	116.1943	.1704496	30.20013	7.113740
#1	.0619251	6.793583	.0030275	-.000029	56.15738	.0017620	.0070990
#2	.0619589	6.772927	.0030261	.000147	56.31877	.0030307	.0061720
#3	.0625415	6.790985	.0031133	.000268	56.32785	.0032747	.0065106

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9684479	.0057328	-.000184	-.001218	.0348019	3.746444	.0262024
Stddev	.0135557	.0003041	.000113	.000988	.0017183	.025142	.0008918
%RSD	1.399731	5.304077	61.05799	81.06136	4.937355	.6710763	3.403577
#1	.9759127	.0059588	-.000301	-.000123	.0365128	3.735249	.0269009
#2	.9766305	.0058524	-.000076	-.001490	.0330763	3.728844	.0265085
#3	.9528007	.0053871	-.000176	-.002042	.0348165	3.775238	.0251979

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-02LX5 Acquired: 3/17/2025 16:01:09 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.338648	.0016240	.0646356
Stddev	.074427	.0005325	.0002529
%RSD	1.715436	32.78656	.3912502
#1	4.423570	.0010376	.0644028
#2	4.284766	.0020772	.0649046
#3	4.307606	.0017573	.0645994

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2896.864	63667.43	14034.45	1888.782	4289.575
Stddev	35.090	235.71	42.94	6.148	58.168
%RSD	1.211306	.3702270	.3059688	.3255052	1.356041
#1	2857.129	63668.37	14019.38	1891.199	4222.857
#2	2923.595	63902.67	14082.90	1893.355	4329.650
#3	2909.870	63431.25	14001.08	1881.793	4316.217

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-02MS Acquired: 3/17/2025 16:05:24 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7940815	1.850108	.9108796	1.876216	.8161589	2.395782
Stddev	.0053486	.001522	.0085351	.011069	.0046134	.001458
%RSD	.6735646	.0822558	.9370181	.5899635	.5652576	.0608387
#1	.7950485	1.848812	.9203069	1.883752	.8204825	2.394100
#2	.7988806	1.849729	.9086547	1.881389	.8166922	2.396588
#3	.7883153	1.851784	.9036773	1.863508	.8113021	2.396659

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4974647	.1825078	.1874442	55.30502	.3954991	.2114447
Stddev	.0014054	.0005879	.0014583	.10285	.0012617	.0019533
%RSD	.2825039	.3221333	.7779963	.1859612	.3190036	.9237796
#1	.4964212	.1819051	.1889294	55.18687	.3957751	.2133188
#2	.4969101	.1825385	.1873888	55.35373	.3941223	.2115943
#3	.4990627	.1830797	.1860144	55.37446	.3965999	.2094208

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2860288	4.348805	.4309386	33.95387	.4797142	.0719259
Stddev	.0020251	.031982	.0015397	.06935	.0034277	.0002548
%RSD	.7080048	.7354225	.3572902	.2042476	.7145282	.3542699
#1	.2876727	4.351983	.4293355	33.97704	.4832619	.0718675
#2	.2866470	4.315352	.4310745	33.87590	.4794600	.0717053
#3	.2837666	4.379079	.4324059	34.00867	.4764207	.0722048

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	281.7876	.2821687	.2340323	15.13874	.3192094	.4105252
Stddev	1.0867	.0010222	.0012774	.06669	.0014152	.0026696
%RSD	.3856618	.3622551	.5458034	.4405257	.4433502	.6502823
#1	282.0149	.2832250	.2354587	15.13260	.3176620	.4127200
#2	282.7428	.2811844	.2329940	15.07533	.3204380	.4113023
#3	280.6052	.2820967	.2336442	15.20829	.3195283	.4075533

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-02MS Acquired: 3/17/2025 16:05:24 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6787127	.1886984	F 14.51431	6.103935	F 21.04478	.1915066
Stddev	.0053278	.0004906	.06446	.045265	.14643	.0011715
%RSD	.7849900	.2599779	.4441396	.7415630	.6957849	.6117062
#1	.6845382	.1886833	14.55715	6.152257	21.19724	.1917857
#2	.6775125	.1891964	14.44018	6.097029	21.03185	.1902208
#3	.6740873	.1882156	14.54561	6.062521	20.90525	.1925134

Elem	Sr4077
Units	ppm
Avg	.5007030
Stddev	.0011837
%RSD	.2364007
#1	.4995127
#2	.5007163
#3	.5018799

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2758.098	61087.28	13869.22	1785.459	3940.619
Stddev	12.220	174.72	24.75	10.274	18.854
%RSD	.4430727	.2860230	.1784680	.5754235	.4784555
#1	2749.383	61025.08	13896.73	1774.866	3920.468
#2	2752.845	61284.59	13862.20	1795.381	3943.559
#3	2772.067	60952.16	13848.75	1786.131	3957.831

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-02MSD Acquired: 3/17/2025 16:09:31 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7896264	1.804286	.9060668	1.869652	.8137803	2.393307
Stddev	.0023579	.015778	.0017013	.007415	.0026052	.015884
%RSD	.2986066	.8744494	.1877617	.3966005	.3201404	.6636865
#1	.7911983	1.819135	.9078596	1.870009	.8164491	2.379521
#2	.7907658	1.806005	.9044749	1.862064	.8112436	2.389722
#3	.7869153	1.787720	.9058660	1.876882	.8136481	2.410677

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4905487	.1782312	.1864719	54.43427	.3923962	.2107922
Stddev	.0012640	.0013298	.0000778	.21312	.0002066	.0005510
%RSD	.2576780	.7460792	.0417123	.3915186	.0526465	.2613785
#1	.4917668	.1777458	.1864189	54.51929	.3926316	.2112617
#2	.4892432	.1772123	.1864356	54.19176	.3923119	.2101856
#3	.4906360	.1797355	.1865612	54.59175	.3922451	.2109292

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2844973	4.285856	.4221705	33.33324	.4774791	.0707013
Stddev	.0018313	.033442	.0010837	.17262	.0011323	.0003083
%RSD	.6436904	.7802844	.2566898	.5178681	.2371340	.4360220
#1	.2864651	4.289471	.4225958	33.30971	.4782968	.0710425
#2	.2828430	4.317343	.4209387	33.17359	.4761868	.0706186
#3	.2841838	4.250753	.4229770	33.51642	.4779537	.0704428

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	277.4728	.2773917	.2301909	14.85293	.3132307	.4091533
Stddev	.9102	.0025765	.0012232	.11493	.0019968	.0019864
%RSD	.3280495	.9288403	.5313747	.7737857	.6374726	.4854992
#1	278.3012	.2784889	.2305426	14.90243	.3115012	.4114309
#2	277.6188	.2744482	.2288303	14.93482	.3127748	.4077789
#3	276.4984	.2792380	.2311996	14.72155	.3154159	.4082502

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-02MSD Acquired: 3/17/2025 16:09:31 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6745159	.1894402	F 14.29124	5.977040	F 20.75572	.1884044
Stddev	.0015926	.0006022	.04886	.006185	.00477	.0009004
%RSD	.2361028	.3179028	.3419099	.1034716	.0230003	.4778943
#1	.6751487	.1895097	14.33244	5.983796	20.75034	.1883173
#2	.6727043	.1888062	14.30402	5.975665	20.75739	.1893451
#3	.6756949	.1900047	14.23725	5.971659	20.75944	.1875507

Elem	Sr4077
Units	ppm
Avg	.4946785
Stddev	.0006521
%RSD	.1318217
#1	.4952858
#2	.4939894
#3	.4947605

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2769.066	62444.39	14110.66	1802.794	3961.699
Stddev	11.302	278.69	69.61	4.370	6.631
%RSD	.4081613	.4463005	.4933263	.2424280	.1673897
#1	2756.042	62146.84	14089.87	1797.776	3954.145
#2	2776.298	62487.01	14188.29	1805.771	3966.562
#3	2774.858	62699.31	14053.81	1804.834	3964.391

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCV02 Acquired: 3/17/2025 16:13:39 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.215821	5.229180	5.068136	5.136107	5.259924	9.980726	9.764141
Stddev	.029908	.030148	.028374	.026518	.027464	.015844	.032729
%RSD	.5734104	.5765273	.5598594	.5162967	.5221307	.1587435	.3351948
#1	5.223859	5.226426	5.048550	5.136486	5.264938	9.989963	9.762227
#2	5.182716	5.200504	5.055184	5.109401	5.230298	9.962431	9.732411
#3	5.240889	5.260610	5.100676	5.162432	5.284534	9.989783	9.797785

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2436347	2.501279	24.28984	1.038007	2.483371	1.281679	5.089813
Stddev	.0014476	.015357	.08090	.006454	.015740	.006450	.051220
%RSD	.5941717	.6139555	.3330788	.6217849	.6338227	.5032845	1.006326
#1	.2420023	2.489142	24.24478	1.041079	2.471401	1.279847	5.115172
#2	.2441394	2.496152	24.24151	1.030591	2.477512	1.276342	5.030861
#3	.2447624	2.518544	24.38325	1.042351	2.501201	1.288847	5.123407

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.348220	24.24841	2.472436	1.287922	26.38762	2.468161	2.593198
Stddev	.011027	.12879	.014306	.007106	.27280	.005457	.017848
%RSD	.4696011	.5311098	.5786375	.5517035	1.033812	.2210767	.6882801
#1	2.345920	24.17906	2.458924	1.293649	26.64005	2.470461	2.605818
#2	2.338525	24.16916	2.470960	1.279971	26.09822	2.461931	2.572777
#3	2.360216	24.39701	2.487423	1.290147	26.42459	2.472092	2.600999

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.61845	4.863284	5.201716	5.046683	4.881840	5.347311	5.115179
Stddev	.24117	.022885	.029796	.025611	.013698	.027514	.039663
%RSD	.9414013	.4705570	.5728081	.5074828	.2805877	.5145444	.7754031
#1	25.85007	4.837865	5.199764	5.030095	4.886776	5.366603	5.087538
#2	25.36874	4.869740	5.172944	5.033775	4.866358	5.315804	5.097374
#3	25.63654	4.882247	5.232440	5.076180	4.892385	5.359526	5.160625

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCV02 Acquired: 3/17/2025 16:13:39 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.957305	4.778862	4.924835
Stddev	.022296	.017953	.050114
%RSD	.4497702	.3756673	1.017581
#1	4.941091	4.789311	4.866969
#2	4.948093	4.758132	4.953481
#3	4.982732	4.789143	4.954054

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2873.613	62951.49	13846.46	1853.549	4178.265
Stddev	14.025	350.65	35.22	11.241	18.492
%RSD	.4880598	.5570114	.2543545	.6064619	.4425774
#1	2872.392	62648.94	13886.54	1841.160	4191.180
#2	2888.209	63335.79	13820.44	1863.096	4186.533
#3	2860.239	62869.75	13832.41	1856.391	4157.081

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCB02 Acquired: 3/17/2025 16:17:50 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000292	-.000439	.0001288	-.001401	-.002141	-.006500	-.001743
Stddev	.000427	.000839	.0002885	.000819	.001266	.002343	.000679
%RSD	146.0615	191.1326	224.0519	58.46512	59.12351	36.05037	38.96818
#1	-.000682	.000337	.0000304	-.001839	-.002149	-.004914	-.002411
#2	-.000358	-.000325	-.000098	-.001908	-.003404	-.009192	-.001053
#3	.000164	-.001328	.000454	-.000456	-.000872	-.005396	-.001766

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000599	.0000476	-.003336	.0002076	.0000137	-.000224	-.002367
Stddev	.0000430	.0000517	.003544	.0001956	.0001022	.000236	.003556
%RSD	71.74340	108.7572	106.2398	94.21461	746.4425	105.3279	150.2395
#1	.0000110	.0001070	.000495	.0002961	.0001129	.000044	-.006318
#2	.0000773	.0000232	-.006497	-.000017	.0000194	-.000318	-.001359
#3	.0000916	.0000125	-.004006	.000343	-.000091	-.000399	.000576

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024502	.0046231	.0002248	-.000000	.0571511	.0003548	-.000885
Stddev	.0003394	.0069218	.0002154	.000361	.0090340	.0001384	.000329
%RSD	13.85310	149.7227	95.81867	186662.7	15.80721	39.00301	37.22526
#1	.0021849	.0005587	.0000507	-.000222	.0674174	.0003848	-.001238
#2	.0023329	.0006953	.0001580	.000417	.0536199	.0002038	-.000831
#3	.0028327	.0126153	.0004656	-.000195	.0504161	.0004756	-.000586

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0242650	.0002725	.0000530	-.000389	.0000250	.0001964	-.002977
Stddev	.0258556	.0001677	.0001646	.000356	.0001305	.0048640	.002349
%RSD	106.5552	61.54384	310.8458	91.57774	520.8967	2477.166	78.93249
#1	.0321659	.0002565	.0002318	-.000659	-.000076	.0043693	-.001644
#2	-.004619	.0004476	.0000194	-.000523	.000172	-.005146	-.005689
#3	.045248	.0001133	-.000092	.000015	-.000022	.001365	-.001596

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCB02 Acquired: 3/17/2025 16:17:50 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.006783	.0011991	-.000054
Stddev	.001327	.0013591	.000104
%RSD	19.55866	113.3412	191.6420
#1	-.005572	-.000179	.000062
#2	-.008201	.001239	-.000138
#3	-.006576	.002538	-.000087

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3026.128	64574.04	14080.89	1922.449	4706.072
Stddev	10.339	374.94	86.15	10.798	19.810
%RSD	.3416686	.5806403	.6118460	.5617011	.4209488
#1	3026.938	64378.45	14083.96	1915.937	4707.013
#2	3015.408	64337.33	14165.46	1916.497	4685.808
#3	3036.039	65006.33	13993.23	1934.914	4725.395

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1553-03 Acquired: 3/17/2025 16:22:10 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0505586	-.002232	.4998894	-.003701	.0113211	15.99838
Stddev	.0023073	.002858	.0012347	.002706	.0016738	.01223
%RSD	4.563571	128.0039	.2469874	73.11846	14.78486	.0764734
#1	.0531802	.000746	.5008553	-.006691	.0124544	15.98827
#2	.0496591	-.002493	.5003146	-.002990	.0093986	15.99489
#3	.0488366	-.004951	.4984984	-.001421	.0121103	16.01198

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2269797	.0009010	.0006839	130.6890	.0629696	.0401248
Stddev	.0006560	.0000523	.0000863	.1516	.0000619	.0001246
%RSD	.2889940	5.802838	12.61932	.1159879	.0982579	.3105408
#1	.2262621	.0008629	.0007835	130.6323	.0629783	.0399827
#2	.2271285	.0009606	.0006375	130.5739	.0630267	.0402154
#3	.2275484	.0008795	.0006307	130.8607	.0629039	.0401763

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3560167	34.20406	1.270523	11.29098	.0535290	.0012825
Stddev	.0008651	.14121	.001580	.00588	.0004371	.0004540
%RSD	.2429838	.4128596	.1243576	.0520665	.8165696	35.39977
#1	.3568905	34.12991	1.269432	11.28553	.0537386	.0013794
#2	.3551606	34.11537	1.269802	11.29019	.0538217	.0016803
#3	.3559990	34.36691	1.272335	11.29721	.0530265	.0007879

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	958.1579	.0444935	17.75552	28.34357	.1022696	.0297063
Stddev	1.5522	.0011906	.03200	.19759	.0007315	.0003228
%RSD	.1620022	2.675990	.1802154	.6971298	.7152131	1.086504
#1	959.1466	.0431238	17.78262	28.22188	.1029289	.0294501
#2	956.3688	.0452810	17.76372	28.23728	.1023972	.0300688
#3	958.9582	.0450758	17.72022	28.57156	.1014828	.0296000

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1553-03 Acquired: 3/17/2025 16:22:10 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0328339	.8920965	F 42.43528	2.430871	4.539472	.0059933
Stddev	.0005253	.0011526	.18423	.016360	.044770	.0013135
%RSD	1.599707	.1292031	.4341533	.6730092	.9862306	21.91552
#1	.0328997	.8933688	42.35088	2.446594	4.590877	.0074851
#2	.0333231	.8917986	42.30837	2.432078	4.518517	.0054844
#3	.0322788	.8911221	42.64660	2.413941	4.509024	.0050105

Elem	Sr4077
Units	ppm
Avg	1.015402
Stddev	.001970
%RSD	.1940031
#1	1.013596
#2	1.015108
#3	1.017503

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2681.310	60778.18	14463.49	1778.409	3601.396
Stddev	6.613	271.24	15.85	3.709	17.526
%RSD	.2466250	.4462826	.1095677	.2085600	.4866351
#1	2673.823	60934.73	14480.98	1775.719	3581.436
#2	2686.354	60934.83	14459.40	1782.640	3608.486
#3	2683.753	60464.97	14450.09	1776.868	3614.266

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-02A Acquired: 3/17/2025 16:26:28 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8061430	1.867843	.9202375	1.901676	.8181000	3.648376
Stddev	.0063787	.017583	.0034026	.004991	.0023053	.014068
%RSD	.7912562	.9413310	.3697489	.2624699	.2817819	.3856072
#1	.8010659	1.848395	.9163159	1.899382	.8165805	3.635915
#2	.8133027	1.872517	.9219903	1.907402	.8207526	3.663632
#3	.8040605	1.882616	.9224063	1.898245	.8169670	3.645581

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5093482	.1810015	.1884205	53.71995	.3984935	.2185452
Stddev	.0026345	.0010892	.0004930	.37077	.0005644	.0004821
%RSD	.5172230	.6017798	.2616544	.6901947	.1416421	.2206146
#1	.5073747	.1800177	.1879519	53.32775	.3978804	.2180352
#2	.5123398	.1821720	.1889347	54.06474	.3989916	.2186067
#3	.5083301	.1808147	.1883749	53.76736	.3986086	.2189936

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2925315	9.418682	.4475649	33.10739	.4843399	.0745904
Stddev	.0008319	.061767	.0034930	.22577	.0014698	.0006643
%RSD	.2843643	.6557889	.7804447	.6819202	.3034691	.8905391
#1	.2918468	9.348460	.4435400	32.85535	.4832300	.0738507
#2	.2934573	9.442983	.4498036	33.29111	.4860068	.0751359
#3	.2922903	9.464602	.4493512	33.17569	.4837829	.0747847

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	280.8371	.2846637	.2411640	15.10471	.3062723	.4089208
Stddev	3.0365	.0041010	.0007966	.04074	.0029287	.0013488
%RSD	1.081230	1.440652	.3303024	.2696852	.9562236	.3298431
#1	277.8491	.2802497	.2415777	15.05824	.3040472	.4073725
#2	283.9199	.2883559	.2416686	15.13425	.3095903	.4098406
#3	280.7422	.2853857	.2402457	15.12165	.3051795	.4095494

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1543-02A Acquired: 3/17/2025 16:26:28 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6782951	.2190919	F 15.95946	6.208747	F 21.19112	.1919364
Stddev	.0017225	.0020510	.05381	.016074	.07151	.0015035
%RSD	.2539450	.9361512	.3371907	.2588931	.3374529	.7833411
#1	.6764711	.2186967	15.89815	6.198052	21.12645	.1905785
#2	.6798940	.2172672	15.99890	6.227232	21.26792	.1935522
#3	.6785202	.2213118	15.98132	6.200957	21.17899	.1916786

Elem	Sr4077
Units	ppm
Avg	.4872536
Stddev	.0032695
%RSD	.6710072
#1	.4838704
#2	.4903961
#3	.4874942

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2760.068	61851.45	14063.62	1783.624	3940.259
Stddev	5.405	292.65	100.06	10.969	10.315
%RSD	.1958335	.4731452	.7115041	.6149946	.2617959
#1	2765.629	62177.12	14172.33	1794.422	3951.218
#2	2754.834	61610.53	13975.36	1772.491	3930.738
#3	2759.741	61766.71	14043.18	1783.959	3938.820

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-04 Acquired: 3/17/2025 16:30:36 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003155	-.005454	.0141653	.0010444	-.001077	.0528677	.3417294
Stddev	.001301	.000975	.0006380	.0046419	.000724	.0034494	.0016867
%RSD	41.22917	17.87183	4.504043	444.4764	67.18819	6.524601	.4935653
#1	-.004343	-.004494	.0147028	-.000529	-.001784	.0501673	.3401754
#2	-.003358	-.005425	.0143329	.006268	-.001109	.0567535	.3414898
#3	-.001765	-.006443	.0134602	-.002606	-.000338	.0516824	.3435231

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000101	.0004134	18.56175	.0002229	.0016646	.0143979	.0221797
Stddev	.0000286	.0000252	.09026	.0003814	.0000838	.0008144	.0054235
%RSD	283.2684	6.105939	.4862681	171.0918	5.034087	5.656122	24.45268
#1	.0000339	.0004153	18.47219	.0005719	.0015713	.0134781	.0197021
#2	.0000180	.0003873	18.65270	-.000184	.0017334	.0146888	.0184374
#3	-.000022	.0004377	18.56037	.000281	.0016891	.0150270	.0283995

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3926819	2.198502	.0035340	.0005071	306.0827	-.000021	.1516484
Stddev	.0012956	.020565	.0001491	.0001537	6.1145	.000667	.0023851
%RSD	.3299257	.9354138	4.220086	30.31267	1.997676	3115.579	1.572749
#1	.3913691	2.209713	.0033647	.0006625	313.1151	.000658	.1543719
#2	.3927170	2.211025	.0036461	.0005036	303.1118	-.000674	.1499324
#3	.3939595	2.174767	.0035911	.0003552	302.0213	-.000048	.1506410

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9805716	.0578757	.0043984	-.002173	.0011910	.9141801	.0124271
Stddev	.0227035	.0010162	.0002248	.000589	.0003546	.0100884	.0011342
%RSD	2.315336	1.755805	5.110784	27.10728	29.77196	1.103549	9.127161
#1	.9631630	.0567025	.0043470	-.001824	.0010686	.9255337	.0113656
#2	.9723007	.0584792	.0046445	-.002853	.0009138	.9062452	.0136222
#3	1.006251	.0584455	.0042038	-.001841	.0015906	.9107616	.0122934

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-04 Acquired: 3/17/2025 16:30:36 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5557581	-.003390	.0778298
Stddev	.0046381	.000742	.0000870
%RSD	.8345579	21.88930	.1117651
#1	.5529769	-.003636	.0777597
#2	.5531850	-.003978	.0779272
#3	.5611124	-.002556	.0778026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2799.806	62450.42	14378.31	1804.985	4077.164
Stddev	6.799	554.08	48.99	24.159	10.644
%RSD	.2428526	.8872288	.3407102	1.338441	.2610544
#1	2802.063	61816.06	14421.46	1777.226	4085.680
#2	2805.190	62695.57	14325.06	1821.260	4080.582
#3	2792.165	62839.64	14388.43	1816.467	4065.232

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-04DUP Acquired: 3/17/2025 16:35:03 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002907	-.005065	.0133148	.0007508	-.001304	.0535159	.3430875
Stddev	.001163	.002637	.0014146	.0016229	.000886	.0016540	.0013558
%RSD	39.99251	52.05111	10.62391	216.1605	67.96025	3.090723	.3951855
#1	-.003841	-.002685	.0134671	.0018026	-.001735	.0546212	.3445839
#2	-.003275	-.004612	.0146470	-.001118	-.001891	.0543122	.3419406
#3	-.001605	-.007899	.0118303	.001568	-.000285	.0516144	.3427380

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000318	.0004492	18.58820	.0000698	.0016766	.0147895	.0274538
Stddev	.0000178	.0000940	.09570	.0004549	.0001444	.0002622	.0059926
%RSD	55.88907	20.92422	.5148616	651.6567	8.609807	1.772785	21.82795
#1	.0000516	.0004797	18.67452	-.000325	.0016840	.0150908	.0207530
#2	.0000175	.0005241	18.60481	-.000032	.0015288	.0146650	.0322994
#3	.0000261	.0003437	18.48528	.000567	.0018172	.0146128	.0293090

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3957643	2.215329	.0036836	.0003908	304.8836	.0012204	.1523863
Stddev	.0034685	.019836	.0000440	.0002493	1.5877	.0012104	.0009960
%RSD	.8763989	.8953934	1.195333	63.79902	.5207488	99.18255	.6535936
#1	.3995531	2.237745	.0036970	.0001588	303.0906	.0001544	.1516336
#2	.3949940	2.200049	.0037193	.0006545	306.1112	.0025362	.1535157
#3	.3927457	2.208192	.0036344	.0003591	305.4490	.0009706	.1520095

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9451180	.0581925	.0040603	-.001394	.0006976	.9023771	.0152700
Stddev	.0242076	.0004587	.0002033	.000792	.0007973	.0048148	.0012197
%RSD	2.561335	.7882341	5.006436	56.76425	114.2957	.5335684	7.987531
#1	.9181144	.0586850	.0040032	-.002183	.0006532	.8968188	.0150355
#2	.9523655	.0581149	.0038917	-.001399	-.000077	.9050531	.0141845
#3	.9648740	.0577775	.0042860	-.000600	.001516	.9052596	.0165899

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-04DUP Acquired: 3/17/2025 16:35:03 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5528483	-.003947	.0780157
Stddev	.0022471	.001409	.0003202
%RSD	.4064634	35.70697	.4104748
#1	.5506068	-.002349	.0781278
#2	.5551010	-.005011	.0776545
#3	.5528370	-.004480	.0782649

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2798.237	62406.74	14363.52	1824.888	4062.085
Stddev	4.302	258.67	108.68	4.294	7.525
%RSD	.1537378	.4144829	.7566132	.2352868	.1852403
#1	2801.088	62607.07	14295.29	1827.034	4070.662
#2	2800.335	62114.72	14306.43	1819.944	4059.005
#3	2793.289	62498.43	14488.85	1827.685	4056.590

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-04LX5 Acquired: 3/17/2025 16:39:28 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001341	-.001374	.0026348	-.000523	-.001148	.0102391	.0683045
Stddev	.001809	.000656	.0007868	.001301	.000576	.0030160	.0008168
%RSD	134.8830	47.76024	29.86405	248.8594	50.20391	29.45581	1.195850
#1	.000746	-.001971	.0025591	-.001563	-.000829	.0137018	.0679169
#2	-.002319	-.001480	.0034567	-.000940	-.001813	.0081855	.0692429
#3	-.002450	-.000672	.0018885	.000935	-.000801	.0088301	.0677535

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000160	.0001165	3.914859	-.000015	.0004779	.0028822	.0029051
Stddev	.0000110	.0000540	.013867	.000415	.0000925	.0004947	.0048703
%RSD	68.95914	46.35877	.3542135	2799.638	19.36202	17.16590	167.6498
#1	.0000116	.0001130	3.902802	-.000021	.0005688	.0023126	-.001620
#2	.0000286	.0000644	3.930012	.000403	.0004810	.0032054	.002275
#3	.0000079	.0001723	3.911763	-.000427	.0003838	.0031284	.008060

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0837717	.4767686	.0007800	.0001035	59.85925	.0006080	.0298353
Stddev	.0003180	.0091286	.0003323	.0003042	.17294	.0005614	.0005271
%RSD	.3795906	1.914679	42.60018	293.8866	.2889125	92.32786	1.766592
#1	.0835233	.4662874	.0008921	.0001927	59.93810	.0007251	.0298380
#2	.0836617	.4829786	.0010418	-.000235	59.97872	.0011016	.0303610
#3	.0841300	.4810399	.0004062	.000353	59.66094	-.000003	.0293069

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2959695	.0059173	.0004012	-.000187	.0008836	.1748130	.0003078
Stddev	.0199808	.0001846	.0002203	.000652	.0004657	.0064188	.0013861
%RSD	6.750976	3.119339	54.91749	348.1188	52.70222	3.671801	450.3399
#1	.2971768	.0061124	.0004477	.000181	.0004057	.1721813	.0014222
#2	.3153192	.0057454	.0005945	-.000940	.0013360	.1821294	-.001244
#3	.2754123	.0058941	.0001613	.000197	.0009090	.1701284	.000746

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-04LX5 Acquired: 3/17/2025 16:39:28 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.1007562	.0026144	.0160883
Stddev	.0020080	.0004038	.0001400
%RSD	1.992933	15.44518	.8699329
#1	.0999448	.0022899	.0160273
#2	.0992809	.0024867	.0162485
#3	.1030430	.0030666	.0159893

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2999.727	66401.58	14482.26	1932.946	4475.764
Stddev	6.516	129.76	25.85	11.520	13.893
%RSD	.2172114	.1954228	.1784859	.5959762	.3104078
#1	3000.623	66292.07	14512.07	1919.909	4473.478
#2	3005.749	66367.77	14468.66	1937.179	4490.659
#3	2992.810	66544.91	14466.06	1941.751	4463.156

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-04MS Acquired: 3/17/2025 16:43:46 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8432797	1.958814	.9840438	2.037720	.8545638	2.028462	.5377212
Stddev	.0058282	.007599	.0051084	.008446	.0044987	.017103	.0021836
%RSD	.6911340	.3879326	.5191245	.4144686	.5264348	.8431487	.4060856
#1	.8498068	1.966964	.9890867	2.044063	.8551180	2.034480	.5354235
#2	.8385963	1.951924	.9788723	2.028133	.8498136	2.041742	.5397693
#3	.8414362	1.957553	.9841725	2.040964	.8587597	2.009163	.5379709

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1893243	.2004022	19.78045	.4250855	.2030170	.3179071	3.173070
Stddev	.0012283	.0008011	.09415	.0016097	.0007395	.0018645	.038756
%RSD	.6487835	.3997615	.4759655	.3786797	.3642593	.5864902	1.221398
#1	.1903402	.2010600	19.74705	.4262257	.2037944	.3196029	3.145742
#2	.1896736	.1995100	19.88674	.4232442	.2023224	.3159105	3.156044
#3	.1879592	.2006364	19.70755	.4257868	.2029342	.3182079	3.217425

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5807040	4.087400	.5023224	.0791781	308.8147	.2983494	.3619489
Stddev	.0036100	.017281	.0015497	.0003501	3.4439	.0016900	.0023247
%RSD	.6216623	.4227839	.3085177	.4421338	1.115193	.5664429	.6422717
#1	.5774970	4.073362	.5030945	.0795758	306.9172	.2974005	.3628493
#2	.5846137	4.106701	.5005383	.0790419	312.7900	.3003006	.3593087
#3	.5800012	4.082138	.5033345	.0789166	306.7369	.2973472	.3636888

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.39042	.3136634	.4430549	.7128495	.1970114	1.773948	6.417841
Stddev	.06510	.0031748	.0014789	.0013851	.0011238	.011736	.031647
%RSD	.5254105	1.012177	.3337865	.1943116	.5704208	.6615525	.4931041
#1	12.31674	.3154840	.4431861	.7143266	.1972291	1.764887	6.452660
#2	12.41436	.3155087	.4415148	.7115796	.1980104	1.769751	6.390827
#3	12.44016	.3099974	.4444638	.7126424	.1957946	1.787205	6.410038

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-04MS Acquired: 3/17/2025 16:43:46 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5463123	.1988931	.2694813
Stddev	.0042592	.0003481	.0005431
%RSD	.7796220	.1750022	.2015232
#1	.5507673	.1984964	.2689777
#2	.5422805	.1991469	.2700567
#3	.5458890	.1990361	.2694094

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2803.040	61997.72	14257.00	1810.135	4051.349
Stddev	10.878	134.36	71.68	9.711	13.784
%RSD	.3880933	.2167113	.5027862	.5364881	.3402369
#1	2796.632	62120.38	14231.68	1804.853	4043.516
#2	2815.601	62018.67	14201.41	1821.342	4067.265
#3	2796.888	61854.12	14337.90	1804.210	4043.266

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-04MSD Acquired: 3/17/2025 16:47:56 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8505241	1.935605	.9906690	2.064771	.8637862	2.049087	.5352262
Stddev	.0050433	.002436	.0015709	.004248	.0015762	.006757	.0030909
%RSD	.5929672	.1258705	.1585720	.2057184	.1824736	.3297724	.5775006
#1	.8447457	1.936290	.9891803	2.059932	.8624180	2.056861	.5369493
#2	.8540404	1.932899	.9923109	2.067882	.8655097	2.044621	.5370715
#3	.8527860	1.937625	.9905157	2.066499	.8634309	2.045778	.5316578

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1898895	.2022507	19.80588	.4293110	.2052258	.3207748	3.217032
Stddev	.0006690	.0000343	.04407	.0005292	.0002027	.0005306	.029733
%RSD	.3523225	.0169814	.2225139	.1232666	.0987549	.1654059	.9242509
#1	.1891170	.2022291	19.83825	.4297771	.2049952	.3212532	3.250346
#2	.1902750	.2022903	19.75569	.4287358	.2053759	.3202042	3.207564
#3	.1902765	.2022327	19.82369	.4294202	.2053062	.3208670	3.193185

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5806306	4.140404	.5057469	.0799947	311.9313	.3005691	.3668664
Stddev	.0016636	.016779	.0010235	.0004987	1.9206	.0030388	.0010946
%RSD	.2865191	.4052508	.2023701	.6233921	.6156989	1.011028	.2983752
#1	.5825088	4.130103	.5055752	.0803985	313.9071	.3040123	.3671752
#2	.5800405	4.131345	.5048202	.0794372	311.8158	.2982620	.3656505
#3	.5793424	4.159766	.5068454	.0801482	310.0712	.2994330	.3677735

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.52356	.3133639	.4471868	.7167592	.1954510	1.815836	6.403832
Stddev	.09614	.0012758	.0005644	.0024204	.0010742	.021009	.006196
%RSD	.7677095	.4071400	.1262196	.3376875	.5495899	1.157014	.0967520
#1	12.63359	.3120181	.4477690	.7150588	.1963824	1.840014	6.407049
#2	12.48137	.3145558	.4466420	.7156885	.1956945	1.805467	6.407758
#3	12.45572	.3135176	.4471494	.7195303	.1942759	1.802026	6.396690

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-04MSD Acquired: 3/17/2025 16:47:56 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5476276	.1984711	.2684396
Stddev	.0044063	.0016262	.0016926
%RSD	.8046146	.8193858	.6305213
#1	.5435626	.2002217	.2695951
#2	.5523100	.1981843	.2692268
#3	.5470103	.1970074	.2664968

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2773.536	61068.38	14159.29	1780.827	4012.900
Stddev	1.515	181.81	24.10	7.442	5.265
%RSD	.0546273	.2977099	.1701805	.4179100	.1311977
#1	2774.742	60878.66	14184.13	1775.806	4014.328
#2	2771.835	61241.08	14157.71	1789.377	4007.069
#3	2774.032	61085.40	14136.02	1777.297	4017.304

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-04A Acquired: 3/17/2025 16:52:06 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8364670	1.933282	.9815640	2.037317	.8518232	2.071268	.5337479
Stddev	.0096266	.020485	.0158560	.032008	.0116420	.004596	.0026193
%RSD	1.150866	1.059606	1.615382	1.571109	1.366715	.2219074	.4907381
#1	.8319175	1.922313	.9729780	2.022416	.8423320	2.068472	.5331849
#2	.8299583	1.920618	.9718525	2.015476	.8483241	2.068760	.5314558
#3	.8475251	1.956916	.9998614	2.074060	.8648134	2.076573	.5366028

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1954024	.2010927	19.88562	.4270743	.2045698	.3176198	3.158464
Stddev	.0013068	.0033509	.09018	.0022729	.0032615	.0053396	.027563
%RSD	.6687593	1.666348	.4534997	.5322075	1.594323	1.681128	.8726718
#1	.1948140	.1995202	19.89302	.4247364	.2026895	.3142747	3.154975
#2	.1944932	.1988172	19.79197	.4292761	.2026839	.3148069	3.187605
#3	.1968999	.2049406	19.97188	.4272105	.2083358	.3237777	3.132811

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5920249	4.169946	.5045335	.0788086	303.7517	.3019112	.3598831
Stddev	.0030709	.029772	.0085889	.0010028	.7651	.0017910	.0020471
%RSD	.5187040	.7139711	1.702345	1.272467	.2518793	.5932064	.5688235
#1	.5924025	4.140255	.5004596	.0776963	303.5312	.3034503	.3577054
#2	.5887827	4.169784	.4987397	.0796434	304.6028	.3023379	.3617680
#3	.5948894	4.199799	.5144013	.0790862	303.1211	.2999454	.3601759

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.15645	.3243502	.4474774	.7123062	.1970801	1.763873	6.331535
Stddev	.06756	.0022756	.0078643	.0128263	.0015512	.021508	.119887
%RSD	.5557144	.7015984	1.757480	1.800670	.7871048	1.219374	1.893483
#1	12.12583	.3237358	.4430867	.7048699	.1980932	1.748475	6.257430
#2	12.23389	.3224449	.4427888	.7049320	.1952943	1.788447	6.267324
#3	12.10962	.3268700	.4565567	.7271167	.1978529	1.754697	6.469850

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-04A Acquired: 3/17/2025 16:52:06 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5395399	.2031307	.2672015
Stddev	.0093841	.0013720	.0010238
%RSD	1.739280	.6754357	.3831661
#1	.5363082	.2026773	.2674789
#2	.5321986	.2020428	.2660675
#3	.5501127	.2046720	.2680580

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2816.863	61767.38	13748.68	1816.379	4077.837
Stddev	39.099	203.30	98.00	3.703	55.668
%RSD	1.388044	.3291452	.7127748	.2038775	1.365127
#1	2839.626	61863.20	13756.04	1820.641	4106.055
#2	2839.248	61533.87	13842.79	1813.946	4113.745
#3	2771.716	61905.07	13647.21	1814.551	4013.711

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167133TB Acquired: 3/17/2025 16:56:16 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002728	-.006331	.0010056	.0031663	.0006058	.0085408
Stddev	.002515	.001280	.0010400	.0002296	.0009615	.0018122
%RSD	92.19113	20.22373	103.4240	7.252006	158.7208	21.21794
#1	-.001466	-.006552	.0012177	.0029788	-.000393	.0105012
#2	-.005624	-.004954	.0019231	.0034224	.000684	.0069268
#3	-.001094	-.007486	-.000124	.0030976	.001526	.0081944

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003958	-.000098	-.000071	.0172866	.0004547	-.000289
Stddev	.000774	.000023	.000045	.0044005	.0000661	.000213
%RSD	19.54352	23.41158	63.18591	25.45593	14.53091	73.52342
#1	-.004480	-.000122	-.000020	.0154580	.0005299	-.000321
#2	-.004325	-.000077	-.000104	.0223065	.0004058	-.000484
#3	-.003070	-.000094	-.000089	.0140952	.0004284	-.000062

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001642	.0081429	.0025137	.0074769	.0011075	-.000018
Stddev	.0002229	.0042677	.0002028	.0006571	.0002028	.000397
%RSD	135.7623	52.41089	8.066566	8.788103	18.31370	2199.517
#1	.0001717	.0121013	.0027284	.0076936	.0010276	-.000379
#2	.0003832	.0087055	.0024872	.0079983	.0009568	.000408
#3	-.000062	.0036217	.0023254	.0067389	.0013381	-.000083

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 330.6930	.0013421	.0003643	.1021581	-.009735	-.000049
Stddev	1.5261	.0014074	.0003182	.0233426	.000512	.000111
%RSD	.4614864	104.8647	87.34703	22.84949	5.256580	227.1184
#1	330.4465	-.000132	.0003942	.0794914	-.009879	.000014
#2	329.3050	.002671	.0006666	.1008604	-.010159	-.000177
#3	332.3273	.001487	.0000322	.1261224	-.009167	.000016

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167133TB Acquired: 3/17/2025 16:56:16 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000724	.0008113	.0055394	.0013593	.0087617	-.001029
Stddev	.000194	.0004720	.0064560	.0009526	.0010326	.001021
%RSD	26.80204	58.18111	116.5463	70.08072	11.78560	99.25336
#1	-.000546	.0005271	-.000486	.0002682	.0099375	-.001935
#2	-.000695	.0013561	.004751	.0017840	.0083455	.000078
#3	-.000931	.0005506	.012354	.0020257	.0080021	-.001230

Elem	Sr4077
Units	ppm
Avg	-.000063
Stddev	.000041
%RSD	65.98819
#1	-.000027
#2	-.000053
#3	-.000108

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2831.879	62863.69	14213.04	1854.434	4104.729
Stddev	5.702	197.11	115.65	8.334	14.108
%RSD	.2013557	.3135573	.8137173	.4494152	.3437120
#1	2838.462	62636.30	14298.66	1846.680	4118.412
#2	2828.696	62986.00	14259.00	1853.375	4105.546
#3	2828.479	62968.77	14081.47	1863.247	4090.230

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167161BL Acquired: 3/17/2025 17:00:44 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004186	.0000303	-.000237	-.001266	-.001145	-.001152
Stddev	.0005765	.0013376	.000693	.001285	.002225	.001794
%RSD	137.7159	4406.946	292.7427	101.5300	194.3079	155.7062
#1	.0000022	.0007375	.000477	-.002723	-.002837	-.000956
#2	.0010765	-.001512	-.000906	-.000295	.001375	.000536
#3	.0001771	.000866	-.000281	-.000780	-.001974	-.003036

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002375	.0000645	-.000011	-.001066	.0004334	-.000060
Stddev	.000210	.0000194	.000009	.003425	.0002225	.000203
%RSD	8.853328	30.13560	78.60330	321.3823	51.32517	340.9838
#1	-.002282	.0000558	-.000005	.002887	.0004051	-.000032
#2	-.002616	.0000510	-.000022	-.002929	.0002265	-.000275
#3	-.002228	.0000868	-.000008	-.003155	.0006687	.000128

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001159	-.003366	.0021433	.0063108	.0001608	.0000063
Stddev	.0001234	.003164	.0002998	.0058994	.0003586	.0002095
%RSD	106.4650	94.02052	13.98905	93.48140	222.9954	3348.599
#1	.0001962	-.000824	.0020688	.0097582	.0000420	.0001588
#2	.0001777	-.006910	.0018877	-.000501	-.000123	-.000233
#3	-.000026	-.002364	.0024733	.009675	.000564	.000093

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3026121	.0008145	-.000940	.2073611	-.009710	-.000391
Stddev	.0197080	.0011315	.000105	.0239973	.000744	.000137
%RSD	6.512624	138.9301	11.17319	11.57269	7.664663	35.04143
#1	.3239706	.0020512	-.000850	.1809007	-.010566	-.000283
#2	.2987347	-.000169	-.001055	.2277154	-.009220	-.000545
#3	.2851310	.000561	-.000914	.2134671	-.009343	-.000345

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167161BL Acquired: 3/17/2025 17:00:44 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001202	.0007572	-.004955	-.002066	F .0102017	.0045030
Stddev	.0005601	.0004481	.000937	.000835	.0028811	.0002180
%RSD	465.9757	59.16799	18.91905	40.41612	28.24141	4.841426
#1	-.000523	.0012603	-.004428	-.001225	.0117212	.0043579
#2	.000498	.0006101	-.004400	-.002079	.0120049	.0047537
#3	.000385	.0004012	-.006037	-.002894	.0068789	.0043974

Elem	Sr4077
Units	ppm
Avg	-.000208
Stddev	.000014
%RSD	6.613395
#1	-.000194
#2	-.000209
#3	-.000221

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3048.574	65767.12	14177.33	1963.826	4707.124
Stddev	7.061	473.75	75.27	6.870	16.267
%RSD	.2316124	.7203508	.5308919	.3498429	.3455788
#1	3041.485	65220.14	14156.39	1955.894	4689.096
#2	3048.630	66032.93	14260.85	1967.703	4711.573
#3	3055.607	66048.27	14114.75	1967.882	4720.704

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCV03 Acquired: 3/17/2025 17:05:04 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.324397	5.350509	5.198001	5.224400	5.368085	10.40666	9.781067
Stddev	.014779	.017284	.026479	.014237	.019497	.01605	.059901
%RSD	.2775678	.3230270	.5094020	.2725123	.3631930	.1542315	.6124166
#1	5.335612	5.369776	5.204830	5.229931	5.381596	10.39072	9.787352
#2	5.329930	5.345382	5.220396	5.235042	5.376925	10.40645	9.837577
#3	5.307651	5.336369	5.168777	5.208228	5.345734	10.42282	9.718271

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2601006	2.565295	25.14671	1.086163	2.543691	1.305804	5.129731
Stddev	.0001955	.012395	.01703	.006354	.011727	.003212	.050308
%RSD	.0751800	.4831885	.0677312	.5849853	.4610360	.2459412	.9807065
#1	.2601049	2.568131	25.13156	1.079702	2.547052	1.308298	5.076704
#2	.2599030	2.576026	25.14343	1.092404	2.553371	1.306933	5.176787
#3	.2602940	2.551727	25.16515	1.086384	2.530651	1.302180	5.135701

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.431216	25.55264	2.531378	1.331076	26.38475	2.564279	2.679943
Stddev	.005699	.04348	.012656	.008639	.18877	.002711	.013701
%RSD	.2344167	.1701651	.4999684	.6490203	.7154328	.1057070	.5112481
#1	2.428786	25.57557	2.534655	1.322225	26.18391	2.565222	2.671267
#2	2.437728	25.57985	2.542072	1.339486	26.55852	2.561223	2.695738
#3	2.427135	25.50249	2.517405	1.331518	26.41182	2.566393	2.672824

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.47598	5.168783	5.341741	5.180262	5.037402	5.403572	5.296167
Stddev	.18556	.003230	.016345	.027176	.009506	.039431	.026678
%RSD	.7283859	.0624875	.3059921	.5246026	.1887058	.7297171	.5037276
#1	25.26979	5.165188	5.351551	5.183277	5.026842	5.363247	5.305867
#2	25.62956	5.169721	5.350800	5.205804	5.045276	5.442043	5.316638
#3	25.52859	5.171440	5.322872	5.151704	5.040088	5.405427	5.265996

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCV03 Acquired: 3/17/2025 17:05:04 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.045783	4.944138	4.973081
Stddev	.023186	.008042	.025696
%RSD	.4595077	.1626512	.5167012
#1	5.046571	4.934856	4.991096
#2	5.068565	4.949005	4.984491
#3	5.022213	4.948554	4.943656

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2915.210	62968.05	13388.18	1840.731	4235.810
Stddev	8.154	375.25	8.94	9.773	18.686
%RSD	.2797070	.5959450	.0667654	.5309417	.4411330
#1	2912.131	63297.99	13383.11	1847.233	4233.581
#2	2909.043	62559.83	13382.94	1829.492	4218.339
#3	2924.455	63046.33	13398.51	1845.469	4255.510

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCB03 Acquired: 3/17/2025 17:09:14 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000538	-.001425	.0002480	-.002783	-.001684	-.001831	-.002895
Stddev	.000999	.000833	.0002811	.002724	.000437	.002010	.000186
%RSD	185.6093	58.44426	113.3270	97.86850	25.93683	109.7659	6.423587
#1	-.001209	-.000464	.0005716	-.002315	-.001292	-.003630	-.002837
#2	-.001017	-.001930	.0001075	-.000324	-.001607	-.002202	-.002745
#3	.000610	-.001880	.0000649	-.005711	-.002155	.000338	-.003103

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000379	-.000013	.0003921	.0001848	.0000670	-.000133	-.003765
Stddev	.0000144	.000015	.0077389	.0004042	.0002831	.000230	.002231
%RSD	37.98280	117.1345	1973.550	218.7422	422.5397	173.1409	59.26828
#1	.0000545	.000000	.0093106	.0002474	.0002566	-.000264	-.003245
#2	.0000302	-.000029	-.003581	-.000247	-.000258	.000133	-.001839
#3	.0000290	-.000010	-.004554	.000554	.000203	-.000267	-.006210

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024328	.0095653	.0002869	.0004043	.1196712	.0002350	-.001044
Stddev	.0002986	.0103219	.0000480	.0001571	.0046507	.0001606	.000395
%RSD	12.27468	107.9095	16.71493	38.84075	3.886258	68.31803	37.81232
#1	.0027086	-.001697	.0002527	.0005374	.1239576	.0003964	-.001137
#2	.0021157	.011817	.0003417	.0002311	.1203296	.0002334	-.000611
#3	.0024740	.018575	.0002663	.0004446	.1147263	.0000753	-.001385

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0724705	-.002377	-.000138	-.000183	.0007680	-.000686	-.003646
Stddev	.0254872	.000669	.000041	.001002	.0002211	.005273	.000719
%RSD	35.16906	28.13181	29.99877	547.4690	28.79371	768.2668	19.72480
#1	.0921894	-.003122	-.000140	.000934	.0010095	-.001262	-.003720
#2	.0815313	-.001830	-.000178	-.001005	.0007187	-.005648	-.002893
#3	.0436909	-.002178	-.000096	-.000478	.0005756	.004851	-.004326

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCB03 Acquired: 3/17/2025 17:09:14 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.007531	.0014966	-.000158
Stddev	.003112	.0013448	.000068
%RSD	41.32716	89.85663	43.34087
#1	-.009149	.0004116	-.000084
#2	-.009500	.0010770	-.000170
#3	-.003943	.0030011	-.000218

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3039.256	64777.80	14374.46	1913.967	4712.958
Stddev	8.318	61.50	56.85	19.382	9.803
%RSD	.2736811	.0949382	.3954988	1.012685	.2079998
#1	3030.453	64732.10	14415.20	1891.704	4702.078
#2	3040.329	64847.72	14309.52	1923.111	4715.695
#3	3046.985	64753.58	14398.68	1927.086	4721.102

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167161BS Acquired: 3/17/2025 17:13:34 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7703596	1.937633	.9337871	1.910582	.7934661	1.887097
Stddev	.0024121	.017552	.0041625	.003247	.0007454	.002489
%RSD	.3131156	.9058654	.4457628	.1699547	.0939410	.1318914
#1	.7697035	1.923190	.9361507	1.914112	.7936107	1.889755
#2	.7730318	1.932540	.9289809	1.907723	.7926590	1.884821
#3	.7683433	1.957168	.9362296	1.909911	.7941286	1.886715

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1737552	.1929375	.1865013	.9651342	.4015509	.1877360
Stddev	.0016458	.0000567	.0006339	.0099376	.0015336	.0005172
%RSD	.9471744	.0293665	.3399183	1.029657	.3819175	.2754991
#1	.1721275	.1928902	.1863031	.9712761	.4026350	.1878313
#2	.1737196	.1929220	.1859902	.9536690	.3997962	.1871778
#3	.1754185	.1930003	.1872107	.9704575	.4022214	.1881989

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3005603	2.894468	.1869036	1.874319	.4701042	.0751500
Stddev	.0011030	.003269	.0002742	.018024	.0017890	.0002142
%RSD	.3669845	.1129409	.1467189	.9616128	.3805457	.2850848
#1	.3000385	2.898193	.1866067	1.860605	.4689163	.0752935
#2	.2998150	2.893135	.1869564	1.867618	.4692346	.0749038
#3	.3018274	2.892076	.1871475	1.894733	.4721618	.0752528

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.996986	.2811891	.2007513	9.135531	.2724205	.3991320
Stddev	.004260	.0016765	.0019236	.015786	.0009436	.0010877
%RSD	.1421274	.5962133	.9581852	.1728032	.3463770	.2725243
#1	3.001369	.2822713	.2026558	9.149241	.2717995	.3985131
#2	2.996727	.2820381	.2007888	9.118272	.2735064	.3984949
#3	2.992862	.2792580	.1988092	9.139081	.2719557	.4003879

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167161BS Acquired: 3/17/2025 17:13:34 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6647435	.1838949	.7712507	5.642666	F -.010521	.1860806
Stddev	.0033831	.0004550	.0065509	.028073	.002787	.0005308
%RSD	.5089352	.2474076	.8493820	.4975177	26.49369	.2852535
#1	.6642304	.1839598	.7752168	5.615072	-.012092	.1866488
#2	.6616462	.1843139	.7748460	5.641732	-.007302	.1855974
#3	.6683538	.1834109	.7636895	5.671195	-.012168	.1859958

Elem	Sr4077
Units	ppm
Avg	.1778751
Stddev	.0003280
%RSD	.1844111
#1	.1780675
#2	.1774964
#3	.1780614

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3015.423	65137.94	13882.84	1943.396	4563.788
Stddev	5.496	62.42	26.93	5.172	12.284
%RSD	.1822489	.0958320	.1939664	.2661094	.2691526
#1	3018.702	65106.14	13881.30	1938.566	4566.323
#2	3018.489	65209.86	13910.51	1942.770	4574.606
#3	3009.079	65097.82	13856.72	1948.852	4550.435

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1566-01 Acquired: 3/17/2025 17:17:36 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0420432	-.003063	.4066537	.0069818	-.009450	115.9172	.6030624
Stddev	.0015449	.001504	.0013713	.0042840	.000736	.3536	.0014228
%RSD	3.674528	49.12161	.3372036	61.35980	7.787620	.3050157	.2359351
#1	.0402747	-.001340	.4068229	.0025306	-.009674	116.3254	.6047007
#2	.0431298	-.003732	.4052056	.0110764	-.010048	115.7111	.6021364
#3	.0427252	-.004116	.4079325	.0073385	-.008628	115.7150	.6023501

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070985	-.007462	49.17354	.1689766	.1092862	.2954106	229.6143
Stddev	.0001028	.000074	.13558	.0010945	.0008235	.0007837	.9834
%RSD	1.448315	.9974452	.2757144	.6476958	.7535494	.2652775	.4282630
#1	.0070674	-.007545	49.30917	.1690305	.1099487	.2958799	229.9654
#2	.0070148	-.007440	49.03801	.1678562	.1095457	.2958461	230.3739
#3	.0072132	-.007402	49.17343	.1700431	.1083642	.2945060	228.5035

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.932296	44.02702	.1847009	-.002875	10.45050	.3555953	.5242888
Stddev	.014455	.17074	.0004138	.000129	.07337	.0005965	.0021975
%RSD	.3675928	.3878107	.2240335	4.486712	.7020667	.1677496	.4191438
#1	3.948983	44.21521	.1849617	-.002727	10.45424	.3562810	.5256817
#2	3.924276	43.88202	.1849171	-.002960	10.52192	.3551964	.5254291
#3	3.923629	43.98384	.1842238	-.002939	10.37533	.3553085	.5217555

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.496714	-.335522	.0054379	.0083936	3.648634	6.048910	6.752519
Stddev	.038848	.003355	.0002843	.0002965	.007224	.028610	.023177
%RSD	.4090668	1.000077	5.227163	3.531808	.1980042	.4729840	.3432355
#1	9.509244	-.338890	.0051099	.0082449	3.656941	6.071701	6.769099
#2	9.527752	-.332179	.0055921	.0087350	3.643821	6.058227	6.762423
#3	9.453148	-.335497	.0056117	.0082010	3.645139	6.016803	6.726036

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1566-01 Acquired: 3/17/2025 17:17:36 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.466897	.2013795	-.000071
Stddev	.010771	.0005471	.000328
%RSD	.4366175	.2716902	464.2724
#1	2.474415	.2018932	.000079
#2	2.471718	.2008041	-.000447
#3	2.454558	.2014412	.000156

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3401.321	73401.05	16765.17	2194.150	4152.632
Stddev	4.488	185.16	123.80	8.036	11.153
%RSD	.1319577	.2522537	.7384342	.3662268	.2685852
#1	3403.543	73259.49	16699.97	2188.221	4148.902
#2	3396.155	73610.58	16907.95	2190.934	4143.821
#3	3404.265	73333.07	16687.61	2203.296	4165.172

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-01 Acquired: 3/17/2025 17:21:40 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0351713	.0003360	.6743314	.0062977	-.006817	82.45089	.5685116
Stddev	.0025576	.0001830	.0007642	.0051277	.000488	.05182	.0021396
%RSD	7.271788	54.47270	.1133320	81.42041	7.155305	.0628455	.3763565
#1	.0377739	.0002510	.6736991	.0006839	-.006851	82.50616	.5699511
#2	.0350787	.0002109	.6741144	.0074748	-.007286	82.44310	.5695309
#3	.0326613	.0005460	.6751807	.0107345	-.006313	82.40340	.5660529

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058307	-.006383	34.26555	.1958819	.0854451	.3201008	181.0884
Stddev	.0000860	.000098	.05046	.0003642	.0002941	.0008016	.2914
%RSD	1.474410	1.532371	.1472651	.1859258	.3441435	.2504338	.1609133
#1	.0058538	-.006482	34.29788	.1955071	.0853660	.3199106	181.4206
#2	.0059027	-.006380	34.29137	.1962345	.0857706	.3194114	180.9683
#3	.0057355	-.006287	34.20741	.1959040	.0851987	.3209805	180.8763

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.535883	35.59984	.1710490	-.001771	8.661888	.2669389	.6713148
Stddev	.004614	.09769	.0003089	.000512	.027311	.0026132	.0039446
%RSD	.1819628	.2744128	.1805882	28.90181	.3152977	.9789387	.5875956
#1	2.537528	35.49098	.1713947	-.001222	8.691523	.2672144	.6667969
#2	2.539449	35.62865	.1709519	-.001857	8.637731	.2641989	.6740751
#3	2.530671	35.67988	.1708003	-.002235	8.656410	.2694034	.6730723

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.873547	-.358417	.0037379	.0249515	2.793385	5.336167	4.084682
Stddev	.009250	.004669	.0001429	.0002914	.011743	.030135	.005515
%RSD	.1345803	1.302599	3.822316	1.167812	.4204021	.5647292	.1350051
#1	6.876987	-.353582	.0038209	.0252873	2.798962	5.339700	4.089032
#2	6.880585	-.362900	.0038198	.0248030	2.801301	5.304421	4.086533
#3	6.863070	-.358770	.0035729	.0247643	2.779893	5.364379	4.078480

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-01 Acquired: 3/17/2025 17:21:40 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.993000	.1816445	-.019769
Stddev	.002326	.0013629	.000270
%RSD	.1167229	.7502946	1.364282
#1	1.990359	.1807408	-.019573
#2	1.993894	.1832121	-.019656
#3	1.994746	.1809806	-.020076

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3199.939	71095.22	15972.14	2095.385	4209.005
Stddev	9.201	214.76	79.63	5.816	4.534
%RSD	.2875468	.3020700	.4985324	.2775777	.1077111
#1	3201.890	71326.68	16050.05	2101.772	4209.326
#2	3208.009	70902.41	15890.90	2090.393	4213.370
#3	3189.919	71056.56	15975.49	2093.990	4204.319

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-01DUP Acquired: 3/17/2025 17:25:44 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0351542	.0005346	.6671747	.0060592	-.008317	83.70838	.5604308
Stddev	.0017957	.0025506	.0050143	.0027067	.003685	.25233	.0028503
%RSD	5.108187	477.0926	.7515756	44.67074	44.31136	.3014400	.5085895
#1	.0335967	.0011177	.6636723	.0044178	-.004111	83.41983	.5571947
#2	.0371185	-.002257	.6649330	.0045766	-.009857	83.88763	.5615296
#3	.0347475	.002743	.6729188	.0091833	-.010982	83.81769	.5625682

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058717	-.006030	34.49115	.1980154	.0854833	.3155261	180.5521
Stddev	.0000223	.000725	.06137	.0044852	.0004688	.0028906	3.7957
%RSD	.3793725	12.01905	.1779156	2.265092	.5483888	.9161283	2.102251
#1	.0058665	-.005482	34.42136	.1945355	.0852095	.3166345	177.7292
#2	.0058525	-.006852	34.51544	.2030772	.0860246	.3122453	184.8671
#3	.0058961	-.005757	34.53666	.1964333	.0852159	.3176985	179.0601

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.516826	36.08203	.1704448	-.001813	8.647313	.2688735	.6714769
Stddev	.010355	.06463	.0003545	.000292	.199858	.0024103	.0106522
%RSD	.4114416	.1791067	.2079993	16.08835	2.311216	.8964572	1.586382
#1	2.506709	36.01473	.1708523	-.001553	8.501223	.2661504	.6625838
#2	2.516364	36.14361	.1702071	-.002128	8.875073	.2697369	.6832824
#3	2.527404	36.08775	.1702750	-.001757	8.565644	.2707332	.6685646

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.835604	-.372770	.0038902	.0244292	2.926485	8.055892	3.989095
Stddev	.147489	.003319	.0001220	.0010179	.007822	.208680	.016717
%RSD	2.157654	.8904041	3.136779	4.166709	.2672664	2.590408	.4190685
#1	6.721771	-.371493	.0039617	.0237129	2.917488	7.906548	3.978444
#2	7.002222	-.370279	.0039596	.0239803	2.930308	8.294331	3.980478
#3	6.782819	-.376538	.0037493	.0255944	2.931660	7.966795	4.008362

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-01DUP Acquired: 3/17/2025 17:25:44 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.958987	.1818726	-.020223
Stddev	.017906	.0024941	.003141
%RSD	.9140355	1.371359	15.53409
#1	1.957499	.1805984	-.018214
#2	1.941872	.1847464	-.023843
#3	1.977590	.1802729	-.018611

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3236.991	71352.90	15962.39	2086.611	4280.235
Stddev	9.520	1275.72	59.34	35.847	9.829
%RSD	.2941035	1.787897	.3717330	1.717977	.2296462
#1	3234.152	72322.05	15954.90	2119.252	4283.248
#2	3247.608	69907.59	16025.12	2048.246	4288.206
#3	3229.214	71829.07	15907.15	2092.336	4269.252

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-01LX5 Acquired: 3/17/2025 17:29:49 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078650	-.000030	.1383895	.0027506	-.003597	18.21194	.1212355
Stddev	.0008527	.002683	.0019052	.0008032	.000416	.01135	.0009076
%RSD	10.84237	8992.191	1.376713	29.20028	11.56836	.0622986	.7485804
#1	.0083877	.000848	.1384930	.0027185	-.003150	18.19922	.1219782
#2	.0083264	-.003042	.1364346	.0035693	-.003973	18.21559	.1215045
#3	.0068810	.002105	.1402408	.0019639	-.003668	18.22102	.1202239

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013977	-.002109	7.719800	.0436394	.0174883	.0720156	39.44792
Stddev	.0000523	.000098	.013752	.0003948	.0002378	.0008802	.16120
%RSD	3.740173	4.657731	.1781386	.9048013	1.359629	1.222212	.4086351
#1	.0014147	-.002017	7.712151	.0438015	.0177209	.0718334	39.26262
#2	.0013391	-.002213	7.735676	.0431893	.0172456	.0712408	39.52532
#3	.0014394	-.002096	7.711574	.0439274	.0174984	.0729727	39.55582

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5694746	7.931485	.0347386	-.000357	1.877158	.0617371	.1465021
Stddev	.0012350	.026002	.0004728	.000143	.010462	.0001008	.0004507
%RSD	.2168592	.3278289	1.361109	39.99289	.5573069	.1632994	.3076563
#1	.5685280	7.955046	.0350853	-.000451	1.868733	.0617151	.1468006
#2	.5690242	7.903588	.0342000	-.000193	1.888868	.0618471	.1467220
#3	.5708715	7.935820	.0349304	-.000428	1.873874	.0616491	.1459836

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.455023	-.088006	.0003015	.0036430	.6547860	1.776720	.8028373
Stddev	.022503	.000772	.0000966	.0002670	.0030001	.022260	.0039861
%RSD	1.546561	.8768450	32.02551	7.329623	.4581805	1.252898	.4965060
#1	1.429102	-.088782	.0002092	.0037265	.6580593	1.802138	.8024242
#2	1.466423	-.087238	.0004018	.0033442	.6541315	1.767325	.7990737
#3	1.469546	-.087998	.0002934	.0038583	.6521671	1.760697	.8070139

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-01LX5 Acquired: 3/17/2025 17:29:49 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3813726	.0393851	-.003761
Stddev	.0027747	.0006109	.000107
%RSD	.7275612	1.551172	2.834082
#1	.3789578	.0389074	-.003658
#2	.3844036	.0400735	-.003755
#3	.3807563	.0391744	-.003871

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3083.247	67703.12	14842.62	2002.244	4522.290
Stddev	7.029	29.47	21.10	5.594	11.244
%RSD	.2279820	.0435231	.1421604	.2793890	.2486437
#1	3079.638	67684.38	14826.63	2005.930	4514.666
#2	3091.348	67737.08	14866.53	1995.807	4535.204
#3	3078.756	67687.90	14834.69	2004.994	4517.000

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-01MS Acquired: 3/17/2025 17:34:02 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6974320	1.858944	1.490122	1.575285	.3286679	100.6917
Stddev	.0040406	.003740	.005031	.003983	.0017679	.4615
%RSD	.5793609	.2011768	.3376437	.2528413	.5378922	.4583449
#1	.6927910	1.856125	1.488402	1.571174	.3277247	100.7106
#2	.7001679	1.857519	1.495788	1.579126	.3307074	101.1434
#3	.6993371	1.863186	1.486176	1.575554	.3275717	100.2210

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8154636	.1696809	.1792846	30.10929	.5714922	.2755519
Stddev	.0059345	.0011961	.0004516	.15182	.0008464	.0006223
%RSD	.7277501	.7049073	.2518930	.5042463	.1481079	.2258449
#1	.8158496	.1694916	.1790432	30.12331	.5721169	.2753457
#2	.8211957	.1709603	.1798056	30.25362	.5718308	.2762512
#3	.8093455	.1685907	.1790049	29.95094	.5705289	.2750589

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5709076	177.9437	2.675732	36.62219	.6341198	.0639957
Stddev	.0006189	.8909	.018902	.16016	.0004362	.0005504
%RSD	.1084002	.5006460	.7064142	.4373412	.0687860	.8601095
#1	.5702928	178.7673	2.683504	36.75322	.6342390	.0645681
#2	.5715305	178.0657	2.689508	36.66970	.6344839	.0634702
#3	.5708996	176.9981	2.654183	36.44364	.6336364	.0639490

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.08526	.5231208	.8559782	16.25400	-.186307	.3487190
Stddev	.03606	.0023068	.0047274	.05241	.001133	.0011993
%RSD	.3253005	.4409635	.5522809	.3224734	.6081459	.3439037
#1	11.11142	.5243601	.8505782	16.29883	-.185082	.3481816
#2	11.10023	.5245430	.8593698	16.26679	-.187317	.3500930
#3	11.04413	.5204593	.8579866	16.19637	-.186520	.3478825

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-01MS Acquired: 3/17/2025 17:34:02 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6528266	2.803394	6.514628	F 10.28959	1.911377	.3702158
Stddev	.0004708	.018996	.014322	.01777	.014666	.0013174
%RSD	.0721174	.6776029	.2198447	.1726551	.7672911	.3558427
#1	.6526309	2.807077	6.502317	10.27597	1.917098	.3710407
#2	.6533636	2.820278	6.511220	10.30968	1.922321	.3709103
#3	.6524851	2.782826	6.530346	10.28312	1.894713	.3686965

Elem	Sr4077
Units	ppm
Avg	.1433320
Stddev	.0014941
%RSD	1.042399
#1	.1432615
#2	.1448601
#3	.1418744

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3275.778	73450.02	15832.48	2144.552	4255.959
Stddev	4.628	134.97	67.03	7.847	2.768
%RSD	.1412844	.1837540	.4233726	.3658859	.0650283
#1	3281.065	73348.66	15829.20	2153.302	4252.851
#2	3273.807	73398.18	15767.15	2138.140	4256.868
#3	3272.461	73603.22	15901.09	2142.213	4258.158

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-01MSD Acquired: 3/17/2025 17:38:02 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6971753	1.866962	1.488651	1.560146	.3261107	100.5648
Stddev	.0047694	.007668	.003303	.003494	.0026851	.3904
%RSD	.6840958	.4107355	.2218674	.2239541	.8233752	.3881688
#1	.7026551	1.871692	1.492057	1.563959	.3237167	100.7700
#2	.6939609	1.871079	1.485462	1.557099	.3290140	100.8098
#3	.6949097	1.858114	1.488433	1.559379	.3256015	100.1146

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8004413	.1718337	.1773359	29.99458	.5816018	.2742787
Stddev	.0039028	.0010482	.0006154	.20071	.0003680	.0010109
%RSD	.4875862	.6100280	.3470339	.6691629	.0632800	.3685701
#1	.8027499	.1716948	.1780464	30.10512	.5819807	.2752680
#2	.8026389	.1729444	.1769900	30.11571	.5815790	.2743207
#3	.7959352	.1708618	.1769712	29.76289	.5812456	.2732475

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5660537	182.8092	2.638891	36.71370	.6302078	.0659175
Stddev	.0017536	.3477	.016028	.26312	.0031902	.0001540
%RSD	.3097856	.1902225	.6073782	.7166880	.5062171	.2335436
#1	.5668169	183.0927	2.647342	36.86856	.6336774	.0658611
#2	.5672963	182.4212	2.648925	36.86265	.6295450	.0660917
#3	.5640479	182.9137	2.620406	36.40989	.6274011	.0657998

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.41450	.5178558	.8721805	16.61615	-.171688	.3467533
Stddev	.02883	.0031134	.0034605	.06243	.002610	.0010557
%RSD	.2525872	.6012109	.3967592	.3757117	1.520024	.3044443
#1	11.39670	.5192573	.8681848	16.59094	-.171521	.3478006
#2	11.39904	.5200221	.8741568	16.57027	-.174377	.3467697
#3	11.44777	.5142880	.8741999	16.68725	-.169165	.3456895

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-01MSD Acquired: 3/17/2025 17:38:02 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6527385	2.793983	6.992180	F 10.30506	1.896439	.3690128
Stddev	.0024606	.015388	.008135	.03044	.006856	.0017459
%RSD	.3769594	.5507433	.1163503	.2953458	.3615428	.4731336
#1	.6544547	2.804305	6.989545	10.33465	1.902635	.3701006
#2	.6538414	2.801347	6.985688	10.30669	1.897609	.3699388
#3	.6499195	2.776297	7.001306	10.27384	1.889072	.3669989

Elem	Sr4077
Units	ppm
Avg	.1345756
Stddev	.0016227
%RSD	1.205803
#1	.1354170
#2	.1356047
#3	.1327049

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3274.244	70213.20	15700.65	2079.861	4261.365
Stddev	8.727	41.31	110.37	3.113	11.543
%RSD	.2665443	.0588306	.7029651	.1496526	.2708656
#1	3266.499	70257.57	15662.55	2083.174	4249.298
#2	3272.532	70175.85	15614.37	2079.412	4262.499
#3	3283.700	70206.19	15825.02	2076.998	4272.299

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-01A Acquired: 3/17/2025 17:43:13 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7355313	1.875733	1.570759	1.684914	.7203166	84.88710	.7138255
Stddev	.0013423	.010935	.003209	.009930	.0049974	.23159	.0039604
%RSD	.1824919	.5829912	.2043057	.5893333	.6937817	.2728224	.5548105
#1	.7370100	1.875381	1.567111	1.675665	.7220812	84.96732	.7147460
#2	.7351943	1.864978	1.573148	1.683670	.7146762	85.06791	.7172445
#3	.7343897	1.886840	1.572018	1.695407	.7241923	84.62606	.7094859

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1720064	.1781309	34.96958	.5569954	.2721364	.5676935	183.1077
Stddev	.0006378	.0005955	.13908	.0020664	.0008521	.0022368	.8695
%RSD	.3707812	.3343199	.3977270	.3709915	.3131309	.3940203	.4748679
#1	.1727403	.1777102	35.00138	.5590010	.2717335	.5663225	182.7927
#2	.1716911	.1778703	35.09000	.5571121	.2715604	.5664832	184.0908
#3	.1715876	.1788123	34.81735	.5548731	.2731152	.5702747	182.4395

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.645116	37.57987	.6306072	.0673871	11.37039	.5149136	.8468893
Stddev	.010263	.10652	.0023487	.0003893	.02138	.0026636	.0045656
%RSD	.3880040	.2834431	.3724526	.5777566	.1879988	.5172975	.5390972
#1	2.644647	37.55701	.6282251	.0672022	11.35737	.5163334	.8479760
#2	2.655606	37.69596	.6306757	.0671246	11.39506	.5165667	.8508135
#3	2.635095	37.48664	.6329210	.0678344	11.35874	.5118409	.8418785

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.87420	-.135113	.3699892	.6935312	3.099885	9.827392	9.798592
Stddev	.07633	.001627	.0020934	.0019642	.009244	.029423	.042144
%RSD	.4808141	1.204410	.5657896	.2832185	.2981903	.2994009	.4301044
#1	15.88310	-.135891	.3689851	.6920244	3.104213	9.855168	9.760502
#2	15.94569	-.133243	.3685871	.6928165	3.106172	9.830448	9.791408
#3	15.79382	-.136205	.3723955	.6957527	3.089272	9.796560	9.843867

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: Q1568-01A Acquired: 3/17/2025 17:43:13 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.938694	.3484206	.1393643
Stddev	.001362	.0018552	.0010167
%RSD	.0702653	.5324575	.7294915
#1	1.938137	.3488216	.1402869
#2	1.937699	.3500425	.1395317
#3	1.940247	.3463977	.1382744

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3192.926	69132.51	15617.61	2043.309	4214.097
Stddev	12.888	165.24	63.56	9.478	13.879
%RSD	.4036547	.2390236	.4069741	.4638746	.3293525
#1	3203.815	69031.80	15550.71	2045.981	4228.435
#2	3196.268	69042.51	15624.93	2032.782	4213.128
#3	3178.696	69323.21	15677.19	2051.165	4200.727

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCV04 Acquired: 3/17/2025 17:51:24 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.016624	4.970539	4.865928	4.902508	5.068887	9.643414	9.269805
Stddev	.008586	.022204	.017861	.006361	.017267	.024028	.184124
%RSD	.1711586	.4467077	.3670679	.1297406	.3406448	.2491631	1.986276
#1	5.007332	4.970771	4.853959	4.897852	5.057179	9.647315	9.466245
#2	5.018276	4.948221	4.857366	4.899917	5.060765	9.665252	9.101157
#3	5.024265	4.992627	4.886458	4.909755	5.088717	9.617674	9.242013

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2383630	2.393577	23.58041	1.012390	2.373173	1.228430	4.876901
Stddev	.0017919	.009786	.04944	.002124	.009728	.003327	.053880
%RSD	.7517380	.4088441	.2096706	.2097708	.4098961	.2707964	1.104804
#1	.2375056	2.387957	23.53300	1.011393	2.368832	1.225543	4.887200
#2	.2371610	2.387897	23.63166	1.014829	2.366371	1.227680	4.924889
#3	.2404225	2.404877	23.57657	1.010949	2.384315	1.232068	4.818615

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.268709	23.60608	2.356192	1.244403	25.03249	2.396676	2.510690
Stddev	.008925	.01632	.010598	.000690	.25502	.001516	.011719
%RSD	.3933775	.0691483	.4497831	.0554601	1.018774	.0632577	.4667594
#1	2.264220	23.58879	2.350824	1.244802	25.14665	2.398127	2.519258
#2	2.278987	23.60821	2.349353	1.243606	25.21050	2.396797	2.515475
#3	2.262921	23.62123	2.368400	1.244801	24.74033	2.395103	2.497335

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.25270	4.750723	5.023224	4.830543	4.724784	5.135838	4.936373
Stddev	.24657	.034529	.015994	.022632	.018668	.042424	.010934
%RSD	1.016670	.7268243	.3184031	.4685174	.3951180	.8260467	.2214994
#1	24.33637	4.726746	5.011919	4.821110	4.716981	5.117389	4.928960
#2	24.44654	4.735125	5.016229	4.814154	4.746089	5.184364	4.931227
#3	23.97518	4.790300	5.041524	4.856366	4.711284	5.105762	4.948930

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCV04 Acquired: 3/17/2025 17:51:24 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.693390	4.564066	4.702935
Stddev	.012340	.026424	.030555
%RSD	.2629171	.5789671	.6496988
#1	4.692507	4.571694	4.671896
#2	4.681516	4.585837	4.703927
#3	4.706148	4.534667	4.732982

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2942.213	63979.41	13879.17	1874.230	4307.864
Stddev	4.984	127.66	70.89	6.989	9.247
%RSD	.1694044	.1995297	.5107914	.3728982	.2146638
#1	2947.281	63900.80	13918.45	1868.793	4311.780
#2	2942.041	63910.74	13921.72	1871.783	4314.508
#3	2937.317	64126.71	13797.33	1882.113	4297.302

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCB04 Acquired: 3/17/2025 17:55:35 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001123	-.001303	-.000160	-.000246	.0001322	-.006670	-.003768
Stddev	.002485	.001208	.000668	.002833	.0019729	.003644	.000400
%RSD	221.2154	92.77927	418.3204	1150.179	1492.112	54.63437	10.60337
#1	-.000167	-.000109	.000611	.002980	-.001346	-.008739	-.003575
#2	.000742	-.001273	-.000577	-.002329	-.000630	-.002462	-.004227
#3	-.003944	-.002525	-.000513	-.001389	.002372	-.008808	-.003501

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000542	.0000172	.0005364	.0004550	.0000788	.0000837	-.002887
Stddev	.0000162	.0000879	.0066342	.0001410	.0001151	.0002951	.004763
%RSD	29.88379	512.0276	1236.854	30.98544	146.0478	352.4909	164.9795
#1	.0000640	-.000079	-.006878	.0005456	.0000505	-.000235	-.006595
#2	.0000632	.000094	.005912	.0002926	.0002054	.000137	-.004551
#3	.0000355	.000036	.002575	.0005269	-.000019	.000348	.002485

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022479	-.004746	.0000038	.0003409	.0874713	.0005435	-.001026
Stddev	.0003511	.006597	.0000746	.0000737	.0054913	.0007998	.000229
%RSD	15.62038	139.0005	1945.004	21.62434	6.277824	147.1557	22.29349
#1	.0026097	-.010345	.0000070	.0002558	.0934158	.0007039	-.001289
#2	.0019085	-.006421	-.000072	.0003844	.0864101	-.000324	-.000872
#3	.0022254	.002527	.000077	.0003825	.0825881	.001251	-.000918

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1048928	-.003039	-.000044	.0004682	.0001890	.0021598	-.004480
Stddev	.0217063	.000642	.000148	.0002669	.0002045	.0062842	.002072
%RSD	20.69380	21.13402	339.6192	57.00936	108.1804	290.9594	46.25552
#1	.0866420	-.002381	.000075	.0004411	.0002725	-.000807	-.005080
#2	.1288958	-.003664	.000003	.0007476	.0003387	.009378	-.006185
#3	.0991404	-.003073	-.000210	.0002158	-.000044	-.002091	-.002173

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCB04 Acquired: 3/17/2025 17:55:35 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.009792	.0007442	-.000122
Stddev	.002178	.0008803	.000072
%RSD	22.24657	118.2779	59.45099
#1	-.012303	.0017444	-.000194
#2	-.008665	.0000872	-.000049
#3	-.008408	.0004011	-.000122

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3075.577	65706.96	14460.97	1961.945	4744.733
Stddev	2.719	167.97	49.16	9.436	7.110
%RSD	.0884106	.2556289	.3399785	.4809307	.1498485
#1	3078.390	65520.16	14456.06	1953.110	4751.759
#2	3072.963	65845.54	14414.45	1960.840	4744.898
#3	3075.378	65755.19	14512.41	1971.884	4737.542

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: LR1 Acquired: 3/17/2025 17:59:43 Type: Unk
Method: NON EPA-6010-200.7(v2815) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0375926	.0732203	.0218873	.0112045	-.022674	2102.927	.0151047
Stddev	.0107922	.0073760	.0061524	.0082379	.008962	9.526	.0016176
%RSD	28.70843	10.07374	28.10949	73.52331	39.52547	.4529929	10.70947
#1	.0274799	.0648594	.0201536	.0040121	-.024033	2106.722	.0135352
#2	.0363424	.0788070	.0287206	.0094095	-.030878	2092.088	.0150125
#3	.0489555	.0759945	.0167878	.0201919	-.013110	2109.970	.0167665

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081305	-.004897	1846.380	.0327640	.0309924	.0915535	1016.315
Stddev	.0001171	.001958	5.619	.0003315	.0005257	.0043238	8.656
%RSD	1.440324	39.97375	.3043039	1.011675	1.696125	4.722680	.8516929
#1	.0081948	-.004020	1844.469	.0328933	.0314028	.0949146	1008.489
#2	.0079953	-.007140	1841.966	.0330113	.0311745	.0866757	1025.612
#3	.0082013	-.003531	1852.705	.0323873	.0303999	.0930702	1014.843

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.021821	1741.088	.0068974	-.039482	1842.256	.0183751	-.001008
Stddev	.001014	3.507	.0011640	.001918	4.363	.0011378	.002750
%RSD	4.647395	.2014501	16.87551	4.858225	.2368509	6.192197	272.8316
#1	-.020899	1744.151	.0071131	-.040731	1838.270	.0175022	-.003373
#2	-.022907	1741.851	.0079384	-.037274	1841.580	.0196619	-.001659
#3	-.021656	1737.262	.0056406	-.040442	1846.918	.0179611	.002009

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1372.168	^ *****	.0058841	.0005718	-.037100	.1482213	.1373802
Stddev	4.367	-----	.0009801	.0018641	.000518	.0062172	.0065191
%RSD	.3182494	-----	16.65695	326.0134	1.396422	4.194553	4.745294
#1	1372.024	^ -----	.0047841	-.001504	-.037537	.1410444	.1339038
#2	1376.605	^ -----	.0062036	.001115	-.037235	.1516589	.1333362
#3	1367.875	^ -----	.0066646	.002104	-.036528	.1519606	.1449007

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: LR1 Acquired: 3/17/2025 17:59:43 Type: Unk
Method: NON EPA-6010-200.7(v2815) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.206145	.1222730	-.882121
Stddev	.009488	.0043510	.007502
%RSD	4.602372	3.558437	.8504012
#1	-.197558	.1192497	-.875233
#2	-.204546	.1272597	-.890114
#3	-.216330	.1203096	-.881016

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2051.595	46050.73	11834.30	1330.919	2563.340
Stddev	7.870	86.11	38.71	4.168	8.427
%RSD	.3836119	.1869804	.3271006	.3131943	.3287356
#1	2052.697	46137.70	11869.45	1335.246	2565.320
#2	2058.857	46048.97	11840.64	1330.579	2570.600
#3	2043.233	45965.52	11792.81	1326.930	2554.099

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: LR2 Acquired: 3/17/2025 18:04:40 Type: Unk
Method: NON EPA-6010-200.7(v2815) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114969	-.001389	236.8710	-.004439	-.002913	.1675831	^F *****
Stddev	.0025279	.004415	.3064	.002831	.000855	.0028008	-----
%RSD	21.98793	317.7688	.1293456	63.76335	29.33311	1.671283	-----
#1	.0087170	-.006470	236.5304	-.007207	-.002710	.1704665	^ -----
#2	.0136579	.001513	236.9586	-.001550	-.003851	.1674098	^ -----
#3	.0121158	.000789	237.1241	-.004560	-.002179	.1648729	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002941	-.003301	.0541033	.0101084	.0064925	257.4467	.0022089
Stddev	.000044	.000037	.0036186	.0001413	.0006572	.4104	.0015406
%RSD	1.509172	1.120285	6.688365	1.398092	10.12193	.1593982	69.74552
#1	-.002893	-.003262	.0579025	.0100439	.0072215	257.8956	.0029186
#2	-.002950	-.003303	.0537101	.0100108	.0063105	257.0908	.0032667
#3	-.002981	-.003336	.0506974	.0102705	.0059456	257.3537	.0004413

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	45.66698	-.102476	46.34649	.0018719	.4001289	-.010132	33.77456
Stddev	.19896	.015392	.08205	.0004414	.0299939	.001204	.21299
%RSD	.4356834	15.01990	.1770386	23.58249	7.496058	11.87986	.6306245
#1	45.83505	-.089395	46.25485	.0021731	.4296148	-.010674	33.76975
#2	45.44730	-.119437	46.41315	.0020774	.4011204	-.010970	33.98992
#3	45.71860	-.098596	46.37147	.0013652	.3696516	-.008753	33.56402

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4598314	-.008470	-.007762	-.005147	-.036975	-.015944	.3757841
Stddev	.0260668	.000430	.000329	.000705	.000261	.002634	.0100944
%RSD	5.668779	5.073768	4.240397	13.69735	.7058033	16.52307	2.686229
#1	.4503808	-.008021	-.007474	-.005136	-.036828	-.018275	.3730815
#2	.4893053	-.008513	-.007691	-.005857	-.037276	-.013086	.3869548
#3	.4398081	-.008877	-.008120	-.004447	-.036820	-.016471	.3673161

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: LR2 Acquired: 3/17/2025 18:04:40 Type: Unk
Method: NON EPA-6010-200.7(v2815) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0178270	.0027677	.0014636
Stddev	.0082771	.0014526	.0000434
%RSD	46.42989	52.48191	2.961737
#1	.0120074	.0043281	.0014189
#2	.0273025	.0014547	.0015055
#3	.0141711	.0025204	.0014662

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2845.676	67569.10	14909.90	1895.012	4481.334
Stddev	8.687	343.79	42.64	4.188	3.375
%RSD	.3052664	.5087968	.2859541	.2209864	.0753171
#1	2837.414	67350.14	14860.85	1892.581	4477.565
#2	2854.734	67391.82	14930.72	1899.848	4484.079
#3	2844.880	67965.35	14938.12	1892.607	4482.358

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167132BL Acquired: 3/17/2025 18:10:06 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006220	-.000164	.0030854	-.002912	-.001412	-.001424
Stddev	.0002797	.001240	.0006601	.002788	.001071	.005824
%RSD	44.95939	757.2950	21.39461	95.73931	75.86013	409.1049
#1	.0005535	.000202	.0023651	-.000665	-.002647	-.007919
#2	.0009296	-.001545	.0036615	-.002039	-.000848	.003332
#3	.0003830	.000852	.0032296	-.006032	-.000740	.000317

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005262	.0000414	.0000128	.0022796	.0004225	.0000662
Stddev	.000073	.0000339	.0000160	.0044012	.0003323	.0001172
%RSD	1.385385	81.84630	124.8851	193.0701	78.66679	177.0875
#1	-.005345	.0000287	.0000308	-.001856	.0004216	-.000066
#2	-.005206	.0000157	.0000076	.006905	.0000906	.000108
#3	-.005237	.0000799	.0000001	.001790	.0007552	.000157

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023548	.0014264	.0026336	.0078793	.0003831	.0003817
Stddev	.0001708	.0025708	.0000865	.0075350	.0002738	.0003160
%RSD	7.253124	180.2259	3.284168	95.63047	71.46933	82.80660
#1	.0022644	.0022913	.0025340	.0033644	.0006205	.0006828
#2	.0022482	.0034533	.0026770	.0165778	.0004451	.0004097
#3	.0025518	-.001465	.0026897	.0036956	.0000836	.0000525

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3084986	.0011201	-.000578	.2940781	-.009980	-.000334
Stddev	.0098838	.0006599	.000274	.0116863	.000381	.000066
%RSD	3.203856	58.91301	47.39001	3.973866	3.813267	19.66294
#1	.3196851	.0004781	-.000564	.2866502	-.009626	-.000279
#2	.3048641	.0010857	-.000311	.2880355	-.010383	-.000316
#3	.3009465	.0017965	-.000858	.3075485	-.009930	-.000407

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167132BL Acquired: 3/17/2025 18:10:06 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003002	.0003339	-.001816	-.002419	F -.010539	.0035704
Stddev	.0006758	.0002395	.005457	.000613	.001383	.0005380
%RSD	225.0994	71.71844	300.5028	25.35157	13.12113	15.06691
#1	.0007009	.0002090	.004202	-.003124	-.011696	.0029507
#2	-.000480	.0006101	-.006442	-.002122	-.009007	.0038429
#3	.000680	.0001828	-.003208	-.002011	-.010912	.0039176

Elem	Sr4077
Units	ppm
Avg	-.000138
Stddev	.000062
%RSD	45.25235
#1	-.000074
#2	-.000198
#3	-.000141

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3115.988	68432.93	14971.30	1995.879	4872.962
Stddev	5.215	175.54	15.90	3.774	6.589
%RSD	.1673506	.2565136	.1062153	.1891083	.1352152
#1	3110.286	68251.37	14978.96	1997.305	4865.358
#2	3117.163	68601.75	14981.92	1998.732	4876.545
#3	3120.514	68445.66	14953.02	1991.599	4876.983

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167132BS Acquired: 3/17/2025 18:14:25 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7785733	1.938999	.9269308	1.927858	.8093434	1.860330
Stddev	.0065444	.003217	.0026589	.003427	.0020501	.008190
%RSD	.8405603	.1659315	.2868517	.1777731	.2533070	.4402285
#1	.7742047	1.941882	.9288870	1.923957	.8086304	1.861289
#2	.7754176	1.935529	.9239034	1.930386	.8077449	1.867998
#3	.7860975	1.939587	.9280021	1.929230	.8116548	1.851703

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1715252	.1840587	.1838463	.9405241	.3988995	.1850276
Stddev	.0013025	.0007975	.0004613	.0063554	.0006129	.0003389
%RSD	.7593538	.4332692	.2509070	.6757267	.1536546	.1831701
#1	.1714267	.1836661	.1839434	.9409017	.3993694	.1849649
#2	.1728741	.1849764	.1833441	.9466823	.3991230	.1847245
#3	.1702747	.1835337	.1842512	.9339884	.3982062	.1853935

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3015034	2.911610	.1805707	1.796283	.4617616	.0749994
Stddev	.0005906	.016580	.0010362	.010978	.0014330	.0002074
%RSD	.1958955	.5694492	.5738442	.6111452	.3103450	.2764728
#1	.3011461	2.899933	.1798727	1.808956	.4619649	.0752373
#2	.3011789	2.930588	.1817613	1.790184	.4602378	.0749041
#3	.3021851	2.904309	.1800781	1.789709	.4630821	.0748568

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.120094	.2767666	.1999296	9.420341	.2568094	.4006225
Stddev	.010359	.0027122	.0009491	.039959	.0013469	.0012053
%RSD	.3320053	.9799743	.4747006	.4241828	.5244596	.3008466
#1	3.109376	.2737062	.2009716	9.398006	.2553710	.4007457
#2	3.130052	.2777208	.1997025	9.466474	.2580407	.3993603
#3	3.120855	.2788727	.1991147	9.396542	.2570166	.4017614

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: PB167132BS Acquired: 3/17/2025 18:14:25 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6567310	.1828309	.7814477	5.630826	F -.015943	.1827659
Stddev	.0021333	.0007873	.0014460	.027761	.003893	.0017097
%RSD	.3248310	.4306176	.1850455	.4930140	24.41842	.9354372
#1	.6566325	.1828257	.7800763	5.622360	-.020420	.1807918
#2	.6546487	.1836208	.7829583	5.608284	-.014053	.1837654
#3	.6589118	.1820462	.7813084	5.661834	-.013356	.1837404

Elem	Sr4077
Units	ppm
Avg	.1780834
Stddev	.0011675
%RSD	.6555640
#1	.1772346
#2	.1794148
#3	.1776008

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3055.394	66791.24	14790.97	1971.988	4673.802
Stddev	6.244	49.53	62.19	6.064	14.307
%RSD	.2043527	.0741544	.4204681	.3075044	.3061114
#1	3050.704	66812.00	14826.88	1965.181	4661.613
#2	3062.481	66734.71	14719.16	1976.814	4689.554
#3	3052.997	66827.01	14826.86	1973.968	4670.238

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCV05 Acquired: 3/17/2025 18:18:27 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.050991	4.938255	4.871660	4.963963	5.143794	9.708916	9.498484
Stddev	.011587	.071526	.013453	.019598	.014674	.016435	.084024
%RSD	.2294020	1.448415	.2761554	.3948072	.2852846	.1692794	.8846087
#1	5.040462	4.999125	4.872205	4.946261	5.127409	9.725436	9.553007
#2	5.049105	4.859476	4.857943	4.960603	5.148245	9.708746	9.540724
#3	5.063405	4.956164	4.884833	4.985023	5.155727	9.692567	9.401720

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2361758	2.388350	23.63123	1.015333	2.377593	1.236363	4.962501
Stddev	.0010063	.008882	.09419	.002494	.010489	.003324	.021010
%RSD	.4260695	.3718736	.3985681	.2456391	.4411420	.2688317	.4233714
#1	.2365849	2.385620	23.69184	1.018191	2.373450	1.232994	4.986600
#2	.2369131	2.381154	23.67914	1.013598	2.369809	1.236456	4.948038
#3	.2350294	2.398276	23.52272	1.014209	2.389521	1.239639	4.952863

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.256459	23.35646	2.359884	1.264937	25.85975	2.404837	2.542797
Stddev	.011692	.12558	.009676	.003040	.12180	.007076	.005901
%RSD	.5181490	.5376659	.4100322	.2403502	.4710042	.2942597	.2320538
#1	2.266069	23.45386	2.354032	1.267379	25.96984	2.409240	2.535991
#2	2.259866	23.40080	2.354566	1.265902	25.72891	2.408598	2.546485
#3	2.243442	23.21473	2.371053	1.261532	25.88052	2.396674	2.545913

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.11457	4.735966	5.071918	4.832063	4.763310	5.248829	4.925594
Stddev	.19248	.019413	.012852	.018921	.018083	.016980	.036337
%RSD	.7664043	.4098997	.2533960	.3915751	.3796340	.3235087	.7377261
#1	25.29937	4.724425	5.064209	4.833926	4.779693	5.248396	4.904358
#2	24.91523	4.758378	5.064792	4.812280	4.766330	5.232068	4.904872
#3	25.12911	4.725094	5.086755	4.849985	4.743907	5.266021	4.967552

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCV05 Acquired: 3/17/2025 18:18:27 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.702476	4.587746	4.742884
Stddev	.027281	.007872	.025433
%RSD	.5801376	.1715908	.5362401
#1	4.694825	4.596741	4.763208
#2	4.679837	4.582111	4.751082
#3	4.732765	4.584386	4.714363

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3008.671	64964.63	14476.04	1895.094	4424.798
Stddev	10.564	289.74	67.85	3.900	17.212
%RSD	.3511186	.4459951	.4686757	.2057768	.3889785
#1	3019.421	64634.71	14433.05	1890.605	4435.159
#2	3008.288	65081.47	14440.82	1897.033	4434.306
#3	2998.303	65177.70	14554.25	1897.645	4404.931

Reviewed By:
On:
Inst Id :P4
LB :LB135063

Sample Name: CCB05 Acquired: 3/17/2025 18:22:37 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000202	-.000947	.0004991	-.002243	-.001789	-.004024
Stddev	.000102	.000392	.0004114	.000944	.000136	.001537
%RSD	50.60031	41.35809	82.42516	42.09253	7.590094	38.19510
#1	-.000089	-.000731	.0002990	-.003330	-.001652	-.005799
#2	-.000288	-.001399	.0002260	-.001621	-.001792	-.003106
#3	-.000228	-.000711	.0009723	-.001779	-.001923	-.003168

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005643	.0000041	.0000115	.0019788	.0000777	.0000224
Stddev	.000445	.0000075	.0000399	.0026110	.0004445	.0000487
%RSD	7.888188	182.0347	347.3022	131.9468	571.8813	217.3928
#1	-.005936	.0000030	.0000393	.0044016	.0005540	-.000034
#2	-.005131	.0000121	.0000294	-.000787	.0000055	.000054
#3	-.005862	-.000003	-.000034	.002321	-.000326	.000047

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002099	-.003387	.0022881	.0160108	.0001299	.0003020
Stddev	.0004316	.004757	.0001499	.0137992	.0001500	.0002362
%RSD	205.6579	140.4365	6.552984	86.18682	115.4664	78.19465
#1	.0001480	.001841	.0021778	.0313895	.0002484	.0003969
#2	.0006691	-.007461	.0024588	.0119321	-.000039	.0004760
#3	-.000187	-.004542	.0022276	.0047107	.000180	.0000332

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1319990	.0001913	-.001207	.1253917	-.004270	-.000072
Stddev	.0063970	.0006943	.000238	.0172943	.000176	.000176
%RSD	4.846218	362.9135	19.67653	13.79221	4.118636	244.0605
#1	.1253624	-.000264	-.001375	.1408523	-.004188	-.000004
#2	.1381259	-.000152	-.000935	.1286077	-.004151	-.000272
#3	.1325086	.000990	-.001311	.1067152	-.004472	.000059

Reviewed By:
On:
Inst Id :P4
LB :LB135063

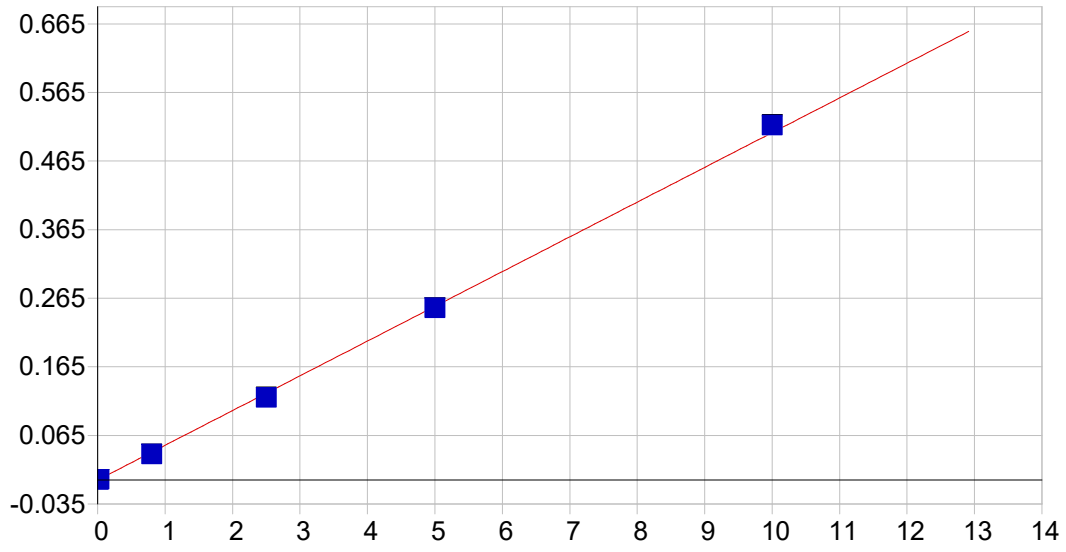
Sample Name: CCB05 Acquired: 3/17/2025 18:22:37 Type: Unk
Method: NON EPA-6010-200.7(v2811) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003505	.0005736	-.004587	-.003023	F -.011635	.0011336
Stddev	.0008284	.0006896	.007584	.000645	.003442	.0004793
%RSD	236.3604	120.2263	165.3434	21.34255	29.58613	42.28334
#1	.0008710	-.000208	.001663	-.002879	-.009179	.0010765
#2	.0007853	.000832	-.002400	-.003728	-.015570	.0016389
#3	-.000605	.001097	-.013023	-.002462	-.010157	.0006854

Elem	Sr4077
Units	ppm
Avg	-.000100
Stddev	.000036
%RSD	35.87651
#1	-.000101
#2	-.000064
#3	-.000136

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3117.082	68502.98	15063.17	2017.223	4829.709
Stddev	6.912	350.62	7.00	11.304	8.327
%RSD	.2217390	.5118258	.0464663	.5603922	.1724140
#1	3116.904	68838.30	15068.04	2025.901	4827.679
#2	3110.260	68531.77	15066.32	2021.327	4822.585
#3	3124.081	68138.85	15055.15	2004.439	4838.864

Reviewed By:
On:
Inst Id :P4
LB :LB135063



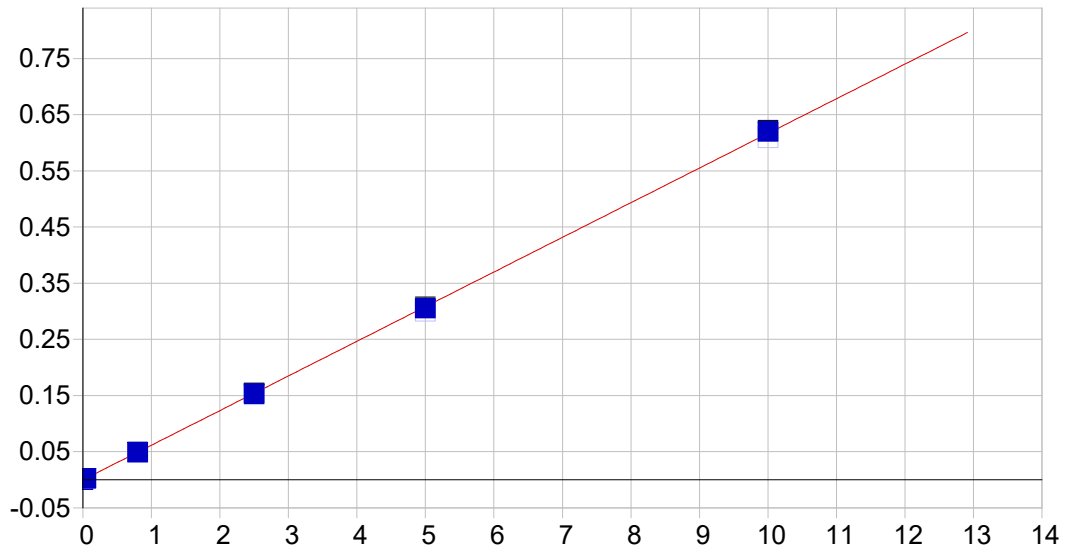
As 189.042 {479}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000102	Re-Slope:	1.000000
A1 (Gain):	0.050648	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999602	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.002611		
Predicted MQL:	0.008704		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00010	.000	1
S1	.02000	.01941	-.001	-2.94	.00088	.000	1
S3	2.5000	2.3808	-.119	-4.77	.12034	.000	1
S4	5.0000	4.9582	-.042	-.835	.25075	.000	1
S5	10.000	10.217	.217	2.17	.51681	.001	1
S2	.80000	.74478	-.055	-6.90	.03758	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



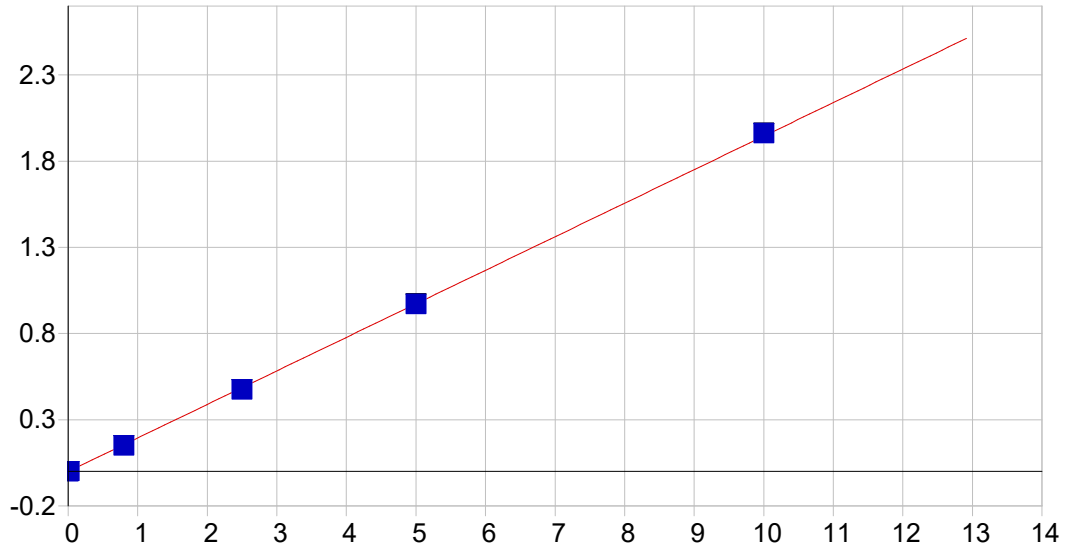
Tl 190.856 {477}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000090	Re-Slope:	1.000000
A1 (Gain):	0.061692	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999980	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.001892		
Predicted MQL:	0.006306		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00009	.000	1
S1	.04000	.04119	.001	2.98	.00229	.000	1
S3	2.5000	2.4928	-.007	-.289	.15085	.001	1
S4	5.0000	4.9573	-.043	-.854	.30006	.002	1
S5	10.000	10.053	.053	.527	.60872	.002	1
S2	.80000	.79609	-.004	-.488	.04811	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



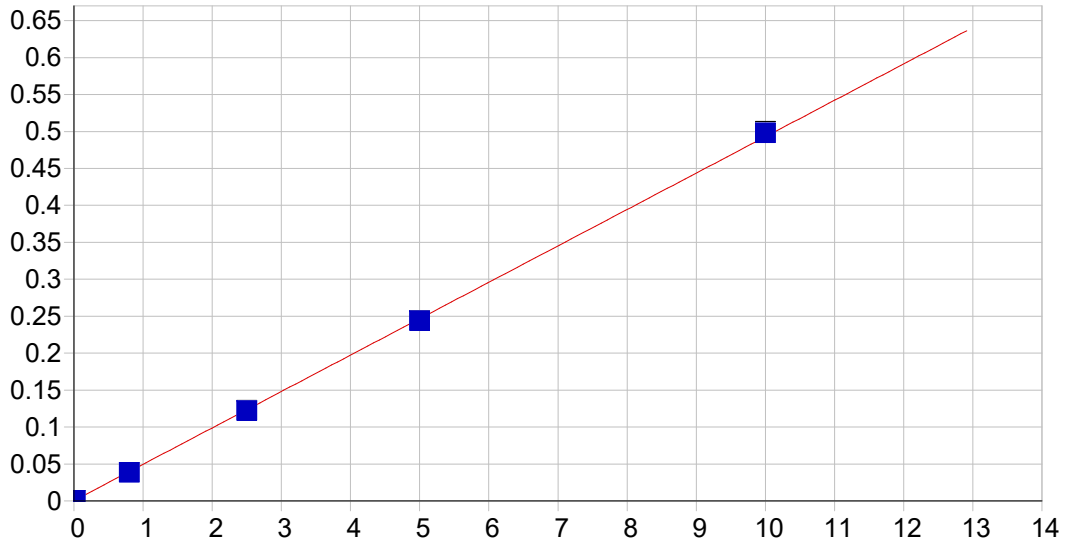
Pb 220.353 {453}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000279	Re-Slope:	1.000000
A1 (Gain):	0.194558	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999917	Status:	OK.
Std Error of Est:	0.000045		
Predicted MDL:	0.001473		
Predicted MQL:	0.004912		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00028	.000	1
S1	.01200	.01150	-.000	-4.15	.00191	.000	1
S3	2.5000	2.4436	-.056	-2.26	.47461	.001	1
S4	5.0000	4.9939	-.006	-.121	.97026	.002	1
S5	10.000	10.090	.090	.901	1.9607	.001	1
S2	.80000	.77284	-.027	-3.40	.14991	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



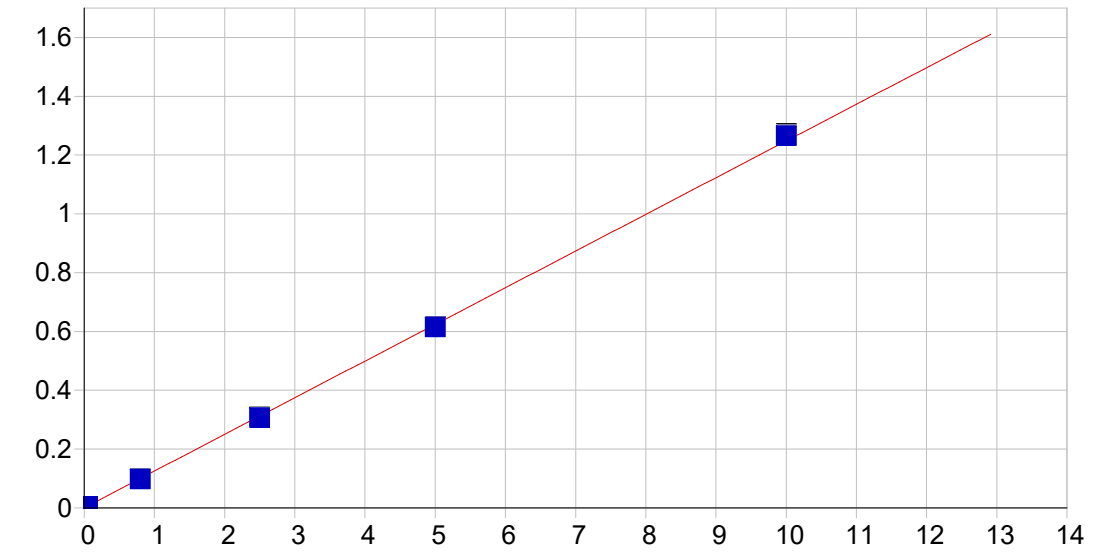
Se 196.090 {472}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000282	Re-Slope:	1.000000
A1 (Gain):	0.049261	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999925	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.003258		
Predicted MQL:	0.010860		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00028	.000	1
S1	.02000	.01871	-.001	-6.46	.00120	.000	1
S3	2.5000	2.4733	-.027	-1.07	.12208	.000	1
S4	5.0000	4.9421	-.058	-1.16	.24365	.000	1
S5	10.000	10.107	.107	1.07	.49798	.002	1
S2	.80000	.77901	-.021	-2.62	.03864	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



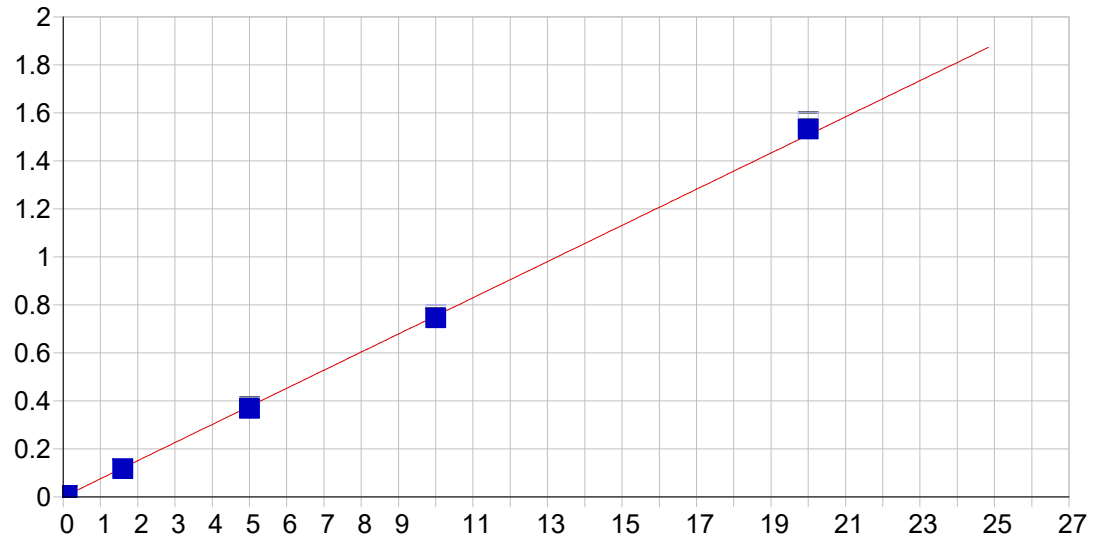
Sb 206.833 {463}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000507	Re-Slope:	1.000000
A1 (Gain):	0.124725	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999875	Status:	OK.
Std Error of Est:	0.000073		
Predicted MDL:	0.001931		
Predicted MQL:	0.006438		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00051	.000	1
S1	.05000	.04861	-.001	-2.79	.00658	.000	1
S3	2.5000	2.4578	-.042	-1.69	.30790	.001	1
S4	5.0000	4.9220	-.078	-1.56	.61610	.001	1
S5	10.000	10.143	.143	1.43	1.2690	.005	1
S2	.80000	.77825	-.022	-2.72	.09785	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



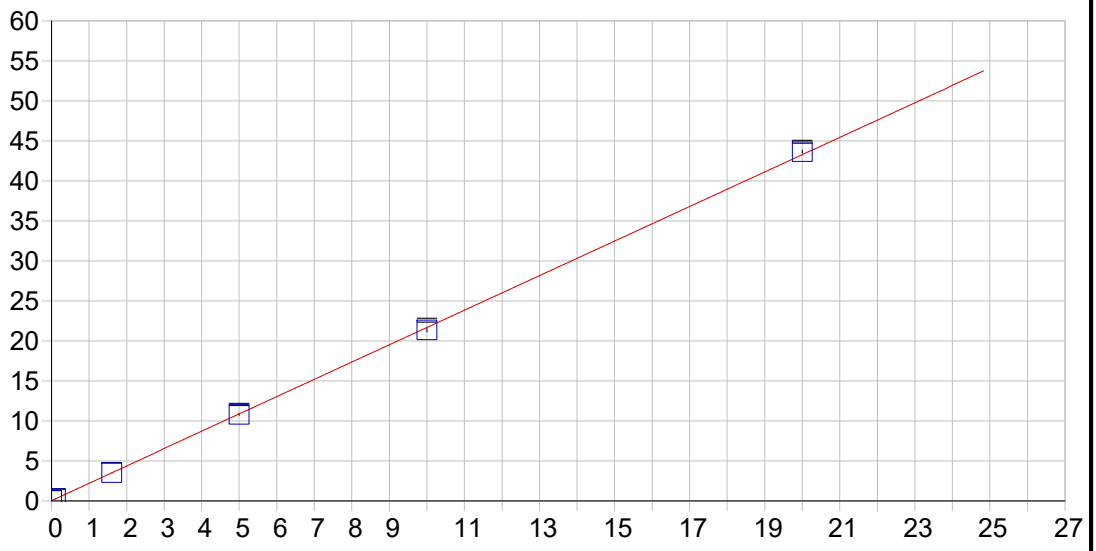
Al 396.152 { 85}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000226	Re-Slope:	1.000000
A1 (Gain):	0.075402	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999845	Status:	OK.
Std Error of Est:	0.000100		
Predicted MDL:	0.006723		
Predicted MQL:	0.022410		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00023	.000	1
S1	.10000	.09489	-.005	-5.11	.00797	.000	1
S3	5.0000	4.8711	-.129	-2.58	.37483	.001	1
S4	10.000	9.8791	-.121	-1.21	.75975	.000	1
S5	20.000	20.311	.311	1.55	1.5610	.002	1
S2	1.6000	1.5443	-.056	-3.48	.11901	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



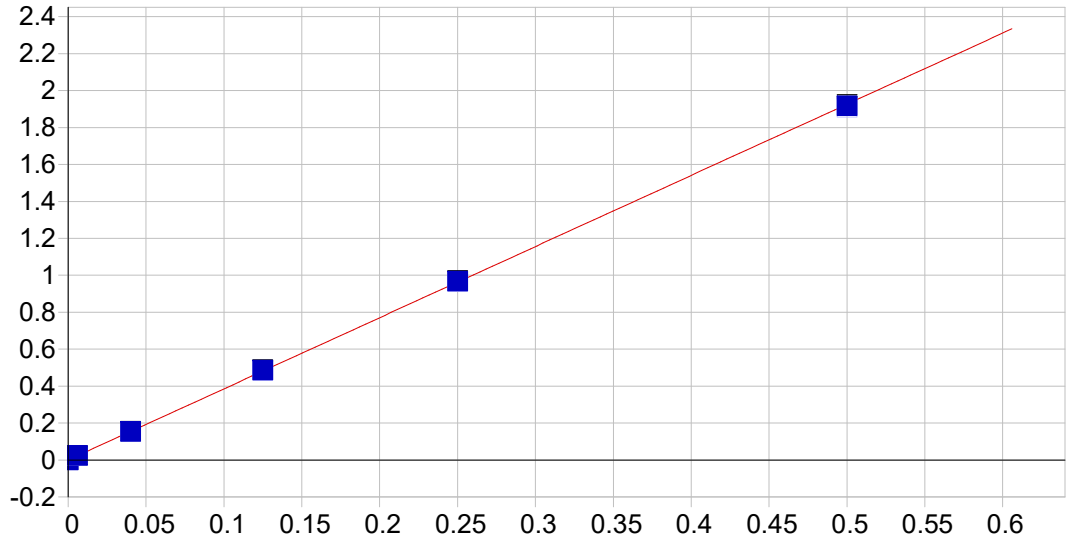
Ba 493.409 { 68}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.054536	Re-Slope:	1.000000
A1 (Gain):	2.161902	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999950	Status:	OK.
Std Error of Est:	0.001602		
Predicted MDL:	0.000894		
Predicted MQL:	0.002979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.05454	.002	1
S1	.10000	.09690	-.003	-3.10	.26403	.004	1
S3	5.0000	4.9785	-.022	-.431	10.817	.141	1
S4	10.000	9.8571	-.143	-1.43	21.365	.229	1
S5	20.000	20.169	.169	.847	43.659	.180	1
S2	1.6000	1.5981	-.002	-.116	3.5096	.005	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



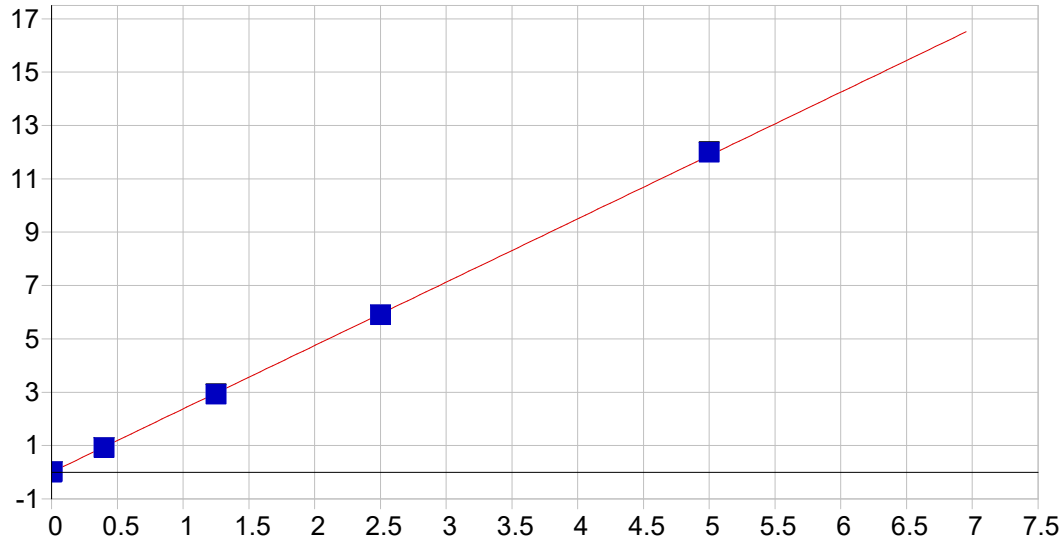
Be 234.861 {144}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000116	Re-Slope:	1.000000
A1 (Gain):	3.852663	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000059		
Predicted MDL:	0.000052		
Predicted MQL:	0.000174		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00012	.000	1
S1	.00600	.00602	.000	.271	.02289	.000	1
S3	.12500	.12608	.001	.860	.48345	.002	1
S4	.25000	.25128	.001	.510	.96365	.003	1
S5	.50000	.49769	-.002	-.461	1.9087	.007	1
S2	.04000	.03994	-.000	-.153	.15306	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



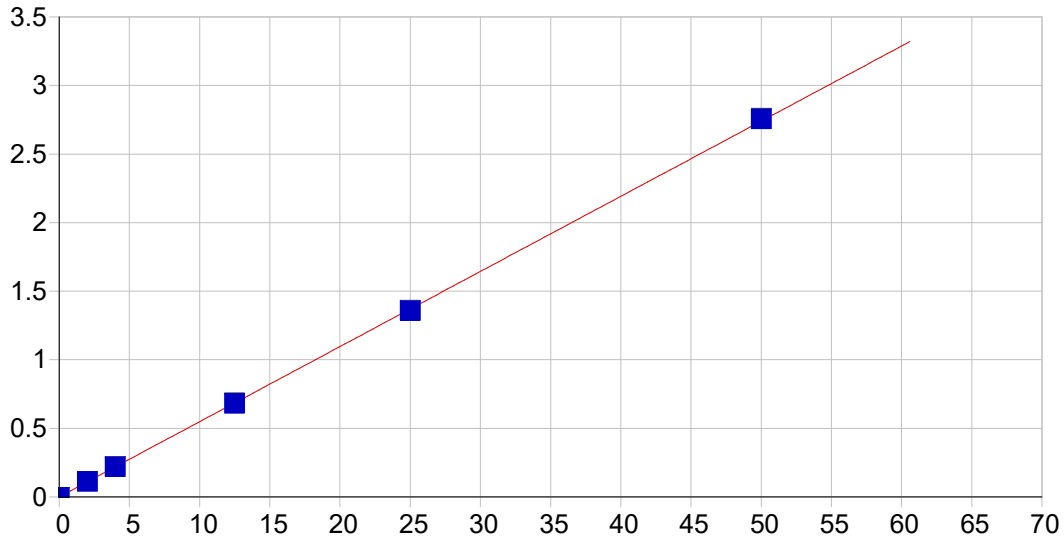
Cd 226.502 {449}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000097	Re-Slope:	1.000000
A1 (Gain):	2.374916	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999928	Status:	OK.
Std Error of Est:	0.000260		
Predicted MDL:	0.000083		
Predicted MQL:	0.000276		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00010	.000	1
S1	.00600	.00587	-.000	-2.22	.01391	.000	1
S3	1.2500	1.2304	-.020	-1.57	2.9246	.007	1
S4	2.5000	2.4855	-.014	-.579	5.9081	.007	1
S5	5.0000	5.0480	.048	.960	11.999	.013	1
S2	.40000	.38622	-.014	-3.44	.91799	.002	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



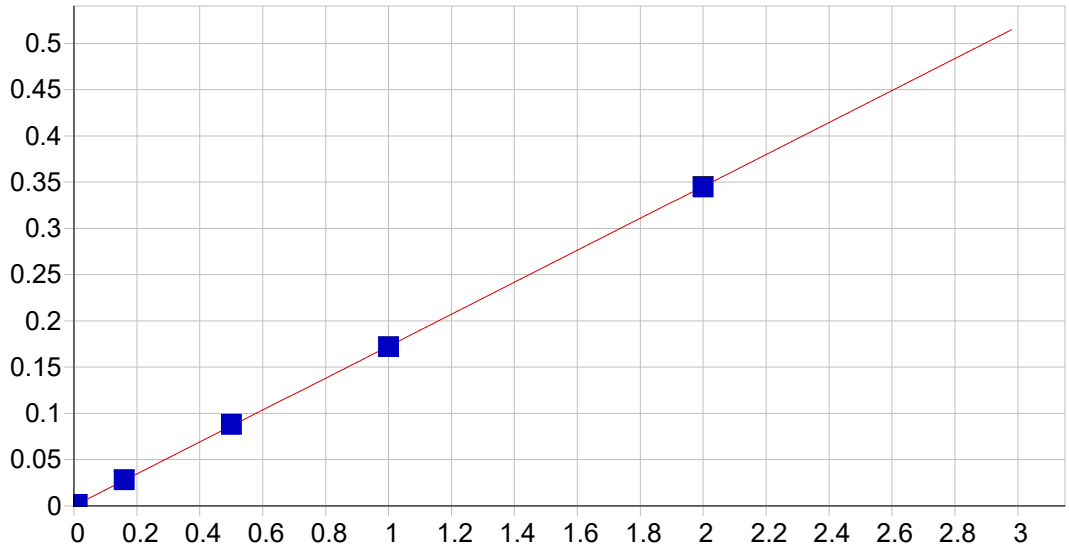
Ca 373.690 { 90}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000789	Re-Slope:	1.000000
A1 (Gain):	0.054777	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000213		
Predicted MDL:	0.008488		
Predicted MQL:	0.028293		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00079	.000	1
S2	4.0000	3.9960	-.004	-.100	.21968	.001	1
S3	12.500	12.410	-.090	-.724	.68055	.002	1
S4	25.000	24.765	-.235	-.941	1.3573	.003	1
S5	50.000	50.305	.305	.610	2.7563	.004	1
S1	2.0000	2.0245	.024	1.22	.11168	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



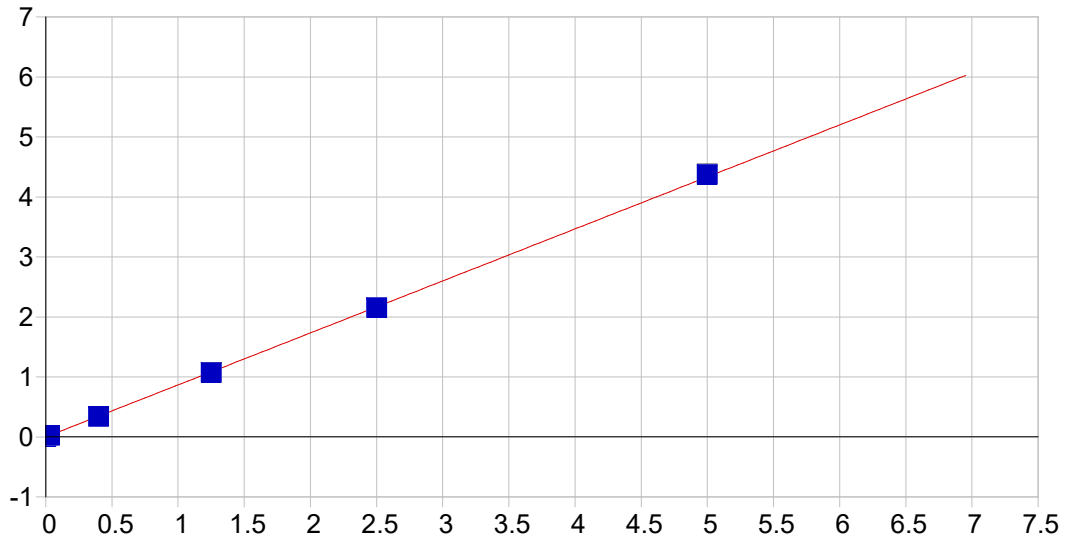
Cr 267.716 {126}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000026	Re-Slope:	1.000000
A1 (Gain):	0.172698	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999968	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.000406		
Predicted MQL:	0.001352		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00003	.000	1
S1	.01000	.00995	-.000	-.456	.00175	.000	1
S3	.50000	.50893	.009	1.79	.08794	.000	1
S4	1.0000	.99455	-.005	-.545	.17183	.001	1
S5	2.0000	1.9943	-.006	-.286	.34454	.001	1
S2	.16000	.16228	.002	1.42	.02806	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



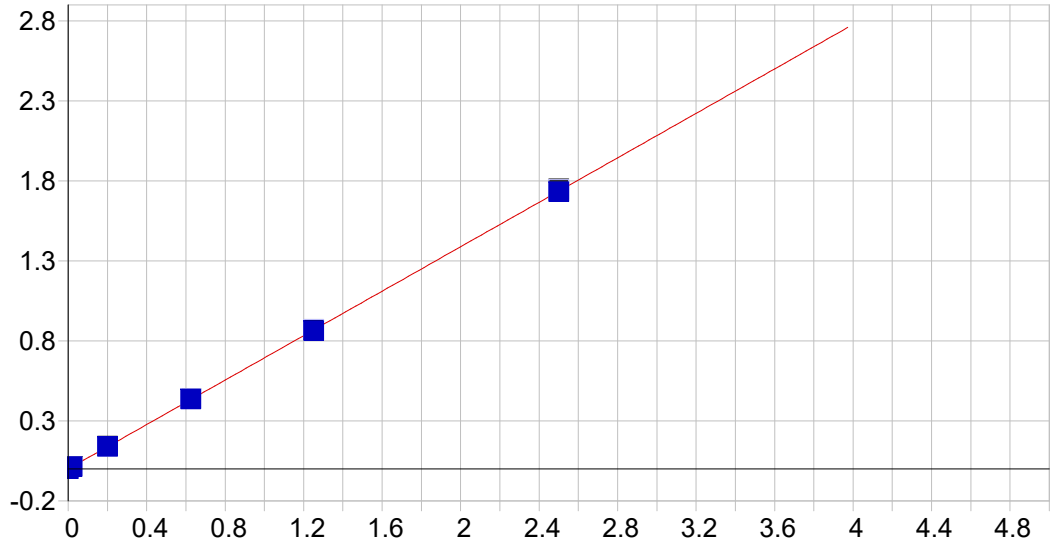
Co 228.616 {448}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000077	Re-Slope:	1.000000
A1 (Gain):	0.866583	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999953	Status:	OK.
Std Error of Est:	0.000171		
Predicted MDL:	0.000240		
Predicted MQL:	0.000801		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00008	.000	1
S1	.03000	.02959	-.000	-1.35	.02561	.000	1
S3	1.2500	1.2347	-.015	-1.23	1.0719	.003	1
S4	2.5000	2.4837	-.016	-.651	2.1561	.003	1
S5	5.0000	5.0414	.041	.828	4.3762	.004	1
S2	.40000	.39058	-.009	-2.35	.33914	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



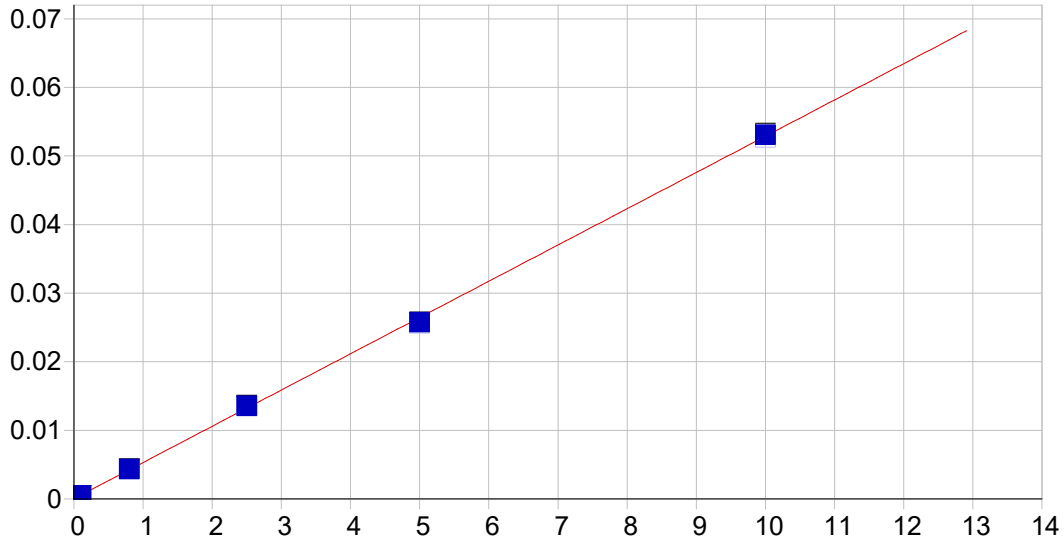
Cu 224.700 {450}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000533	Re-Slope:	1.000000
A1 (Gain):	0.694560	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000065		
Predicted MDL:	0.000409		
Predicted MQL:	0.001362		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00053	.000	1
S1	.02000	.02211	.002	10.5	.01496	.000	1
S3	.62500	.62875	.004	.600	.43925	.002	1
S4	1.2500	1.2460	-.004	-.318	.87106	.001	1
S5	2.5000	2.4958	-.004	-.167	1.7453	.004	1
S2	.20000	.20230	.002	1.15	.14096	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



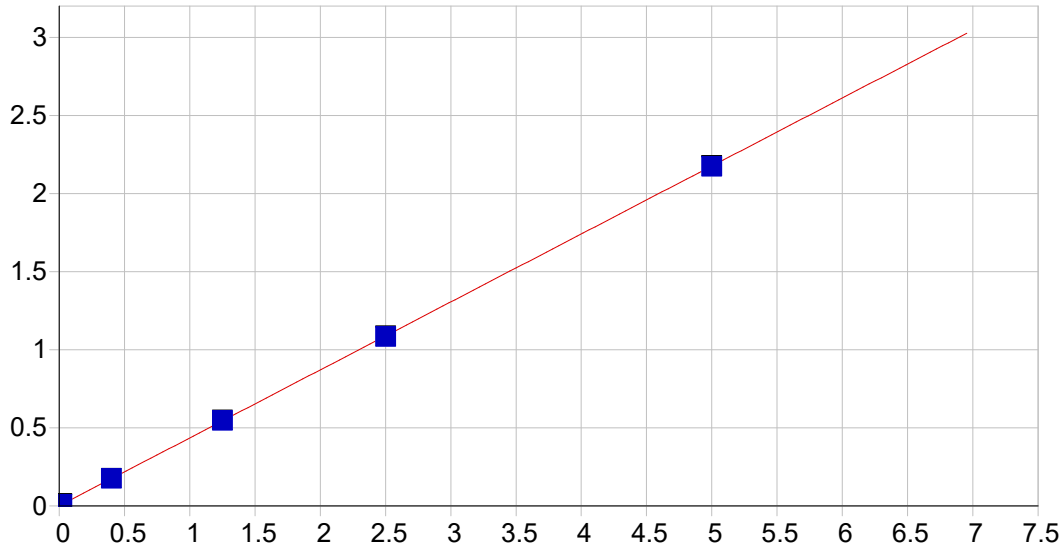
Fe 240.488 {140}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000023	Re-Slope:	1.000000
A1 (Gain):	0.005286	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999836	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.004559		
Predicted MQL:	0.015197		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00002	.000	1
S1	.10000	.09659	-.003	-3.41	.00053	.000	1
S3	2.5000	2.5674	.067	2.70	.01348	.000	1
S4	5.0000	4.8714	-.129	-2.57	.02555	.000	1
S5	10.000	10.045	.045	.449	.05267	.000	1
S2	.80000	.81975	.020	2.47	.00432	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



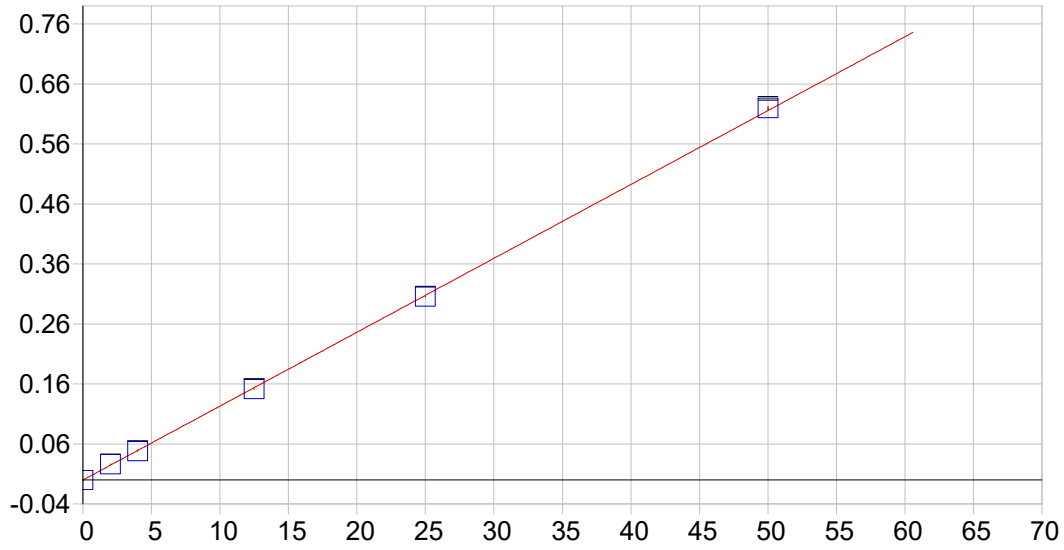
Mn 257.610 {131}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000237	Re-Slope:	1.000000
A1 (Gain):	0.435196	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999890	Status:	OK.
Std Error of Est:	0.000107		
Predicted MDL:	0.000381		
Predicted MQL:	0.001271		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00023	.000	1
S1	.02000	.02615	.006	30.7	.01162	.002	1
S3	1.2500	1.2557	.006	.455	.54682	.002	1
S4	2.5000	2.4893	-.011	-.428	1.0838	.004	1
S5	5.0000	4.9941	-.006	-.118	2.1741	.005	1
S2	.40000	.40473	.005	1.18	.17641	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



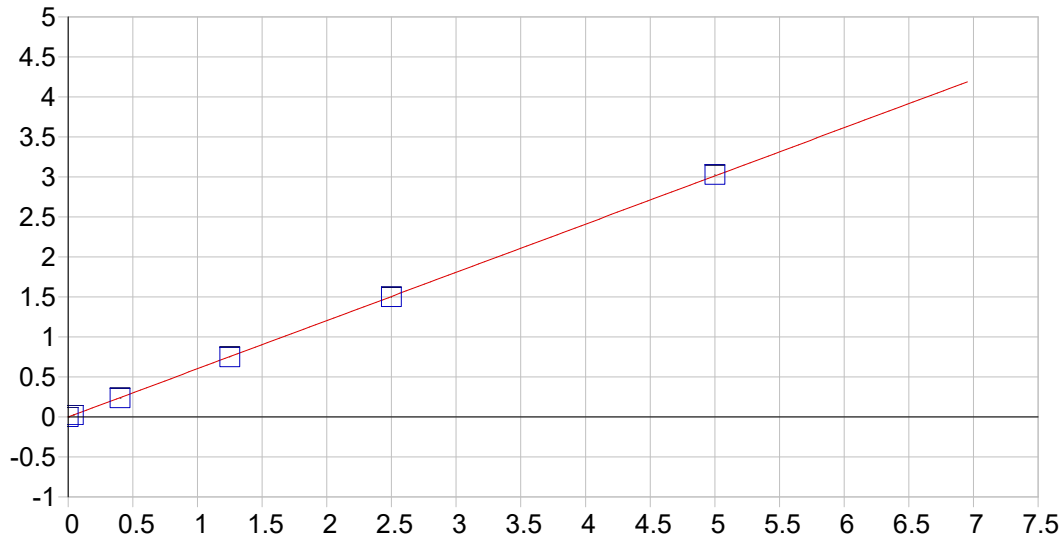
Mg 279.079 {121}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000164	Re-Slope:	1.000000
A1 (Gain):	0.012316	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.000091		
Predicted MDL:	0.015052		
Predicted MQL:	0.050173		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00006	-.000	.000	-.00016	.000	1
S2	4.0000	3.9098	-.090	-2.26	.04799	.000	1
S3	12.500	12.303	-.197	-1.57	.15137	.001	1
S4	25.000	24.823	-.177	-.708	.30556	.001	1
S5	50.000	50.323	.323	.645	.61961	.003	1
S1	2.0000	2.1411	.141	7.06	.02621	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



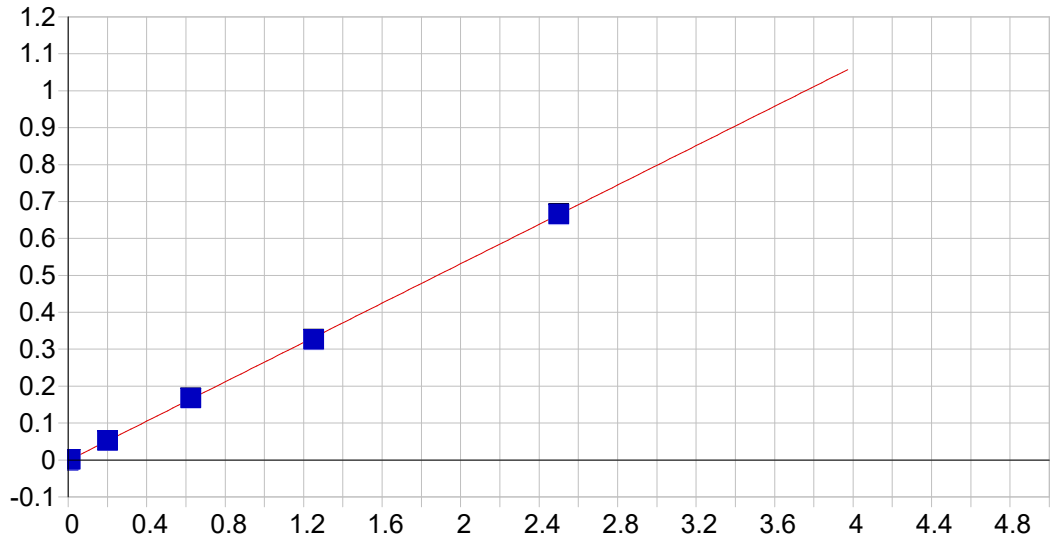
Ni 231.604 {446}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000271	Re-Slope:	1.000000
A1 (Gain):	0.602479	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000079		
Predicted MDL:	0.000324		
Predicted MQL:	0.001081		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00027	.000	1
S1	.04000	.03971	-.000	-.714	.02366	.000	1
S3	1.2500	1.2449	-.005	-.409	.74975	.002	1
S4	2.5000	2.4878	-.012	-.489	1.4986	.001	1
S5	5.0000	5.0236	.024	.472	3.0264	.003	1
S2	.40000	.39399	-.006	-1.50	.23710	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



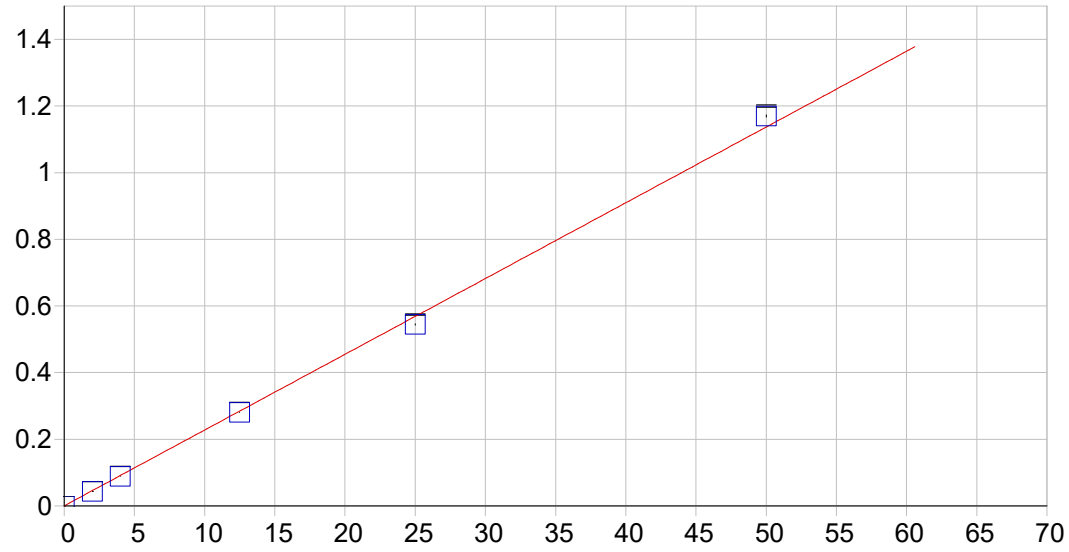
Ag 328.068 {103}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001513	Re-Slope:	1.000000
A1 (Gain):	0.266503	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999940	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.000375		
Predicted MQL:	0.001249		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00151	.000	1
S1	.01000	.00985	-.000	-1.52	.00109	.000	1
S3	.62500	.63433	.009	1.49	.16688	.000	1
S4	1.2500	1.2302	-.020	-1.59	.32501	.001	1
S5	2.5000	2.5068	.007	.271	.66391	.001	1
S2	.20000	.20387	.004	1.93	.05261	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



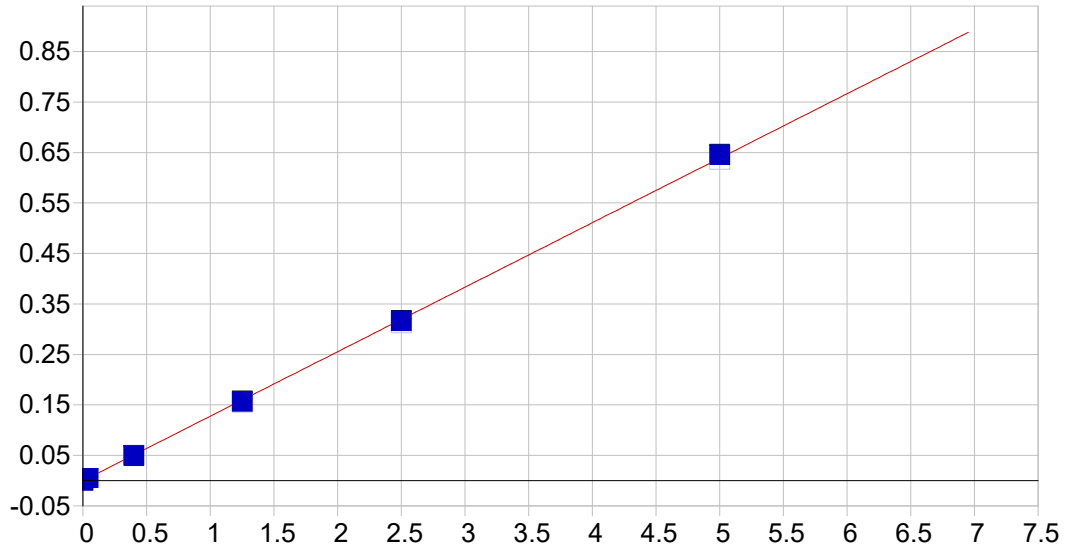
Na 589.592 { 57}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000353	Re-Slope:	1.000000
A1 (Gain):	0.022733	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999470	Status:	OK.
Std Error of Est:	0.000392		
Predicted MDL:	0.009766		
Predicted MQL:	0.032554		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00022	.000	.000	.00036	.000	1
S2	4.0000	3.8832	-.117	-2.92	.08863	.000	1
S3	12.500	12.327	-.173	-1.39	.28057	.000	1
S4	25.000	23.945	-1.05	-4.22	.54469	.002	1
S5	50.000	51.457	1.46	2.91	1.1701	.004	1
S1	2.0000	1.8881	-.112	-5.59	.04328	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



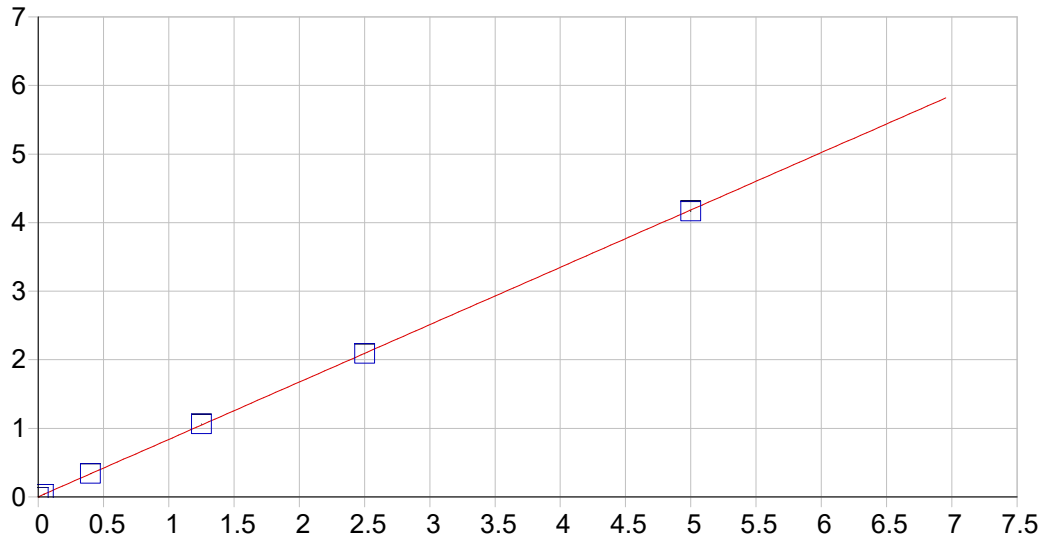
V 292.402 {115}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000065	Re-Slope:	1.000000
A1 (Gain):	0.127752	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999921	Status:	OK.
Std Error of Est:	0.000037		
Predicted MDL:	0.001609		
Predicted MQL:	0.005362		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00006	.000	1
S1	.04000	.04132	.001	3.31	.00502	.000	1
S3	1.2500	1.2284	-.022	-1.73	.15454	.001	1
S4	2.5000	2.4781	-.022	-.877	.31186	.000	1
S5	5.0000	5.0523	.052	1.05	.63606	.001	1
S2	.40000	.38993	-.010	-2.52	.04900	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



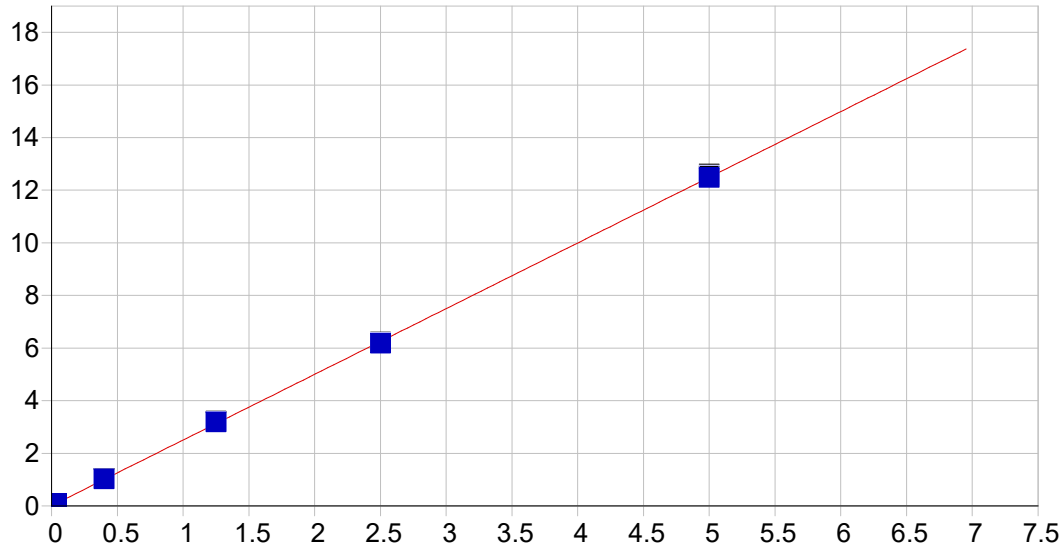
Zn 206.200 {464}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001915	Re-Slope:	1.000000
A1 (Gain):	0.836542	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000142		
Predicted MDL:	0.000206		
Predicted MQL:	0.000685		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00191	.000	1
S1	.04000	.04164	.002	4.10	.03675	.000	1
S3	1.2500	1.2678	.018	1.42	1.0625	.003	1
S4	2.5000	2.4953	-.005	-.189	2.0893	.002	1
S5	5.0000	4.9801	-.020	-.399	4.1679	.007	1
S2	.40000	.40527	.005	1.32	.34094	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



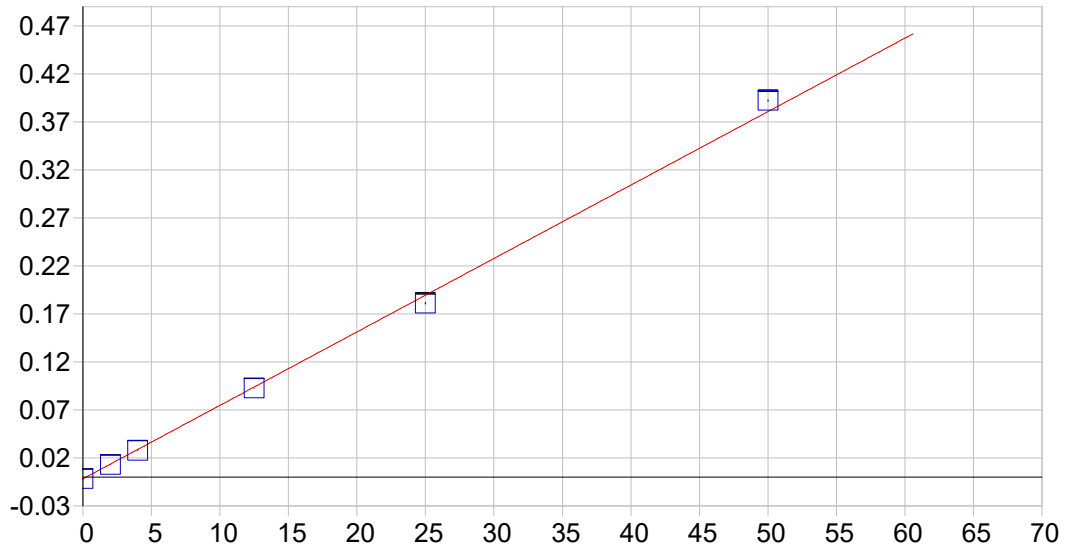
Zn 213.856 {158}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006909	Re-Slope:	1.000000
A1 (Gain):	2.497139	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999943	Status:	OK.
Std Error of Est:	0.000628		
Predicted MDL:	0.000328		
Predicted MQL:	0.001093		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00690	.001	1
S1	.04000	.04109	.001	2.71	.11020	.001	1
S3	1.2500	1.2743	.024	1.94	3.2106	.012	1
S4	2.5000	2.4697	-.030	-1.21	6.2174	.015	1
S5	5.0000	4.9964	-.004	-.073	12.570	.045	1
S2	.40000	.40863	.009	2.16	1.0342	.004	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



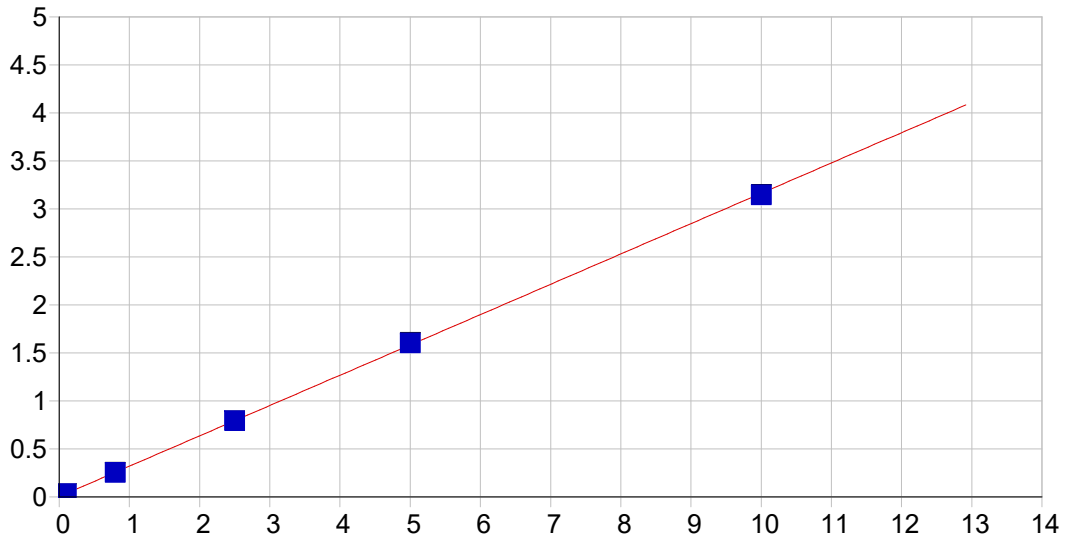
K 766.490 { 44}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001777	Re-Slope:	1.000000
A1 (Gain):	0.007650	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999443	Status:	OK.
Std Error of Est:	0.000135		
Predicted MDL:	0.030090		
Predicted MQL:	0.100301		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00021	.000	.000	-.00178	.000	1
S2	4.0000	3.8553	-.145	-3.62	.02772	.000	1
S3	12.500	12.328	-.172	-1.38	.09253	.000	1
S4	25.000	23.902	-1.10	-4.39	.18107	.001	1
S5	50.000	51.498	1.50	3.00	.39217	.001	1
S1	2.0000	1.9172	-.083	-4.14	.01289	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



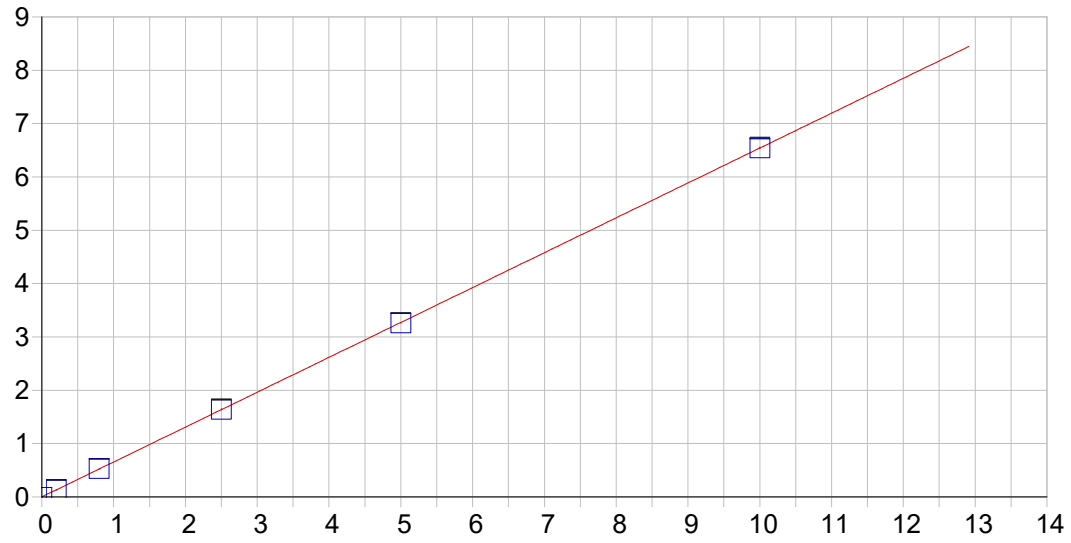
B 249.678 {135}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003953	Re-Slope:	1.000000
A1 (Gain):	0.315840	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000135		
Predicted MDL:	0.000759		
Predicted MQL:	0.002529		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00395	.000	1
S1	.10000	.09777	-.002	-2.23	.03471	.000	1
S3	2.5000	2.5018	.002	.072	.79293	.002	1
S4	5.0000	5.0627	.063	1.25	1.6006	.007	1
S5	10.000	9.9472	-.053	-.528	3.1409	.005	1
S2	.80000	.79052	-.009	-1.19	.25325	.002	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



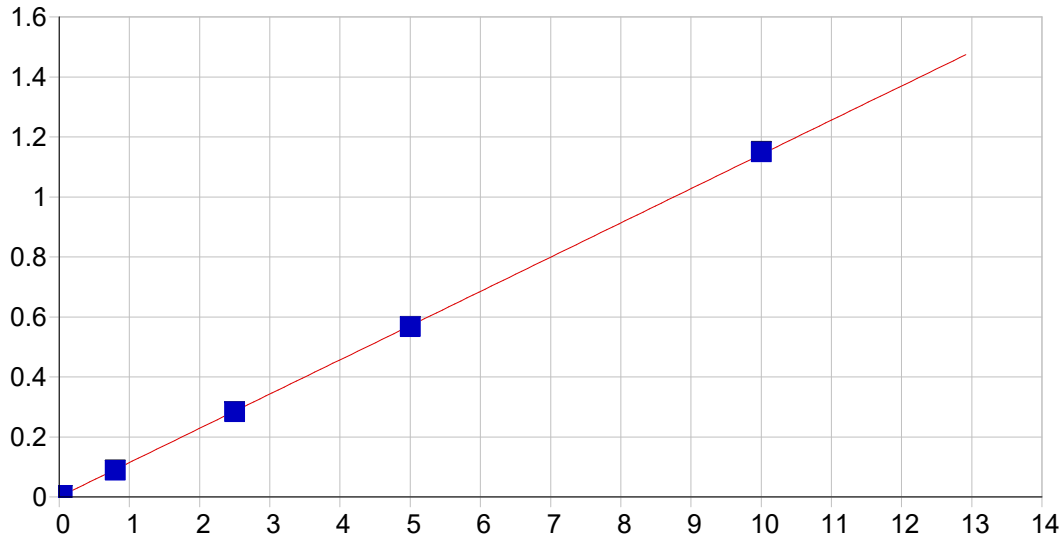
Mo 202.030 {467}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000319	Re-Slope:	1.000000
A1 (Gain):	0.654055	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999995	Status:	OK.
Std Error of Est:	0.000146		
Predicted MDL:	0.000275		
Predicted MQL:	0.000916		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00032	.000	1
S1	.20000	.20222	.002	1.11	.13258	.000	1
S3	2.5000	2.5074	.007	.297	1.6403	.007	1
S4	5.0000	4.9820	-.018	-.361	3.2588	.003	1
S5	10.000	10.002	.002	.017	6.5420	.015	1
S2	.80000	.80666	.007	.832	.52792	.002	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



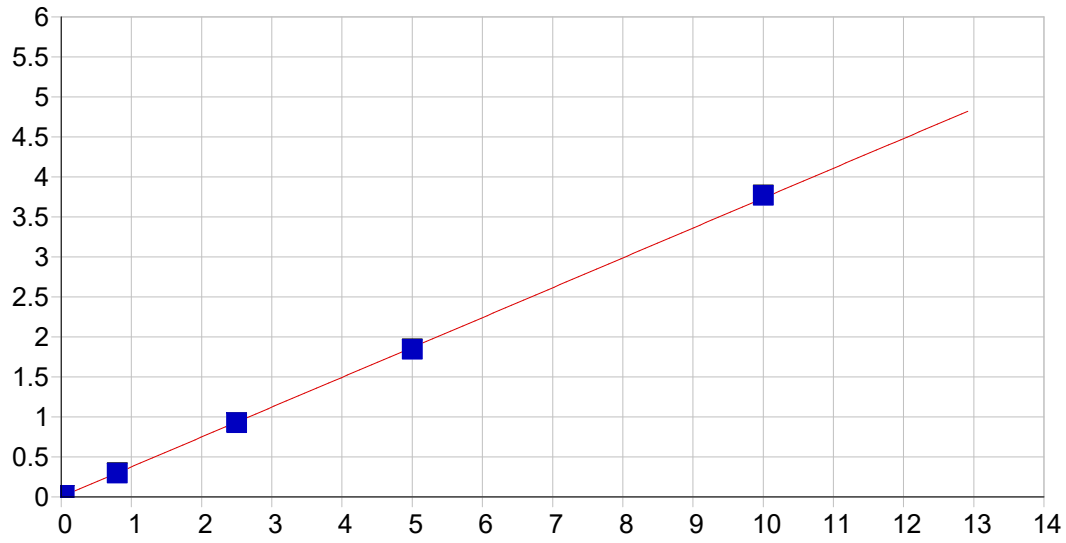
Sn 189.989 {478}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000237	Re-Slope:	1.000000
A1 (Gain):	0.114132	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.000036		
Predicted MDL:	0.000789		
Predicted MQL:	0.002628		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00024	.000	1
S1	.04000	.03927	-.001	-1.83	.00471	.000	1
S3	2.5000	2.4811	-.019	-.756	.28312	.001	1
S4	5.0000	4.9682	-.032	-.636	.56668	.001	1
S5	10.000	10.076	.076	.758	1.1490	.001	1
S2	.80000	.77568	-.024	-3.04	.08867	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



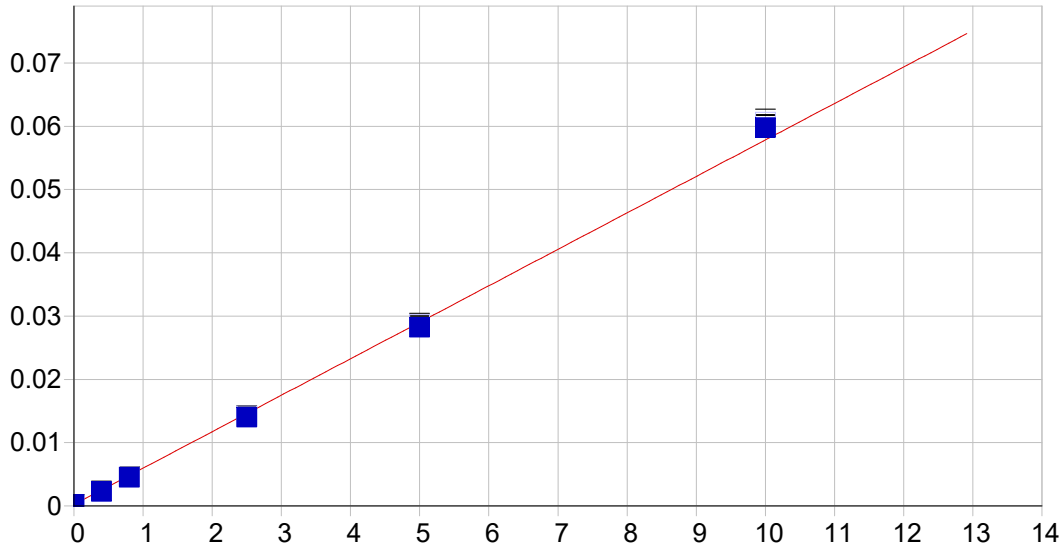
Ti 336.121 {100}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002190	Re-Slope:	1.000000
A1 (Gain):	0.373154	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000128		
Predicted MDL:	0.000764		
Predicted MQL:	0.002546		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00219	.000	1
S1	.04000	.03887	-.001	-2.82	.01668	.000	1
S3	2.5000	2.4765	-.023	-.939	.92597	.003	1
S4	5.0000	4.9383	-.062	-1.23	1.8443	.004	1
S5	10.000	10.094	.094	.936	3.7673	.004	1
S2	.80000	.79265	-.007	-.918	.29786	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



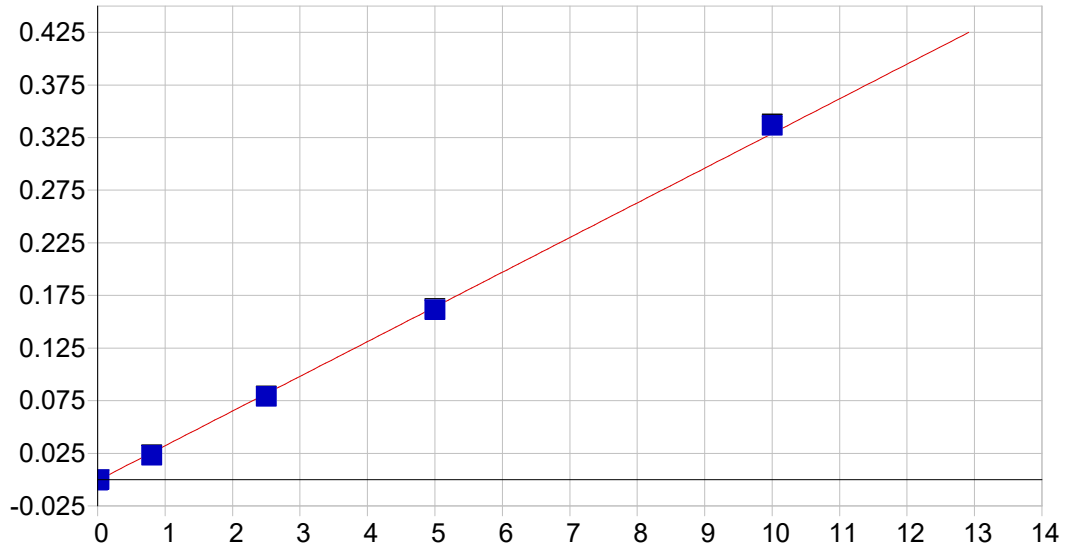
Si 288.158 {117}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000204	Re-Slope:	1.000000
A1 (Gain):	0.005763	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999282	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.007645		
Predicted MQL:	0.025484		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00008	.000	.000	.00020	.000	1
S1	.40000	.35592	-.044	-11.0	.00226	.000	1
S3	2.5000	2.3952	-.105	-4.19	.01423	.000	1
S4	5.0000	4.8654	-.135	-2.69	.02868	.000	1
S5	10.000	10.336	.336	3.36	.06064	.001	1
S2	.80000	.74709	-.053	-6.61	.00458	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



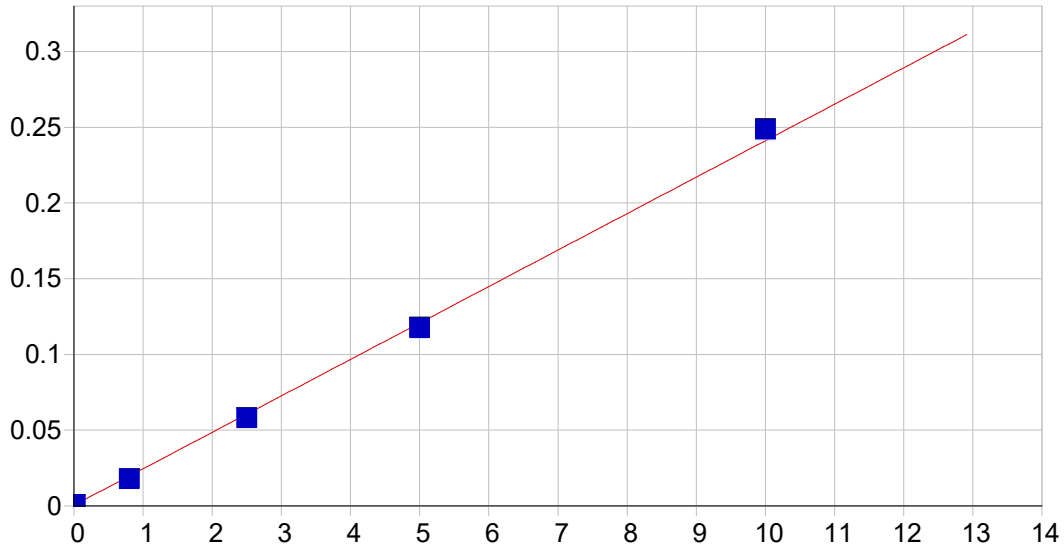
P 177.495 {490}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000790	Re-Slope:	1.000000
A1 (Gain):	0.032970	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999550	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.002835		
Predicted MQL:	0.009450		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00079	.000	1
S1	.02000	.01910	-.001	-4.48	-.00016	.000	1
S3	2.5000	2.4176	-.082	-3.30	.07891	.000	1
S4	5.0000	4.9229	-.077	-1.54	.16149	.001	1
S5	10.000	10.235	.235	2.35	.33662	.001	1
S2	.80000	.72516	-.075	-9.36	.02312	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



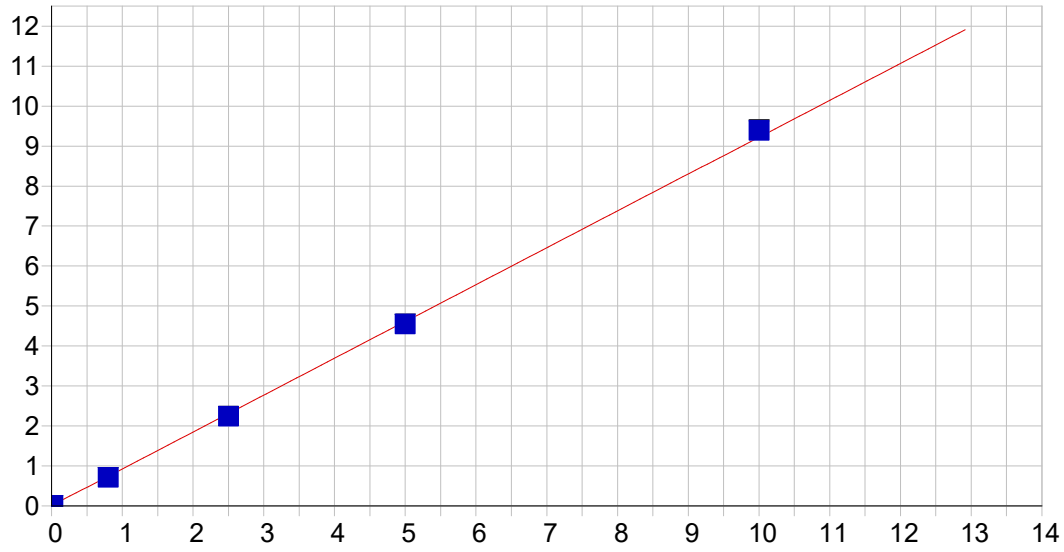
S 182.034 {485}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000452	Re-Slope:	1.000000
A1 (Gain):	0.024065	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999304	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	0.003490		
Predicted MQL:	0.011635		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00045	.000	1
S1	.02000	.01777	-.002	-11.1	.00086	.000	1
S3	2.5000	2.3944	-.106	-4.23	.05792	.000	1
S4	5.0000	4.8684	-.132	-2.63	.11730	.000	1
S5	10.000	10.316	.316	3.16	.24807	.000	1
S2	.80000	.72386	-.076	-9.52	.01782	.000	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



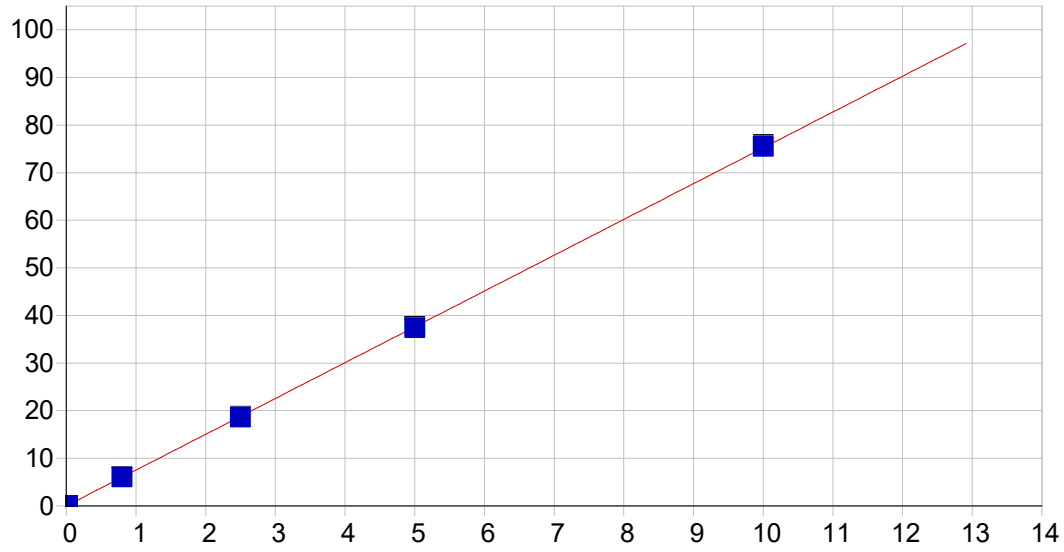
Li 670.784 { 50}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004951	Re-Slope:	1.000000
A1 (Gain):	0.921747	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999775	Status:	OK.
Std Error of Est:	0.000459		
Predicted MDL:	0.001062		
Predicted MQL:	0.003539		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00495	.000	1
S5	10.000	10.183	.183	1.83	9.3959	.014	1
S4	5.0000	4.9297	-.070	-1.41	4.5512	.001	1
S3	2.5000	2.4220	-.078	-3.12	2.2385	.004	1
S1	.02000	.01892	-.001	-5.41	.02268	.000	1
S2	.80000	.76616	-.034	-4.23	.71153	.001	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063



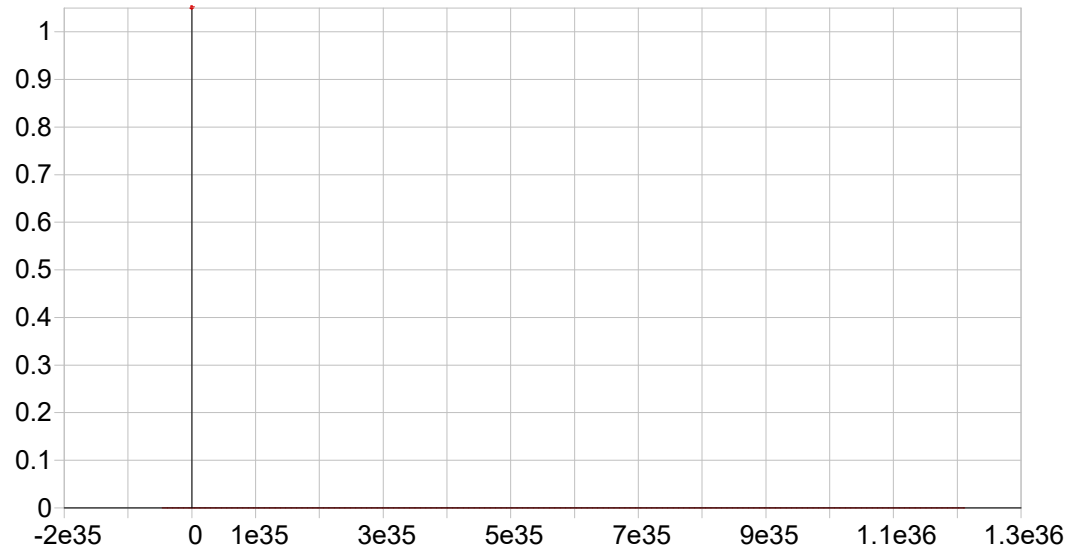
Sr 407.771 { 83}

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001480	Re-Slope:	1.000000
A1 (Gain):	7.522050	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000886		
Predicted MDL:	0.000077		
Predicted MQL:	0.000258		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00148	.000	1
S1	.02000	.01949	-.001	-2.57	.14872	.001	1
S3	2.5000	2.4780	-.022	-.879	18.658	.148	1
S4	5.0000	4.9798	-.020	-.404	37.493	.209	1
S5	10.000	10.037	.037	.374	75.569	.301	1
S2	.80000	.80532	.005	.666	6.0645	.004	1

Reviewed By:
On:
Inst Id :P4
LB :LB135063

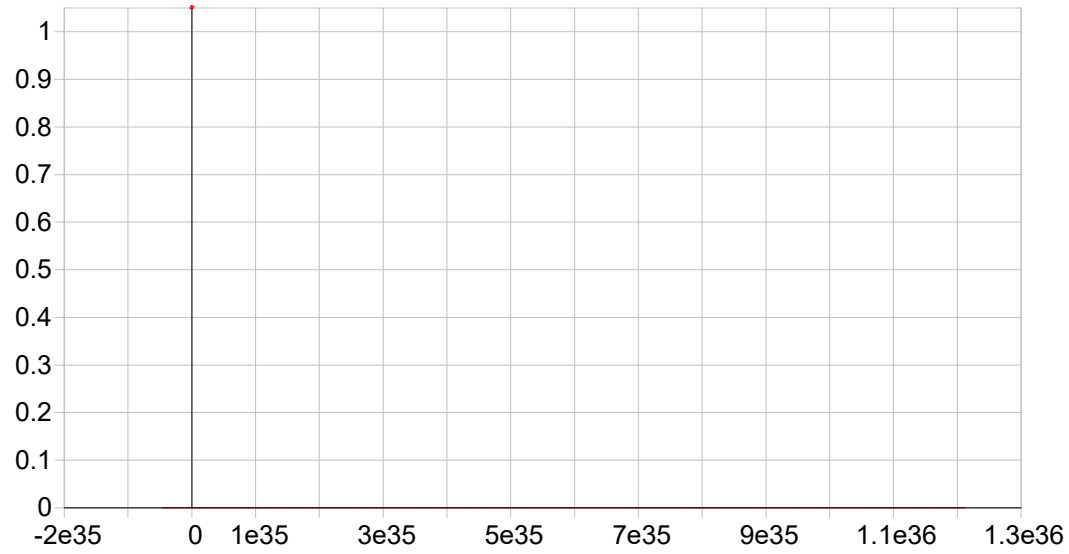


Y 224.306 {450}*

Date of Fit:	3/17/2025 15:04:30	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 360.073 { 94}*

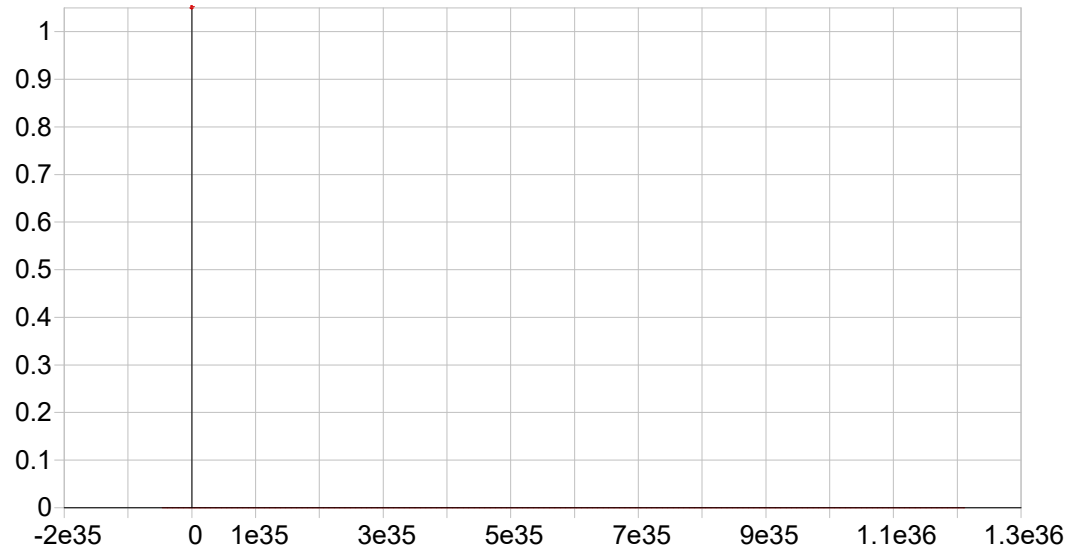
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:
On:
Inst Id :P4
LB :LB135063

A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

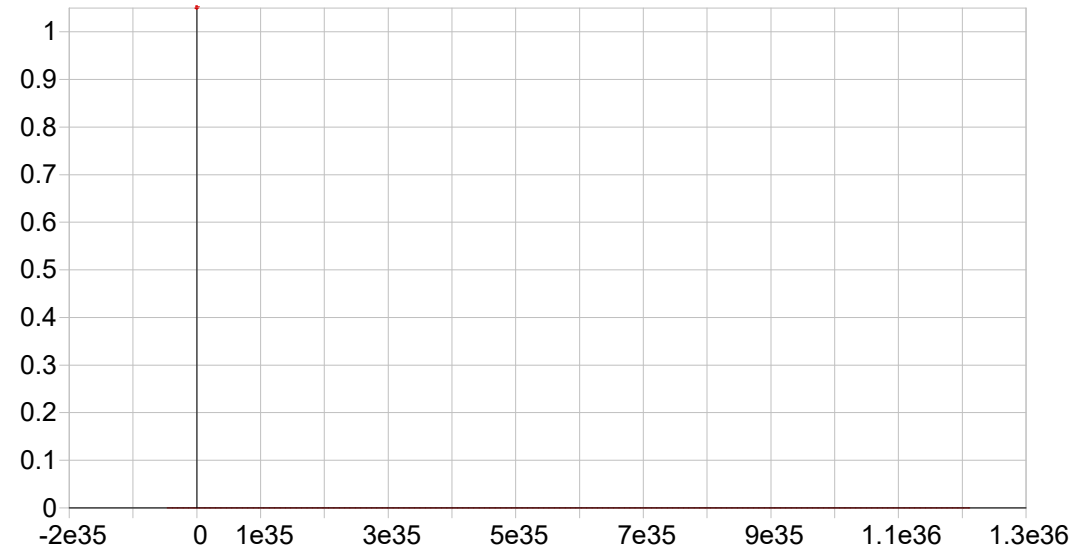


Y 371.030 { 91}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000	Status:	Warning	Zero Gain	
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

Reviewed By:
On:
Inst Id :P4
LB :LB135063

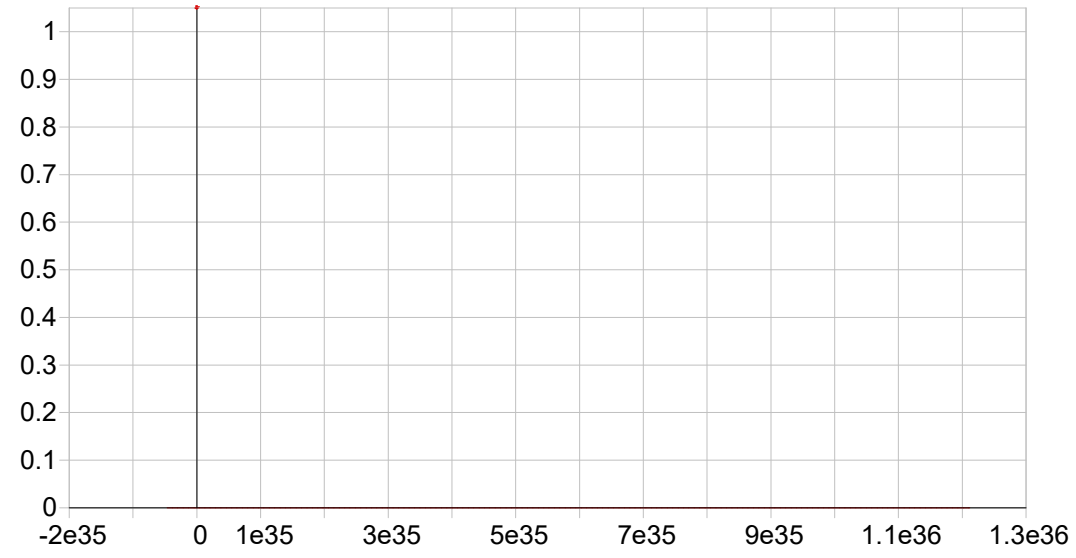


Y 224.306 {150}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:
On:
Inst Id :P4
LB :LB135063

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	**Stated Conc.**	**Found Conc.**	**Difference**	**% Diff.**	**(S)IR**	**Std Dev**	**Emphasis**

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167007

SOP ID : M200.7-Trace Elements-22

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 03/06/2025 **Time :** 08:40 **Temp :** 96 °C

End Digest Date: 03/06/2025 **Time :** 11:45 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SLS.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6003
LFS-2	0.25	M6011
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	1.00	MP84041
1:1 HCL	0.50	MP84720
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #1 CELL # 55 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/06/25 12:45	SPO. met. dig.	
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167007

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167007BL	PBW007	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
PB167007BS	LCS007	<2	50	25	Colorless	Colorless	Clear	Clear	M6003,M6011	2
Q1491-02	COMP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	3
Q1495-01	001-WILLETS-PT-BLVD(MAR)	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	4
Q1495-02	002-35TH-AVE(MAR)	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	5
Q1499-01	402	<2	50	25	Colorless	Colorless	Cloudy	Cloudy	N/A	6
Q1499-01MS	402MS	<2	50	25	Colorless	Colorless	Clear	Clear	M6003,M6011	8
Q1499-01MSD	402MSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6003,M6011	9
Q1499-01DUP	402DUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	7

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB167007 **WorkList ID :** 188069 **Department :** Digestion **Date :** 03-06-2025 08:29:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1491-02	COMP	Water	Metals ICP-Group1	1:1 HNO3 to pH < 2	ARAM01	F11	03/05/2025	200.7
Q1495-01	001-WILLETS-PT-BLVD(MAR)	Water	Metals Group 9	1:1 HNO3 to pH < 2	TULL01	I21	03/04/2025	200.7
Q1495-02	002-35TH-AVE(MAR)	Water	Metals Group 9	1:1 HNO3 to pH < 2	TULL01	I21	03/04/2025	200.7
Q1499-01	402	Water	Metals Group7	1:1 HNO3 to pH < 2	PSEG04	I31	03/05/2025	200.7

Date/Time 03/06/2025 8:55
Raw Sample Received by: SB. metals
Raw Sample Relinquished by: [signature]

Date/Time 03/06/2025 9:55
Raw Sample Received by: [signature]
Raw Sample Relinquished by: SB. metals.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/11/25 10:19		Kareem	OK
2	S1	S1	CAL2	03/11/25 10:24		Kareem	OK
3	S2	S2	CAL3	03/11/25 10:28		Kareem	OK
4	S3	S3	CAL4	03/11/25 10:32		Kareem	OK
5	S4	S4	CAL5	03/11/25 10:36		Kareem	OK
6	S5	S5	CAL6	03/11/25 10:41		Kareem	OK
7	ICV01	ICV01	ICV	03/11/25 10:50		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/11/25 10:54		Kareem	OK
9	ICB01	ICB01	ICB	03/11/25 10:58		Kareem	OK
10	CRI01	CRI01	CRDL	03/11/25 11:02		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/11/25 11:06		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/11/25 11:11		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/11/25 11:15		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/11/25 11:19		Kareem	OK
15	CCV01	CCV01	CCV	03/11/25 11:29		Kareem	OK
16	CCB01	CCB01	CCB	03/11/25 11:34		Kareem	OK
17	Q1421-04	P001-CLAY-CF01-01	SAM	03/11/25 11:38		Kareem	OK
18	Q1421-04DUP	P001-CLAY-CF01-01D	DUP	03/11/25 11:42		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

19	Q1421-04L	P001-CLAY-CF01-01L	SD	03/11/25 11:46		Kareem	OK
20	Q1421-05	P001-CLAY-CF01-01M	MS	03/11/25 11:51	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
21	Q1421-06	P001-CLAY-CF01-01M	MSD	03/11/25 11:55	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
22	Q1421-04A	P001-CLAY-CF01-01A	PS	03/11/25 11:59	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
23	Q1490-01	MS	SAM	03/11/25 12:02		Kareem	OK
24	Q1490-02	MS	SAM	03/11/25 12:07		Kareem	OK
25	Q1494-03	ASPHALT-SOIL	SAM	03/11/25 12:11		Kareem	OK
26	Q1494-05	SOIL	SAM	03/11/25 12:15		Kareem	OK
27	CCV02	CCV02	CCV	03/11/25 12:19		Kareem	OK
28	CCB02	CCB02	CCB	03/11/25 12:23		Kareem	OK
29	Q1494-07	SOIL-COMP	SAM	03/11/25 12:28		Kareem	OK
30	Q1494-07DUP	SOIL-COMPDUP	DUP	03/11/25 12:32		Kareem	OK
31	Q1494-07L	SOIL-COMPL	SD	03/11/25 12:36		Kareem	OK
32	Q1494-07MS	SOIL-COMPMS	MS	03/11/25 12:40	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
33	Q1494-07MSD	SOIL-COMPMSD	MSD	03/11/25 12:44	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

34	Q1494-07ARE	SOIL-COMPA	PS	03/11/25 12:48	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
35	Q1494-04	ASPHALT-SOIL	SAM	03/11/25 12:52		Kareem	OK
36	Q1494-06	SOIL	SAM	03/11/25 12:57		Kareem	OK
37	Q1494-08	SOIL-COMP	SAM	03/11/25 13:01		Kareem	OK
38	PB167004BL	PB167004BL	MB	03/11/25 13:05		Kareem	OK
39	CCV03	CCV03	CCV	03/11/25 13:10		Kareem	OK
40	CCB03	CCB03	CCB	03/11/25 13:14		Kareem	OK
41	PB167004BS	PB167004BS	LCS	03/11/25 13:18	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
42	Q1494-01	PURGE-WATER	SAM	03/11/25 13:22		Kareem	OK
43	Q1494-01DUP	PURGE-WATERDUP	DUP	03/11/25 13:26		Kareem	OK
44	Q1494-01L	PURGE-WATERL	SD	03/11/25 13:31		Kareem	OK
45	Q1494-01MS	PURGE-WATERMS	MS	03/11/25 13:35	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
46	Q1494-01MSD	PURGE-WATERMSD	MSD	03/11/25 13:39	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
47	Q1494-01A	PURGE-WATERA	PS	03/11/25 13:43	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
48	PB167002BL	PB167002BL	MB	03/11/25 13:55		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

49	PB167002BS	PB167002BS	LCS	03/11/25 14:00	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
50	Q1499-01	402	SAM	03/11/25 14:04		Kareem	OK
51	CCV04	CCV04	CCV	03/11/25 14:08		Kareem	OK
52	CCB04	CCB04	CCB	03/11/25 14:13		Kareem	OK
53	Q1499-01DUP	402DUP	DUP	03/11/25 14:17		Kareem	OK
54	Q1499-01L	402L	SD	03/11/25 14:21		Kareem	OK
55	Q1499-01MS	402MS	MS	03/11/25 14:26	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
56	Q1499-01MSD	402MSD	MSD	03/11/25 14:30	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
57	Q1499-01A	402A	PS	03/11/25 14:34	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
58	Q1488-02	ENV-101-SB01	SAM	03/11/25 14:38		Kareem	OK
59	Q1415-06	B-173-GW01	SAM	03/11/25 14:43		Kareem	OK
60	Q1415-06DUP	B-173-GW01DUP	DUP	03/11/25 14:47		Kareem	OK
61	Q1415-06L	B-173-GW01L	SD	03/11/25 14:52		Kareem	OK
62	Q1415-06MS	B-173-GW01MS	MS	03/11/25 14:56	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
63	CCV05	CCV05	CCV	03/11/25 15:00		Kareem	OK
64	CCB05	CCB05	CCB	03/11/25 15:04		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

65	Q1415-06MSD	B-173-GW01MSD	MSD	03/11/25 15:09	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
66	Q1415-06A	B-173-GW01A	PS	03/11/25 15:13	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
67	Q1534-01	OR-636-COMP-16	SAM	03/11/25 15:17		Kareem	OK
68	Q1534-07	OR-636-COMP-17	SAM	03/11/25 15:21		Kareem	OK
69	Q1534-13	OR-636-COMP-18	SAM	03/11/25 15:25		Kareem	OK
70	Q1534-19	OR-636-COMP-19	SAM	03/11/25 15:29		Kareem	OK
71	Q1535-01	SU-03-03102025	SAM	03/11/25 15:33		Kareem	OK
72	Q1535-01DUP	SU-03-03102025DUP	DUP	03/11/25 15:37		Kareem	OK
73	Q1535-01L	SU-03-03102025L	SD	03/11/25 15:41		Kareem	OK
74	Q1535-01MS	SU-03-03102025MS	MS	03/11/25 15:46	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
75	CCV06	CCV06	CCV	03/11/25 15:50		Kareem	OK
76	CCB06	CCB06	CCB	03/11/25 15:54		Kareem	OK
77	Q1535-01MSD	SU-03-03102025MSD	MSD	03/11/25 16:00	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
78	Q1537-01	COMP-1	SAM	03/11/25 16:08		Kareem	OK
79	Q1537-02	COMP-2	SAM	03/11/25 16:12		Kareem	OK
80	Q1537-03	COMP-3	SAM	03/11/25 16:17		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

81	PB167081BL	PB167081BL	MB	03/11/25 16:21		Kareem	OK
82	PB167081BS	PB167081BS	LCS	03/11/25 16:25	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
83	Q1541-01	205703	SAM	03/11/25 16:29		Kareem	OK
84	Q1541-01DUP	205703DUP	DUP	03/11/25 16:34		Kareem	OK
85	Q1541-01L	205703L	SD	03/11/25 16:38		Kareem	OK
86	CCV07	CCV07	CCV	03/11/25 16:42		Kareem	OK
87	CCB07	CCB07	CCB	03/11/25 16:46		Kareem	OK
88	Q1541-01MS	205703MS	MS	03/11/25 16:51	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
89	Q1541-01MSD	205703MSD	MSD	03/11/25 16:55	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
90	Q1541-01A	205703A	PS	03/11/25 16:59	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
91	PB167084BL	PB167084BL	MB	03/11/25 17:03		Kareem	OK
92	PB167084BS	PB167084BS	LCS	03/11/25 17:07	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
93	PB167049TB	PB167049TB	MB	03/11/25 17:12		Kareem	OK
94	Q1523-03	WC-A1-01-C	SAM	03/11/25 17:16		Kareem	OK
95	Q1523-06	WC-A2-02-C	SAM	03/11/25 17:20		Kareem	OK
96	Q1534-06	OR-636-COMP-16	SAM	03/11/25 17:25		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

97	Q1534-12	OR-636-COMP-17	SAM	03/11/25 17:29		Kareem	OK
98	CCV08	CCV08	CCV	03/11/25 17:34		Kareem	OK
99	CCB08	CCB08	CCB	03/11/25 17:38		Kareem	OK
100	Q1534-18	OR-636-COMP-18	SAM	03/11/25 17:42		Kareem	OK
101	Q1534-24	OR-636-COMP-19	SAM	03/11/25 17:47		Kareem	OK
102	Q1537-05	COMP-1	SAM	03/11/25 17:51		Kareem	OK
103	Q1537-06	COMP-2	SAM	03/11/25 17:55		Kareem	OK
104	Q1537-07	COMP-3	SAM	03/11/25 18:00		Kareem	OK
105	Q1537-07DUP	COMP-3DUP	DUP	03/11/25 18:04		Kareem	OK
106	Q1537-07L	COMP-3L	SD	03/11/25 18:09		Kareem	OK
107	Q1537-07MS	COMP-3MS	MS	03/11/25 18:13	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
108	Q1537-07MSD	COMP-3MSD	MSD	03/11/25 18:18	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
109	Q1537-07A	COMP-3A	PS	03/11/25 18:22	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
110	CCV09	CCV09	CCV	03/11/25 18:26		Kareem	OK
111	CCB09	CCB09	CCB	03/11/25 18:30		Kareem	OK
112	Q1535-01A	SU-03-03102025A	PS	03/11/25 18:35	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

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Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

113	Q1494-07A	SOIL-COMPA	PS	03/11/25 18:39	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
114	PB167092BL	PB167092BL	MB	03/11/25 18:43		Kareem	OK
115	PB167092BS	PB167092BS	LCS	03/11/25 18:47	0.1 ML M6013 AND M6004 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
116	P3652-03	P3652-01 - LIVONIA-S	SAM	03/11/25 18:51	NOT USE	Kareem	Not Ok
117	PB167020TB	PB167020TB	MB	03/11/25 18:55		Kareem	OK
118	LR1	LR1	HIGH STD	03/11/25 18:59		Kareem	OK
119	LR2	LR2	HIGH STD	03/11/25 19:04		Kareem	OK
120	CCV10	CCV10	CCV	03/11/25 19:14		Kareem	OK
121	CCB10	CCB10	CCB	03/11/25 19:18		Kareem	OK
122	Q1538-01L	BELL-25-0004L	SD	03/11/25 19:22	Method 6020B Sample in login	Kareem	Not Ok
123	CCV11	CCV11	CCV	03/11/25 19:26		Kareem	OK
124	CCB11	CCB11	CCB	03/11/25 19:31		Kareem	OK
125	Q1538-01	BELL-25-0004	SAM	03/11/25 19:35	Method 6020B Sample in login	Kareem	Not Ok
126	CCV12	CCV12	CCV	03/11/25 19:39		Kareem	OK
127	CCB12	CCB12	CCB	03/11/25 19:49		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135035

Review By	jaswal	Review On	3/14/2025 1:24:23 PM
Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/13/25 11:42		Kareem	OK
2	S1	S1	CAL2	03/13/25 11:46		Kareem	OK
3	S2	S2	CAL3	03/13/25 11:50		Kareem	OK
4	S3	S3	CAL4	03/13/25 11:54		Kareem	OK
5	S4	S4	CAL5	03/13/25 11:59		Kareem	OK
6	S5	S5	CAL6	03/13/25 12:03		Kareem	OK
7	ICV01	ICV01	ICV	03/13/25 12:07		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/13/25 12:13		Kareem	OK
9	ICB01	ICB01	ICB	03/13/25 12:17		Kareem	OK
10	CRI01	CRI01	CRDL	03/13/25 12:21		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/13/25 12:25		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/13/25 12:30		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/13/25 12:34		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/13/25 12:38		Kareem	OK
15	CCV01	CCV01	CCV	03/13/25 12:53		Kareem	OK
16	CCB01	CCB01	CCB	03/13/25 12:58		Kareem	OK
17	PB166963BL	PB166963BL	MB	03/13/25 13:02		Kareem	OK
18	PB166963BS	PB166963BS	LCS	03/13/25 13:06		Kareem	OK

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Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
LCS Standard	
Chk Standard	MP84649,MP84650

19	PB167116BL	PB167116BL	MB	03/13/25 13:10		Kareem	OK
20	PB167116BS	PB167116BS	LCS	03/13/25 13:15		Kareem	OK
21	Q1485-01	DN-B-41	SAM	03/13/25 13:19		Kareem	OK
22	Q1486-01	DN-B-40	SAM	03/13/25 13:23		Kareem	OK
23	Q1487-01	DN-B-42	SAM	03/13/25 13:27		Kareem	OK
24	Q1488-04	ENV-101-SB02	SAM	03/13/25 13:31		Kareem	OK
25	Q1488-06	ENV-102-SB01	SAM	03/13/25 13:35		Kareem	OK
26	Q1488-08	ENV-102-SB02	SAM	03/13/25 13:40		Kareem	OK
27	CCV02	CCV02	CCV	03/13/25 13:49		Kareem	OK
28	CCB02	CCB02	CCB	03/13/25 13:54		Kareem	OK
29	Q1488-10	ENV-104-SB01	SAM	03/13/25 13:58		Kareem	OK
30	Q1488-12	ENV-104-SB02	SAM	03/13/25 14:02		Kareem	OK
31	Q1488-14	ENV-104-GW01	SAM	03/13/25 14:07		Kareem	OK
32	Q1488-01	ENV-101-SB01	SAM	03/13/25 14:11		Kareem	OK
33	Q1488-03	ENV-101-SB02	SAM	03/13/25 14:15		Kareem	OK
34	Q1488-05	ENV-102-SB01	SAM	03/13/25 14:19		Kareem	OK
35	Q1488-07	ENV-102-SB02	SAM	03/13/25 14:23		Kareem	OK
36	Q1488-09	ENV-104-SB01	SAM	03/13/25 14:27		Kareem	OK
37	Q1488-11	ENV-104-SB02	SAM	03/13/25 14:31		Kareem	OK
38	Q1491-02	COMP	SAM	03/13/25 14:35		Kareem	OK

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Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
LCS Standard	
Chk Standard	MP84649,MP84650

39	CCV03	CCV03	CCV	03/13/25 14:40		Kareem	OK
40	CCB03	CCB03	CCB	03/13/25 14:48		Kareem	OK
41	Q1495-01	001-WILLETS-PT-BL	SAM	03/13/25 14:53		Kareem	OK
42	Q1495-02	002-35TH-AVE(MAR)	SAM	03/13/25 14:57		Kareem	OK
43	Q1514-02	ENV-105-SB01	SAM	03/13/25 15:01		Kareem	OK
44	Q1514-04	ENV-105-SB02	SAM	03/13/25 15:06		Kareem	OK
45	Q1514-06	ENV-103-SB01	SAM	03/13/25 15:10		Kareem	OK
46	Q1514-06DUP	ENV-103-SB01DUP	DUP	03/13/25 15:15		Kareem	OK
47	Q1514-06L	ENV-103-SB01L	SD	03/13/25 15:19		Kareem	OK
48	Q1514-06MS	ENV-103-SB01MS	MS	03/13/25 15:23		Kareem	OK
49	Q1514-06MSD	ENV-103-SB01MSD	MSD	03/13/25 15:28		Kareem	OK
50	Q1514-06A	ENV-103-SB01A	PS	03/13/25 15:34		Kareem	OK
51	CCV04	CCV04	CCV	03/13/25 15:38		Kareem	OK
52	CCB04	CCB04	CCB	03/13/25 15:42		Kareem	OK
53	Q1514-08	ENV-103-GW01	SAM	03/13/25 15:46		Kareem	OK
54	Q1514-09	FB03062025	SAM	03/13/25 15:51		Kareem	OK
55	Q1514-01	ENV-105-SB01	SAM	03/13/25 15:55		Kareem	OK
56	Q1514-03	ENV-105-SB02	SAM	03/13/25 15:59		Kareem	OK
57	Q1514-05	ENV-103-SB01	SAM	03/13/25 16:03		Kareem	OK
58	Q1525-01	MW10	SAM	03/13/25 16:08	Mn high	Kareem	Dilution

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Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM

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ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
LCS Standard	
Chk Standard	MP84649,MP84650

59	Q1552-01	NB-418-JB-COMP-01	SAM	03/13/25 16:12		Kareem	OK
60	Q1553-01	RT2321	SAM	03/13/25 16:16		Kareem	OK
61	Q1556-01	OR-02-031225	SAM	03/13/25 16:20	MS,MSD fail for many parameters	Kareem	Not Ok
62	Q1556-01DUP	OR-02-031225DUP	DUP	03/13/25 16:24	MS,MSD fail for many parameters	Kareem	Not Ok
63	CCV05	CCV05	CCV	03/13/25 16:28		Kareem	OK
64	CCB05	CCB05	CCB	03/13/25 16:32		Kareem	OK
65	Q1556-01L	OR-02-031225L	SD	03/13/25 16:37	MS,MSD fail for many parameters	Kareem	Not Ok
66	Q1556-01MS	OR-02-031225MS	MS	03/13/25 16:41	Fail for many parameters	Kareem	Not Ok
67	Q1556-01MSD	OR-02-031225MSD	MSD	03/13/25 16:45	Fail for many parameters	Kareem	Not Ok
68	Q1556-01A	OR-02-031225A	PS	03/13/25 16:49	MS,MSD fail for many parameters	Kareem	Not Ok
69	LR1	LR1	HIGH STD	03/13/25 16:53		Kareem	OK
70	LR2	LR2	HIGH STD	03/13/25 16:58		Kareem	OK
71	PB167103TB	PB167103TB	MB	03/13/25 17:04		Kareem	OK
72	Q1547-05	OR-620-JB-COMP-01	SAM	03/13/25 17:08		Kareem	OK
73	Q1547-05DUP	OR-620-JB-COMP-01	DUP	03/13/25 17:13		Kareem	OK
74	Q1547-05L	OR-620-JB-COMP-01	SD	03/13/25 17:17		Kareem	OK
75	CCV06	CCV06	CCV	03/13/25 17:21		Kareem	OK
76	CCB06	CCB06	CCB	03/13/25 17:25		Kareem	OK
77	Q1547-05MS	OR-620-JB-COMP-01	MS	03/13/25 17:30		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB135035

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Supervise By	Mohan	Supervise On	3/14/2025 1:33:41 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84846,MP84640,MP84639,MP84638,MP84637
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84640
LCS Standard	
Chk Standard	MP84649,MP84650

78	Q1547-05MSD	OR-620-JB-COMP-01	MSD	03/13/25 17:34		Kareem	OK
79	Q1547-05A	OR-620-JB-COMP-01	PS	03/13/25 17:38		Kareem	OK
80	Q1547-10	OR-620-JB-COMP-02	SAM	03/13/25 17:42		Kareem	OK
81	Q1552-05	NB-418-JB-COMP-01	SAM	03/13/25 17:47		Kareem	OK
82	PB167117BL	PB167117BL	MB	03/13/25 17:51		Kareem	OK
83	PB167117BS	PB167117BS	LCS	03/13/25 17:55		Kareem	OK
84	Q1525-01DL	MW10DL	SAM	03/13/25 17:59	5X for Mn	Kareem	Confirms
85	Q1488-13DL	ENV-102-GW01DL	SAM	03/13/25 18:04	10X for Ag	Kareem	Confirms
86	Q1514-07DL	ENV-105-GW01DL	SAM	03/13/25 18:08	10X for Ca,Ag,Fe	Kareem	Confirms
87	CCV07	CCV07	CCV	03/13/25 18:12		Kareem	OK
88	CCB07	CCB07	CCB	03/13/25 18:35		Kareem	OK
89	Q1488-13	ENV-102-GW01	SAM	03/13/25 18:39	Ag oversaturated	Kareem	Dilution
90	Q1514-07	ENV-105-GW01	SAM	03/13/25 18:44	Ag oversaturated,Ca,Fe high	Kareem	Dilution
91	Q1488-13REDL	ENV-102-GW01RE	SAM	03/13/25 18:49	Not used	Kareem	Not Ok
92	CCV08	CCV08	CCV	03/13/25 18:53		Kareem	OK
93	CCB08	CCB08	CCB	03/13/25 19:03		Kareem	OK
94	Q1528-02	22725	SAM	03/13/25 19:07		Kareem	OK
95	CCV09	CCV09	CCV	03/13/25 19:12		Kareem	OK
96	CCB09	CCB09	CCB	03/13/25 19:21		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB135063

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/17/25 14:05		Kareem	OK
2	S1	S1	CAL2	03/17/25 14:09		Kareem	OK
3	S2	S2	CAL3	03/17/25 14:14		Kareem	OK
4	S3	S3	CAL4	03/17/25 14:18		Kareem	OK
5	S4	S4	CAL5	03/17/25 14:22		Kareem	OK
6	S5	S5	CAL6	03/17/25 14:27		Kareem	OK
7	ICV01	ICV01	ICV	03/17/25 14:31	ICV01 Fail for Be (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	03/17/25 14:38		Kareem	OK
9	ICB01	ICB01	ICB	03/17/25 14:43		Kareem	OK
10	CRI01	CRI01	CRDL	03/17/25 14:47		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/17/25 14:51		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/17/25 15:02		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/17/25 15:06		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/17/25 15:11		Kareem	OK
15	CCV01	CCV01	CCV	03/17/25 15:15		Kareem	OK
16	CCB01	CCB01	CCB	03/17/25 15:27		Kareem	OK
17	PB167007BL	PB167007BL	MB	03/17/25 15:31		Kareem	OK
18	PB167007BS	PB167007BS	LCS	03/17/25 15:35		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135063

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

19	PB167119BL	PB167119BL	MB	03/17/25 15:39		Kareem	OK
20	PB167119BS	PB167119BS	LCS	03/17/25 15:44		Kareem	OK
21	Q1543-01	ISB878MW02	SAM	03/17/25 15:48		Kareem	OK
22	Q1543-02	ISB878MW05	SAM	03/17/25 15:52	Ca, Na High	Kareem	Dilution
23	Q1543-02DUP	ISB878MW05DUP	DUP	03/17/25 15:56	Ca, Na High	Kareem	Dilution
24	Q1543-02L	ISB878MW05L	SD	03/17/25 16:01	Na High	Kareem	Dilution
25	Q1543-02MS	ISB878MW05MS	MS	03/17/25 16:05	Ca, Ag High	Kareem	Dilution
26	Q1543-02MSD	ISB878MW05MSD	MSD	03/17/25 16:09	Ca, Ag High	Kareem	Dilution
27	CCV02	CCV02	CCV	03/17/25 16:13		Kareem	OK
28	CCB02	CCB02	CCB	03/17/25 16:17		Kareem	OK
29	Q1553-03	FRAC-TANK-FMI120	SAM	03/17/25 16:22	Ca,Fe,Na,Zn High	Kareem	Dilution
30	Q1543-02A	ISB878MW05A	PS	03/17/25 16:26		Kareem	OK
31	Q1568-04	JC-03-03132025	SAM	03/17/25 16:30		Kareem	OK
32	Q1568-04DUP	JC-03-03132025DUP	DUP	03/17/25 16:35		Kareem	OK
33	Q1568-04L	JC-03-03132025L	SD	03/17/25 16:39		Kareem	OK
34	Q1568-04MS	JC-03-03132025MS	MS	03/17/25 16:43	,	Kareem	OK
35	Q1568-04MSD	JC-03-03132025MSD	MSD	03/17/25 16:47		Kareem	OK
36	Q1568-04A	JC-03-03132025A	PS	03/17/25 16:52		Kareem	OK
37	PB167133TB	PB167133TB	MB	03/17/25 16:56		Kareem	OK
38	PB167161BL	PB167161BL	MB	03/17/25 17:00		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135063

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

39	CCV03	CCV03	CCV	03/17/25 17:05		Kareem	OK
40	CCB03	CCB03	CCB	03/17/25 17:09		Kareem	OK
41	PB167161BS	PB167161BS	LCS	03/17/25 17:13		Kareem	OK
42	Q1566-01	CTWK-COMP	SAM	03/17/25 17:17	Al,Fe High	Kareem	Dilution
43	Q1568-01	JC-03-03132025	SAM	03/17/25 17:21	Al,Fe High	Kareem	Dilution
44	Q1568-01DUP	JC-03-03132025DUP	DUP	03/17/25 17:25	Al,Fe High	Kareem	Dilution
45	Q1568-01L	JC-03-03132025L	SD	03/17/25 17:29	Fe High	Kareem	Dilution
46	Q1568-01MS	JC-03-03132025MS	MS	03/17/25 17:34	Al,Fe High	Kareem	Dilution
47	Q1568-01MSD	JC-03-03132025MSD	MSD	03/17/25 17:38	Al,Fe High	Kareem	Dilution
48	Q1568-01A	JC-03-03132025A	PS	03/17/25 17:43		Kareem	OK
49	CCV04	CCV04	CCV	03/17/25 17:51		Kareem	OK
50	CCB04	CCB04	CCB	03/17/25 17:55		Kareem	OK
51	LR1	LR1	HIGH STD	03/17/25 17:59		Kareem	OK
52	LR2	LR2	HIGH STD	03/17/25 18:04		Kareem	OK
53	PB167132BL	PB167132BL	MB	03/17/25 18:10		Kareem	OK
54	PB167132BS	PB167132BS	LCS	03/17/25 18:14		Kareem	OK
55	CCV05	CCV05	CCV	03/17/25 18:18		Kareem	OK
56	CCB05	CCB05	CCB	03/17/25 18:22		Kareem	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q1495

Test : Metals Group 9

Prepbatch ID : PB167007,

Sequence ID/Qc Batch ID: LB134987,LB135035,LB135035,LB135063,

Standard ID :
MP84041,MP84636,MP84637,MP84638,MP84639,MP84640,MP84643,MP84644,MP84646,MP84649,MP84650,MP84720,MP84721,MP84845,MP84846,

Chemical ID :
M4883,M4891,M5218,M5288,M5296,M5395,M5429,M5467,M5472,M5497,M5658,M5697,M5698,M5747,M5748,M5769,M5789,M5792,M5798,M5799,M5800,M5801,M5806,M5808,M5811,M5814,M5815,M5816,M5817,M5820,M5875,M5959,M5970,M5978,M5985,M6003,M6011,M6021,M6023,M6028,M6030,M6032,M6077,M6126,M6137,M6146,M6150,M6151,M6152,M6155,M6156,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP84041	01/14/2025	07/14/2025	Eman Mughal	None	None	Sarabjit Jaswal 01/16/2025

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP84636	02/25/2025	03/25/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 02/28/2025

FROM 125.00000ml of M5792 + 2350.00000ml of W3112 + 25.00000ml of M5789 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
907	ICP AES STD S (S5)	MP84637	02/25/2025	03/25/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 02/28/2025

FROM 5.00000ml of M5395 + 5.00000ml of M5467 + 5.00000ml of M5472 + 5.00000ml of M5816 + 5.00000ml of M5820 + 5.00000ml of M5875 + 5.00000ml of M5970 + 5.00000ml of M6077 + 5.00000ml of M6146 + 455.00000ml of MP84636 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
910	ICP AES STD S4	MP84638	02/25/2025	03/25/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 02/28/2025

FROM 50.00000ml of MP84636 + 50.00000ml of MP84637 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
909	ICP AES STD S3	MP84639	02/25/2025	03/25/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 02/28/2025

FROM 25.00000ml of MP84637 + 75.00000ml of MP84636 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3913	ICP AES STD S2	MP84640	02/25/2025	03/25/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 02/28/2025

FROM 16.00000ml of MP84637 + 184.00000ml of MP84636 = Final Quantity: 200.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
912	ICP AES ICV SOLN	MP84643	02/25/2025	03/25/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 02/28/2025

FROM 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.10000ml of M5467 + 0.25000ml of M5218 + 0.25000ml of M5472 + 10.00000ml of M6150 + 89.77500ml of MP84636 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP84644	02/24/2025	03/25/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 02/28/2025

FROM 25.00000ml of M6152 + 225.00000ml of MP84636 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
911	ICP AES CCV SOLN	MP84646	02/25/2025	03/25/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 02/28/2025

FROM 50.00000ml of MP84636 + 50.00000ml of MP84637 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP84649	02/25/2025	03/25/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 02/28/2025

FROM 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M5789 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
513	RINSE SOLN	MP84650	02/25/2025	03/25/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 02/28/2025

FROM 200.00000ml of M5789 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP84720	03/03/2025	04/04/2025	Sagar Kanani	None	METALS_PIPETTE_1 (ICPA)	Sarabjit Jaswal 03/03/2025

FROM 1000.00000ml of M6151 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3494	ICP AES ICSAB SOLN-1	MP84721	02/25/2025	03/25/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 02/28/2025

FROM 0.01000ml of M5815 + 0.01000ml of M5817 + 0.10000ml of M5296 + 0.10000ml of M5472 + 0.10000ml of M5970 + 10.00000ml of M6152 + 10.00000ml of M6155 + 79.50000ml of MP84636 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2950	ICP AES S1/CRI STOCK STD	MP84845	03/09/2025	03/25/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 03/11/2025

FROM 0.03000ml of M5798 + 0.03000ml of M6028 + 0.04000ml of M6137 + 0.05000ml of M5658 + 0.05000ml of M5808 + 0.05000ml of M5811 + 0.05000ml of M6030 + 0.06000ml of M5747 + 0.10000ml of M4883 + 0.10000ml of M5472 + 0.10000ml of M5697 + 0.10000ml of M5698 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5970 + 0.15000ml of M5800 + 0.20000ml of M4891 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.25000ml of M5467 + 0.25000ml of M6146 + 0.50000ml of M5814 + 0.50000ml of M6032 + 1.00000ml of M5288 + 1.00000ml of M5497 + 1.00000ml of M5769 + 1.00000ml of M5806 + 1.00000ml of M5978 + 1.00000ml of M6156 + 2.00000ml of M5816 + 77.68000ml of MP84636 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2951	ICP AES S1/CRI WORK STD	MP84846	03/09/2025	03/25/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 03/11/2025

FROM 2.00000ml of MP84845 + 98.00000ml of MP84636 = Final Quantity: 100.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	070221	09/07/2025	08/06/2021 / jaswal	08/05/2021 / jaswal	M4883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	031921	05/19/2025	08/25/2021 / bin	08/05/2021 / jaswal	M4891

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	S2-MEB711674	11/02/2026	07/01/2022 / bin	09/10/2021 / bin	M5218

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	S2-MEB711673	11/02/2026	09/19/2022 / jaswal	08/20/2022 / jaswal	M5296

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	01/30/2024 / bin	09/19/2022 / bin	M5395

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57058 / Cerium, 1000PPM, 100ML	020623	02/06/2026	03/06/2023 / bin	03/01/2023 / bin	M5467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	01/14/2025 / Jaswal	03/16/2023 / jaswal	M5472

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	100923	10/09/2026	05/20/2024 / Jaswal	12/20/2023 / jaswal	M5747

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Nickel (Ni) 1000PPM	091223	09/12/2026	01/02/2024 / bin	12/20/2023 / jaswal	M5748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23G1262003	07/30/2025	02/08/2024 / Al-Terek	06/26/2023 / Al-Terek	M5789

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22D1462006	08/05/2025	02/05/2024 / Al-Terek	02/24/2022 / Al-Terek	M5792

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	122926	12/29/2026	12/18/2024 / janvi	01/03/2024 / jaswal	M5808

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	051523	05/15/2026	02/06/2025 / kareem	01/03/2024 / jaswal	M5811

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57005 / B, 1000 PPM, 125 ml	071123	07/11/2026	03/26/2024 / Sohil	01/03/2024 / jaswal	M5814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	04/19/2024 / jaswal	02/22/2024 / jaswal	M5875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	07/01/2024 / Jaswal	06/14/2024 / Jaswal	M5959

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57003 / Li, 1000 PPM, 125 ml	061224	06/21/2027	07/01/2024 / Jaswal	07/01/2024 / Jaswal	M5970

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml	T2-MEB723367	08/26/2025	02/26/2025 / Eman	05/14/2024 / Jaswal	M6003

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	WW-LFS-2 / Laboratory Fortified Stock Solution 2, 125 ml	U2-MEB731108	07/14/2025	01/14/2025 / Eman	05/14/2024 / Jaswal	M6011

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	V2-MEB746762	09/06/2029	01/23/2025 / kareem	09/19/2024 / kareem	M6077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSI1-1 / SILICON 125mL 1000ug/mL	V2-SI744713	07/10/2029	01/14/2025 / Jaswal	10/03/2024 / Jaswal	M6137

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	071724	07/17/2027	01/31/2025 / kareem	10/18/2024 / kareem	M6146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV1-1014	07/07/2025	02/07/2025 / JANVI	04/20/2021 / JANVI	M6150

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	08/18/2025	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	08/24/2025	02/24/2025 / kareem	04/20/2021 / kareem	M6152

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	06/20/2025	02/10/2025 / kareem	02/09/2024 / kareem	M6155

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	032123	03/21/2026	11/06/2024 / JANVI	06/12/2024 / JANVI	M6156

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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Certified Reference Material CRM

R: 01/03/24 M5808, M5809

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CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 122923
Description: Aluminum (Al)

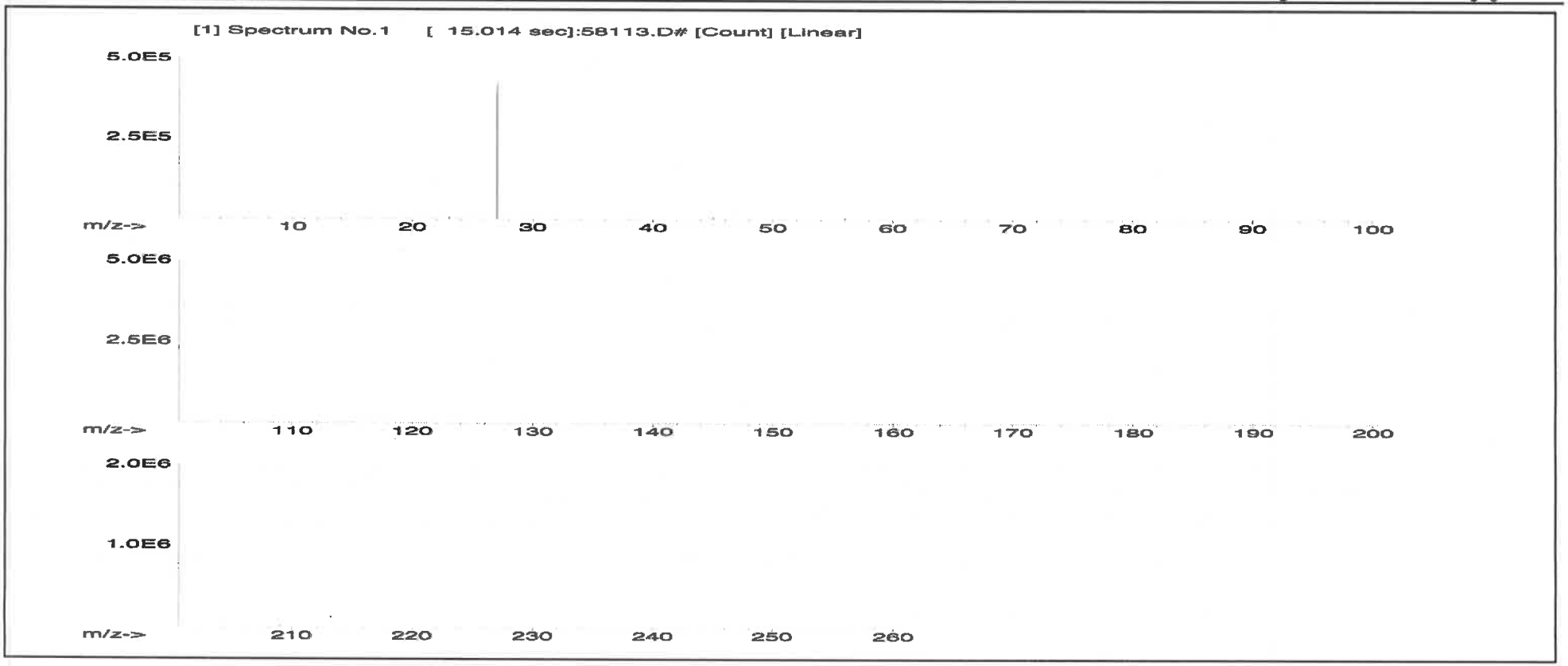
Expiration Date: 122926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALM092022A1	10000	99.999	0.10	7.30	273.9779	273.9813	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	17	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	0.03
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	4.5	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	0.56	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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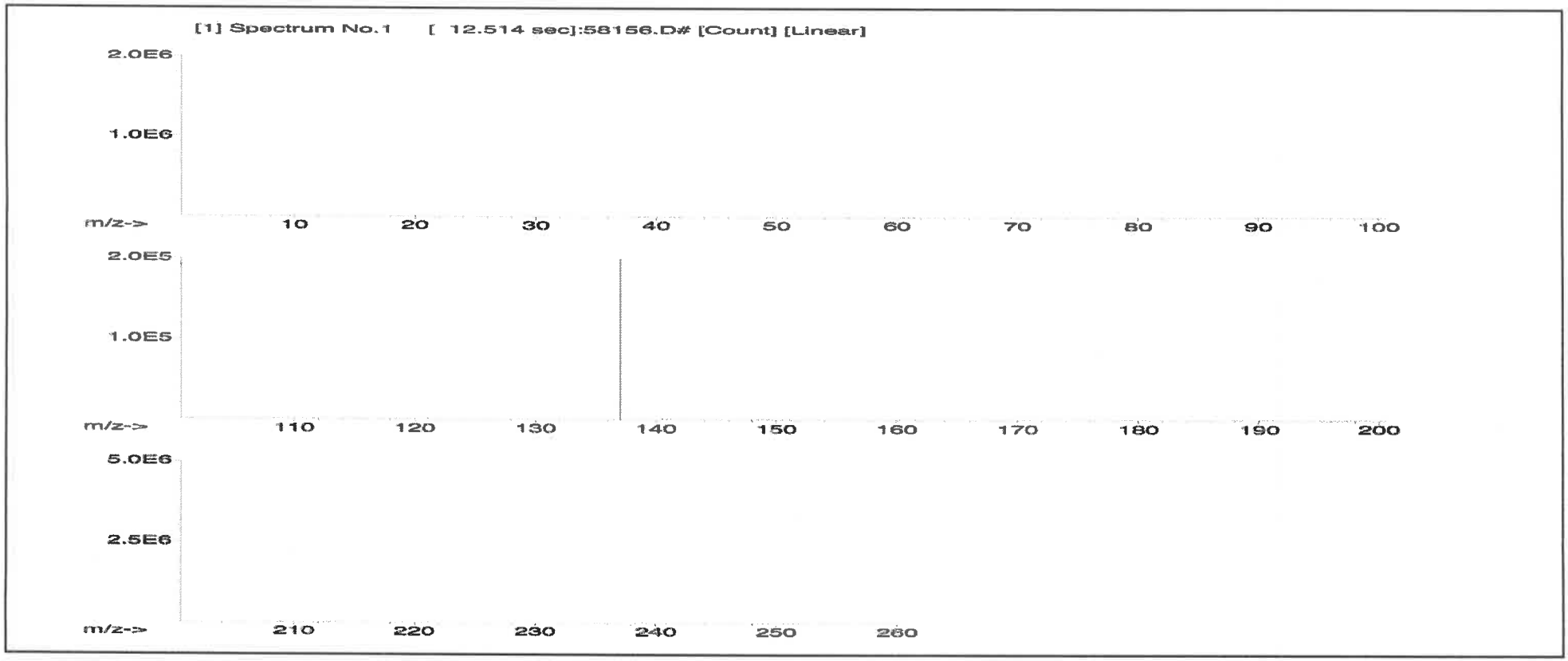
CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	010924
Reviewed By:	Pedro L. Rentas	010924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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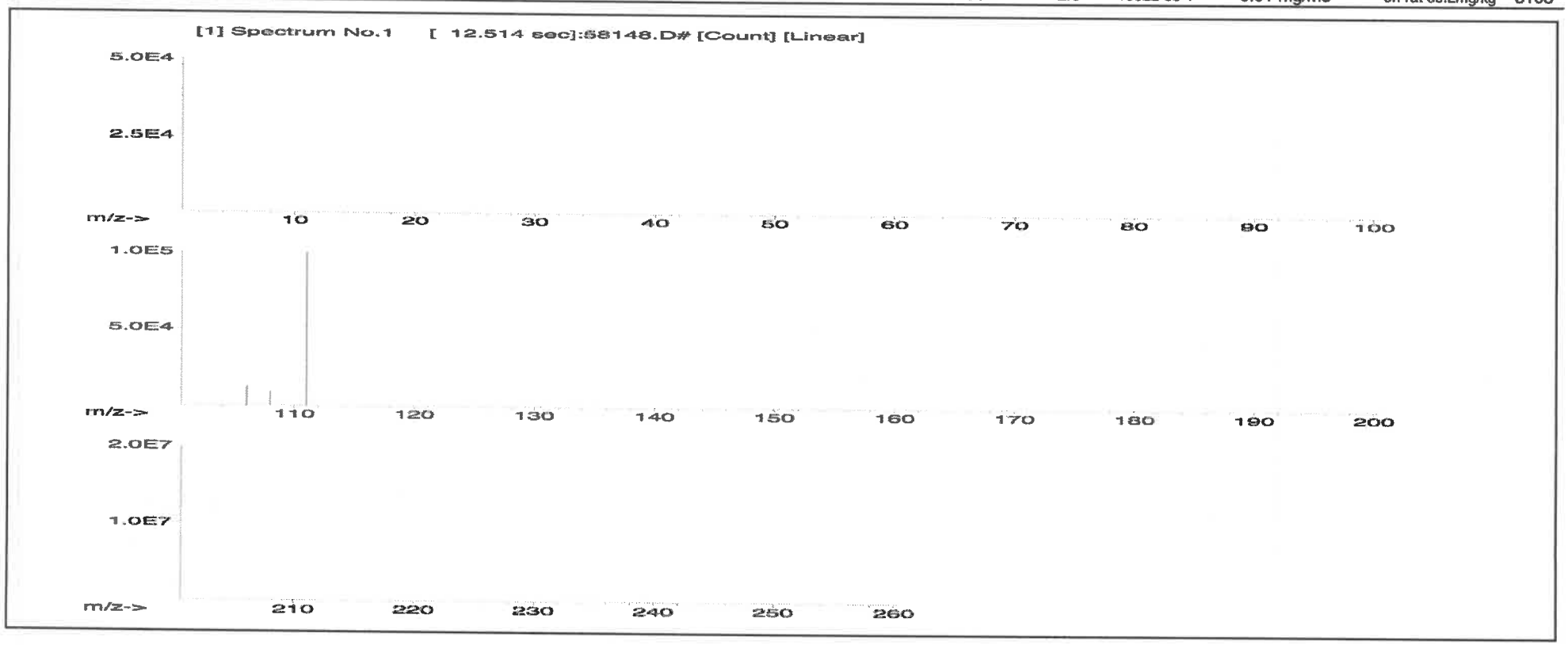
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5296 OP: 09/19/2022 BH

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	S2-MEB711673
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 6 µg/mL**	**Molybdenum, Mo**	**1 000 ± 6 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 6 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.030 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-1
Lot Number:	T2-MEB714417
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**2 000 ± 7 µg/mL**	**Barium, Ba**	**2 000 ± 9 µg/mL**
Beryllium, Be	**50.00 ± 0.26 µg/mL**	**Calcium, Ca**	**5 000 ± 22 µg/mL**
Chromium, Cr	**200.0 ± 1.0 µg/mL**	**Cobalt, Co**	**500.0 ± 2.4 µg/mL**
Copper, Cu	**250.0 ± 1.0 µg/mL**	**Iron, Fe**	**1 000 ± 4 µg/mL**
Magnesium, Mg	**5 000 ± 20 µg/mL**	**Manganese, Mn**	**500.0 ± 2.0 µg/mL**
Nickel, Ni	**500.0 ± 2.2 µg/mL**	**Potassium, K**	**5 000 ± 19 µg/mL**
Silver, Ag	**250.0 ± 1.1 µg/mL**	**Sodium, Na**	**5 000 ± 18 µg/mL**
Vanadium, V	**499.7 ± 2.2 µg/mL**	**Zinc, Zn**	**500.0 ± 2.2 µg/mL**

Density: 1.118 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 27, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

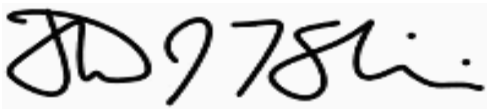
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB714159
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 8 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.1 µg/mL**
Lead, Pb	**1 000 ± 5 µg/mL**	**Selenium, Se**	**1 000 ± 8 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.043 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 13, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 13, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

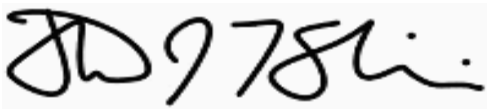
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R : 01/03/24. M5810, M5811

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 051523
Description: Iron (Fe)

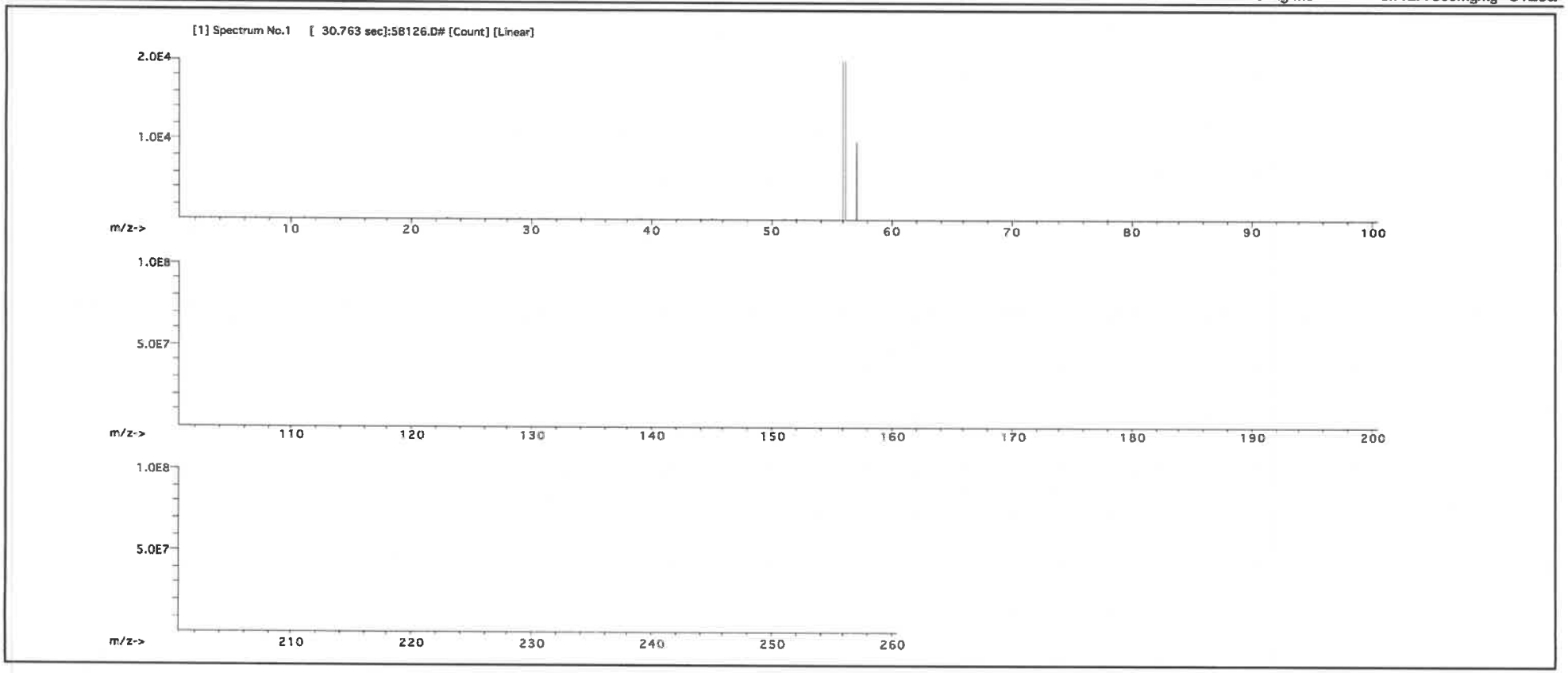
Expiration Date: 051526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1 ± 0.12 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
	5.0%	250.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	051523
Reviewed By:	Pedro L. Rentas	051523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2302010-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.10
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™

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Certificate of Analysis

RD:05/14/2024

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-1
Lot Number:	T2-MEB723367
Matrix:	5% (v/v) HNO3

Value / Analyte(s):	1 000 µg/mL ea: Potassium,	
	600 µg/mL ea: Phosphorus,	
	300 µg/mL ea: Sodium,	Iron,
	200 µg/mL ea: Magnesium, Cerium, Thallium,	Aluminum, Selenium,
	100 µg/mL ea: Lead,	Calcium,
	80 µg/mL ea: Arsenic,	
	70 µg/mL ea: Mercury,	
	50 µg/mL ea: Nickel,	
	40 µg/mL ea: Chromium,	
	30 µg/mL ea: Copper, Vanadium,	Boron,
	20 µg/mL ea: Zinc, Barium, Cadmium, Manganese,	Strontium, Beryllium, Cobalt, Lithium,
	7.5 µg/mL ea: Silver	

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	200.0 ± 0.7 µg/mL	Arsenic, As	80.0 ± 0.7 µg/mL
Barium, Ba	20.00 ± 0.09 µg/mL	Beryllium, Be	20.00 ± 0.13 µg/mL
Boron, B	30.00 ± 0.18 µg/mL	Cadmium, Cd	20.00 ± 0.09 µg/mL
Calcium, Ca	100.0 ± 0.4 µg/mL	Cerium, Ce	200.0 ± 0.8 µg/mL
Chromium, Cr	40.00 ± 0.30 µg/mL	Cobalt, Co	20.00 ± 0.10 µg/mL
Copper, Cu	30.00 ± 0.13 µg/mL	Iron, Fe	300.0 ± 1.3 µg/mL
Lead, Pb	100.0 ± 0.4 µg/mL	Lithium, Li	20.00 ± 0.08 µg/mL
Magnesium, Mg	200.0 ± 0.8 µg/mL	Manganese, Mn	20.00 ± 0.08 µg/mL
Mercury, Hg	70.0 ± 0.3 µg/mL	Nickel, Ni	50.00 ± 0.22 µg/mL
Phosphorus, P	600.0 ± 2.7 µg/mL	Potassium, K	1 000 ± 4 µg/mL
Selenium, Se	200.0 ± 1.3 µg/mL	Silver, Ag	7.50 ± 0.03 µg/mL
Sodium, Na	300.0 ± 1.4 µg/mL	Strontium, Sr	20.01 ± 0.08 µg/mL
Thallium, Tl	200.0 ± 1.4 µg/mL	Vanadium, V	30.00 ± 0.13 µg/mL
Zinc, Zn	20.00 ± 0.09 µg/mL		

Density: 1.034 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
B	ICP Assay	3107	190605
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Ce	ICP Assay	3110	090504
Ce	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	Traceable to 3152A	S2-NA700842
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Tl	ICP Assay	3158	151215
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 30, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 30, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



INORGANIC VENTURES

Refine your results. Redefine your industry.

Certificate of Analysis

RD:05/14/2024

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	WW-LFS-2
Lot Number:	U2-MEB731108
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	200 µg/mL ea: Silica, 80 µg/mL ea: Antimony, 70 µg/mL ea: Tin, 40 µg/mL ea: Molybdenum, 20 µg/mL ea: Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	80.1 ± 0.6 µg/mL	Molybdenum, Mo	40.03 ± 0.18 µg/mL
Silica, SiO2	200.2 ± 1.3 µg/mL	Tin, Sn	70.0 ± 0.4 µg/mL
Titanium, Ti	20.01 ± 0.13 µg/mL		

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
SiO2	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925
Ti	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 17, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 17, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	20370011	Nitric Acid	
Lot Number:	**070221**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070224			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

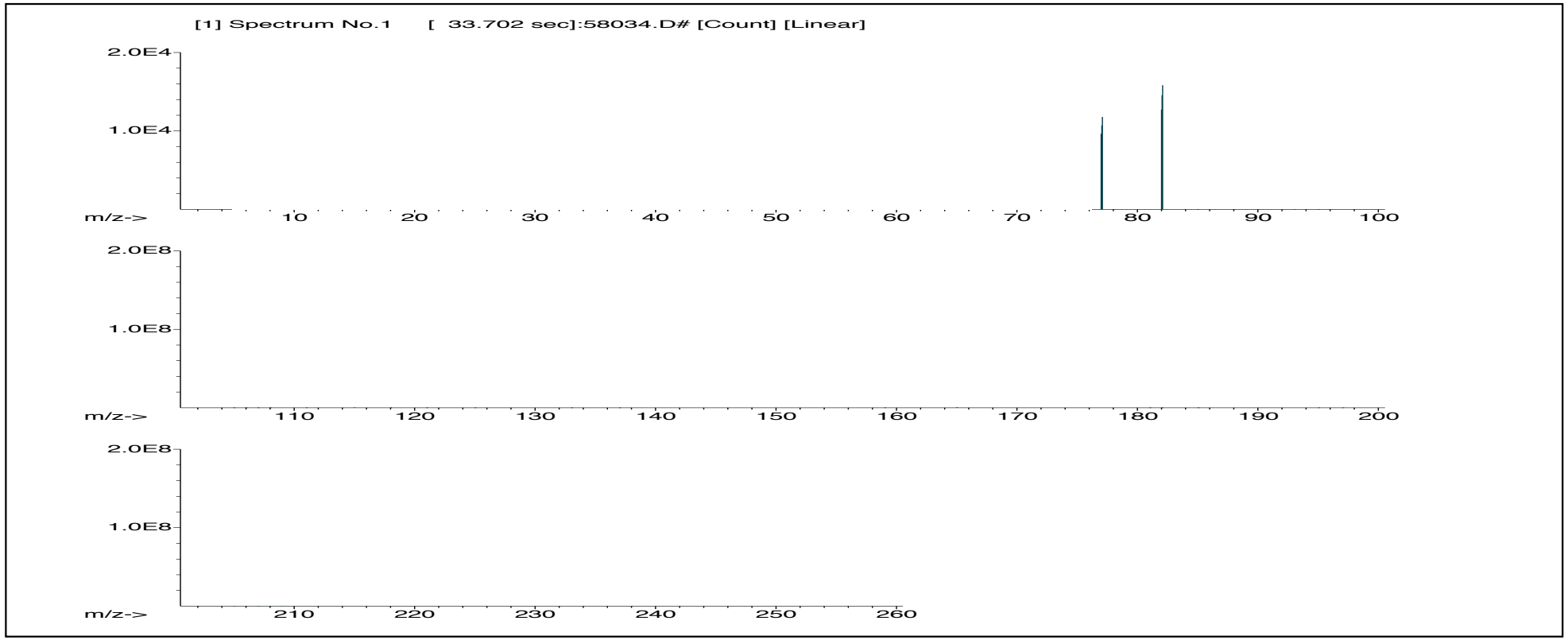
Giovanni Esposito

Formulated By:	Giovanni Esposito	070221

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070221

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium(IV) oxide (Se)	58134	021621	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7446-08-4	0.2 mg/m3	orl-rat 68 mg/kg	3149



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58030**	20370011	Nitric Acid	
Lot Number:	**031921**			
Description:	**Zinc (Zn)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	031924			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

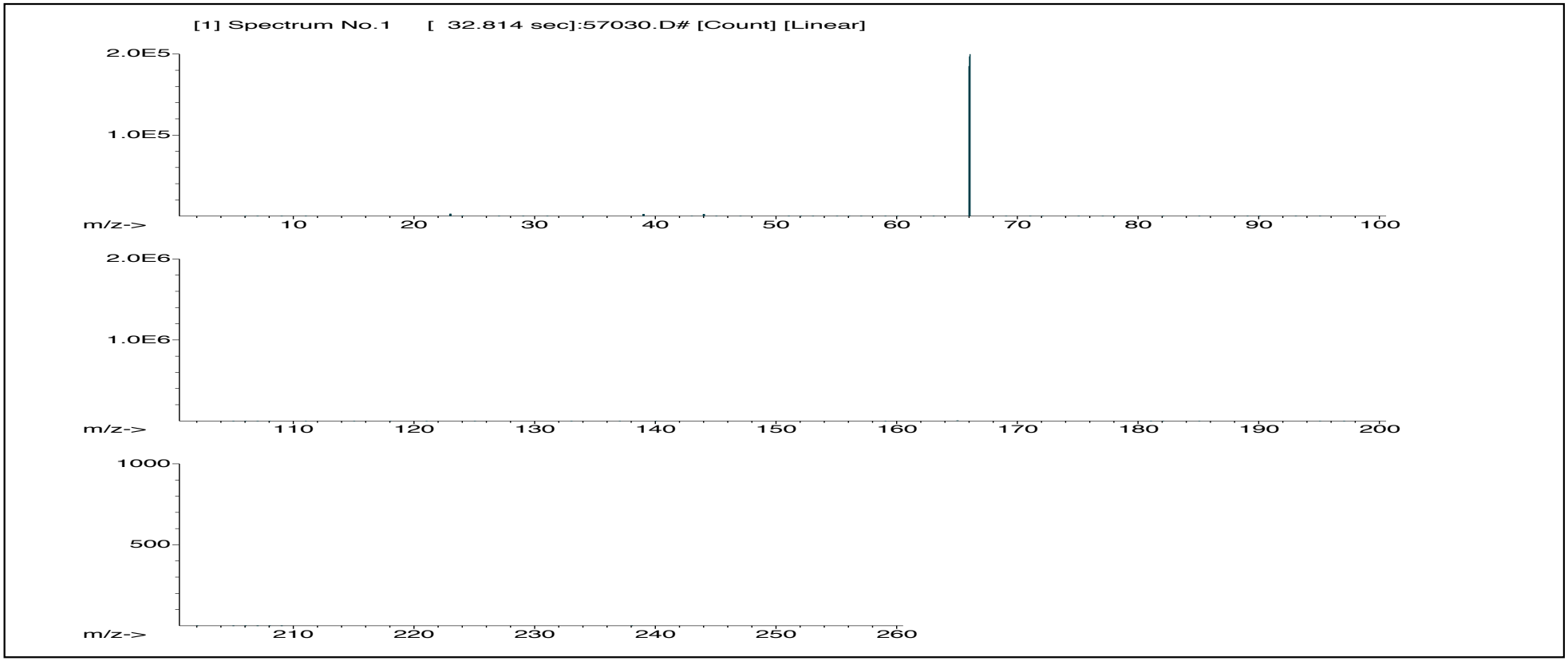
Giovanni Esposito

Formulated By:	Giovanni Esposito	031921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	031921

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	58130	082020	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-QC-4
Lot Number:	S2-MEB711674
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 7 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 001 ± 6 µg/mL**		

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certified Reference Material CRM

M5288 R: 07/21/2022

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CERTIFIED WEIGHT REPORT:

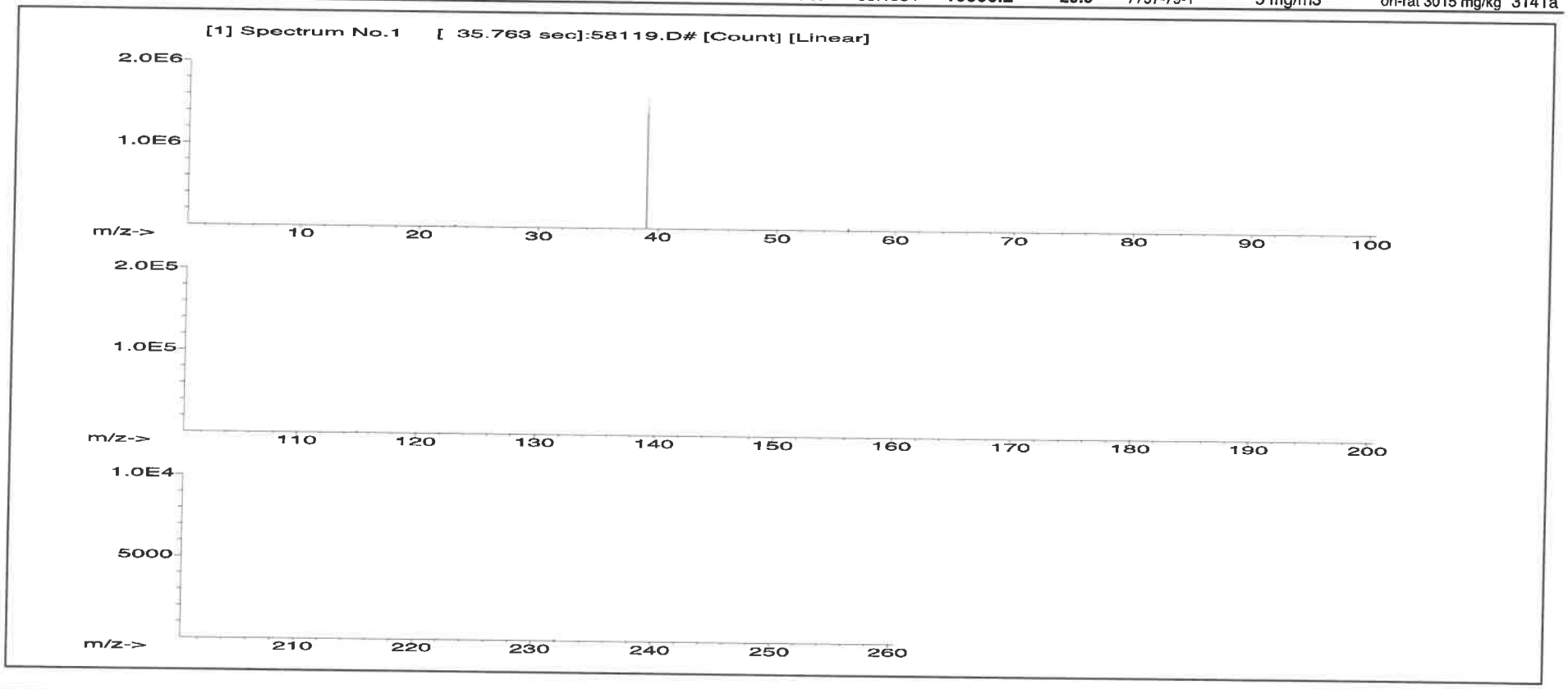
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	071122
Reviewed By:	Pedro L. Rentas	071122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

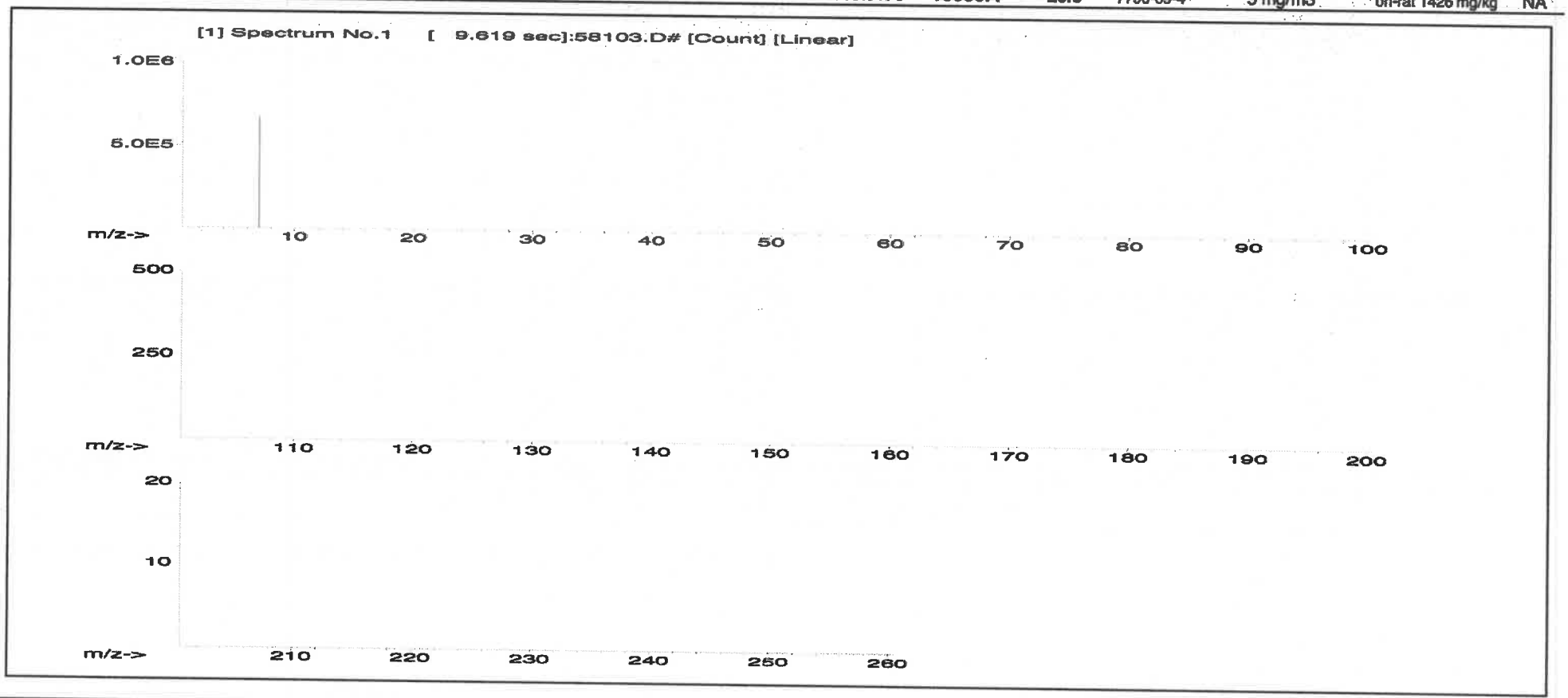
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	IN019	LIZ042018A1	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5467 R: 03/01/23 (LA)

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CERTIFIED WEIGHT REPORT:

Part Number: 57058
Lot Number: 020623
Description: Cerium (Ce)

Expiration Date: 020626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

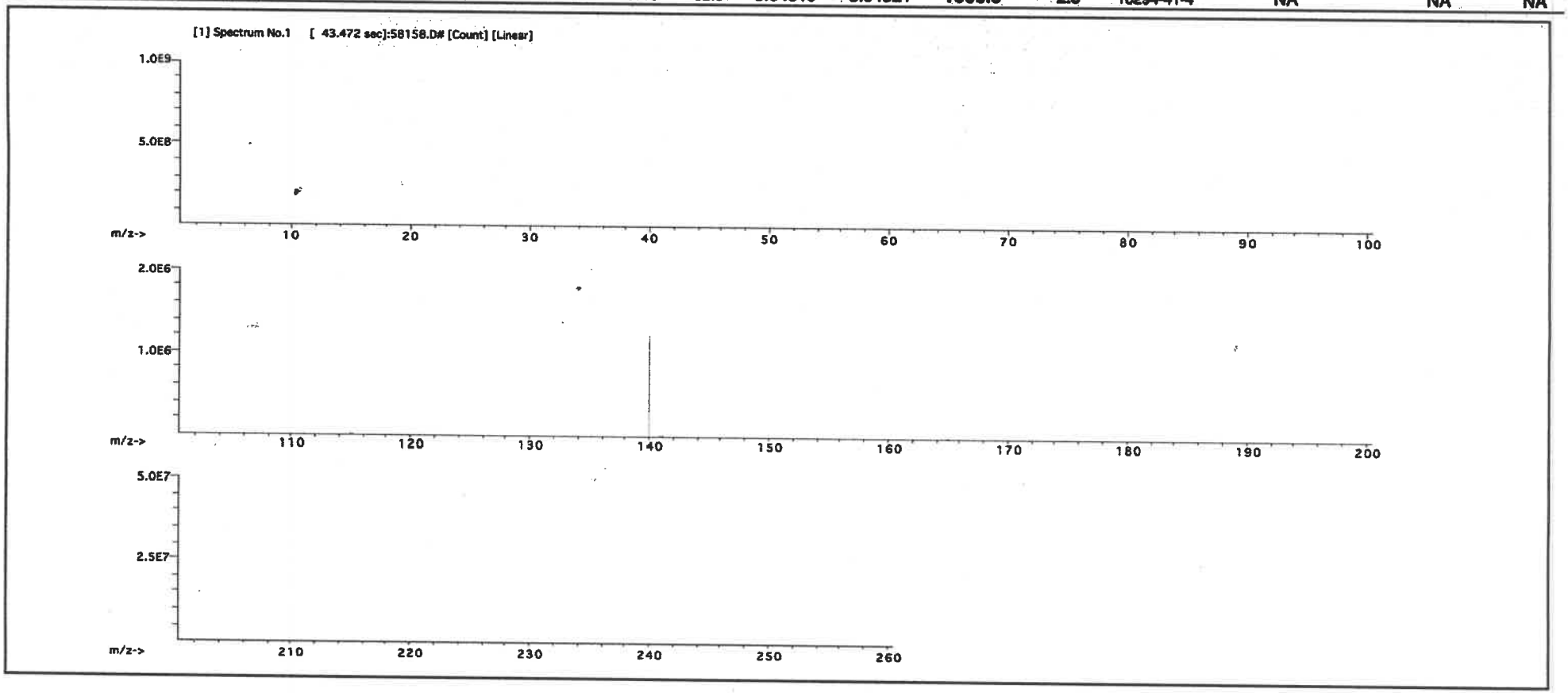
Weight shown below was diluted to (mL): 1000.12 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	020623
Reviewed By:	Pedro L. Rentas	020623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04921	**1000.0**	**2.0**	10294-41-4	NA	NA	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	T	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

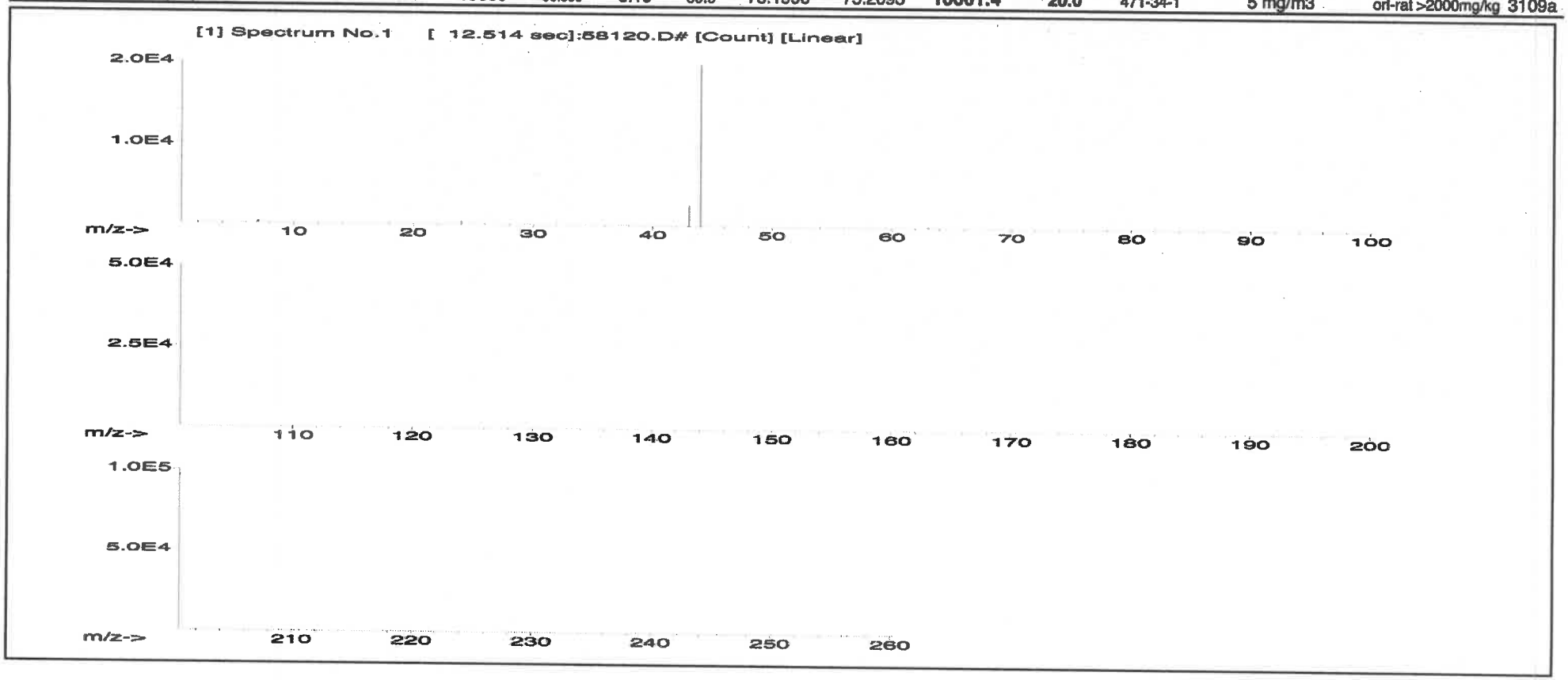
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

		Lot #	
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
Reviewed By:	Pedro L. Rentas	031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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Certified Reference Material CRM

M5658 R ! 8/25/23

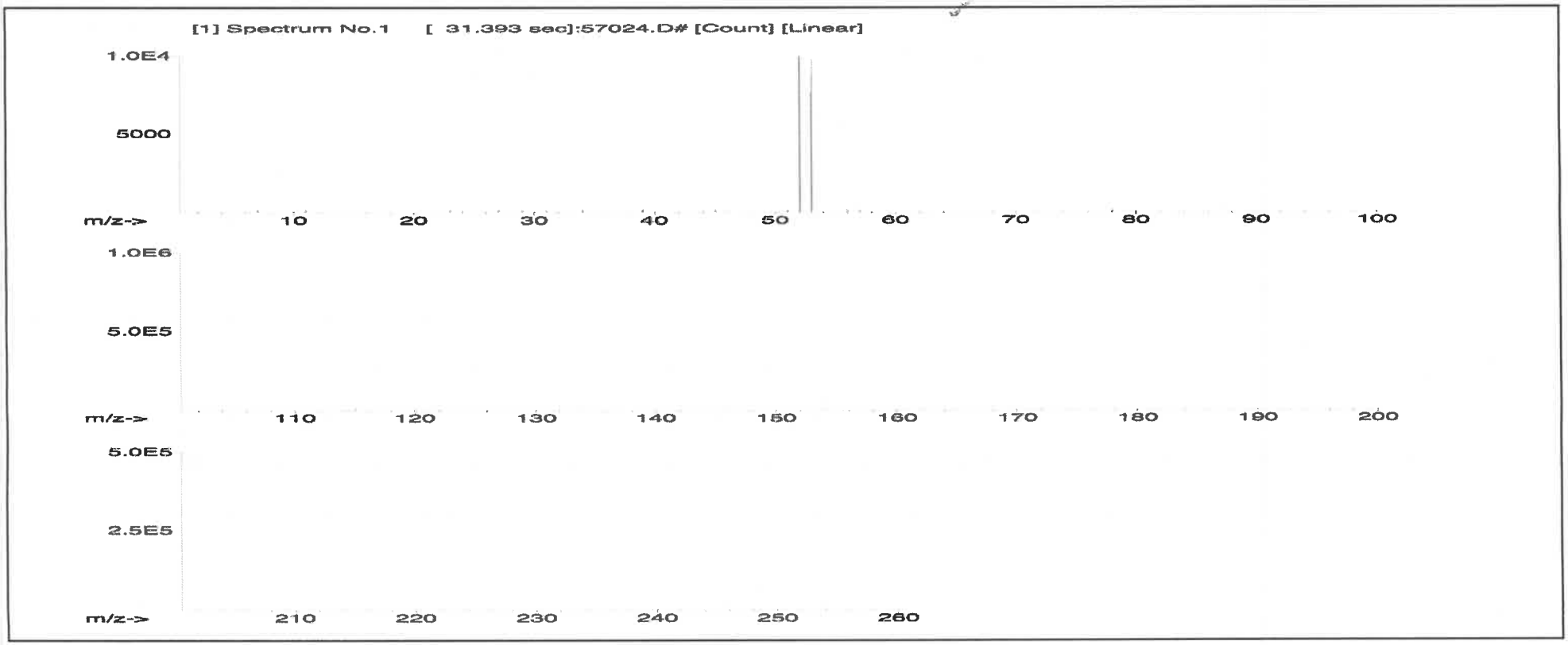
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5697 R: 10/27/23

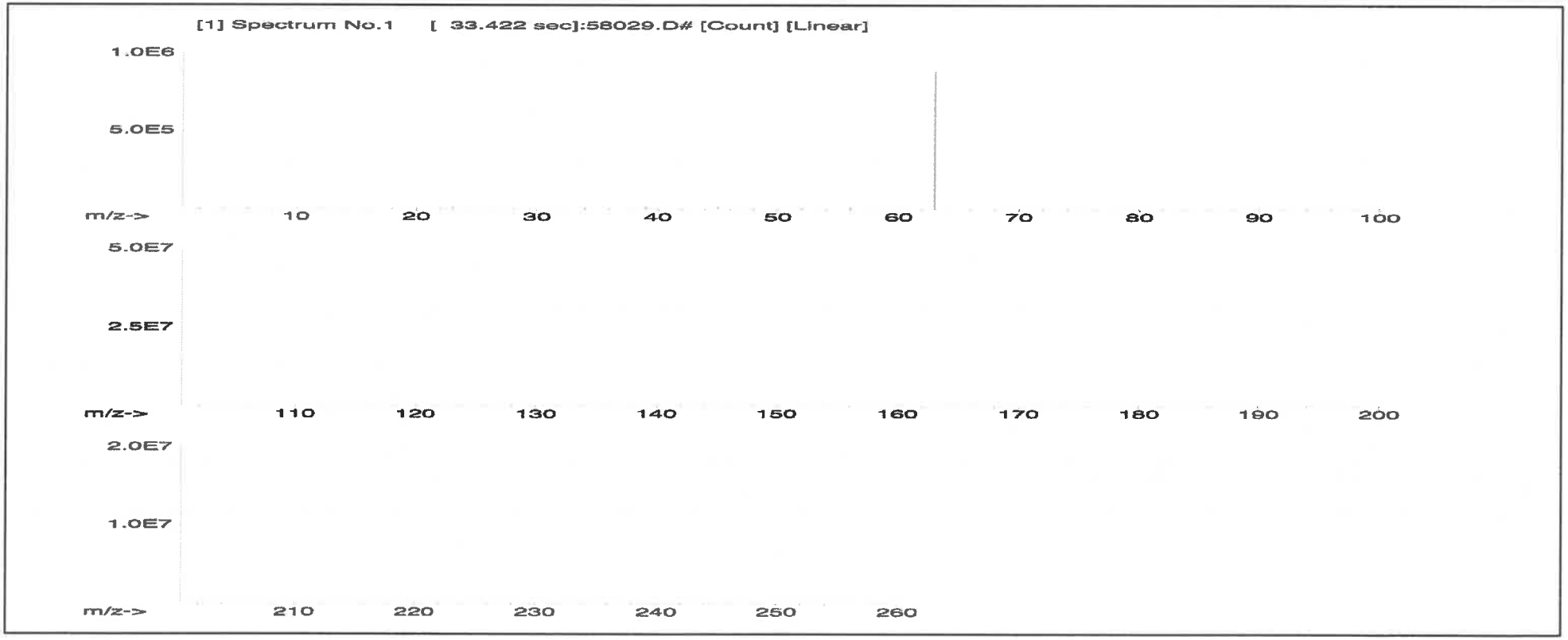
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5648 R: 10/27/23

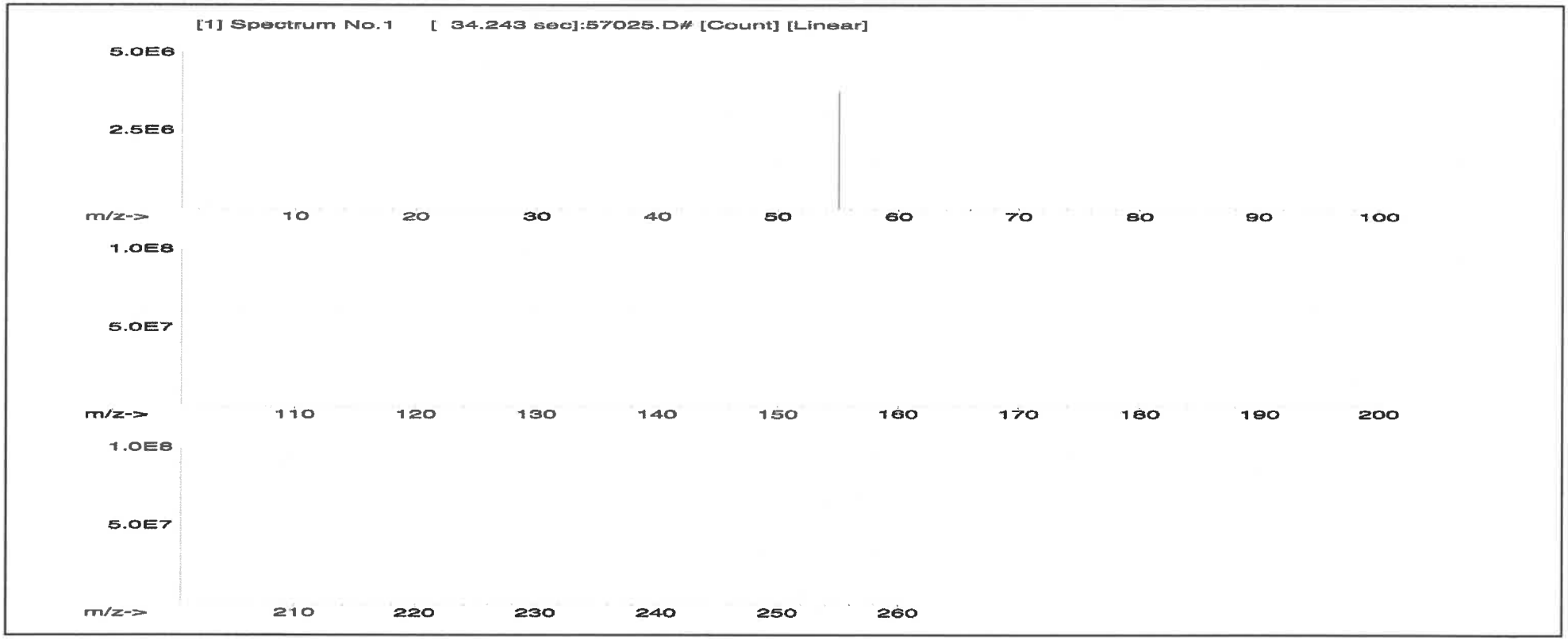
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58025**	24002546	Nitric Acid	
Lot Number:	**102623**			
Description:	**Manganese (Mn)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	102626			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102623
Reviewed By:	Pedro L. Rentas	102623

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	071123	0.1000	300.0	0.084	1000	10000.1	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 12/20/23 M5747

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CERTIFIED WEIGHT REPORT:

Part Number: 57082
Lot Number: 100923
Description: Lead (Pb)

Expiration Date: 100926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

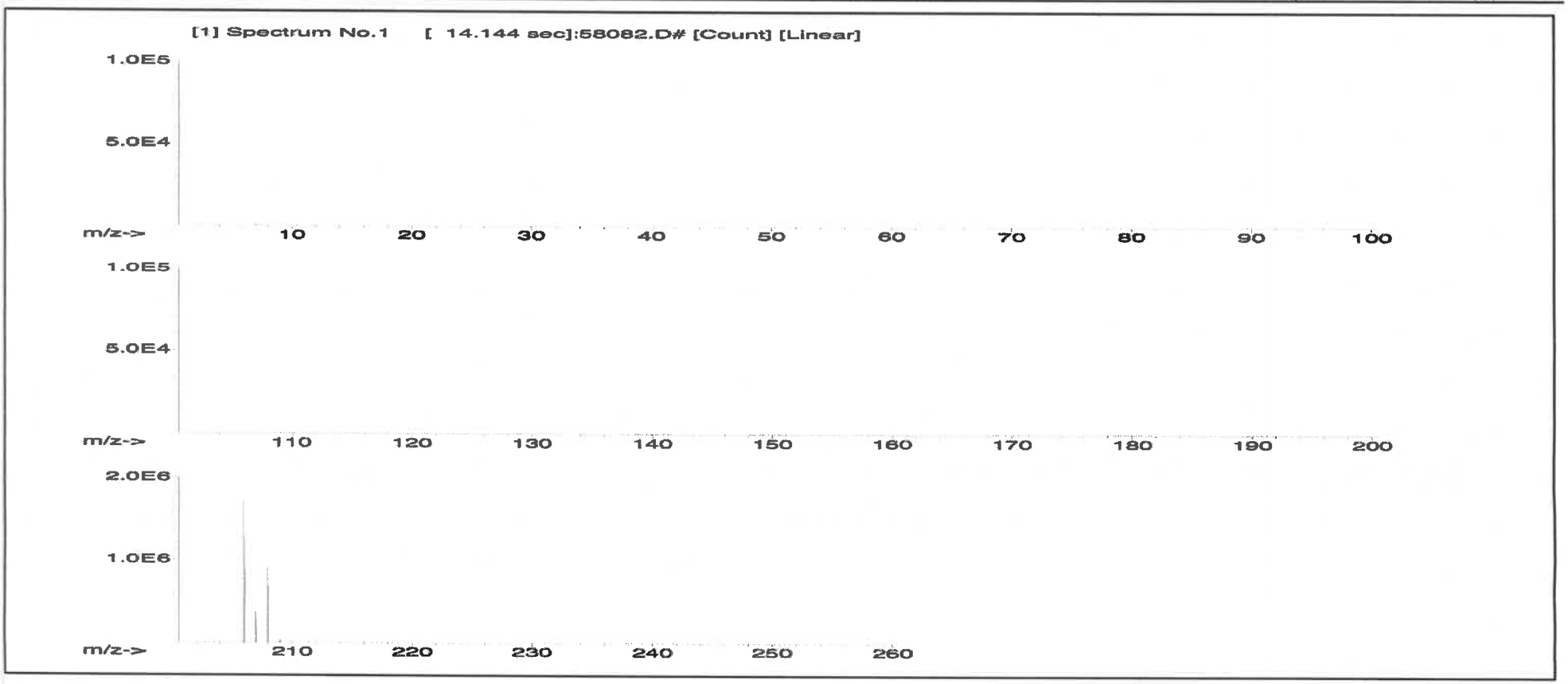
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	100923
Reviewed By:	Pedro L. Rentas	100923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	1000	99.999	0.10	62.5	4.80071	4.80077	**1000.0**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 12/20/23 M5748

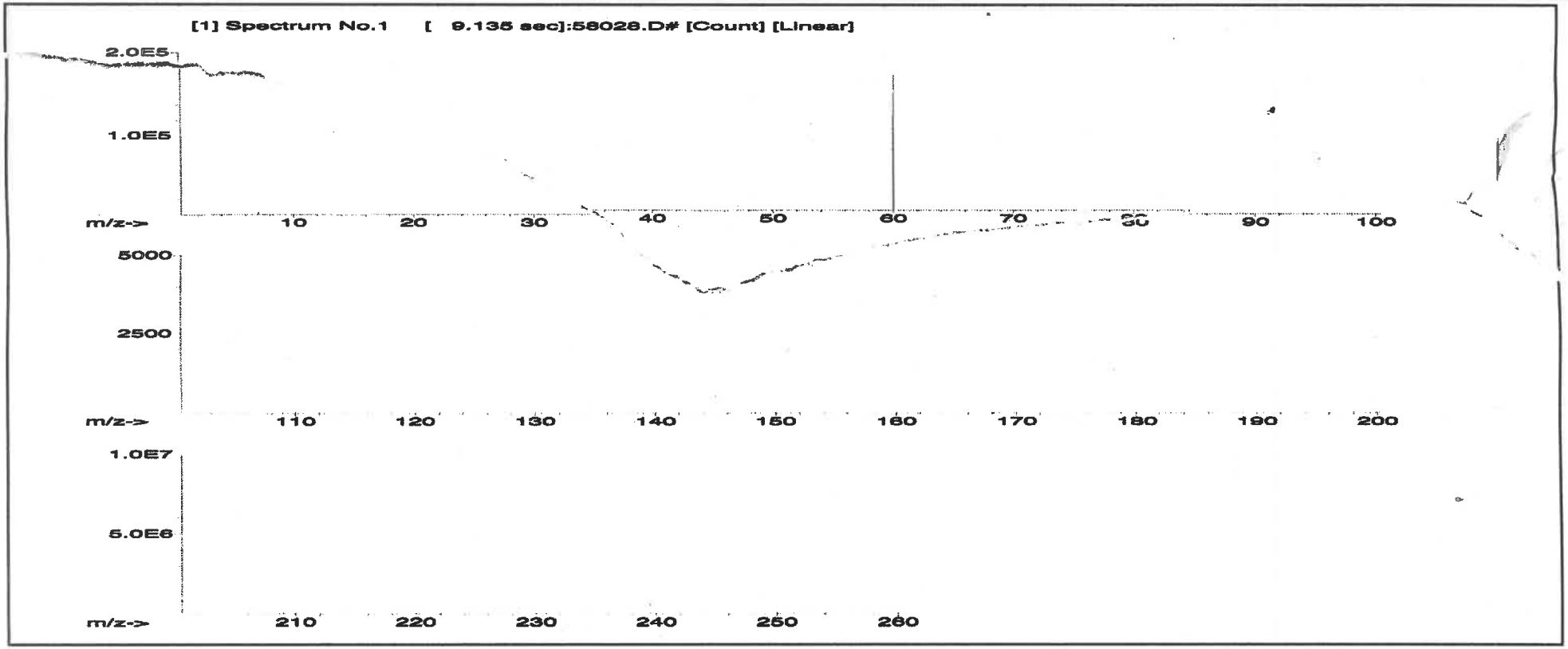
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57028**	24002546	Nitric Acid	
Lot Number:	**091223**			
Description:	**Nickel (Ni)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	091226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	091223
Reviewed By:	Pedro L. Rentas	091223

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5768 M5769 (BP) R:1/3/24

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CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

M5768, M5769 (BP) R: 1/3/24

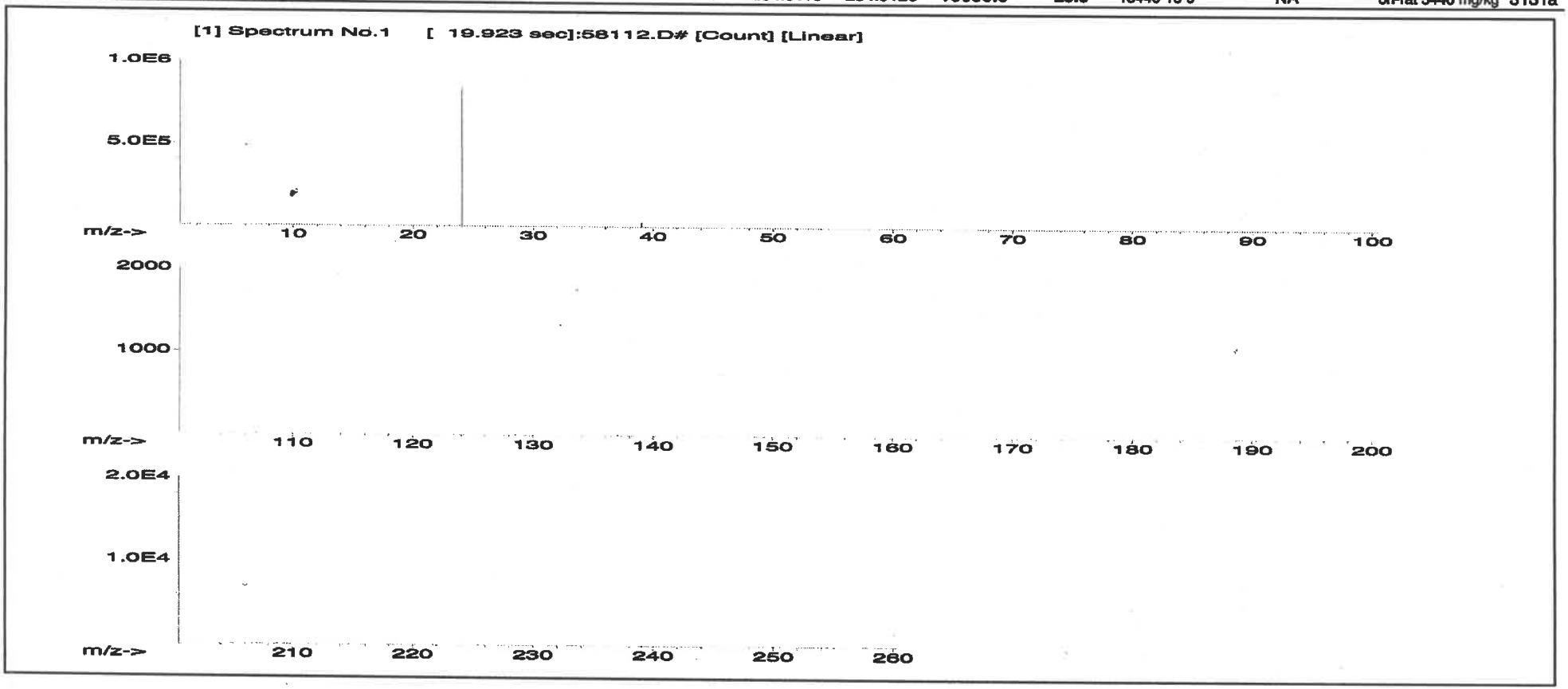
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid
		5E-05	Balance Uncertainty

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	ori-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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R: 02/09/24 M5798

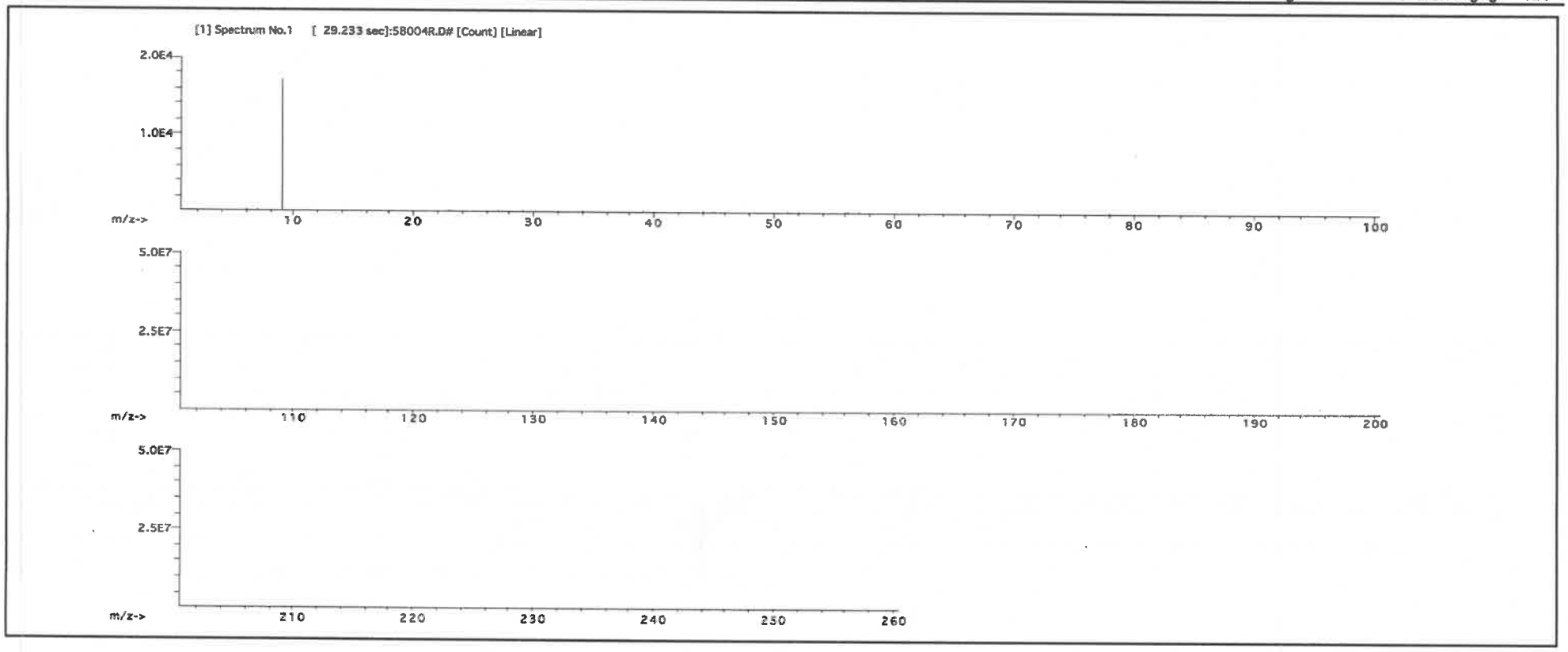
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

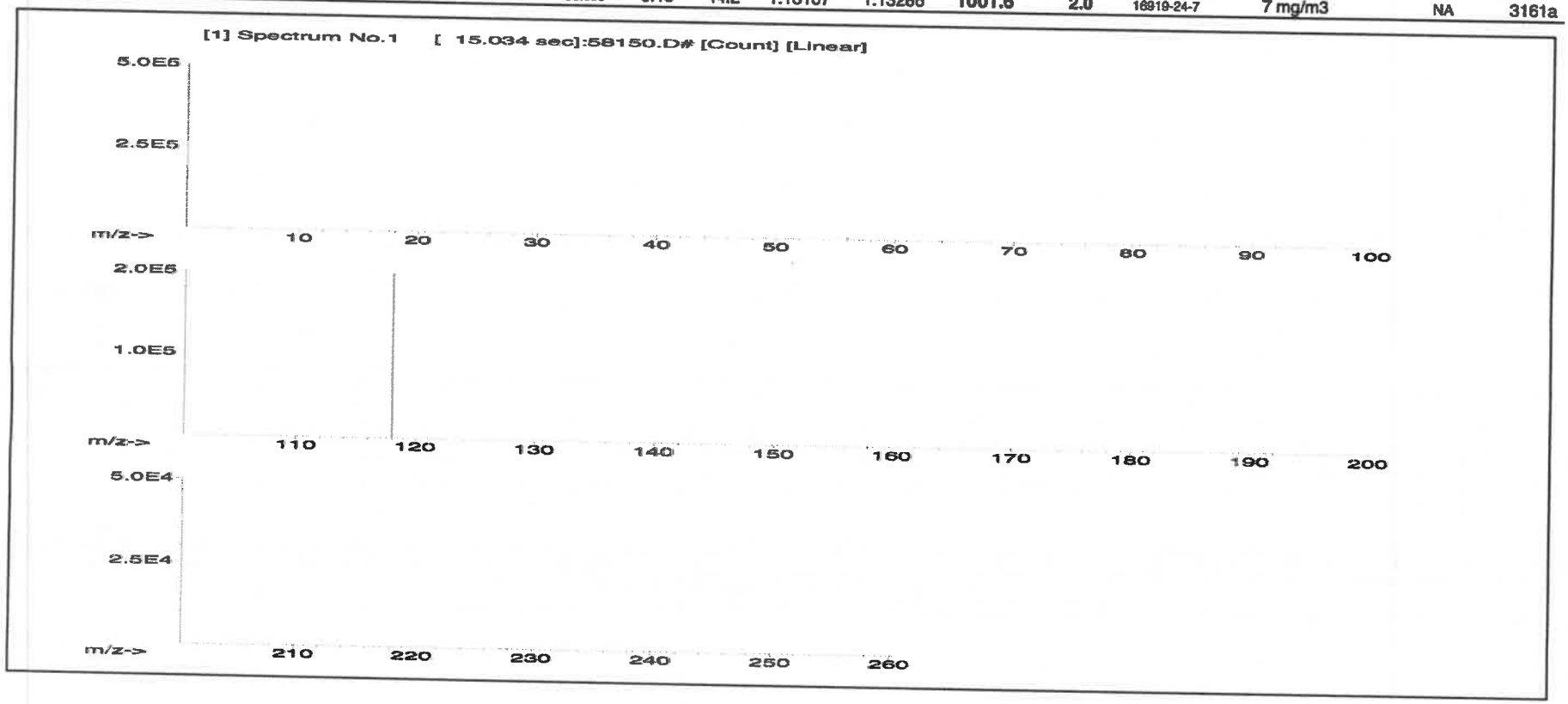
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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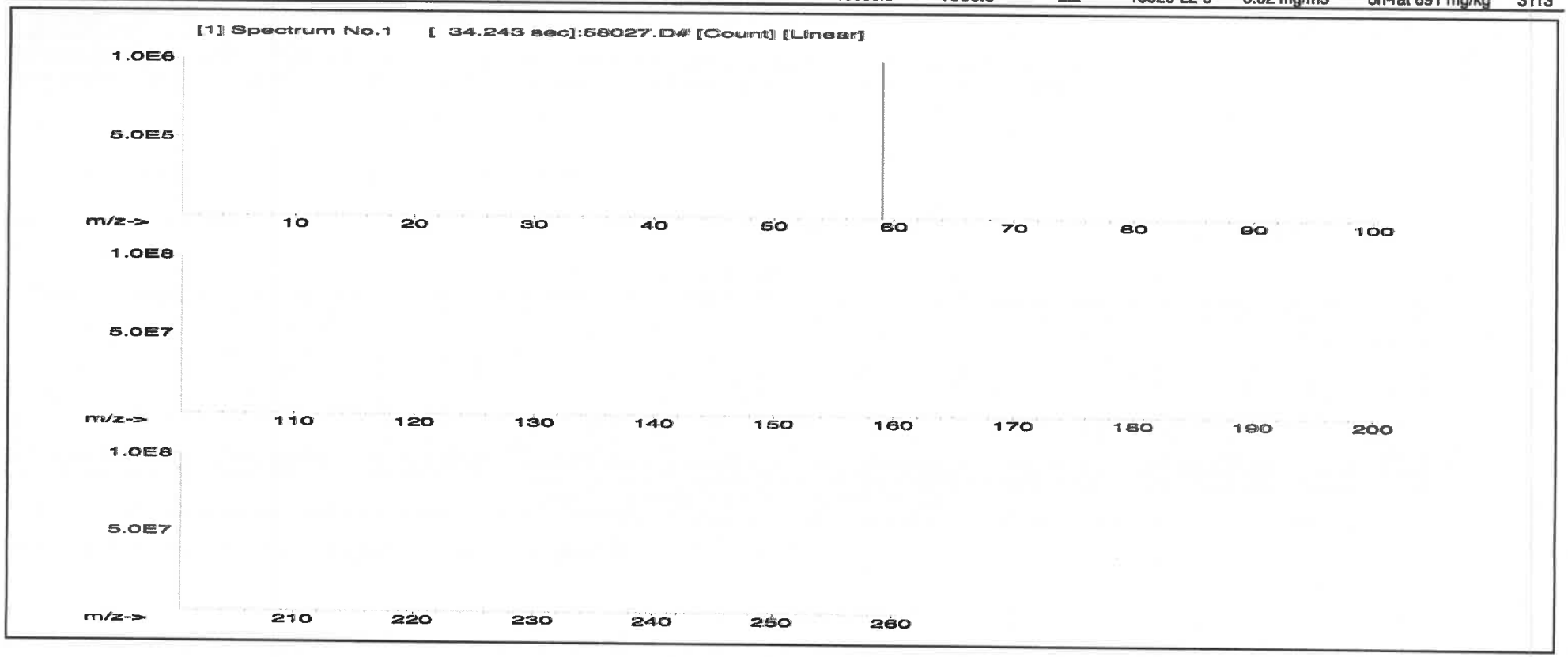
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091923
Reviewed By:	Pedro L. Rentas	091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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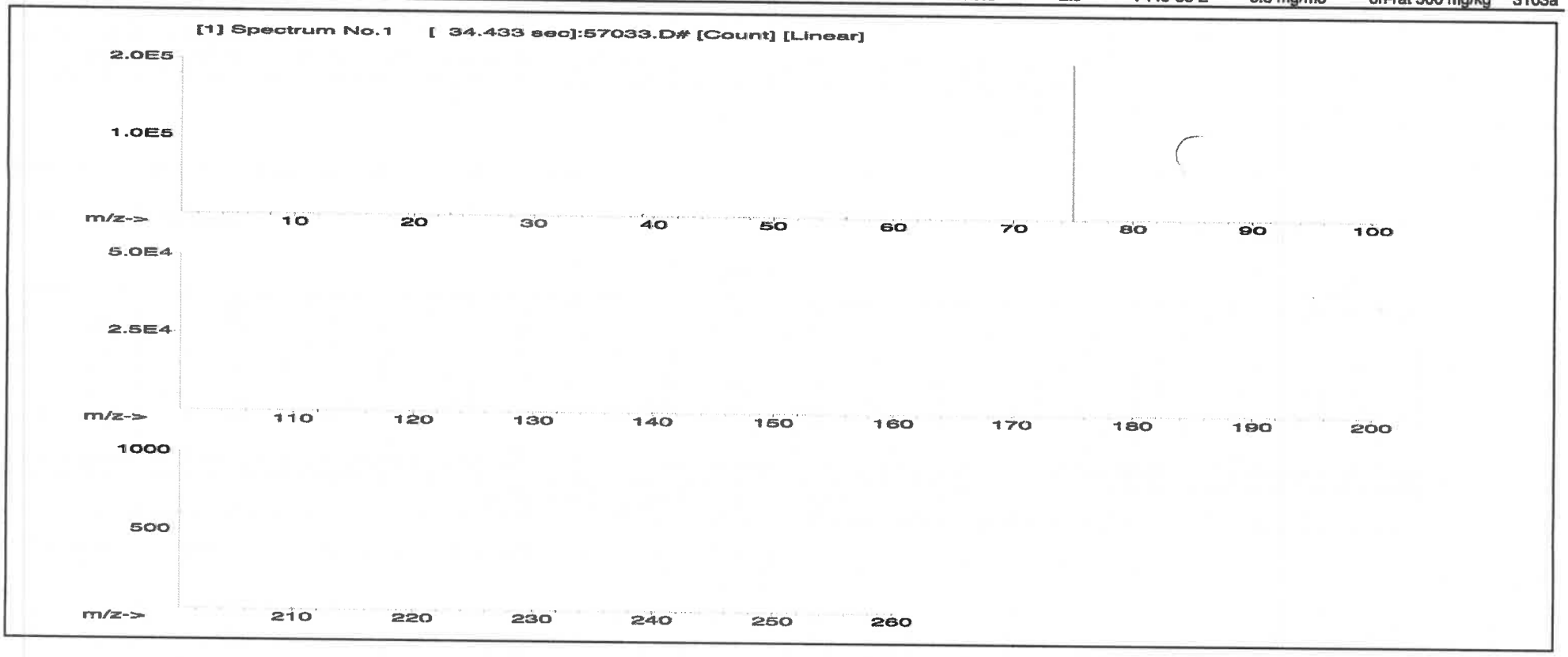
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CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

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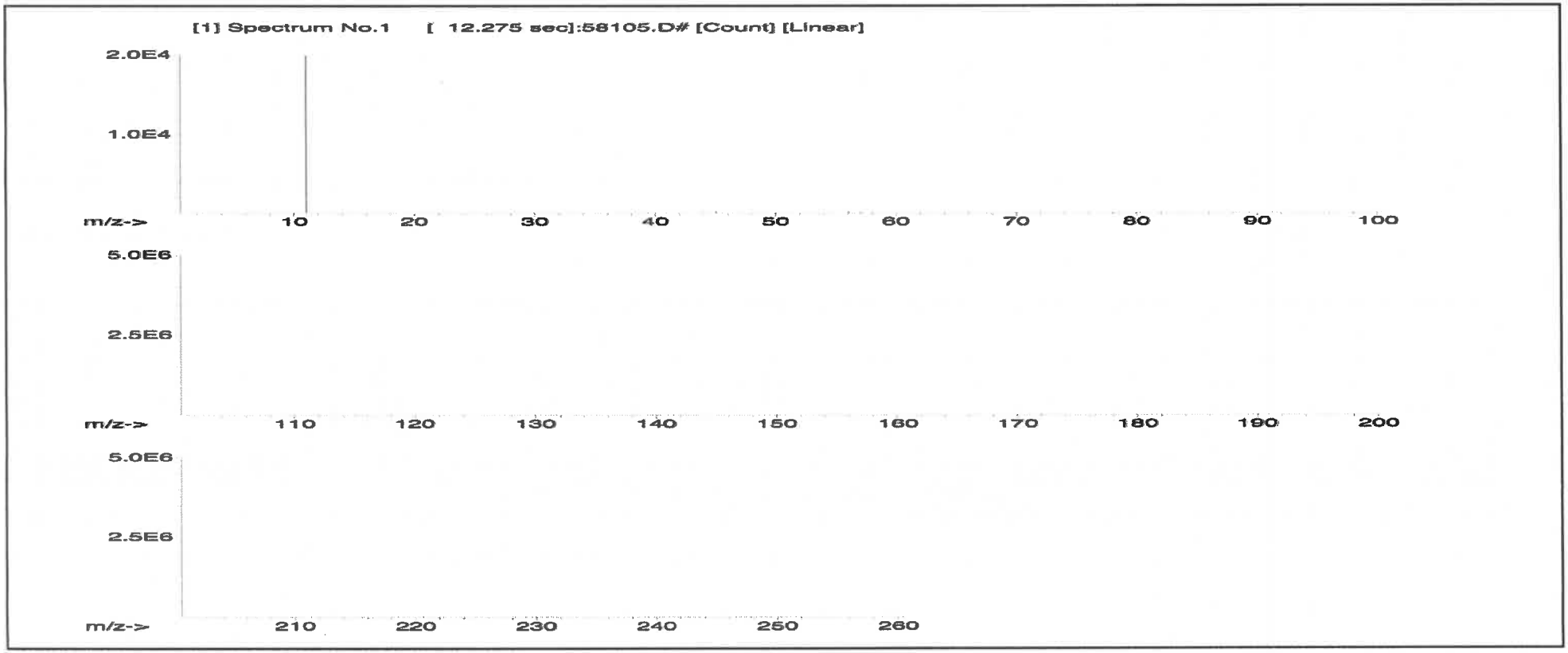
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CERTIFIED WEIGHT REPORT:

Part Number:	**57005**		**Solvent:**	MKBQ8597V	Ammonium hydroxide
Lot Number:	**071123**				
Description:	**Boron (B)**		2.0%	40.0 (mL)	Ammonium hydroxide
Expiration Date:	071126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1999.48	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Boric acid (B)	IN018	BV092016A1	1000	99.9999	0.10	17.3	11.55772	11.56201	**1000.4**	**2.0**	10043-35-3	2 mg/m3	orl-rat 2660 mg/kg	3107



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	T	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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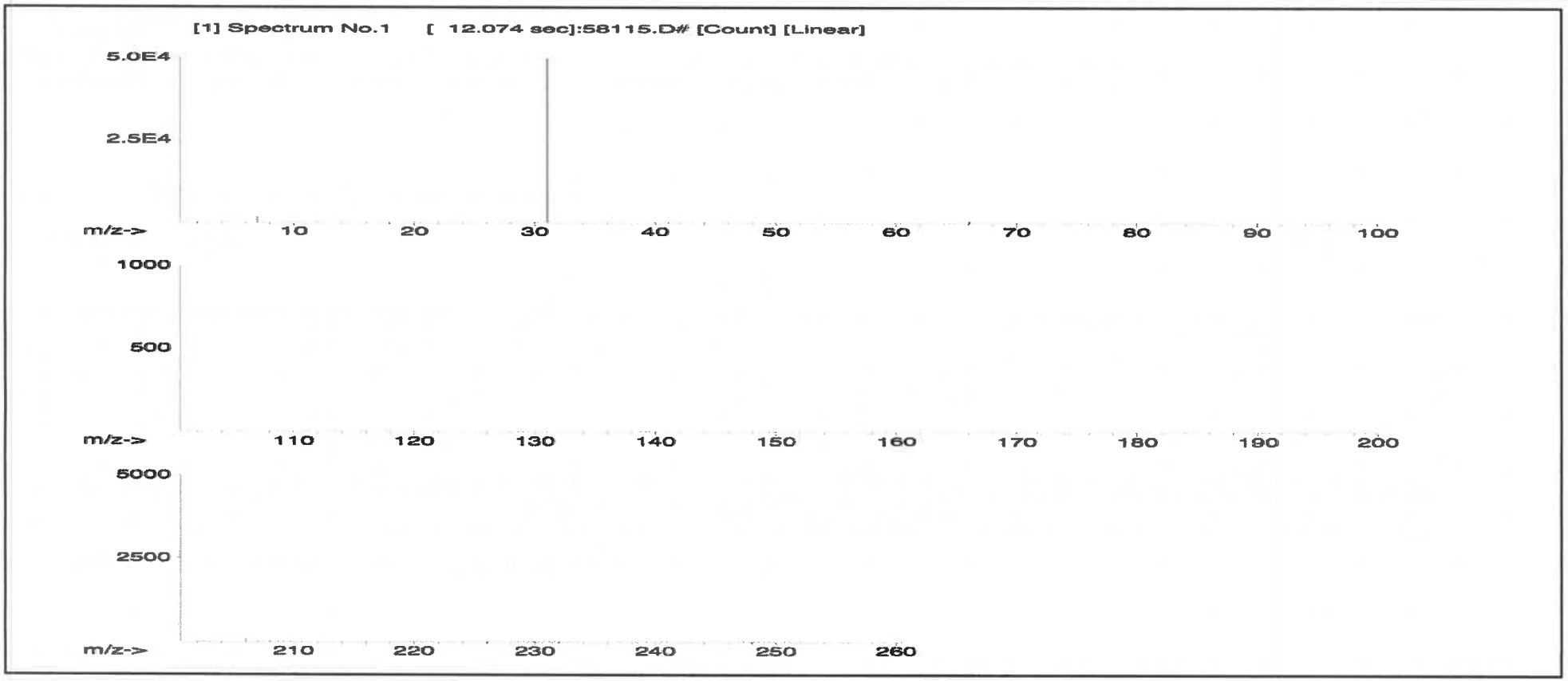
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CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5816

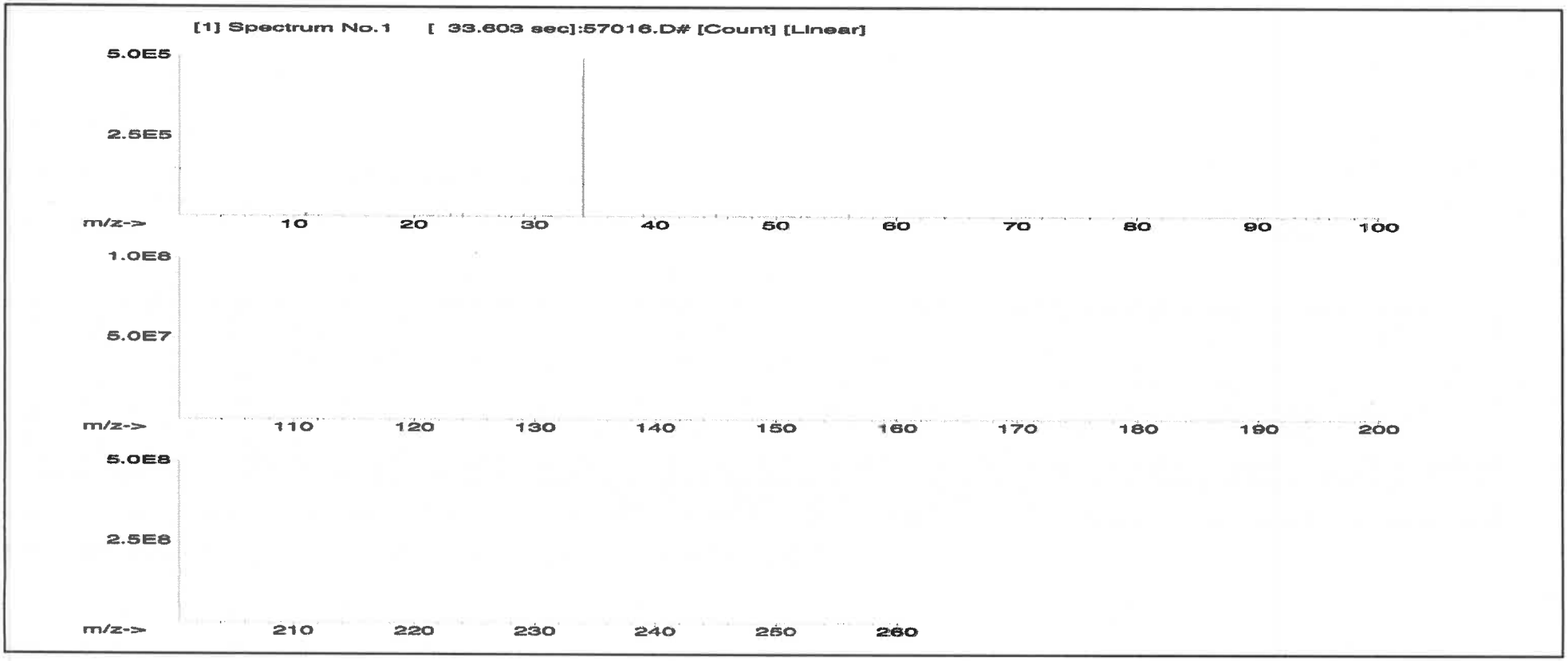
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5817

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

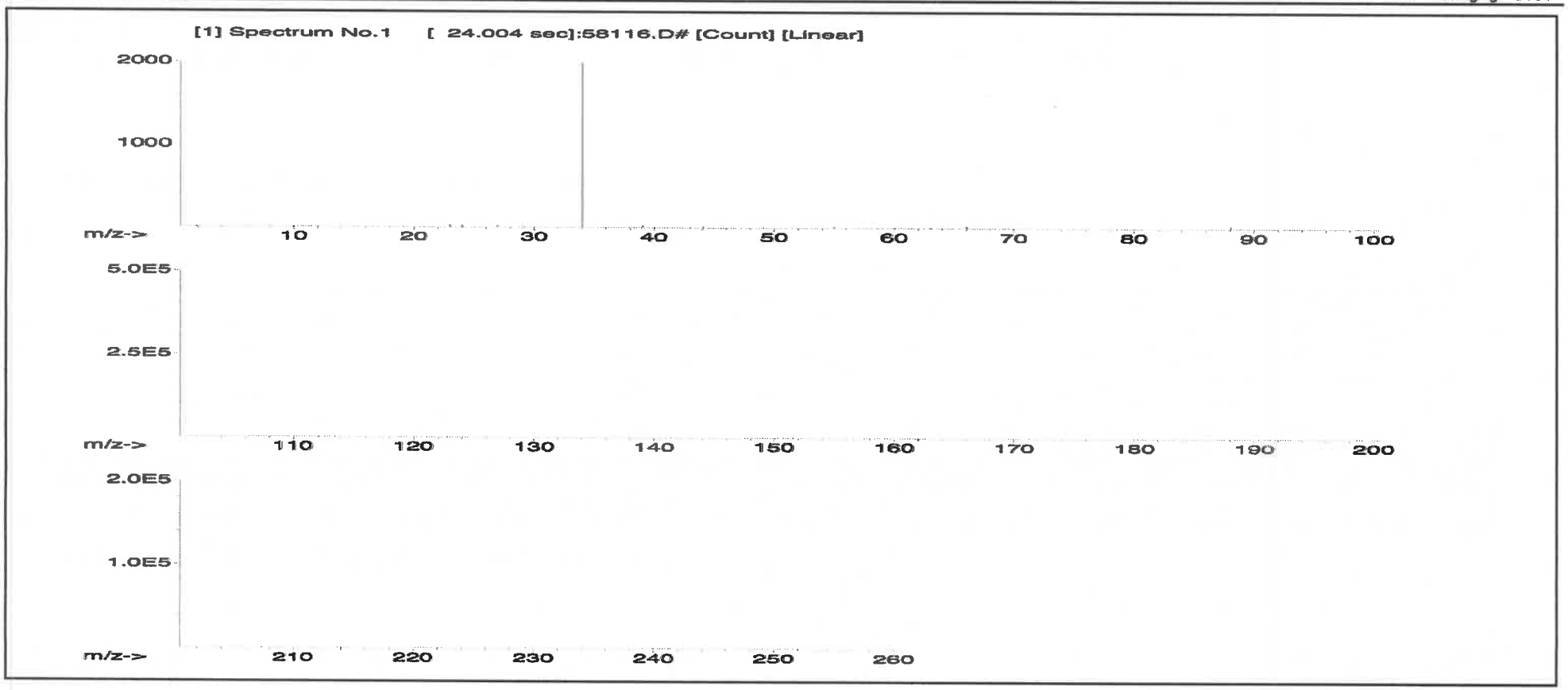
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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Certified Reference Material CRM

R: 02/09/24 M5820

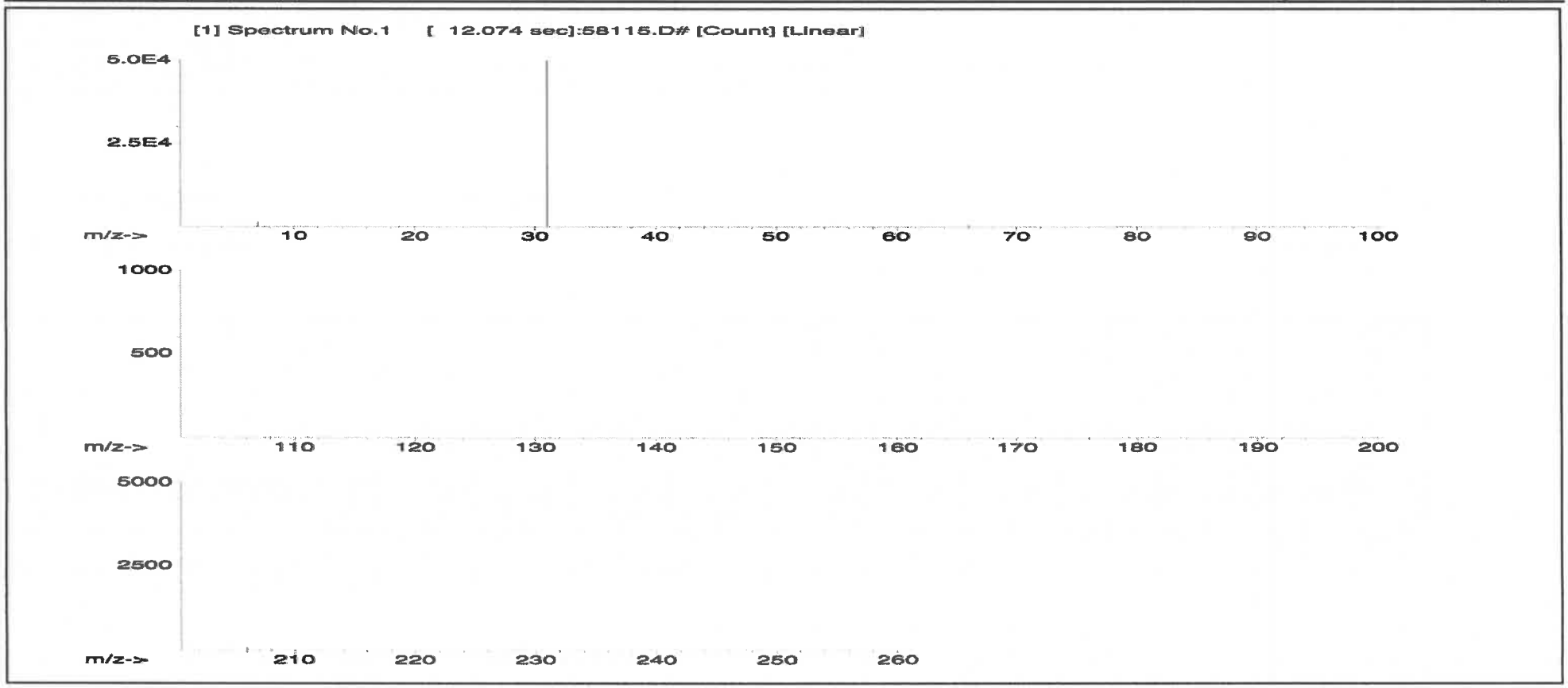
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CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
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Certificate of Analysis

M5959 R: 6/14/24.

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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 20, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certified Reference Material CRM

M5970, M5971 R: 7/01/24

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AR-1539 Certificate Number
https://Absolutestandards.com

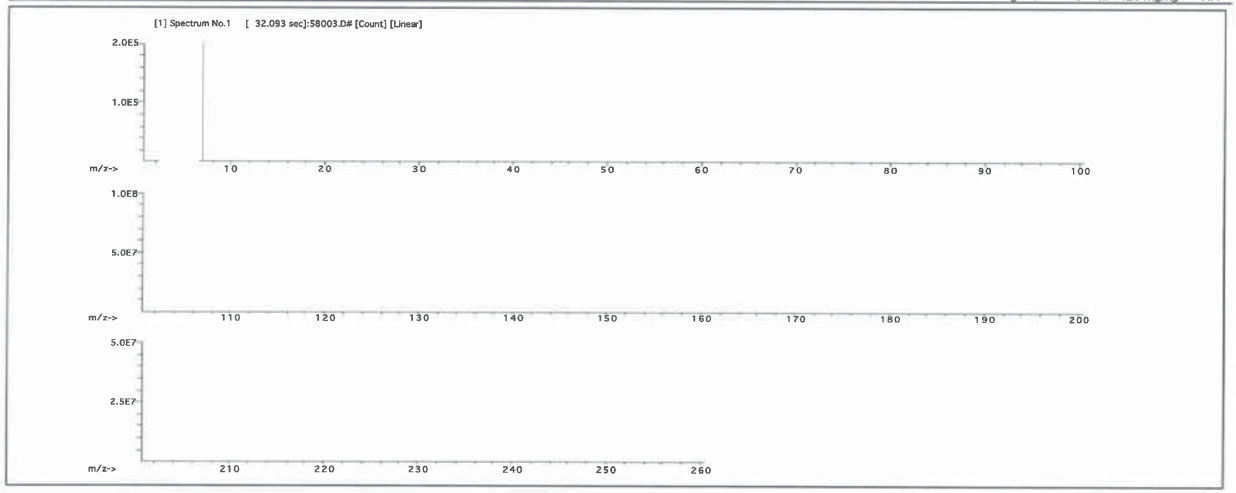
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57003**	24002546	Nitric Acid
Lot Number:	**062124**		
Description:	**Lithium (Li)**		
		2.0%	5.0 (mL) Nitric Acid
Expiration Date:	062127		
Recommended Storage:	Ambient (20 °C)		
Nominal Concentration (µg/mL):	**1000**		
NIST Test Number:	6UTB	5E-05 Balance Uncertainty	
Volume shown below was diluted to (mL):	250.11	0.016 Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lithium nitrate (Li)	58103	070622	0.1000	25.0	0.004	1000	10000.4	**1000.0**	**2.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Sc	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5978, M5979

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO_3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma(w_i)^2\ (u_{char\ i})^2]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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R: 6/14/24

1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

M6074
M6075
M6076
M6077

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

EXP.: 9/6/2029

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	V2-MEB746762
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 5 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 000 ± 6 µg/mL**		

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 06, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 06, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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Refine your results. Redefine your industry.

Certificate of Analysis

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M6137 R→10/3/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSI1
Lot Number:	V2-SI744713
Matrix:	tr. HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Silicon
Starting Material:	Silica
Starting Material Lot#:	1771
Starting Material Purity:	99.9981%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 6 µg/mL

Density: 1.003 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**999 ± 5 µg/mL** ICP Assay NIST SRM Traceable to 3150 Lot Number: S2-SI702546
Assay Method #2	**1000 ± 7 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000310	M	Eu	<	0.000310	O	Na		0.001656	M	Se	<	0.022000	M	Zn	<	0.002500
M	Al		0.010787	M	Fe	<	0.027000	M	Nb	<	0.001300	s	Si	<		O	Zr	<	0.001900
M	As	<	0.001900	M	Ga	<	0.001300	M	Nd	<	0.000310	M	Sm	<	0.000310				
M	Au	<	0.000910	M	Gd	<	0.000310	M	Ni	<	0.005500	M	Sn		0.000096				
M	B		0.016180	M	Ge	<	0.001900	M	Os	<	0.000610	O	Sr		0.000092				
M	Ba		0.000096	M	Hf		0.000423	i	P	<		M	Ta		0.002542				
O	Be	<	0.000570	M	Hg	<	0.000610	M	Pb	<	0.000310	M	Tb	<	0.000310				
M	Bi	<	0.000310	M	Ho	<	0.000610	M	Pd	<	0.000610	M	Te	<	0.000910				
O	Ca		0.011557	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.001900				
M	Cd	<	0.000310	M	Ir	<	0.000310	M	Pt	<	0.000310	M	Ti		0.001078				
M	Ce	<	0.000610	O	K		0.000577	M	Rb	<	0.009100	M	Tl	<	0.000310				
M	Co	<	0.001600	M	La	<	0.000310	M	Re	<	0.000310	M	Tm	<	0.000310				
M	Cr	<	0.010000	O	Li	<	0.000460	M	Rh	<	0.000310	M	U	<	0.000310				
M	Cs	<	0.000310	M	Lu	<	0.000310	M	Ru	<	0.000310	O	V	<	0.001300				
M	Cu	<	0.002500	O	Mg		0.001348	O	S	<	0.570000	M	W	<	0.001900				
M	Dy	<	0.000310	M	Mn	<	0.002500	M	Sb	<	0.000310	M	Y	<	0.000310				
M	Er	<	0.000310	M	Mo	<	0.000310	O	Sc	<	0.000590	M	Yb	<	0.000310				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 28.09 +4 6 Si(OH)x(F)y2-

Chemical Compatibility -Soluble in HCl, HF, H3PO4 H2SO4 and HNO3 as the Si(OH)x(F)y2-. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths, or high levels of transition elements unless they are fluorinated. Stable with most inorganic anions with a tendency to hydrolyze forming silicic acid (silicic acid is soluble up to ∼100 ppm in water) in all dilute acids except HF.

Stability - 2-100 ppb levels - stability unknown - (alone or mixed with all other metals) as the Si(OH)x(F)y2-. 1-10,000 ppm single element solutions as the Si(OH)x(F)y2- chemically stable for years in 2-5 % HNO3 / trace HF in a LDPE container.

Si Containing Samples (Preparation and Solution) -Metal (Soluble in 1:1:1 H2O / HF / HNO3); Oxide - SiO2, amorphic (dissolve by heating in 1:1:1 H2O / HF / HNO3); Oxide - quartz (fuse in Pt0 with Na2CO3); Geological Samples(fuse in Pt0with Na2CO3 followed by HCl solution of the fuseate); Organic Matrices containing silicates and non volatile silicon compounds (dry ash at 4500C in Pt0 and dissolve by gently warming with 1:1:1 H2O / HF / H2SO4 or fuse / ash with Na2CO3 and dissolve fuseate with HCl / H2O); Silicone Oils - dimethyl silicones depolymerize to form volatile monomer units when heated (Measure directly in alcoholic KOH / xylene mixture where sample is treated first with the KOH at 60-1000C to "unzip" the Si- O-Si polymeric structure or digest with conc. H2SO4 / H2O2 followed by cooling and dissolution of the dehydrated silica with HF.) Note that the direct analysis of silicone oils in an organic solvent will result in false high results due to high vapor pressure of volatile monomer units like hexamethylcyclotrisiloxane. The KOH forms the K2+Si(CH3)2O= salt which is not volatile at room temperature.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 28 amu	4000 - 8000 ppt	N/A	N2, 12C16O
ICP-OES 212.412 nm	0.02/0.01 µg/mL	1	Hf, Os, Mo, Ta
ICP-OES 251.611 nm	0.012/0.003 µg/mL	1	Ta, U, Zn, Th
ICP-OES 288.158 nm	0.03/0.004 µg/mL	1	Ta, Ce, Cr, Cd, Th

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 10, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 10, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

M6150

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6151

R-> 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

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M6156

Certified Reference Material CRM

R→ 6/12/24

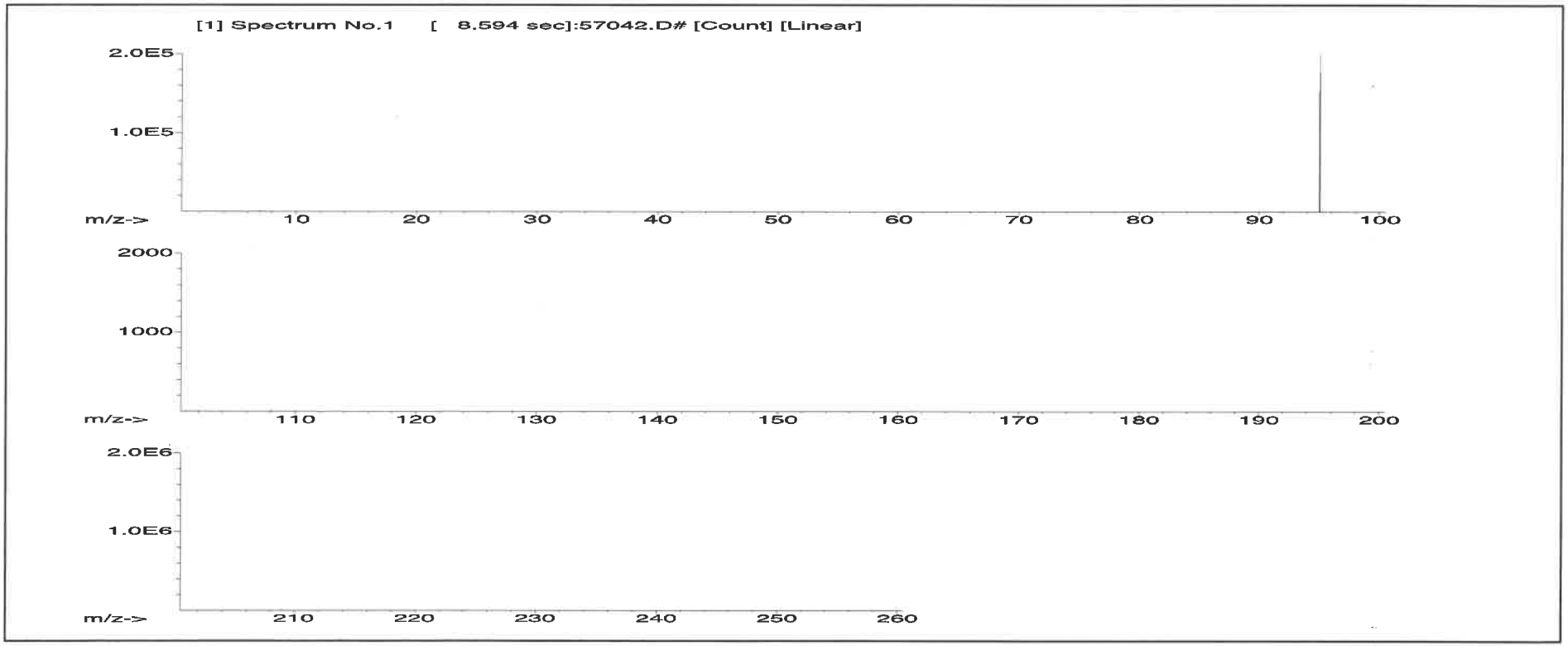
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57042**			
Lot Number:	**032123**			
Description:	**Molybdenum (Mo)**	MKBQ8597V	Ammonium hydroxide	
		0.5%	15.0 (mL)	Ammonium hydroxide
Expiration Date:	032126			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	032123
Reviewed By:	Pedro L. Rentas	032123

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Ammonium molybdate (Mo)	58142	112322	0.1000	300.0	0.084	1000	10001.4	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 01/03/24 M5806, M5807

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CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 122223
Description: Sodium (Na)

Expiration Date: 122226
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

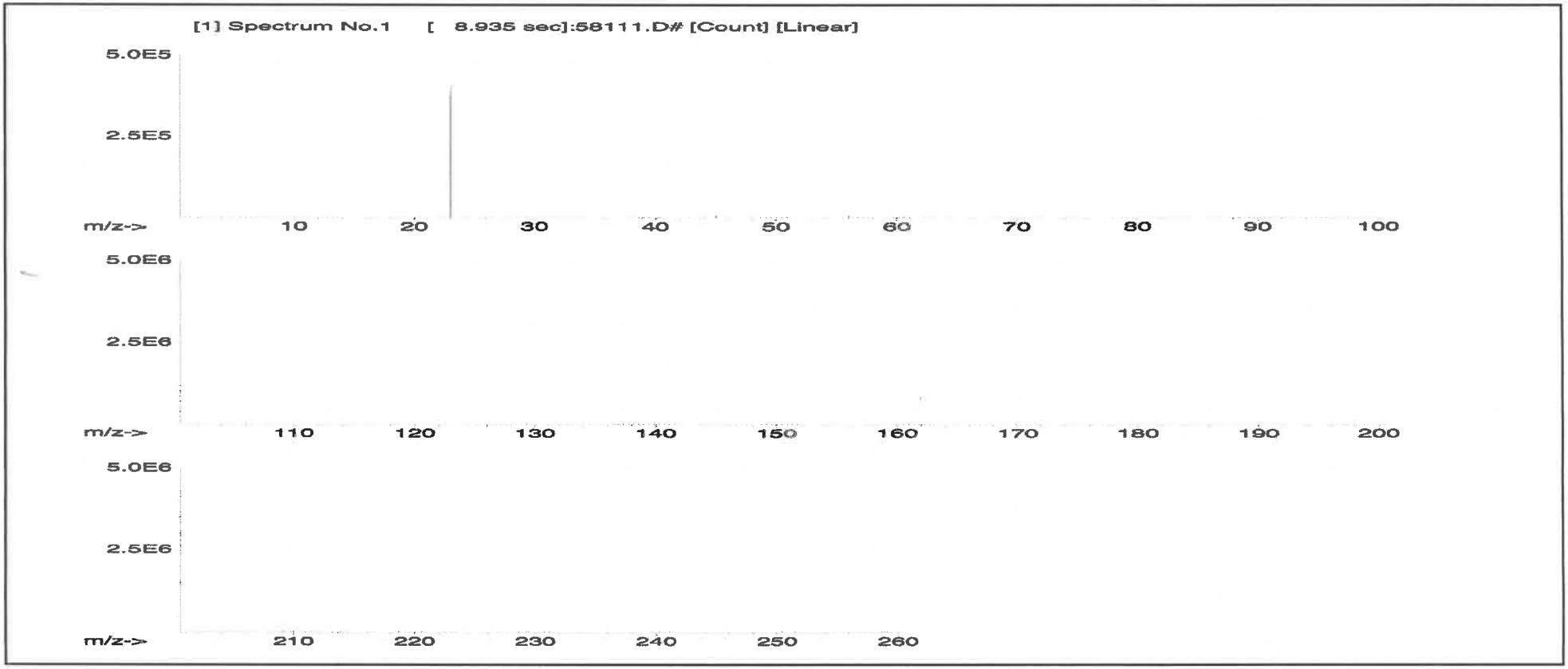
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Aleah O'Brady

Formulated By:	Aleah O'Brady	122223
Reviewed By:	Pedro L. Rentas	122223

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	111.5406	111.5479	**10000.7**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M6030

R: 8/5/24

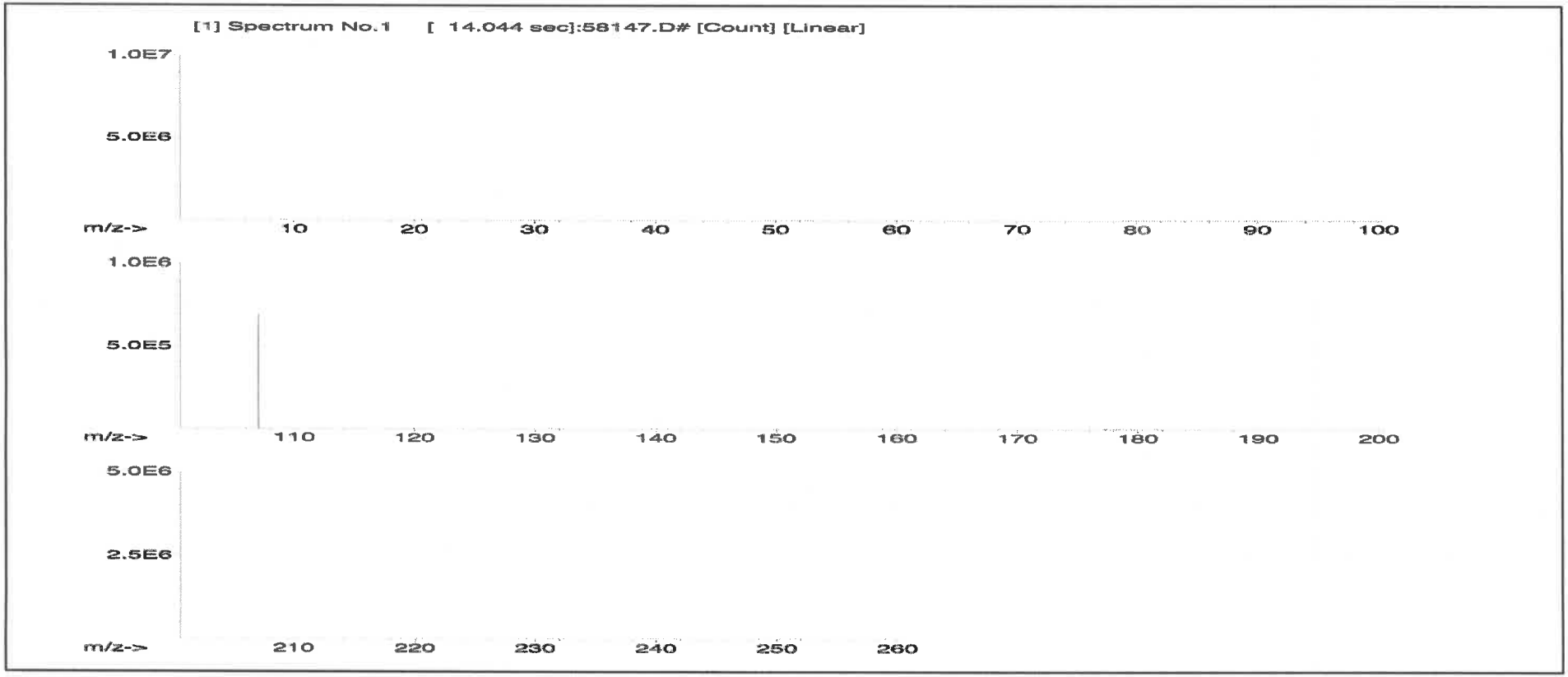
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CERTIFIED WEIGHT REPORT:

Part Number:	**57047**		**Lot #**		
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.30	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 10/18/24

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CERTIFIED WEIGHT REPORT:

MG146

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**071724**			
Description:	**Antimony (Sb)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071727			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.26	0.058	Flask Uncertainty	

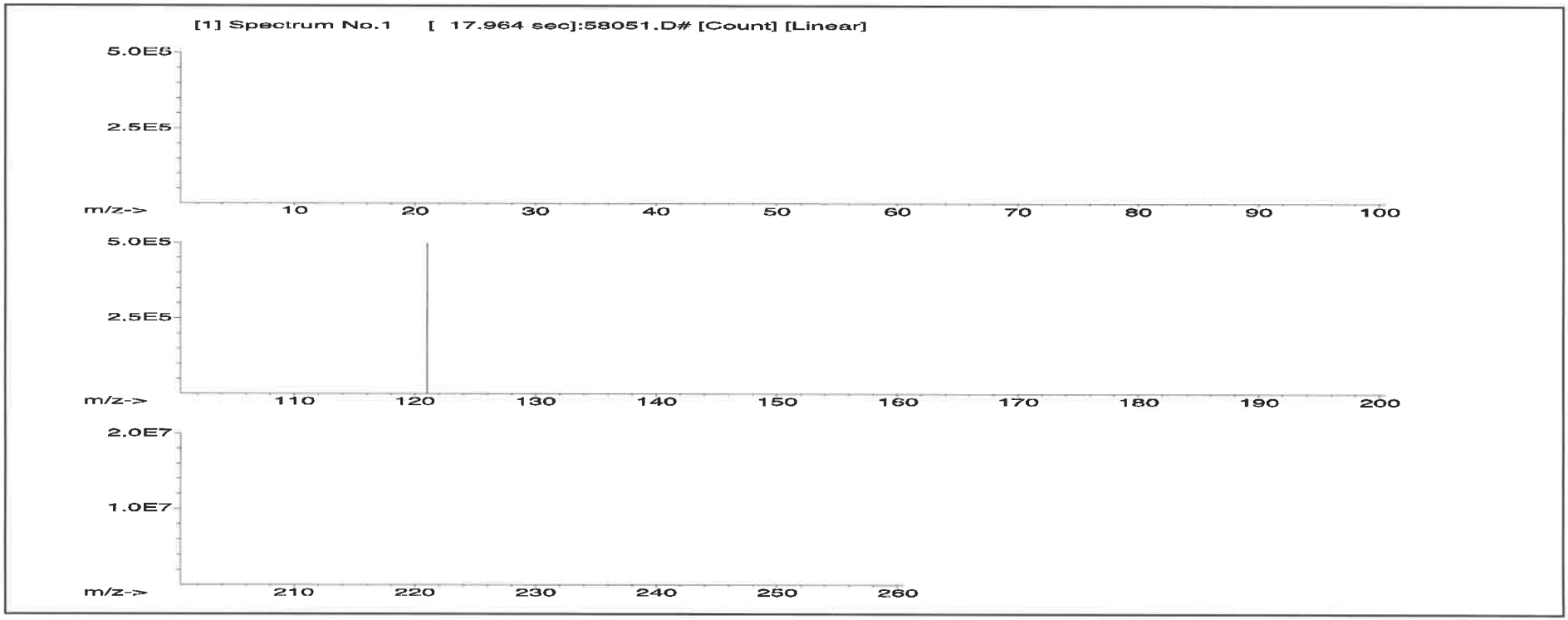
Giovanni Esposito

Formulated By:	Giovanni Esposito	071724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	071724

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	**Final Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	060324	0.1000	200.0	0.084	1000	10001.4	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

APTIM

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M6152

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2015 Certified Program"

APTIM

Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M6155

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R: 8/5/24 M6019

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 888.01
ACCREDITED Reference Material Producer Certificate 888.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 03, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R ! 8/5/24

M6023

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

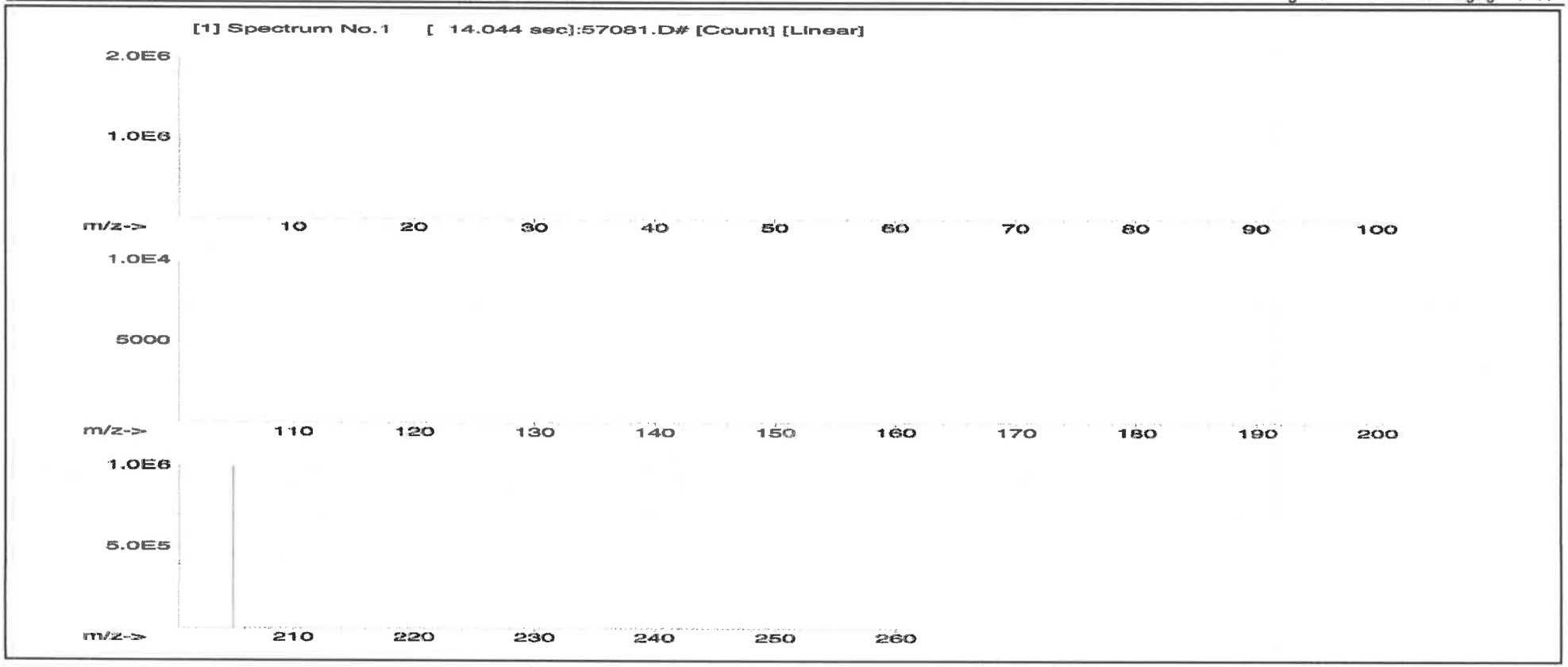
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Bc. 8/5/24

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**	24002546	Nitric Acid	
Description:	**Vanadium (V)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

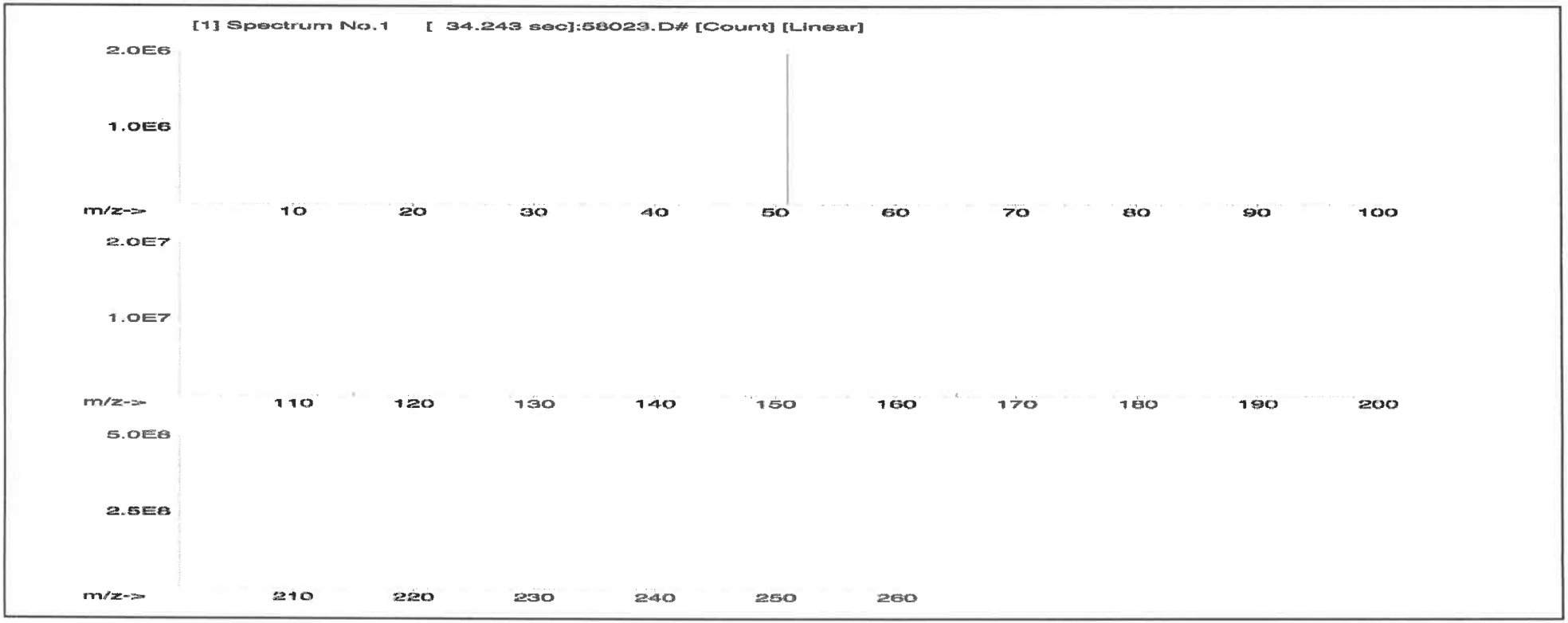
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

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SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q1495/96
COC Number 2046196

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Tully Environmental Inc
ADDRESS: 57 Seaview Blvd
CITY Pt Washington STATE: NY ZIP: 11050
ATTENTION: D Dere
PHONE: 718 4467000 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Transfer Station SPDES
PROJECT NO.: 252113 LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Same PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC +Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ US EPA CLP
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1 Cu Ni Pb
2 BOD5
3 TSS
4 Hg 1631LL
5 BTEX
6 O&G
7 Ammonia
8
9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	001 Willets Pt Blvd (Mar)	W		X	3/5	1215		X	X	X	X	X	X				pH 1.0
2.	00235th Ave (Mar)	W		X	3/5	1215		X	X	X	X	X	X				pH 1.8
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

Specify Preservatives: A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. D Dere	3/5/25	1.
2.	3-5-25 1310	2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.6 °C
Comments:

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

From: Dean Devoe <DDevoe@tullyconstruction.com>
Sent: Tuesday, March 04, 2025 2:47 PM
To: yazmeen@chemtech.net
Subject: RE: Report Details For Project Transfer Station-SPDES-Q1316.
Attachments: 20250304141331038.pdf

Hi Yazmeen - I inadvertently put March 5 as sampling date. Please correct to March 4. These are on the way. Please expedite Feb samples. Thanks Dean

---

From: Yazmeen Gomez <yazmeen@chemtech.net>
Sent: Tuesday, February 18, 2025 2:31 PM
To: Dean Devoe <DDevoe@tullyconstruction.com>
Subject: RE: Report Details For Project Transfer Station-SPDES-Q1316.

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Good afternoon Dean,

Please see attached.

Confirmed, I will be sending out the glassware for delivery tomorrow.

Best Regards,

Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Dean Devoe <DDevoe@tullyconstruction.com>
Sent: Tuesday, February 18, 2025 2:27 PM
To: Yazmeen Gomez <yazmeen@chemtech.net>
Subject: FW: Report Details For Project Transfer Station-SPDES-Q1316.

Good afternoon Yazmeen – please provide mercury results for Q1316. Also, please send glassware for 2 TSS. Thank you Dean

---

From: CHEMTECH-Data@chemtech.net <CHEMTECH-Data@chemtech.net>
Sent: Tuesday, February 18, 2025 11:14 AM

To: Dean Devoe <DDevoe@tullyconstruction.com>; chemworld@comcast.net
Subject: Report Details For Project Transfer Station-SPDES-Q1316.

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

To Dean Devoe;

Please see the attached Report for the following project, or download the file using your login credentials from the link below.

Order ID	: Q1316
Project ID	: Transfer Station-SPDES
Download File	: **https://chemtech.net/secureLogin.aspx**
Order Date	: 2/6/2025 10:57:00 AM
CHEMTECH's Project Manager	: YAZMEEN GOMEZ , YAZMEEN@CHEMTECH.NET , 908-357-0579 Ext :3149
CHEMTECH's Sales Executive	: Jordan Hedvat , jordan@chemtech.net , 908-728-3144 Ext :

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey **//chemtech.net/ClientSurvey.aspx**.

Thank you,

Alliance Technical Group LLC.

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1495 TULL01
Client Name : Tully Environmental, Inc
Client Contact : Dean Devoe
Invoice Name : Tully Environmental, Inc
Invoice Contact : Dean Devoe

Order Date : 3/5/2025 1:48:00 PM
Project Name : Transfer Station-SPDES
Receive DateTime : 3/5/2025 ~~12:00:00~~ 13:10 AM
Purchase Order :

Project Mgr :
Report Type : Results Only
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1495-01	001-WILLETS-PT-BLVD(MAR)	Water	03/04/2025	12:15					
					VOC-BTEX		624.1		10 Bus. Days
Q1495-02	002-35TH-AVE(MAR)	Water	03/04/2025	12:15					
					VOC-BTEX		624.1		10 Bus. Days

Relinguished By :
Date / Time : 3-5-25 1455

Received By :
Date / Time : 03/05/25

Storage Area : **VOA Refridgerator Room**