284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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DATA PACKAGE

METALS

PROJECT NAME : FORT MEADE MD TIPTON AIRFIELD PARCEL RI - 0111169

WESTON SOLUTIONS

1400 Weston Way

PO Box 2653

West Chester, PA - 19380

Phone No: 610-701-7400

ORDER ID : Q1569

ATTENTION : Nathan Fretz

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q1569

Project ID : Fort Meade MD Tipton Airfield Parcel RI - 0111169

Client : Weston Solutions

Lab Sample Number	Client Sample Number
Q1569-01	TAP-IDW-SOIL-031325-01
Q1569-02	TAP-IDW-SOIL-031325-01
Q1569-04	TAP-IDW-SOIL-031325-02
Q1569-05	TAP-IDW-SOIL-031325-02

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 : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:30 pm, Mar 27, 2025

Date: 3/26/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Weston Solutions
Project Name: Fort Meade MD Tipton Airfield Parcel RI - 0111169
Project # N/A
Chemtech Project # Q1569
Test Name: TCLP Mercury,TCLP ICP Metals

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 03/14/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Cyanide, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA and TCLP ZHE Extraction. This data package contains results for TCLP Mercury,TCLP ICP Metals.

C. Analytical Techniques:
The analysis of TCLP ICP Metals was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Calculations:

Calculation for TCLP Metals:
Concentration or Result (µg/L) = $C \times \frac{Vf}{Vi} \times DF \times 1000$

Where,
C = Instrument value in ppm (The average of all replicate exposures)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Calculation for TCLP Hg:

Concentration or Result (µg/L) = C x DF

Where,

C = Instrument response in µg/L from the calibration curve.

DF = Dilution Factor

F. Additional Comments

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ APPROVED

By Nimisha Pandya, QA/QC Supervisor at 3:30 pm, Mar 27, 2025

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1569 MATRIX: TCLP

METHOD: 6010D,7470A,1311

		NA	NO	YES
1.	Calibration Summary met criteria.			✓
2.	ICP Interference Check Sample Results Summary Submitted.			✓
3.	Serial Dilution Summary (if applicable) Submitted.			✓
4.	Laboratory Control Sample Summary (if applicable) Submitted.			✓
5.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
7.	Sample Duplicate Analysis Met QC Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
8.	Digestion Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS:

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 3:30 pm, Mar 27, 2025

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1569

	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: MOHAMMAD AHMED **Date:** 03/26/2025

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LAB CHRONICLE

OrderID:	Q1569	**OrderDate:**	3/14/2025 10:44:00 AM
Client:	Weston Solutions	**Project:**	Fort Meade MD Tipton Airfield Parcel RI - 0111169
Contact:	Nathan Fretz	**Location:**	I31,I33

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1569-02	**TAP-IDW-SOIL-031325-01**	**TCLP**			**03/13/25**			**03/14/25**
			TCLP ICP Metals	6010D		03/17/25	03/18/25	
			TCLP Mercury	7470A		03/17/25	03/18/25	
Q1569-05	**TAP-IDW-SOIL-031325-02**	**TCLP**			**03/13/25**			**03/14/25**
			TCLP ICP Metals	6010D		03/17/25	03/18/25	
			TCLP Mercury	7470A		03/17/25	03/18/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1569 **Order ID:** Q1569

Client: Weston Solutions **Project ID:** Fort Meade MD Tipton Airfield Parcel RI -

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TAP-IDW-SOIL-031325-01									
Q1569-02	TAP-IDW-SOIL-031325-01	TCLP	Barium	699		62.8	125	500	ug/L
Q1569-02	TAP-IDW-SOIL-031325-01	TCLP	Chromium	9.50	J	6.60	25.0	50.0	ug/L
Client ID : TAP-IDW-SOIL-031325-02									
Q1569-05	TAP-IDW-SOIL-031325-02	TCLP	Barium	870		62.8	125	500	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/14/25
Client Sample ID:	TAP-IDW-SOIL-031325-01	SDG No.:	Q1569
Lab Sample ID:	Q1569-02	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	80.0	U	1	34.8	80.0	100	ug/L	03/17/25 12:05	03/18/25 11:40	SW6010	SW3050
7440-39-3	Barium	699		1	62.8	125	500	ug/L	03/17/25 12:05	03/18/25 11:40	SW6010	SW3050
7440-43-9	Cadmium	7.50	U	1	0.94	7.50	30.0	ug/L	03/17/25 12:05	03/18/25 11:40	SW6010	SW3050
7440-47-3	Chromium	9.50	J	1	6.60	25.0	50.0	ug/L	03/17/25 12:05	03/18/25 11:40	SW6010	SW3050
7439-92-1	Lead	48.0	U	1	35.1	48.0	60.0	ug/L	03/17/25 12:05	03/18/25 11:40	SW6010	SW3050
7439-97-6	Mercury	1.60	U	1	0.76	1.60	2.00	ug/L	03/17/25 10:35	03/18/25 10:30	SW7470A	
7782-49-2	Selenium	80.0	U	1	58.8	80.0	100	ug/L	03/17/25 12:05	03/18/25 11:40	SW6010	SW3050
7440-22-4	Silver	25.0	U	1	5.80	25.0	50.0	ug/L	03/17/25 12:05	03/18/25 11:40	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP METALS				

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Weston Solutions	Date Collected:	03/13/25
Project:	Fort Meade MD Tipton Airfield Parcel RI - 0111169	Date Received:	03/14/25
Client Sample ID:	TAP-IDW-SOIL-031325-02	SDG No.:	Q1569
Lab Sample ID:	Q1569-05	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	80.0	U	1	34.8	80.0	100	ug/L	03/17/25 12:05	03/18/25 11:36	SW6010	SW3050
7440-39-3	Barium	870		1	62.8	125	500	ug/L	03/17/25 12:05	03/18/25 11:36	SW6010	SW3050
7440-43-9	Cadmium	7.50	U	1	0.94	7.50	30.0	ug/L	03/17/25 12:05	03/18/25 11:36	SW6010	SW3050
7440-47-3	Chromium	25.0	U	1	6.60	25.0	50.0	ug/L	03/17/25 12:05	03/18/25 11:36	SW6010	SW3050
7439-92-1	Lead	48.0	U	1	35.1	48.0	60.0	ug/L	03/17/25 12:05	03/18/25 11:36	SW6010	SW3050
7439-97-6	Mercury	1.60	U	1	0.76	1.60	2.00	ug/L	03/17/25 10:35	03/18/25 10:43	SW7470A	
7782-49-2	Selenium	80.0	U	1	58.8	80.0	100	ug/L	03/17/25 12:05	03/18/25 11:36	SW6010	SW3050
7440-22-4	Silver	25.0	U	1	5.80	25.0	50.0	ug/L	03/17/25 12:05	03/18/25 11:36	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP METALS				

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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV46	Mercury	3.94	4.0	99	90 - 110	CV	03/18/2025	09:55	LB135064

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV20	Mercury	5.37	5.0	107	90 - 110	CV	03/18/2025	09:59	LB135064
CCV21	Mercury	4.87	5.0	97	90 - 110	CV	03/18/2025	10:35	LB135064
CCV22	Mercury	5.12	5.0	102	90 - 110	CV	03/18/2025	10:54	LB135064

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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	90 - 110	P	03/17/2025	14:31	LB135063
	Barium	533	520	102	90 - 110	P	03/17/2025	14:31	LB135063
	Cadmium	504	510	99	90 - 110	P	03/17/2025	14:31	LB135063
	Chromium	529	520	102	90 - 110	P	03/17/2025	14:31	LB135063
	Lead	996	1000	100	90 - 110	P	03/17/2025	14:31	LB135063
	Selenium	1050	1000	105	90 - 110	P	03/17/2025	14:31	LB135063
	Silver	257	250	103	90 - 110	P	03/17/2025	14:31	LB135063

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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
	Barium	93.6	100	94	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
	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
	Silver	10.5	10.0	105	80 - 120	P	03/17/2025	14:38	LB135063

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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
	Barium	9740	10000	97	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
	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
	Silver	1310	1250	104	90 - 110	P	03/17/2025	15:15	LB135063
CCV02	Arsenic	5220	5000	104	90 - 110	P	03/17/2025	16:13	LB135063
	Barium	9760	10000	98	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
	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
	Silver	1290	1250	103	90 - 110	P	03/17/2025	16:13	LB135063
CCV03	Arsenic	5320	5000	106	90 - 110	P	03/17/2025	17:05	LB135063
	Barium	9780	10000	98	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
	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
	Silver	1330	1250	106	90 - 110	P	03/17/2025	17:05	LB135063
CCV04	Arsenic	5020	5000	100	90 - 110	P	03/17/2025	17:51	LB135063
	Barium	9270	10000	93	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
	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
	Silver	1240	1250	100	90 - 110	P	03/17/2025	17:51	LB135063
CCV05	Arsenic	5050	5000	101	90 - 110	P	03/17/2025	18:18	LB135063
	Barium	9500	10000	95	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
	Lead	4870	5000	97	90 - 110	P	03/17/2025	18:18	LB135063
	Selenium	4960	5000	99	90 - 110	P	03/17/2025	18:18	LB135063

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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	Silver	1260	1250	101	90 - 110	P	03/17/2025	18:18	LB135063

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Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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	90 - 110	P	03/18/2025	10:36	LB135083
	Barium	540	520	104	90 - 110	P	03/18/2025	10:36	LB135083
	Cadmium	510	510	100	90 - 110	P	03/18/2025	10:36	LB135083
	Chromium	537	520	103	90 - 110	P	03/18/2025	10:36	LB135083
	Lead	1010	1000	101	90 - 110	P	03/18/2025	10:36	LB135083
	Selenium	1050	1000	105	90 - 110	P	03/18/2025	10:36	LB135083
	Silver	260	250	104	90 - 110	P	03/18/2025	10:36	LB135083

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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	21.9	20.0	110	80 - 120	P	03/18/2025	10:41	LB135083
	Barium	95.4	100	95	80 - 120	P	03/18/2025	10:41	LB135083
	Cadmium	5.91	6.0	98	80 - 120	P	03/18/2025	10:41	LB135083
	Chromium	10.9	10.0	109	80 - 120	P	03/18/2025	10:41	LB135083
	Lead	10.9	12.0	91	80 - 120	P	03/18/2025	10:41	LB135083
	Selenium	18.4	20.0	92	80 - 120	P	03/18/2025	10:41	LB135083
	Silver	10.1	10.0	101	80 - 120	P	03/18/2025	10:41	LB135083

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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	5040	5000	101	90 - 110	P	03/18/2025	11:09	LB135083
	Barium	9530	10000	95	90 - 110	P	03/18/2025	11:09	LB135083
	Cadmium	2470	2500	99	90 - 110	P	03/18/2025	11:09	LB135083
	Chromium	1020	1000	102	90 - 110	P	03/18/2025	11:09	LB135083
	Lead	4990	5000	100	90 - 110	P	03/18/2025	11:09	LB135083
	Selenium	5040	5000	101	90 - 110	P	03/18/2025	11:09	LB135083
	Silver	1260	1250	101	90 - 110	P	03/18/2025	11:09	LB135083
CCV02	Arsenic	4890	5000	98	90 - 110	P	03/18/2025	12:08	LB135083
	Barium	9170	10000	92	90 - 110	P	03/18/2025	12:08	LB135083
	Cadmium	2410	2500	96	90 - 110	P	03/18/2025	12:08	LB135083
	Chromium	1020	1000	102	90 - 110	P	03/18/2025	12:08	LB135083
	Lead	4880	5000	98	90 - 110	P	03/18/2025	12:08	LB135083
	Selenium	4860	5000	97	90 - 110	P	03/18/2025	12:08	LB135083
	Silver	1240	1250	99	90 - 110	P	03/18/2025	12:08	LB135083
CCV03	Arsenic	4920	5000	98	90 - 110	P	03/18/2025	13:07	LB135083
	Barium	9800	10000	98	90 - 110	P	03/18/2025	13:07	LB135083
	Cadmium	2400	2500	96	90 - 110	P	03/18/2025	13:07	LB135083
	Chromium	1020	1000	102	90 - 110	P	03/18/2025	13:07	LB135083
	Lead	4850	5000	97	90 - 110	P	03/18/2025	13:07	LB135083
	Selenium	4910	5000	98	90 - 110	P	03/18/2025	13:07	LB135083
	Silver	1240	1250	99	90 - 110	P	03/18/2025	13:07	LB135083
CCV04	Arsenic	4770	5000	95	90 - 110	P	03/18/2025	14:07	LB135083
	Barium	9510	10000	95	90 - 110	P	03/18/2025	14:07	LB135083
	Cadmium	2310	2500	92	90 - 110	P	03/18/2025	14:07	LB135083
	Chromium	981	1000	98	90 - 110	P	03/18/2025	14:07	LB135083
	Lead	4660	5000	93	90 - 110	P	03/18/2025	14:07	LB135083
	Selenium	4760	5000	95	90 - 110	P	03/18/2025	14:07	LB135083
	Silver	1190	1250	95	90 - 110	P	03/18/2025	14:07	LB135083
CCV05	Arsenic	4920	5000	98	90 - 110	P	03/18/2025	14:49	LB135083
	Barium	10800	10000	108	90 - 110	P	03/18/2025	14:49	LB135083
	Cadmium	2370	2500	95	90 - 110	P	03/18/2025	14:49	LB135083
	Chromium	1000	1000	100	90 - 110	P	03/18/2025	14:49	LB135083
	Lead	4790	5000	96	90 - 110	P	03/18/2025	14:49	LB135083
	Selenium	4900	5000	98	90 - 110	P	03/18/2025	14:49	LB135083

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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	Silver	1230	1250	99	90 - 110	P	03/18/2025	14:49	LB135083

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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	989	1000	99	90 - 110	P	03/25/2025	10:03	LB135182
	Barium	493	520	95	90 - 110	P	03/25/2025	10:03	LB135182
	Cadmium	494	510	97	90 - 110	P	03/25/2025	10:03	LB135182
	Chromium	518	520	100	90 - 110	P	03/25/2025	10:03	LB135182
	Lead	975	1000	98	90 - 110	P	03/25/2025	10:03	LB135182
	Selenium	1020	1000	102	90 - 110	P	03/25/2025	10:03	LB135182
	Silver	253	250	101	90 - 110	P	03/25/2025	10:03	LB135182

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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	18.5	20.0	93	80 - 120	P	03/25/2025	10:14	LB135182
	Barium	91.1	100	91	80 - 120	P	03/25/2025	10:14	LB135182
	Cadmium	5.74	6.0	96	80 - 120	P	03/25/2025	10:14	LB135182
	Chromium	9.50	10.0	95	80 - 120	P	03/25/2025	10:14	LB135182
	Lead	11.2	12.0	93	80 - 120	P	03/25/2025	10:14	LB135182
	Selenium	21.7	20.0	108	80 - 120	P	03/25/2025	10:14	LB135182
	Silver	10.9	10.0	109	80 - 120	P	03/25/2025	10:14	LB135182

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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	5140	5000	103	90 - 110	P	03/25/2025	10:35	LB135182
	Barium	9690	10000	97	90 - 110	P	03/25/2025	10:35	LB135182
	Cadmium	2470	2500	99	90 - 110	P	03/25/2025	10:35	LB135182
	Chromium	1010	1000	101	90 - 110	P	03/25/2025	10:35	LB135182
	Lead	4980	5000	100	90 - 110	P	03/25/2025	10:35	LB135182
	Selenium	5200	5000	104	90 - 110	P	03/25/2025	10:35	LB135182
	Silver	1260	1250	101	90 - 110	P	03/25/2025	10:35	LB135182
CCV02	Arsenic	4950	5000	99	90 - 110	P	03/25/2025	11:27	LB135182
	Barium	9380	10000	94	90 - 110	P	03/25/2025	11:27	LB135182
	Cadmium	2390	2500	96	90 - 110	P	03/25/2025	11:27	LB135182
	Chromium	987	1000	99	90 - 110	P	03/25/2025	11:27	LB135182
	Lead	4810	5000	96	90 - 110	P	03/25/2025	11:27	LB135182
	Selenium	4980	5000	100	90 - 110	P	03/25/2025	11:27	LB135182
	Silver	1230	1250	99	90 - 110	P	03/25/2025	11:27	LB135182
CCV03	Arsenic	5010	5000	100	90 - 110	P	03/25/2025	12:29	LB135182
	Barium	9540	10000	95	90 - 110	P	03/25/2025	12:29	LB135182
	Cadmium	2390	2500	96	90 - 110	P	03/25/2025	12:29	LB135182
	Chromium	989	1000	99	90 - 110	P	03/25/2025	12:29	LB135182
	Lead	4830	5000	97	90 - 110	P	03/25/2025	12:29	LB135182
	Selenium	5070	5000	101	90 - 110	P	03/25/2025	12:29	LB135182
	Silver	1240	1250	99	90 - 110	P	03/25/2025	12:29	LB135182
CCV04	Arsenic	5180	5000	104	90 - 110	P	03/25/2025	13:33	LB135182
	Barium	9950	10000	100	90 - 110	P	03/25/2025	13:33	LB135182
	Cadmium	2450	2500	98	90 - 110	P	03/25/2025	13:33	LB135182
	Chromium	1000	1000	100	90 - 110	P	03/25/2025	13:33	LB135182
	Lead	4940	5000	99	90 - 110	P	03/25/2025	13:33	LB135182
	Selenium	5260	5000	105	90 - 110	P	03/25/2025	13:33	LB135182
	Silver	1270	1250	102	90 - 110	P	03/25/2025	13:33	LB135182
CCV05	Arsenic	5180	5000	104	90 - 110	P	03/25/2025	14:38	LB135182
	Barium	9740	10000	97	90 - 110	P	03/25/2025	14:38	LB135182
	Cadmium	2420	2500	97	90 - 110	P	03/25/2025	14:38	LB135182
	Chromium	1000	1000	100	90 - 110	P	03/25/2025	14:38	LB135182
	Lead	4900	5000	98	90 - 110	P	03/25/2025	14:38	LB135182
	Selenium	5260	5000	105	90 - 110	P	03/25/2025	14:38	LB135182

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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	Silver	1260	1250	101	90 - 110	P	03/25/2025	14:38	LB135182
CCV06	Arsenic	5190	5000	104	90 - 110	P	03/25/2025	15:46	LB135182
	Barium	9910	10000	99	90 - 110	P	03/25/2025	15:46	LB135182
	Cadmium	2440	2500	98	90 - 110	P	03/25/2025	15:46	LB135182
	Chromium	1000	1000	100	90 - 110	P	03/25/2025	15:46	LB135182
	Lead	4930	5000	98	90 - 110	P	03/25/2025	15:46	LB135182
	Selenium	5270	5000	105	90 - 110	P	03/25/2025	15:46	LB135182
	Silver	1260	1250	101	90 - 110	P	03/25/2025	15:46	LB135182
CCV07	Arsenic	4970	5000	99	90 - 110	P	03/25/2025	16:40	LB135182
	Barium	9510	10000	95	90 - 110	P	03/25/2025	16:40	LB135182
	Cadmium	2380	2500	95	90 - 110	P	03/25/2025	16:40	LB135182
	Chromium	972	1000	97	90 - 110	P	03/25/2025	16:40	LB135182
	Lead	4770	5000	96	90 - 110	P	03/25/2025	16:40	LB135182
	Selenium	5020	5000	100	90 - 110	P	03/25/2025	16:40	LB135182
	Silver	1220	1250	98	90 - 110	P	03/25/2025	16:40	LB135182
CCV08	Arsenic	5000	5000	100	90 - 110	P	03/25/2025	17:01	LB135182
	Barium	9410	10000	94	90 - 110	P	03/25/2025	17:01	LB135182
	Cadmium	2410	2500	96	90 - 110	P	03/25/2025	17:01	LB135182
	Chromium	994	1000	99	90 - 110	P	03/25/2025	17:01	LB135182
	Lead	4840	5000	97	90 - 110	P	03/25/2025	17:01	LB135182
	Selenium	5050	5000	101	90 - 110	P	03/25/2025	17:01	LB135182
	Silver	1240	1250	99	90 - 110	P	03/25/2025	17:01	LB135182

Alliance TECHNICAL GROUP
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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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	19.6	20.0	98	40 - 160	P	03/17/2025	14:47	LB135063
	Barium	92.8	100	93	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
	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
	Silver	10.3	10.0	103	40 - 160	P	03/17/2025	14:47	LB135063
CRA	Mercury	0.16	0.2	81	40 - 160	CV	03/18/2025	10:06	LB135064
CRI01	Arsenic	22.6	20.0	113	40 - 160	P	03/18/2025	10:49	LB135083
	Barium	94.4	100	94	40 - 160	P	03/18/2025	10:49	LB135083
	Cadmium	5.91	6.0	98	40 - 160	P	03/18/2025	10:49	LB135083
	Chromium	10.8	10.0	108	40 - 160	P	03/18/2025	10:49	LB135083
	Lead	11.3	12.0	94	40 - 160	P	03/18/2025	10:49	LB135083
	Selenium	16.6	20.0	83	40 - 160	P	03/18/2025	10:49	LB135083
	Silver	10.7	10.0	107	40 - 160	P	03/18/2025	10:49	LB135083
CRI01	Arsenic	21.2	20.0	106	40 - 160	P	03/25/2025	10:22	LB135182
	Barium	91.1	100	91	40 - 160	P	03/25/2025	10:22	LB135182
	Cadmium	5.71	6.0	95	40 - 160	P	03/25/2025	10:22	LB135182
	Chromium	9.81	10.0	98	40 - 160	P	03/25/2025	10:22	LB135182
	Lead	11.8	12.0	98	40 - 160	P	03/25/2025	10:22	LB135182
	Selenium	21.9	20.0	110	40 - 160	P	03/25/2025	10:22	LB135182
	Silver	11.2	10.0	112	40 - 160	P	03/25/2025	10:22	LB135182

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB46	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	03/18/2025	09:57	LB135064

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB20	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	03/18/2025	10:04	LB135064
CCB21	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	03/18/2025	10:41	LB135064
CCB22	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	03/18/2025	10:59	LB135064

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/17/2025	14:43	LB135063
	Barium	100	+/-100	U	25.0	100	P	03/17/2025	14:43	LB135063
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/17/2025	14:43	LB135063
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/17/2025	14:43	LB135063
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/17/2025	14:43	LB135063
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/17/2025	14:43	LB135063
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/17/2025	14:43	LB135063

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/17/2025	15:27	LB135063
	Barium	100	+/-100	U	25.0	100	P	03/17/2025	15:27	LB135063
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/17/2025	15:27	LB135063
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/17/2025	15:27	LB135063
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/17/2025	15:27	LB135063
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/17/2025	15:27	LB135063
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/17/2025	15:27	LB135063
CCB02	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/17/2025	16:17	LB135063
	Barium	100	+/-100	U	25.0	100	P	03/17/2025	16:17	LB135063
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/17/2025	16:17	LB135063
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/17/2025	16:17	LB135063
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/17/2025	16:17	LB135063
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/17/2025	16:17	LB135063
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/17/2025	16:17	LB135063
CCB03	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/17/2025	17:09	LB135063
	Barium	100	+/-100	U	25.0	100	P	03/17/2025	17:09	LB135063
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/17/2025	17:09	LB135063
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/17/2025	17:09	LB135063
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/17/2025	17:09	LB135063
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/17/2025	17:09	LB135063
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/17/2025	17:09	LB135063
CCB04	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/17/2025	17:55	LB135063
	Barium	100	+/-100	U	25.0	100	P	03/17/2025	17:55	LB135063
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/17/2025	17:55	LB135063
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/17/2025	17:55	LB135063
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/17/2025	17:55	LB135063
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/17/2025	17:55	LB135063
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/17/2025	17:55	LB135063
CCB05	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/17/2025	18:22	LB135063
	Barium	100	+/-100	U	25.0	100	P	03/17/2025	18:22	LB135063
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/17/2025	18:22	LB135063
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/17/2025	18:22	LB135063
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/17/2025	18:22	LB135063
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/17/2025	18:22	LB135063
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/17/2025	18:22	LB135063

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/18/2025	10:45	LB135083
	Barium	100	+/-100	U	25.0	100	P	03/18/2025	10:45	LB135083
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/18/2025	10:45	LB135083
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/18/2025	10:45	LB135083
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/18/2025	10:45	LB135083
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/18/2025	10:45	LB135083
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/18/2025	10:45	LB135083

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/18/2025	11:13	LB135083
	Barium	100	+/-100	U	25.0	100	P	03/18/2025	11:13	LB135083
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/18/2025	11:13	LB135083
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/18/2025	11:13	LB135083
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/18/2025	11:13	LB135083
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/18/2025	11:13	LB135083
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/18/2025	11:13	LB135083
CCB02	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/18/2025	12:17	LB135083
	Barium	100	+/-100	U	25.0	100	P	03/18/2025	12:17	LB135083
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/18/2025	12:17	LB135083
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/18/2025	12:17	LB135083
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/18/2025	12:17	LB135083
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/18/2025	12:17	LB135083
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/18/2025	12:17	LB135083
CCB03	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/18/2025	13:13	LB135083
	Barium	100	+/-100	U	25.0	100	P	03/18/2025	13:13	LB135083
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/18/2025	13:13	LB135083
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/18/2025	13:13	LB135083
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/18/2025	13:13	LB135083
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/18/2025	13:13	LB135083
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/18/2025	13:13	LB135083
CCB04	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/18/2025	14:20	LB135083
	Barium	100	+/-100	U	25.0	100	P	03/18/2025	14:20	LB135083
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/18/2025	14:20	LB135083
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/18/2025	14:20	LB135083
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/18/2025	14:20	LB135083
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/18/2025	14:20	LB135083
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/18/2025	14:20	LB135083
CCB05	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/18/2025	14:53	LB135083
	Barium	100	+/-100	U	25.0	100	P	03/18/2025	14:53	LB135083
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/18/2025	14:53	LB135083
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/18/2025	14:53	LB135083
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/18/2025	14:53	LB135083
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/18/2025	14:53	LB135083
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/18/2025	14:53	LB135083

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	10:18	LB135182
	Barium	100	+/-100	U	25.0	100	P	03/25/2025	10:18	LB135182
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/25/2025	10:18	LB135182
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	10:18	LB135182
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/25/2025	10:18	LB135182
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	10:18	LB135182
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	10:18	LB135182

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	10:40	LB135182
	Barium	100	+/-100	U	25.0	100	P	03/25/2025	10:40	LB135182
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/25/2025	10:40	LB135182
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	10:40	LB135182
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/25/2025	10:40	LB135182
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	10:40	LB135182
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	10:40	LB135182
CCB02	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	11:31	LB135182
	Barium	100	+/-100	U	25.0	100	P	03/25/2025	11:31	LB135182
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/25/2025	11:31	LB135182
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	11:31	LB135182
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/25/2025	11:31	LB135182
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	11:31	LB135182
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	11:31	LB135182
CCB03	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	12:33	LB135182
	Barium	100	+/-100	U	25.0	100	P	03/25/2025	12:33	LB135182
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/25/2025	12:33	LB135182
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	12:33	LB135182
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/25/2025	12:33	LB135182
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	12:33	LB135182
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	12:33	LB135182
CCB04	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	13:42	LB135182
	Barium	100	+/-100	U	25.0	100	P	03/25/2025	13:42	LB135182
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/25/2025	13:42	LB135182
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	13:42	LB135182
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/25/2025	13:42	LB135182
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	13:42	LB135182
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	13:42	LB135182
CCB05	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	14:48	LB135182
	Barium	100	+/-100	U	25.0	100	P	03/25/2025	14:48	LB135182
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/25/2025	14:48	LB135182
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	14:48	LB135182
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/25/2025	14:48	LB135182
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	14:48	LB135182
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	14:48	LB135182
CCB06	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	15:50	LB135182
	Barium	100	+/-100	U	25.0	100	P	03/25/2025	15:50	LB135182
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/25/2025	15:50	LB135182
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	15:50	LB135182

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/25/2025	15:50	LB135182
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	15:50	LB135182
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	15:50	LB135182
CCB07	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	16:44	LB135182
	Barium	100	+/-100	U	25.0	100	P	03/25/2025	16:44	LB135182
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/25/2025	16:44	LB135182
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	16:44	LB135182
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/25/2025	16:44	LB135182
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	16:44	LB135182
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	16:44	LB135182
CCB08	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	17:05	LB135182
	Barium	100	+/-100	U	25.0	100	P	03/25/2025	17:05	LB135182
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	03/25/2025	17:05	LB135182
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	17:05	LB135182
	Lead	12.0	+/-12.0	U	9.60	12.0	P	03/25/2025	17:05	LB135182
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	03/25/2025	17:05	LB135182
	Silver	10.0	+/-10.0	U	5.00	10.0	P	03/25/2025	17:05	LB135182

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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

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Metals
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PREPARATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167133TB		**WATER**		**Batch Number:**		**PB167166**		**Prep Date:**	**03/17/2025**	
	Mercury	2.00	<2.00	U	1.60	2.00	CV	03/18/2025	10:48	LB135064

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167166BL		**WATER**		**Batch Number:**		**PB167166**		**Prep Date:**	**03/17/2025**	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	03/18/2025	10:16	LB135064

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Metals
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PREPARATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167133TB		**WATER**		**Batch Number:**		**PB167161**		**Prep Date:**	**03/17/2025**	
	Arsenic	100	<100	U	80.0	100	P	03/25/2025	15:00	LB135182
	Barium	500	<500	U	125	500	P	03/25/2025	15:00	LB135182
	Cadmium	30.0	<30.0	U	7.50	30.0	P	03/25/2025	15:00	LB135182
	Chromium	50.0	<50.0	U	25.0	50.0	P	03/25/2025	15:00	LB135182
	Lead	60.0	<60.0	U	48.0	60.0	P	03/25/2025	15:00	LB135182
	Selenium	100	<100	U	80.0	100	P	03/25/2025	15:00	LB135182
	Silver	50.0	<50.0	U	25.0	50.0	P	03/25/2025	15:00	LB135182

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167161BL		**WATER**		**Batch Number:**		**PB167161**		**Prep Date:**	**03/17/2025**	
	Arsenic	100	<100	U	80.0	100	P	03/25/2025	14:52	LB135182
	Barium	500	<500	U	125	500	P	03/25/2025	14:52	LB135182
	Cadmium	30.0	<30.0	U	7.50	30.0	P	03/25/2025	14:52	LB135182
	Chromium	50.0	<50.0	U	25.0	50.0	P	03/25/2025	14:52	LB135182
	Lead	60.0	<60.0	U	48.0	60.0	P	03/25/2025	14:52	LB135182
	Selenium	100	<100	U	80.0	100	P	03/25/2025	14:52	LB135182
	Silver	50.0	<50.0	U	25.0	50.0	P	03/25/2025	14:52	LB135182

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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	4.68			-20	20	03/17/2025	14:51	LB135063
	Barium	3.10	6.0	52	-94	106	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
	Lead	7.22			-12	12	03/17/2025	14:51	LB135063
	Selenium	-0.91			-20	20	03/17/2025	14:51	LB135063
	Silver	-2.37			-10	10	03/17/2025	14:51	LB135063
ICSAB01	Arsenic	95.9	104	92	88.4	120	03/17/2025	15:02	LB135063
	Barium	491	537	91	437	637	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
	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
	Silver	224	201	111	170	232	03/17/2025	15:02	LB135063
ICSA01	Arsenic	3.99			-20	20	03/18/2025	10:54	LB135083
	Barium	5.93	6.0	99	-94	106	03/18/2025	10:54	LB135083
	Cadmium	-4.36	1.0	436	-5	7	03/18/2025	10:54	LB135083
	Chromium	60.3	52.0	116	42	62	03/18/2025	10:54	LB135083
	Lead	5.17			-12	12	03/18/2025	10:54	LB135083
	Selenium	-12.3			-20	20	03/18/2025	10:54	LB135083
	Silver	-0.69			-10	10	03/18/2025	10:54	LB135083
ICSAB01	Arsenic	106	104	102	88.4	120	03/18/2025	11:04	LB135083
	Barium	452	537	84	437	637	03/18/2025	11:04	LB135083
	Cadmium	955	972	98	826	1120	03/18/2025	11:04	LB135083
	Chromium	555	542	102	460	624	03/18/2025	11:04	LB135083
	Lead	51.9	49.0	106	37	61	03/18/2025	11:04	LB135083
	Selenium	34.2	46.0	74	26	66	03/18/2025	11:04	LB135083
	Silver	211	201	105	170	232	03/18/2025	11:04	LB135083
ICSA01	Arsenic	4.77			-20	20	03/25/2025	10:27	LB135182
	Barium	-0.56	6.0	9	-94	106	03/25/2025	10:27	LB135182
	Cadmium	-3.57	1.0	357	-5	7	03/25/2025	10:27	LB135182
	Chromium	55.0	52.0	106	42	62	03/25/2025	10:27	LB135182
	Lead	4.19			-12	12	03/25/2025	10:27	LB135182
	Selenium	-9.76			-20	20	03/25/2025	10:27	LB135182
	Silver	-0.0040			-10	10	03/25/2025	10:27	LB135182
ICSAB01	Arsenic	112	104	108	88.4	120	03/25/2025	10:31	LB135182
	Barium	469	537	87	437	637	03/25/2025	10:31	LB135182
	Cadmium	998	972	103	826	1120	03/25/2025	10:31	LB135182
	Chromium	566	542	104	460	624	03/25/2025	10:31	LB135182
	Lead	52.0	49.0	106	37	61	03/25/2025	10:31	LB135182
	Selenium	37.0	46.0	80	26	66	03/25/2025	10:31	LB135182

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INTERFERENCE CHECK SAMPLE

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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	Silver	203	201	101	170	232	03/25/2025	10:31	LB135182

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** Q1569

contract: WEST04 **lab code:** CHEM **case no.:** Q1569 **sas no.:** Q1569

matrix: Water **sample id:** Q1568-04 **client id:** JC-03-03132025MS

Percent Solids for Sample: NA **Spiked ID:** Q1568-04MS **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	87 - 113	4220		100	U	4000	106		P
Barium	ug/L	88 - 113	2690		1710		1000	98		P
Cadmium	ug/L	88 - 113	1000		2.07	J	1000	100		P
Chromium	ug/L	90 - 113	2130		50.0	U	2000	106		P
Lead	ug/L	86 - 113	4920		70.8		5000	97		P
Mercury	ug/L	82 - 119	39.4		2.00	U	40.0	98		CV
Selenium	ug/L	83 - 114	10200		100	U	10000	102		P
Silver	ug/L	84 - 115	396		50.0	U	380	104		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** Q1569

contract: WEST04 **lab code:** CHEM **case no.:** Q1569 **sas no.:** Q1569

matrix: Water **sample id:** Q1568-04 **client id:** JC-03-03132025MSD

Percent Solids for Sample: NA **Spiked ID:** Q1568-04MSD **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	87 - 113	4250		100	U	4000	106		P
Barium	ug/L	88 - 113	2680		1710		1000	97		P
Cadmium	ug/L	88 - 113	1010		2.07	J	1000	101		P
Chromium	ug/L	90 - 113	2150		50.0	U	2000	108		P
Lead	ug/L	86 - 113	4950		70.8		5000	98		P
Mercury	ug/L	82 - 119	38.9		2.00	U	40.0	97		CV
Selenium	ug/L	83 - 114	10300		100	U	10000	103		P
Silver	ug/L	84 - 115	400		50.0	U	380	105		P

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Metals
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Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions **Level:** LOW **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Matrix: Water **Sample ID:** Q1568-04 **Client ID:** JC-03-03132025DUP

Percent Solids for Sample: NA **Duplicate ID** Q1568-04DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	1710		1720		1		P
Cadmium	ug/L	20	2.07	J	2.25	J	8		P
Chromium	ug/L	20	50.0	U	50.0	U			P
Lead	ug/L	20	70.8		66.6		6		P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	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: Weston Solutions **Level:** LOW **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Matrix: Water **Sample ID:** Q1568-04MS **Client ID:** JC-03-03132025MSD

Percent Solids for Sample: NA **Duplicate ID** Q1568-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	4220		4250		1		P
Barium	ug/L	20	2690		2680		0		P
Cadmium	ug/L	20	1000		1010		1		P
Chromium	ug/L	20	2130		2150		1		P
Lead	ug/L	20	4920		4950		1		P
Mercury	ug/L	20	39.4		38.9		1		CV
Selenium	ug/L	20	10200		10300		1		P
Silver	ug/L	20	396		400		1		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: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167161BS							
Arsenic	ug/L	4000	3900		98	87 - 113	P
Barium	ug/L	1000	1050		105	88 - 113	P
Cadmium	ug/L	1000	908		91	88 - 113	P
Chromium	ug/L	2000	1950		98	90 - 113	P
Lead	ug/L	5000	4580		92	86 - 113	P
Selenium	ug/L	10000	10000		100	83 - 114	P
Silver	ug/L	380	373		98	84 - 115	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167166BS							
Mercury	ug/L	4.0	4.60		115	82 - 119	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

JC-03-03132025L

Lab Name: Chemtech Consulting Group **Contract:** WEST04

Lab Code: CHEM **Lb No.:** lb135063 **Lab Sample ID :** Q1568-04L **SDG No.:** Q1569

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	100	U	500	U			P
Barium	1710		1710	J	0		P
Cadmium	2.07	J	150	U	100.0		P
Chromium	50.0	U	250	U			P
Lead	70.8		300	U	100.0		P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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
Barium	493.409	0.0000000	0.0000000	0.0000000	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
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
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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
Barium	493.409	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
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
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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
Barium	493.409	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	0.0000070	0.0002200	0.0000000
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
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120

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ICP INTERELEMENT CORRECTION FACTORS

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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
Barium	493.409	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
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
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Case No.:** Q1569 **SAS No.:** Q1569

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
Barium	493.409	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
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
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Method:**

Case No.: Q1569 **SAS No.:** Q1569

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167161**						
PB167133TB	PB167133TB	MB	WATER	03/17/2025	5.0	25.0	
PB167161BL	PB167161BL	MB	WATER	03/17/2025	5.0	25.0	
PB167161BS	PB167161BS	LCS	WATER	03/17/2025	5.0	25.0	
Q1568-04DUP	JC-03-03132025DUP	DUP	WATER	03/17/2025	5.0	25.0	
Q1568-04MS	JC-03-03132025MS	MS	WATER	03/17/2025	5.0	25.0	
Q1568-04MSD	JC-03-03132025MSD	MSD	WATER	03/17/2025	5.0	25.0	
Q1569-02	TAP-IDW-SOIL-031325-01	SAM	WATER	03/17/2025	5.0	25.0	
Q1569-05	TAP-IDW-SOIL-031325-02	SAM	WATER	03/17/2025	5.0	25.0	

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SAMPLE PREPARATION SUMMARY

Client: Weston Solutions **SDG No.:** Q1569

Contract: WEST04 **Lab Code:** CHEM **Method:**

Case No.: Q1569 **SAS No.:** Q1569

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167166**						
PB167133TB	PB167133TB	MB	WATER	03/17/2025	3.0	30.0	
PB167166BL	PB167166BL	MB	WATER	03/17/2025	30.0	30.0	
PB167166BS	PB167166BS	LCS	WATER	03/17/2025	30.0	30.0	
Q1568-04DUP	JC-03-03132025DUP	DUP	WATER	03/17/2025	3.0	30.0	
Q1568-04MS	JC-03-03132025MS	MS	WATER	03/17/2025	3.0	30.0	
Q1568-04MSD	JC-03-03132025MSD	MSD	WATER	03/17/2025	3.0	30.0	
Q1569-02	TAP-IDW-SOIL-031325-01	SAM	WATER	03/17/2025	3.0	30.0	
Q1569-05	TAP-IDW-SOIL-031325-02	SAM	WATER	03/17/2025	3.0	30.0	

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ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

Lab code: CHEM **Case no.:** Q1569 **Sas no.:** Q1569 **Sdg no.:** Q1569

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	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1409	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1414	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1418	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1422	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1427	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1431	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1438	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1443	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1447	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1451	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1502	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1515	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1527	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1613	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1617	Ag,As,Ba,Cd,Cr,Pb,Se
Q1568-04DUP	JC-03-03132025DUP	1	1635	Ag,As,Ba,Cd,Cr,Pb,Se
Q1568-04L	JC-03-03132025L	5	1639	Ag,As,Ba,Cd,Cr,Pb,Se
Q1568-04MS	JC-03-03132025MS	1	1643	Ag,As,Ba,Cd,Cr,Pb,Se
Q1568-04MSD	JC-03-03132025MSD	1	1647	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1705	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1709	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1751	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1755	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1818	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1822	Ag,As,Ba,Cd,Cr,Pb,Se

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ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

Lab code: CHEM **Case no.:** Q1569 **Sas no.:** Q1569 **Sdg no.:** Q1569

Instrument id number: **Method:** **Run number:** LB135064

Start date: 03/18/2025 **End date:** 03/18/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0934	HG
S0.2	S0.2	1	0936	HG
S2.5	S2.5	1	0939	HG
S5	S5	1	0941	HG
S7.5	S7.5	1	0949	HG
S10	S10	1	0952	HG
ICV46	ICV46	1	0955	HG
ICB46	ICB46	1	0957	HG
CCV20	CCV20	1	0959	HG
CCB20	CCB20	1	1004	HG
CRA	CRA	1	1006	HG
PB167166BL	PB167166BL	1	1016	HG
PB167166BS	PB167166BS	1	1018	HG
Q1568-04DUP	JC-03-03132025DUP	1	1023	HG
Q1568-04MS	JC-03-03132025MS	1	1025	HG
Q1568-04MSD	JC-03-03132025MSD	1	1027	HG
Q1569-02	TAP-IDW-SOIL-031325-01	1	1030	HG
CCV21	CCV21	1	1035	HG
CCB21	CCB21	1	1041	HG
Q1569-05	TAP-IDW-SOIL-031325-02	1	1043	HG
PB167133TB	PB167133TB	1	1048	HG
Q1568-04L	JC-03-03132025L	5	1050	HG
CCV22	CCV22	1	1054	HG
CCB22	CCB22	1	1059	HG

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ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

Lab code: CHEM **Case no.:** Q1569 **Sas no.:** Q1569 **Sdg no.:** Q1569

Instrument id number: **Method:** **Run number:** LB135083

Start date: 03/18/2025 **End date:** 03/18/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1011	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1015	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1020	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1024	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1028	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1032	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1036	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1041	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1045	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1049	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1054	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1104	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1109	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1113	Ag,As,Ba,Cd,Cr,Pb,Se
Q1569-05	TAP-IDW-SOIL-031325-02	1	1136	Ag,As,Ba,Cd,Cr,Pb,Se
Q1569-02	TAP-IDW-SOIL-031325-01	1	1140	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1208	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1217	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1307	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1313	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1407	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1420	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1449	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1453	Ag,As,Ba,Cd,Cr,Pb,Se

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

metals
- 14 -
ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

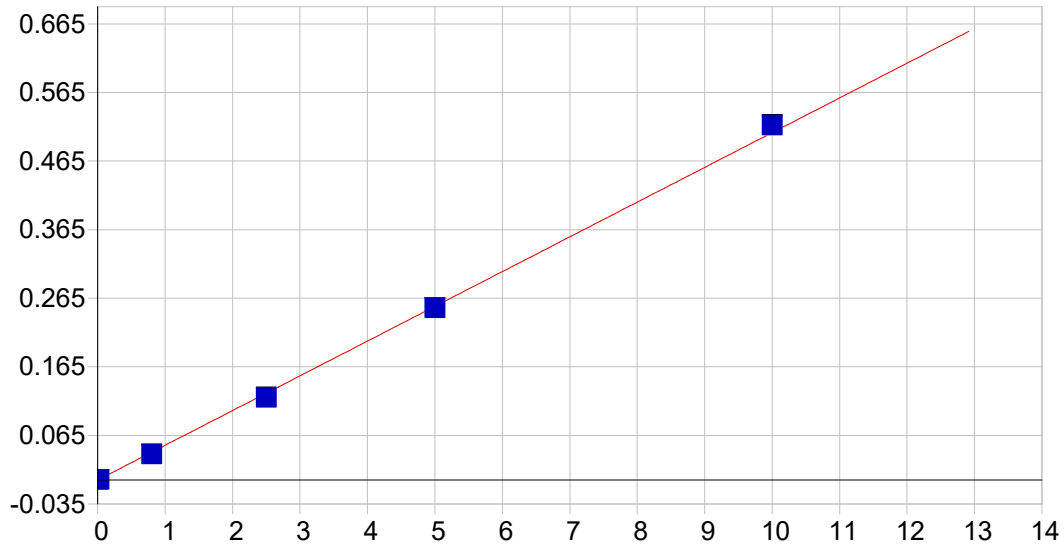
Lab code: CHEM **Case no.:** Q1569 **Sas no.:** Q1569 **Sdg no.:** Q1569

Instrument id number: **Method:** **Run number:** LB135182

Start date: 03/25/2025 **End date:** 03/25/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0938	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	0942	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	0946	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	0950	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	0954	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	0959	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1003	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1014	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1018	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1022	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1027	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1031	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1035	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1040	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1127	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1131	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1229	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1233	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1333	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1342	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1438	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1448	Ag,As,Ba,Cd,Cr,Pb,Se
PB167161BL	PB167161BL	1	1452	Ag,As,Ba,Cd,Cr,Pb,Se
PB167133TB	PB167133TB	1	1500	Ag,As,Ba,Cd,Cr,Pb,Se
PB167161BS	PB167161BS	1	1512	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1546	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1550	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1640	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1644	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1701	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1705	Ag,As,Ba,Cd,Cr,Pb,Se

METAL
RAW DATA

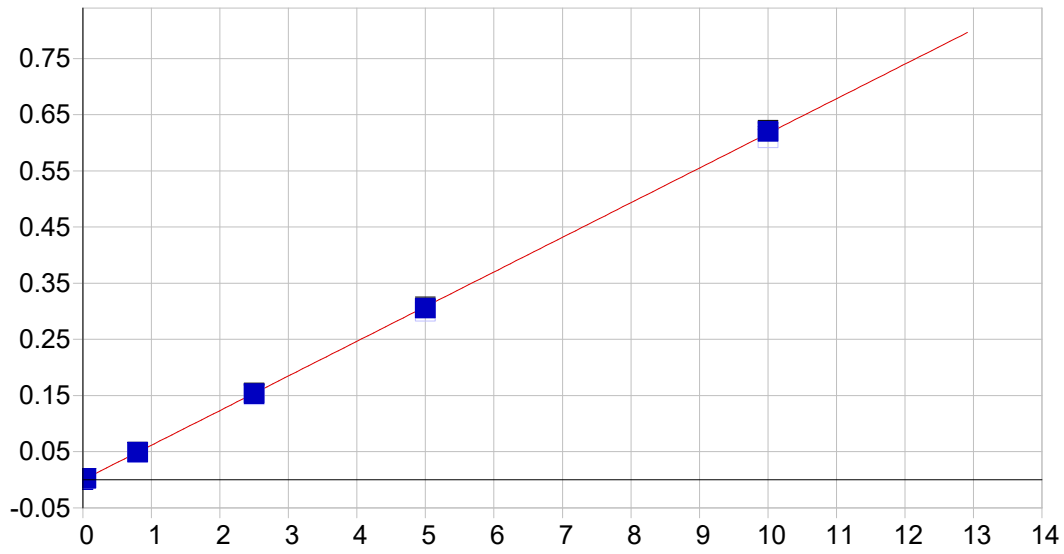


As 189.042 {479}

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

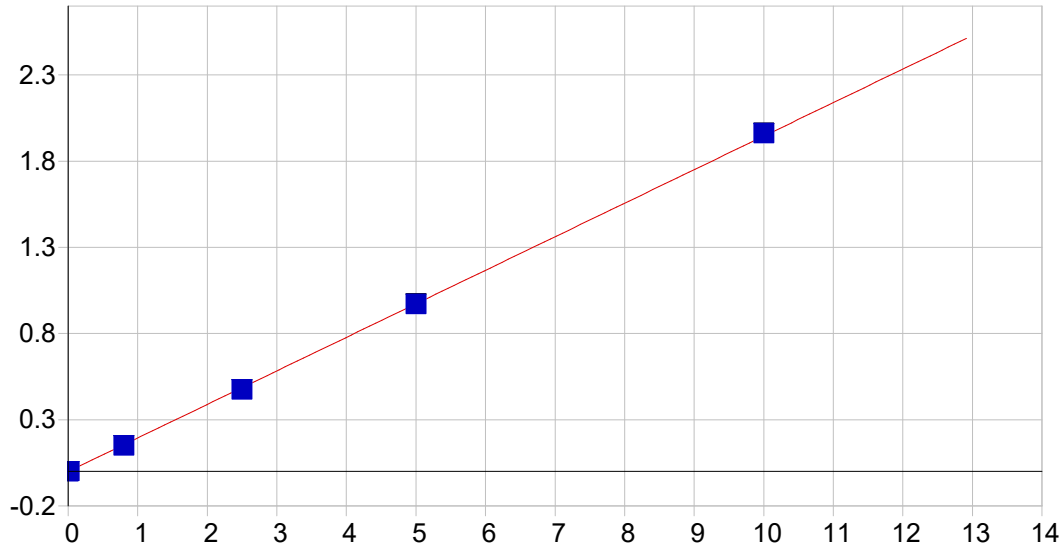


Tl 190.856 {477}

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

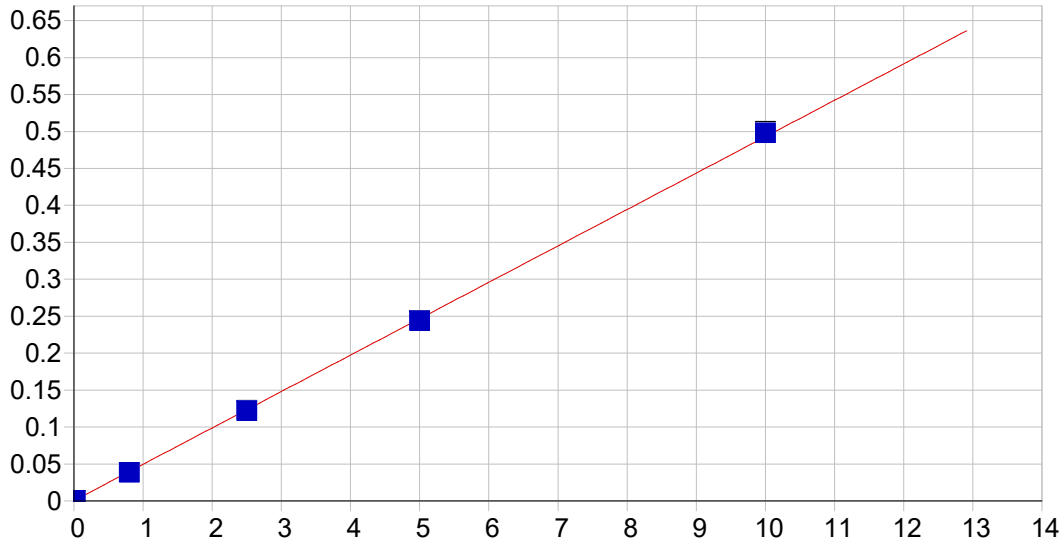


Pb 220.353 {453}

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

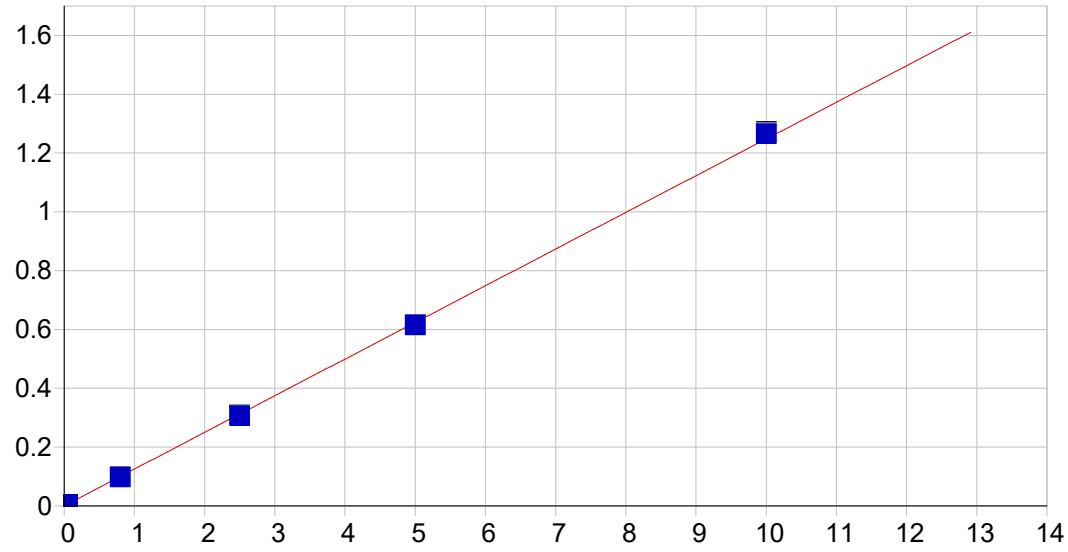


Se 196.090 {472}

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

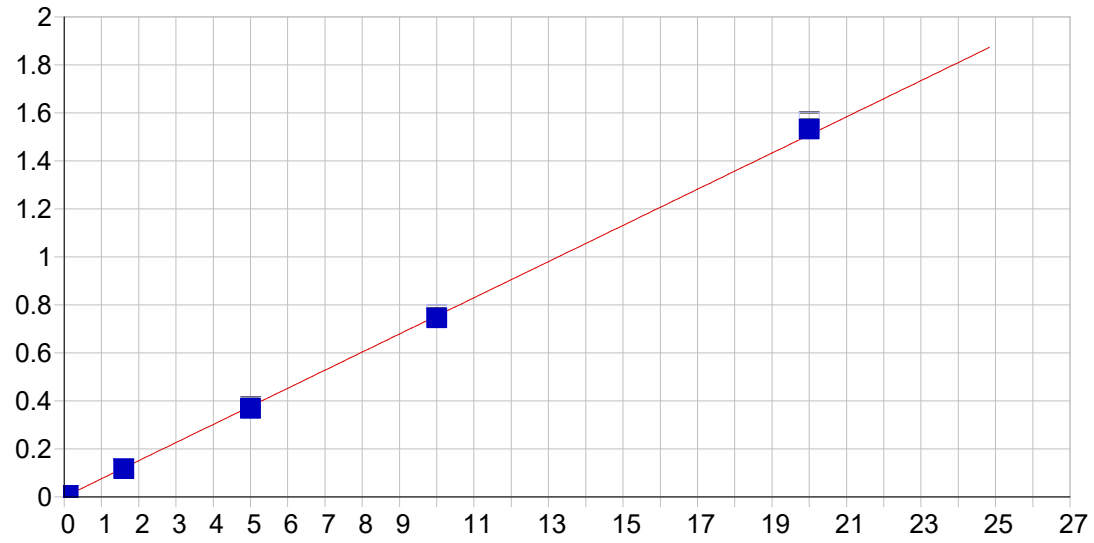


Sb 206.833 {463}

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

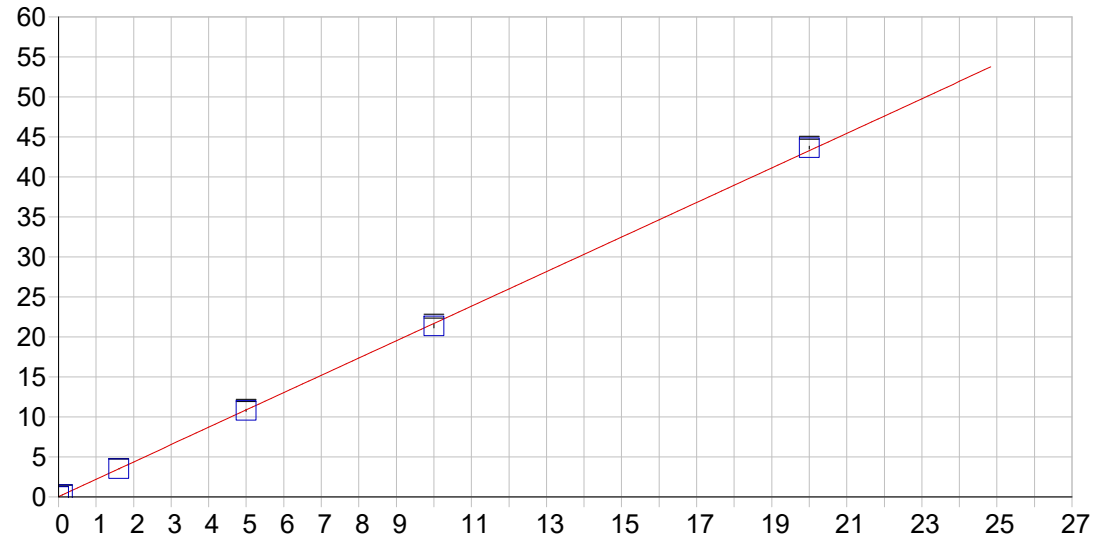


Al 396.152 { 85}

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

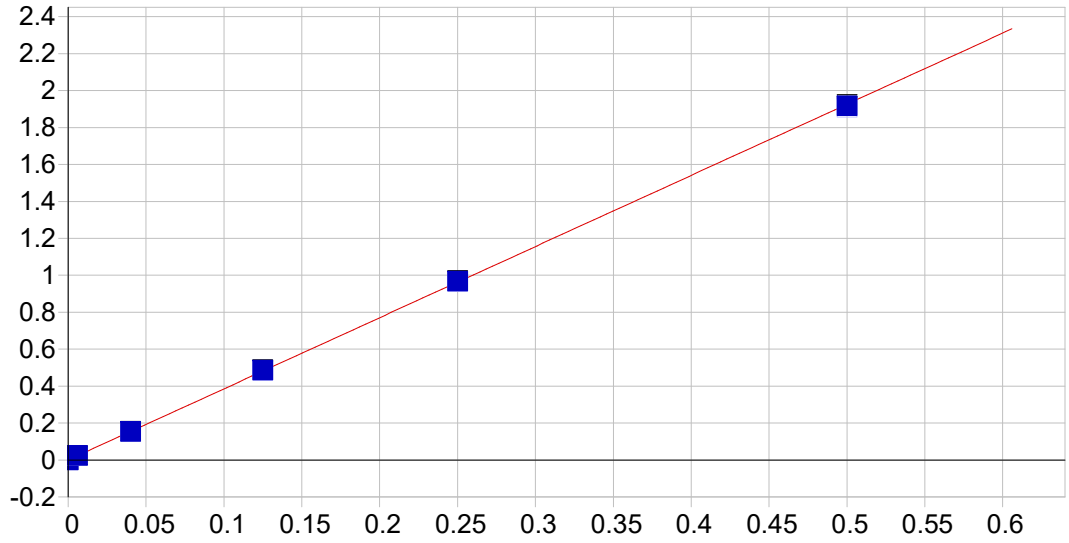


Ba 493.409 { 68}

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

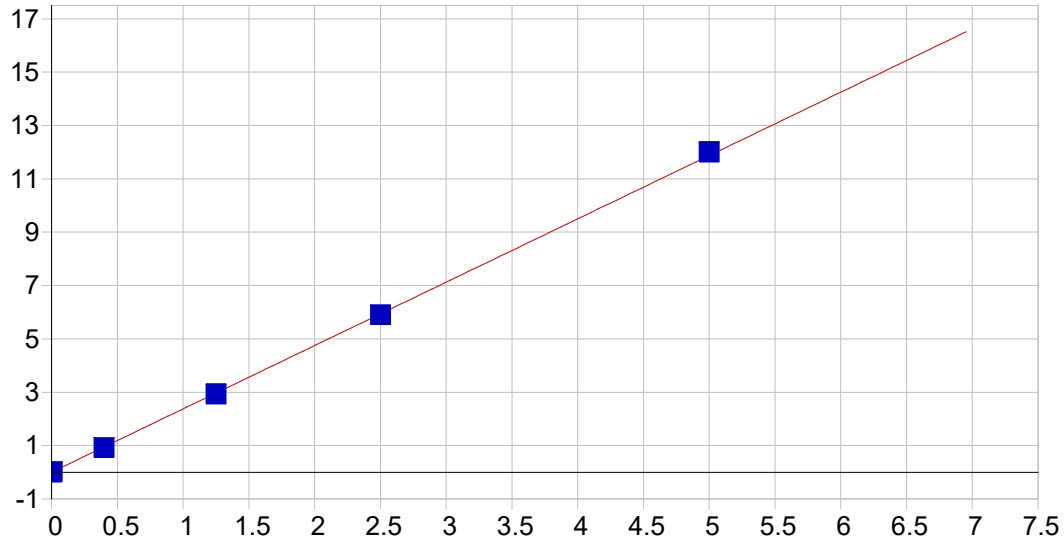


Be 234.861 {144}

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

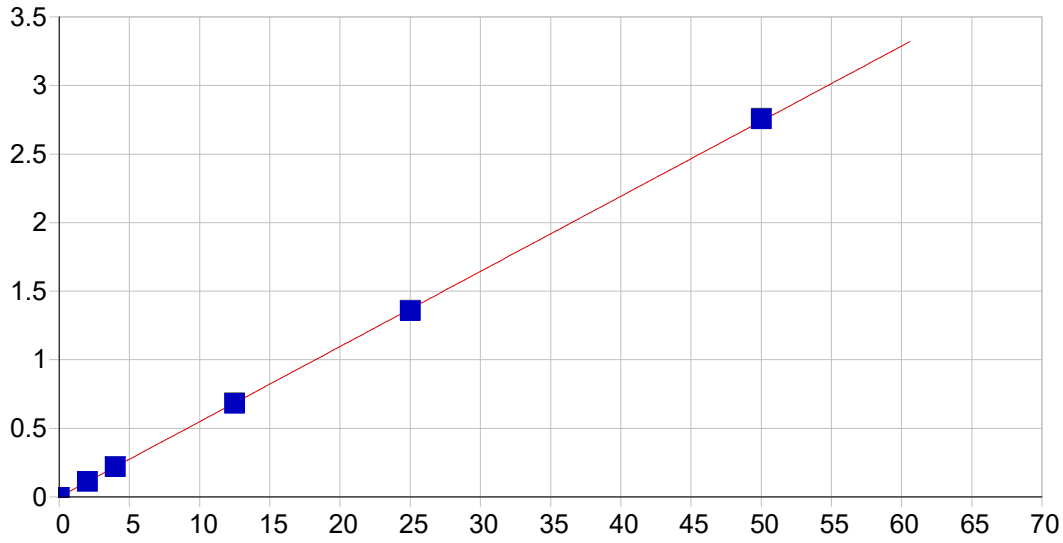


Cd 226.502 {449}

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

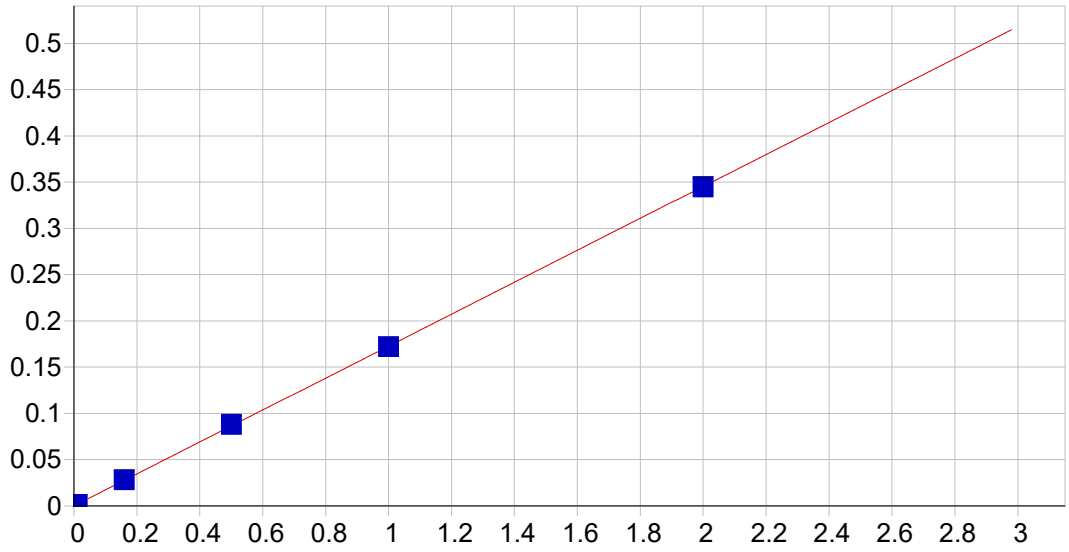


Ca 373.690 { 90}

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

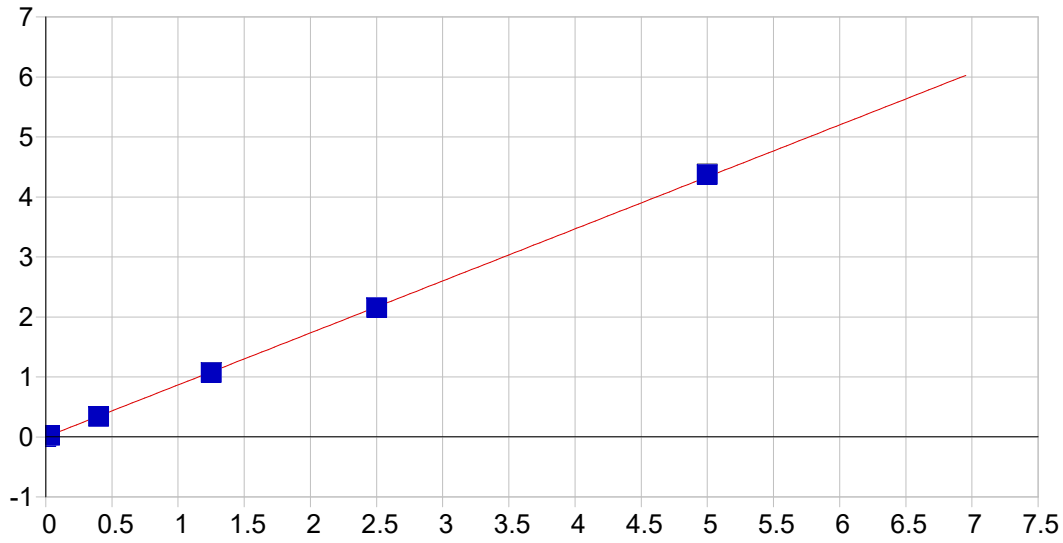


Cr 267.716 {126}

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

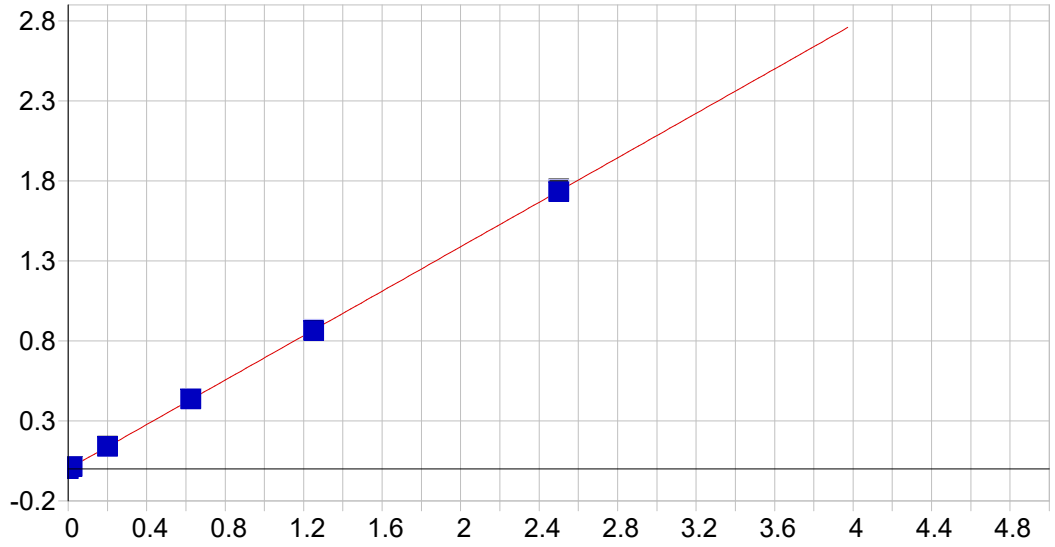


Co 228.616 {448}

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

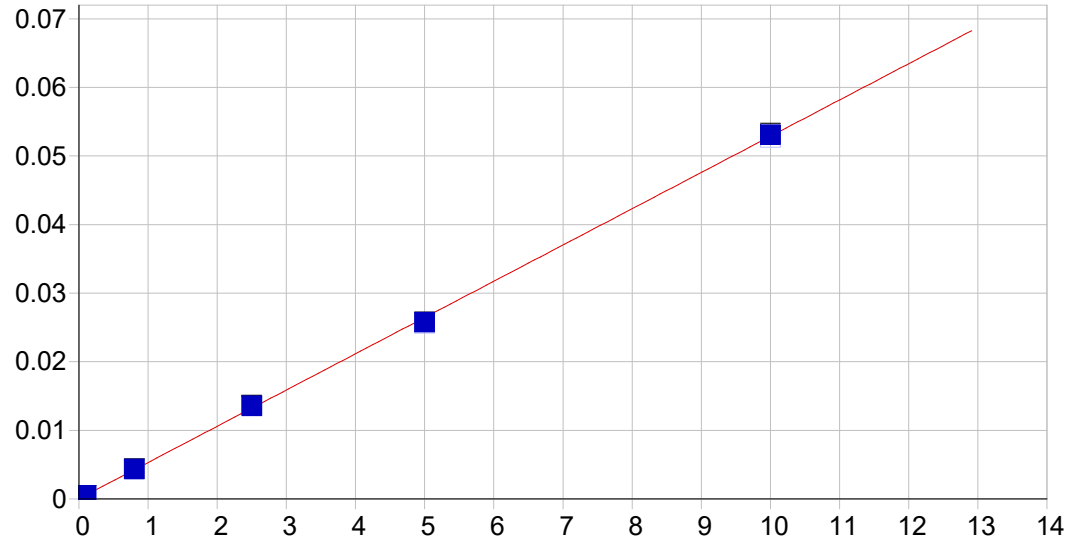


Cu 224.700 {450}

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

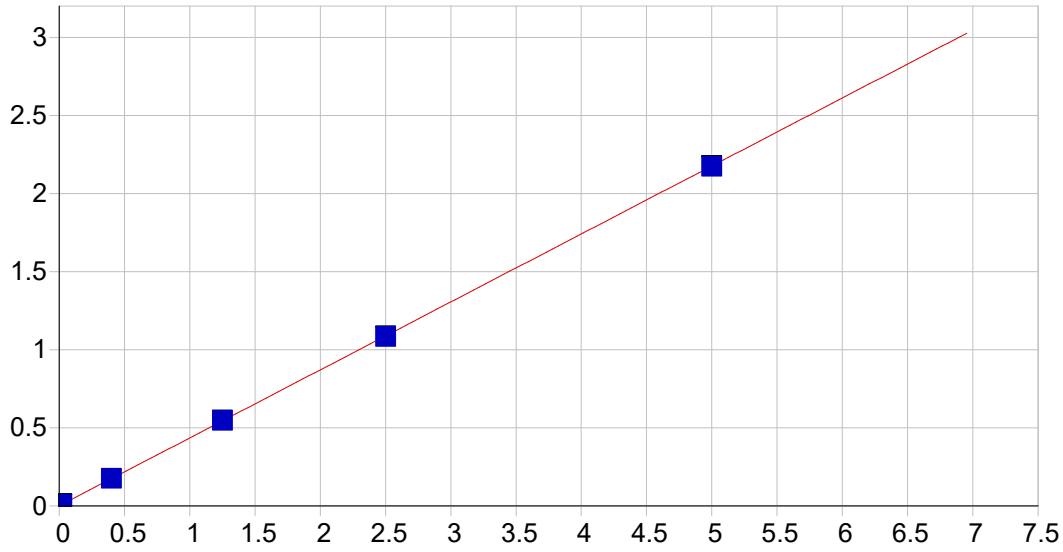


Fe 240.488 {140}

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

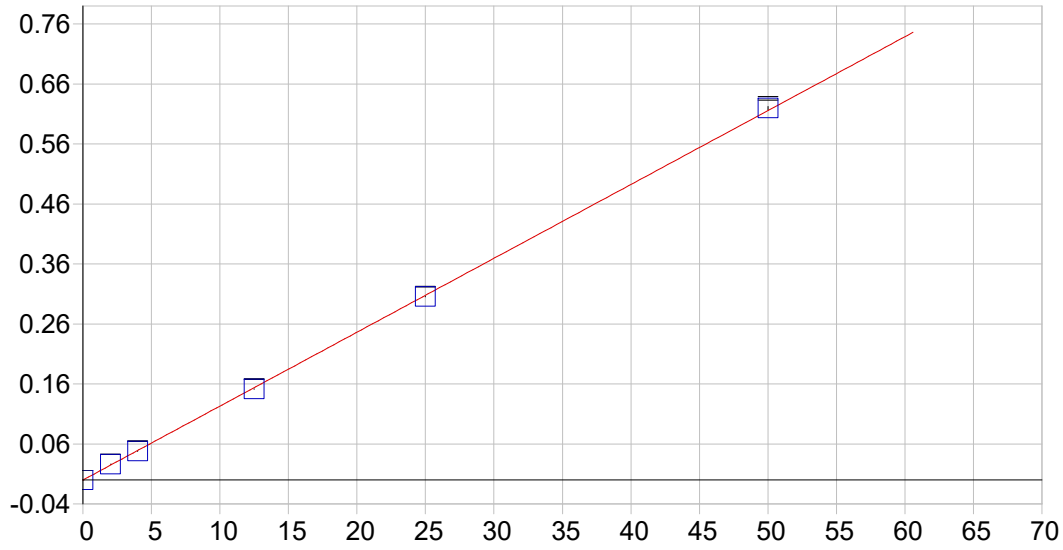


Mn 257.610 {131}

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

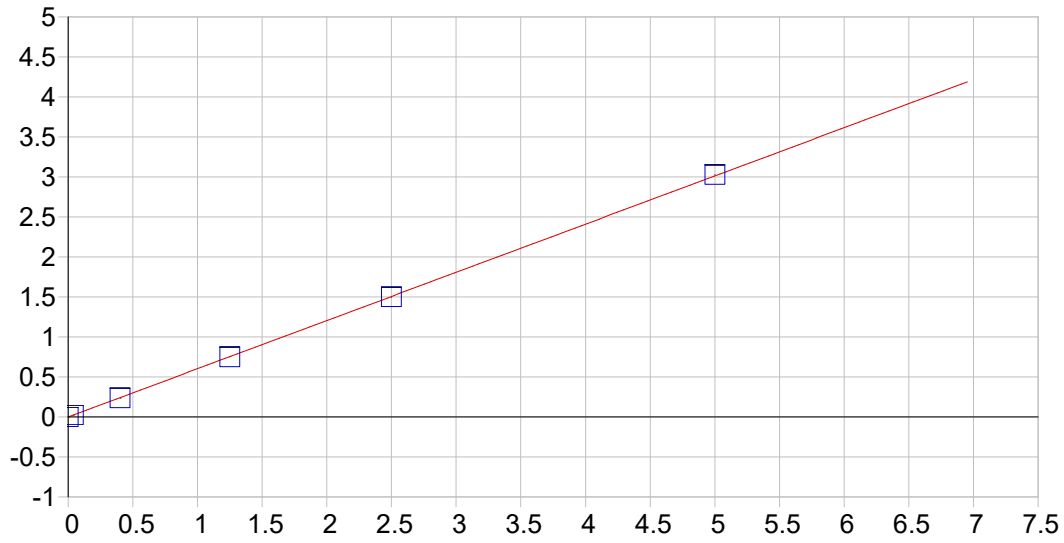


Mg 279.079 {121}

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

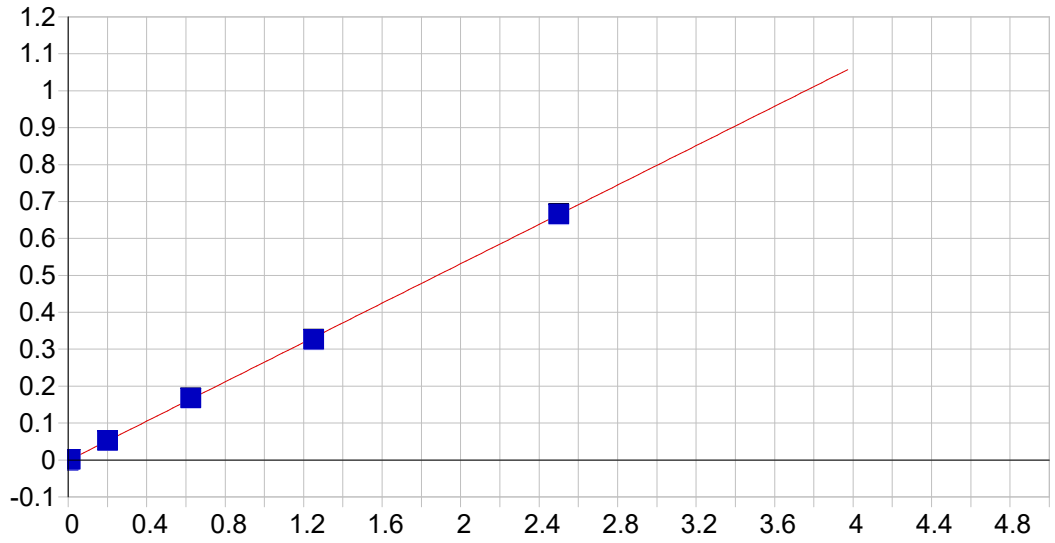


Ni 231.604 {446}

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

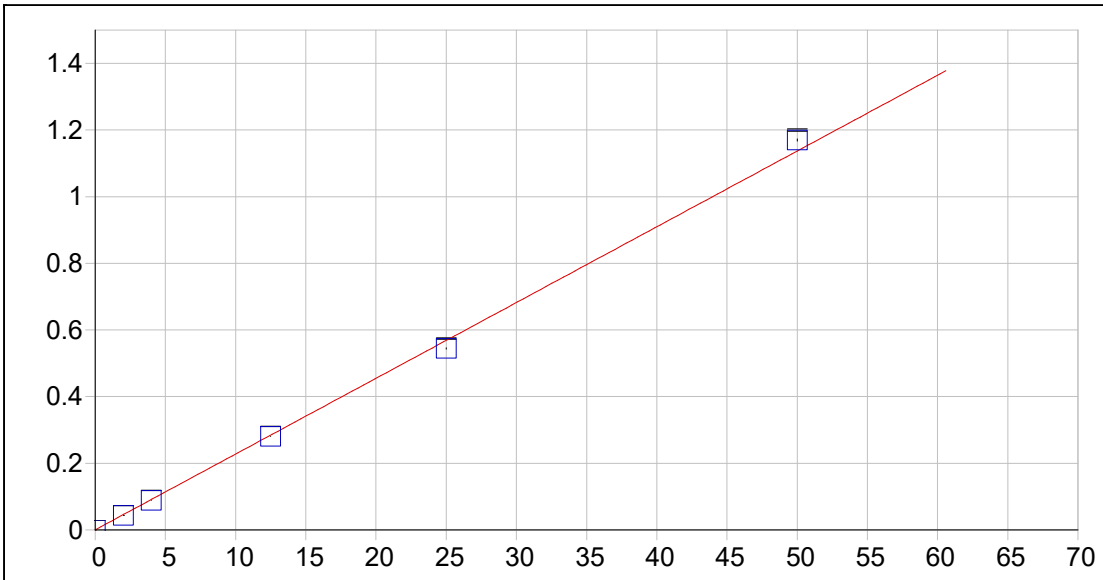


Ag 328.068 {103}

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

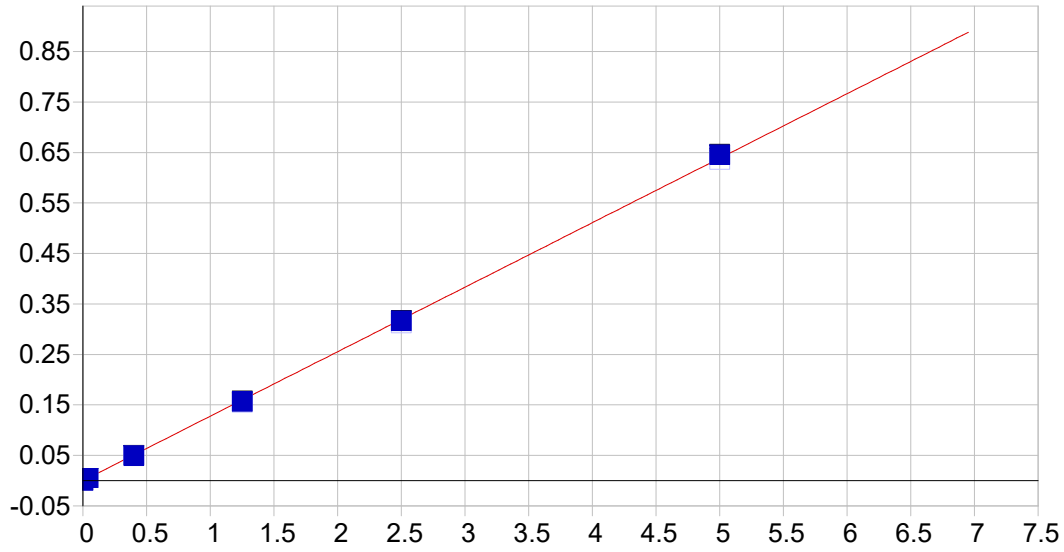


Na 589.592 { 57}

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

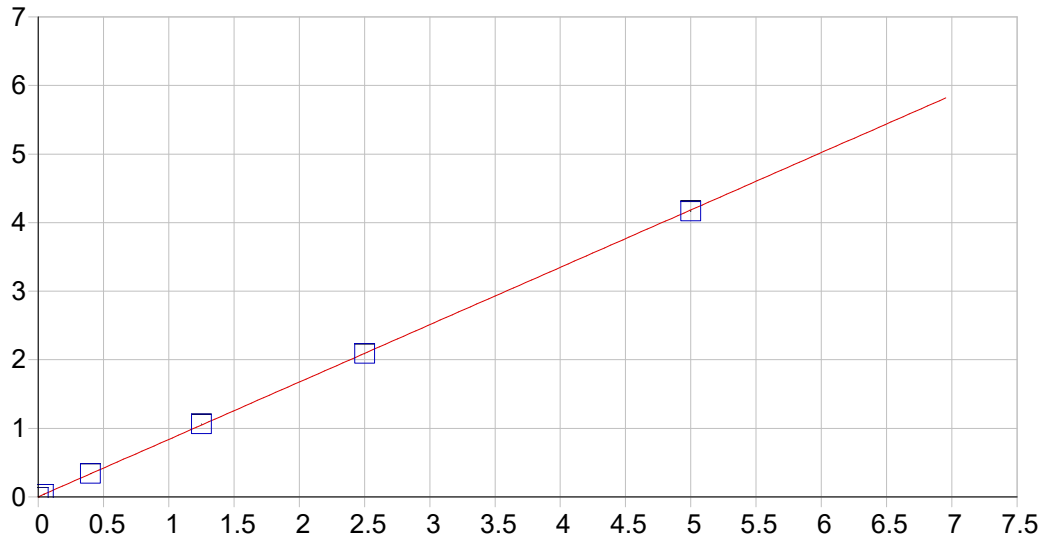


V 292.402 {115}

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

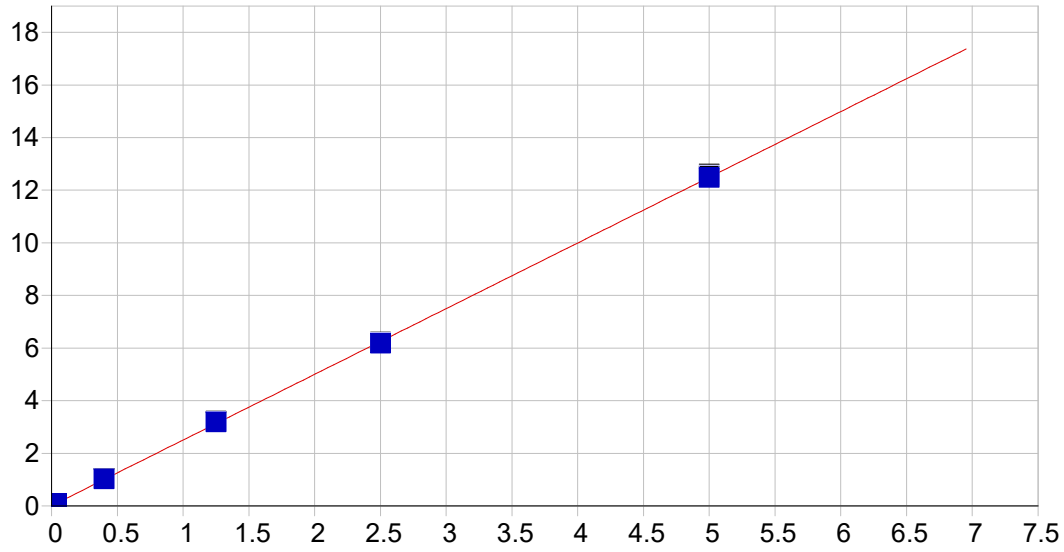


Zn 206.200 {464}

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

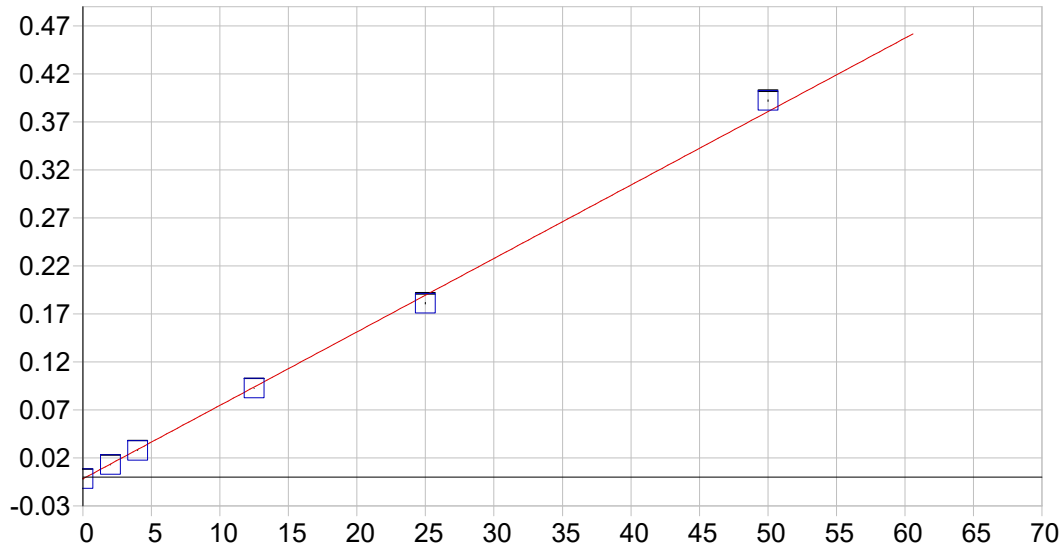


Zn 213.856 {158}

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

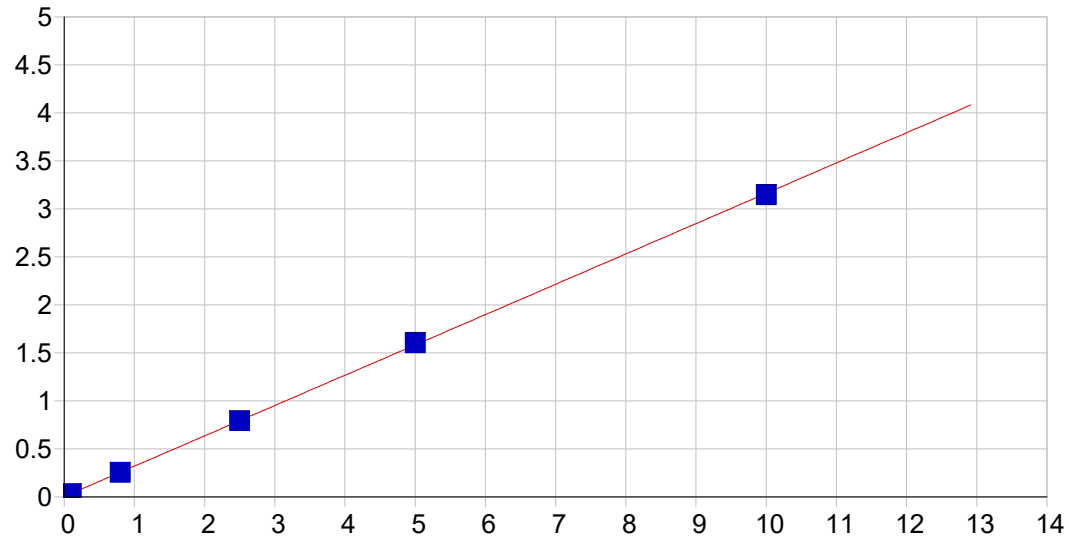


K 766.490 { 44}

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

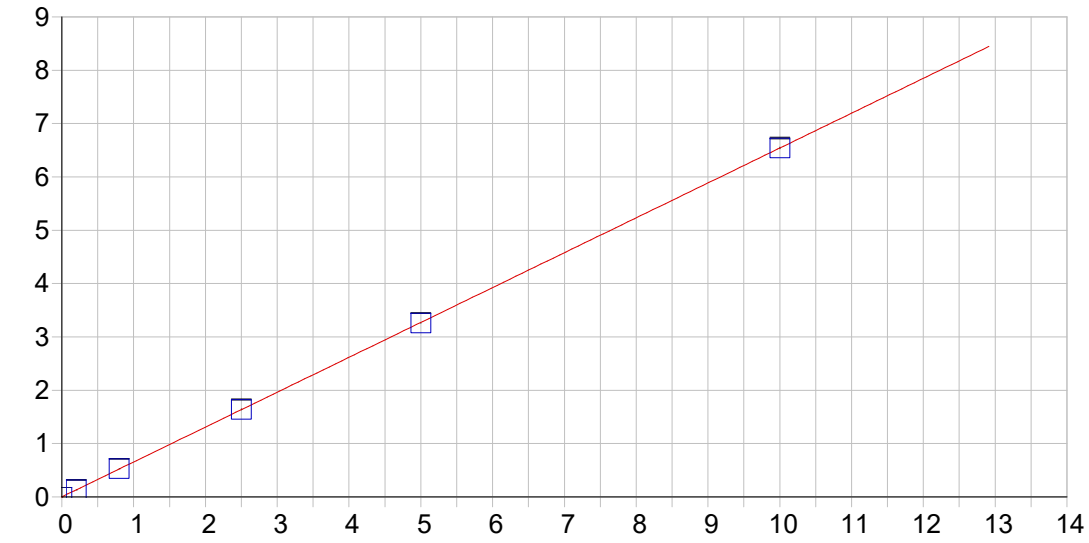


B 249.678 {135}

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

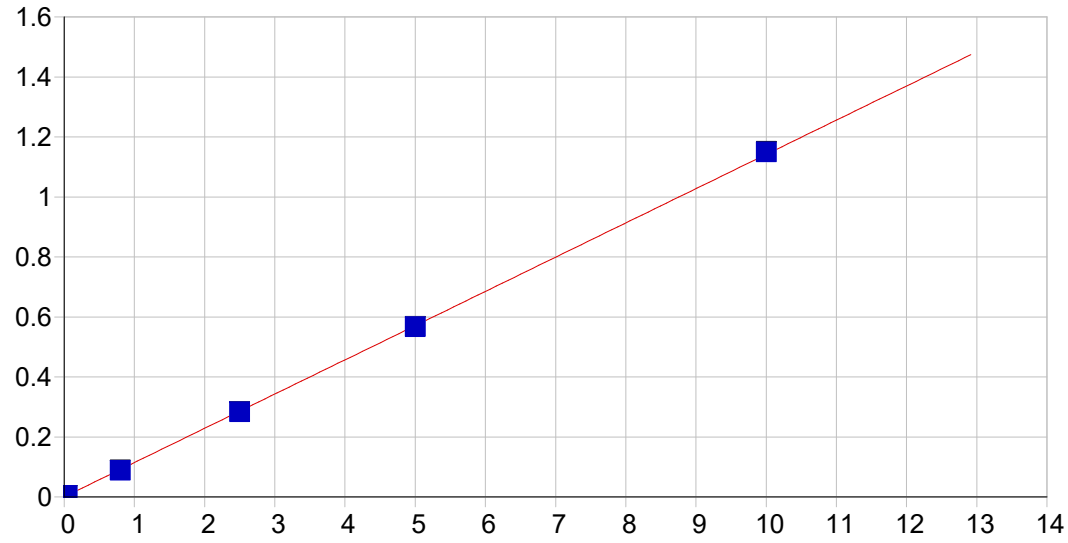


Mo 202.030 {467}

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

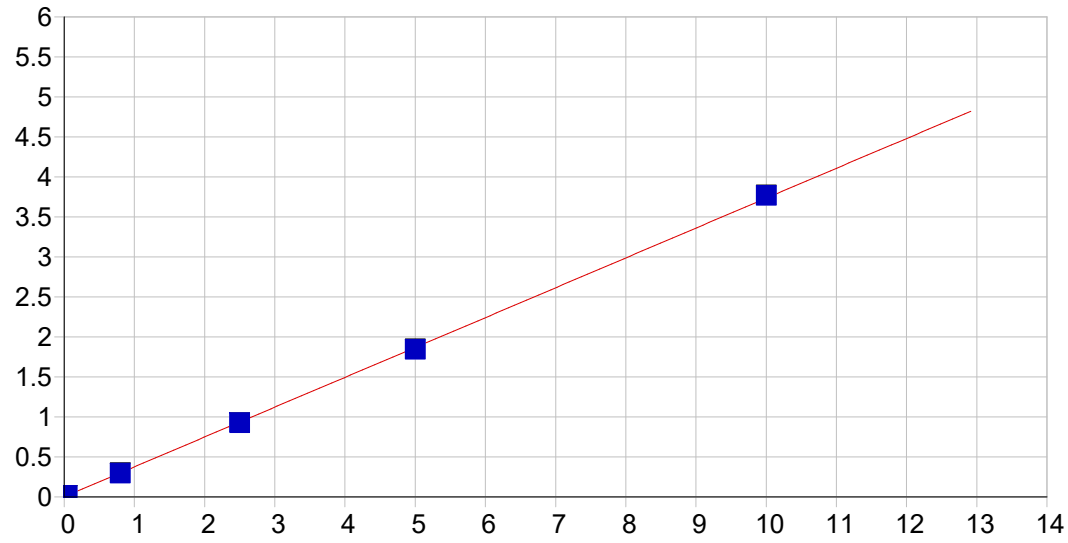


Sn 189.989 {478}

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

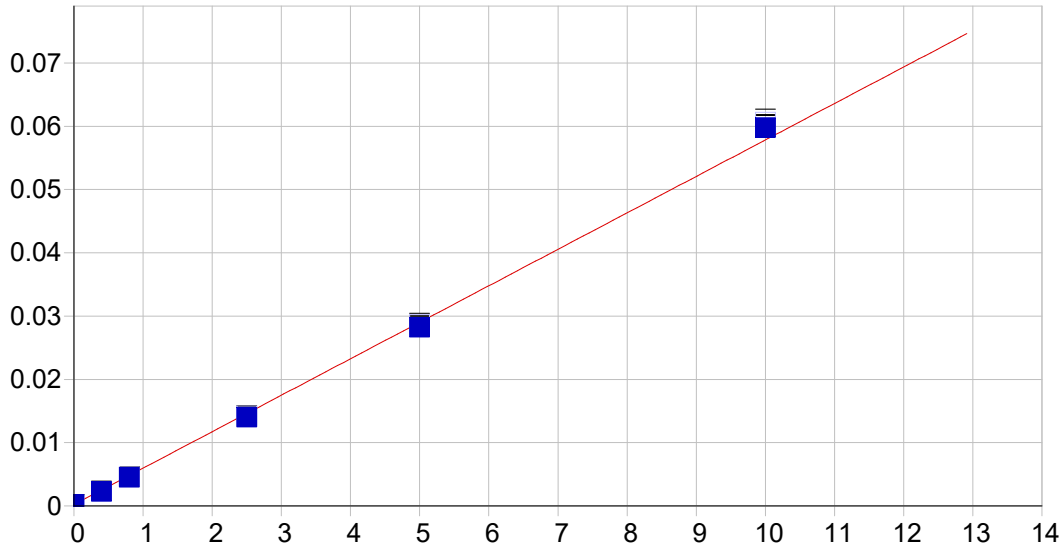


Ti 336.121 {100}

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

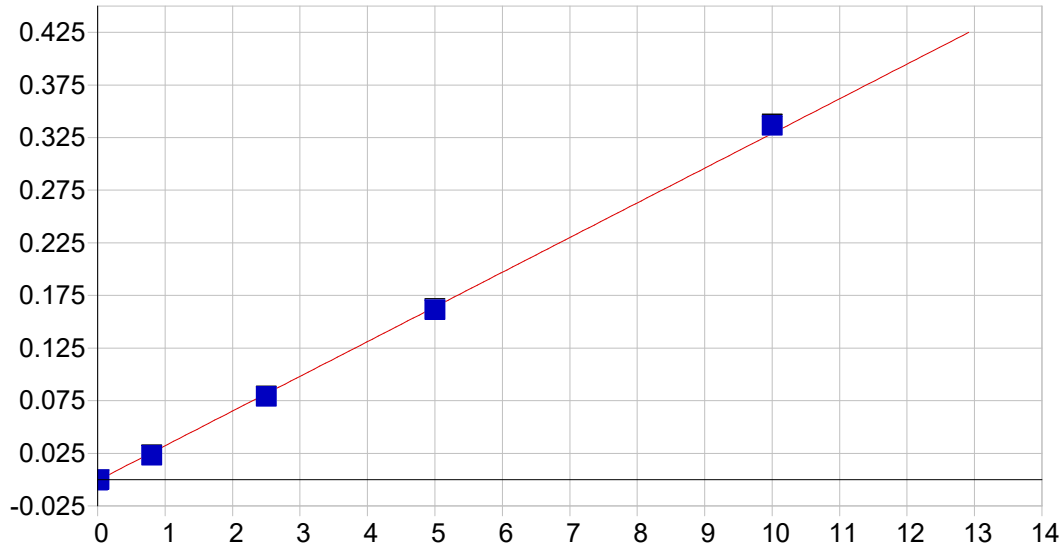


Si 288.158 {117}

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

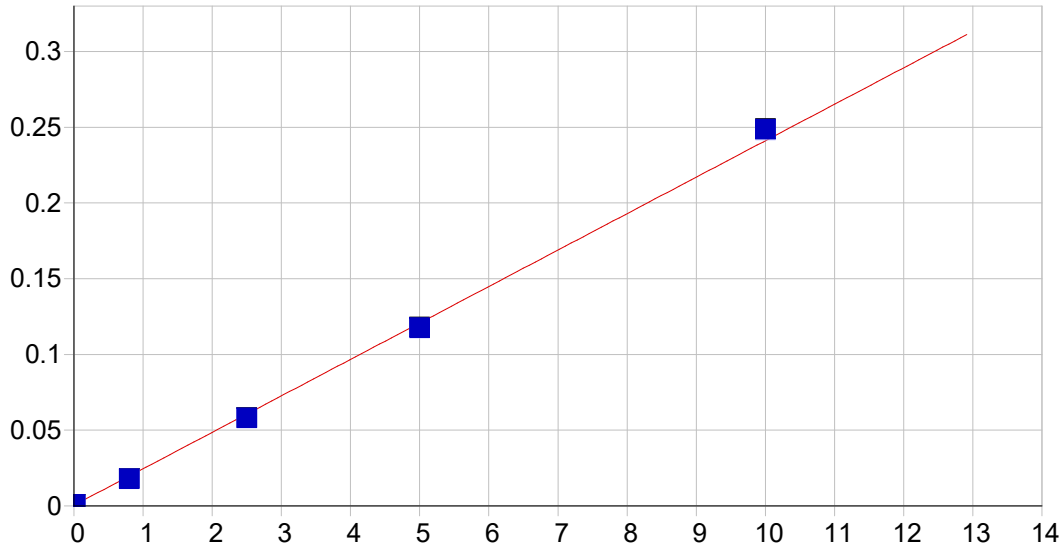


P 177.495 {490}

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

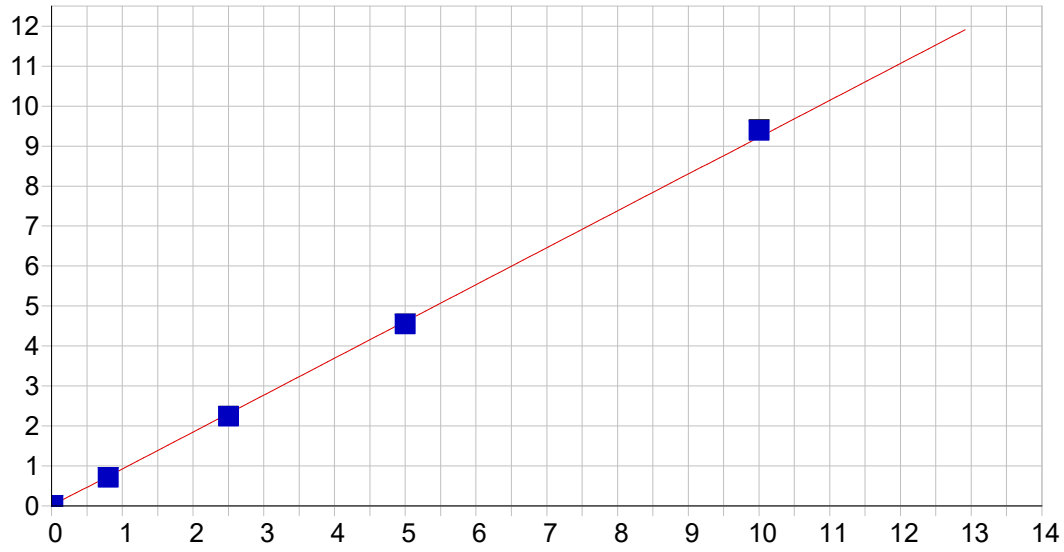


S 182.034 {485}

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

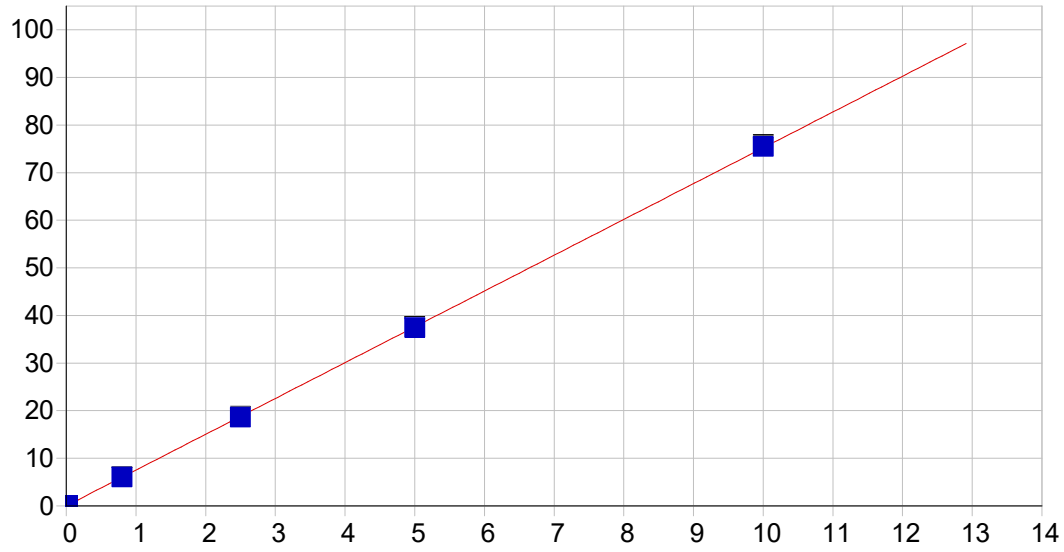


Li 670.784 { 50}

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

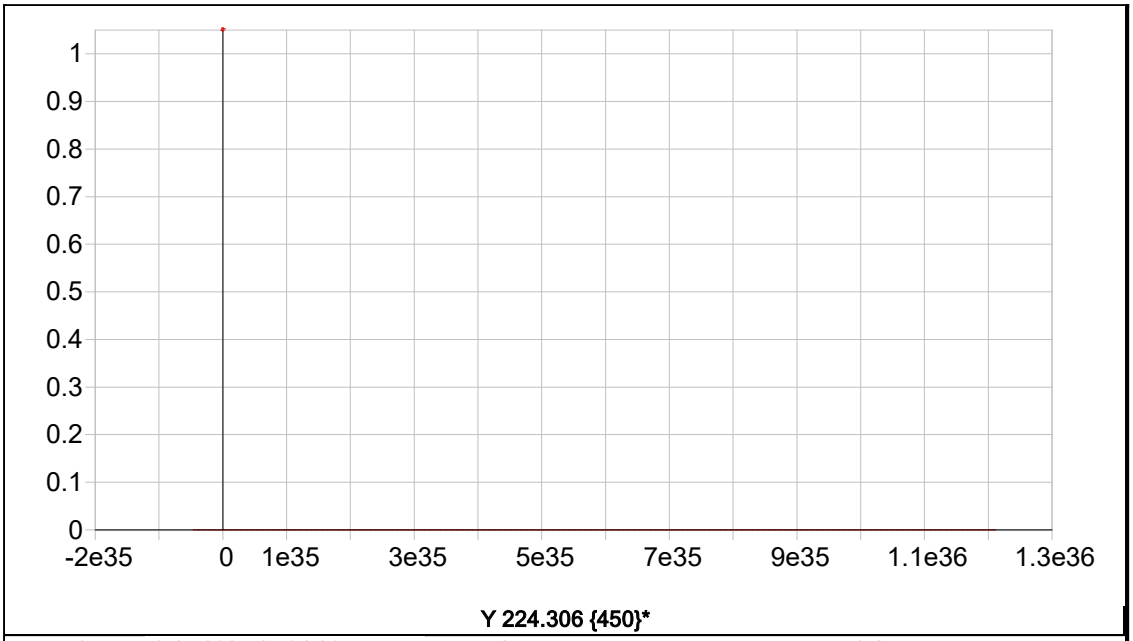


Sr 407.771 { 83}

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

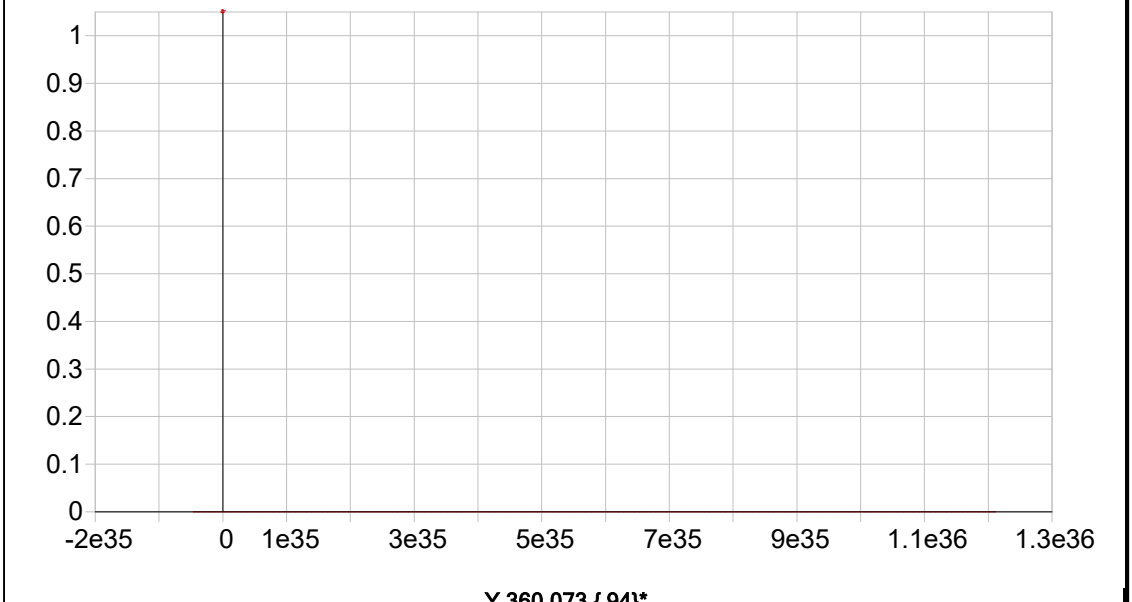


Y 224.306 {450}*

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



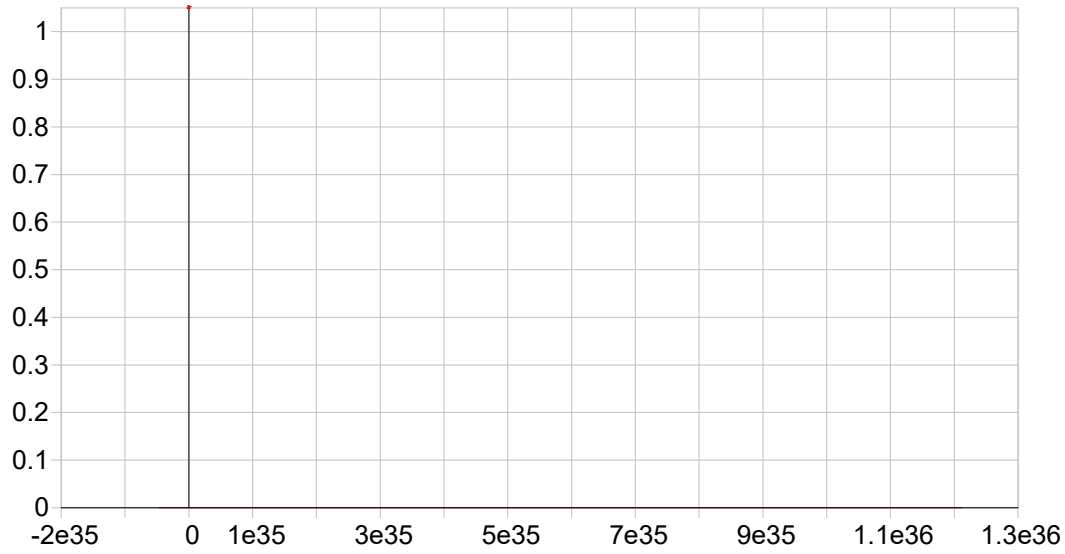
Y 360.073 { 94}*

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

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					

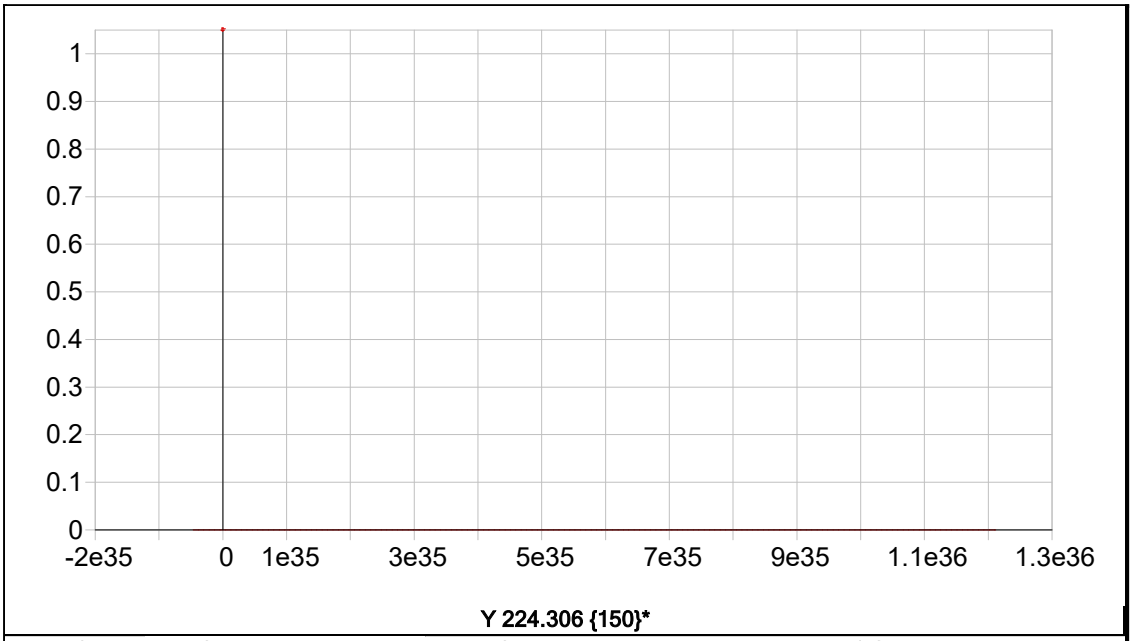
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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				

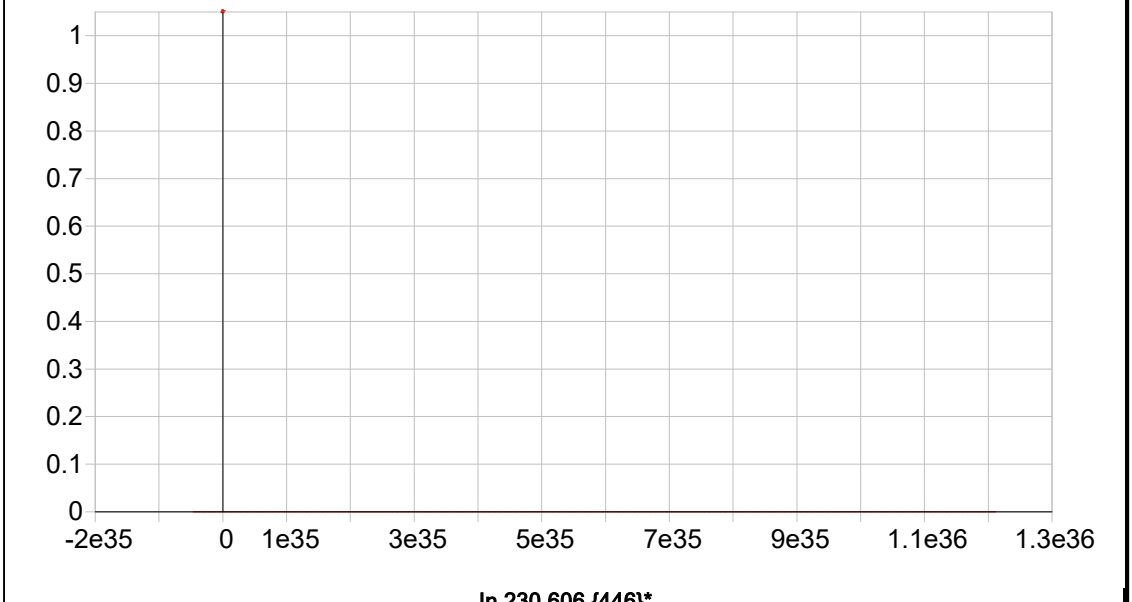
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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	

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:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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

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

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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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

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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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:jaswal
On:3/20/2025 11:15:13 AM
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

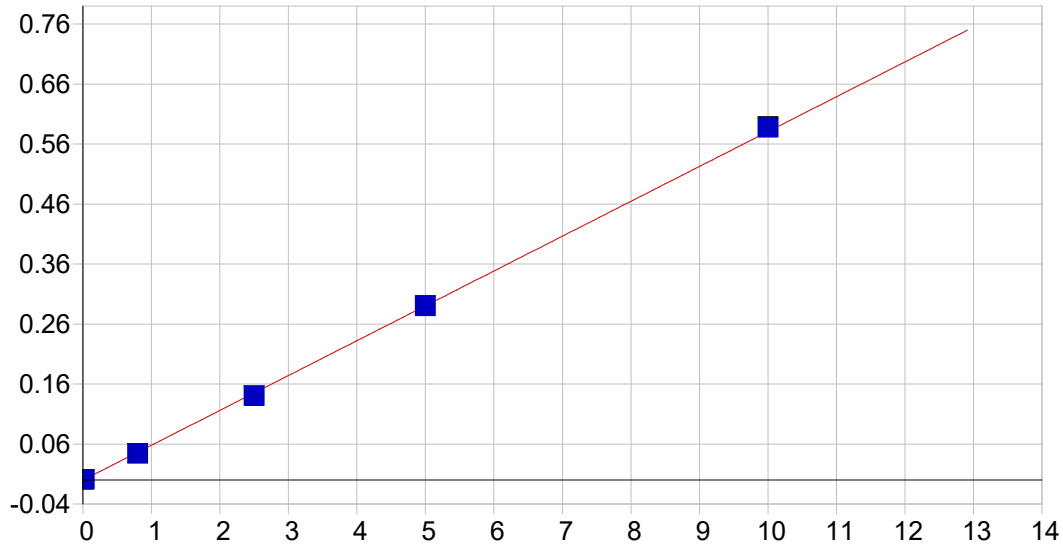
Reviewed By:jaswal
On:3/20/2025 11:15:13 AM
Inst Id :P4
LB :LB135063

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

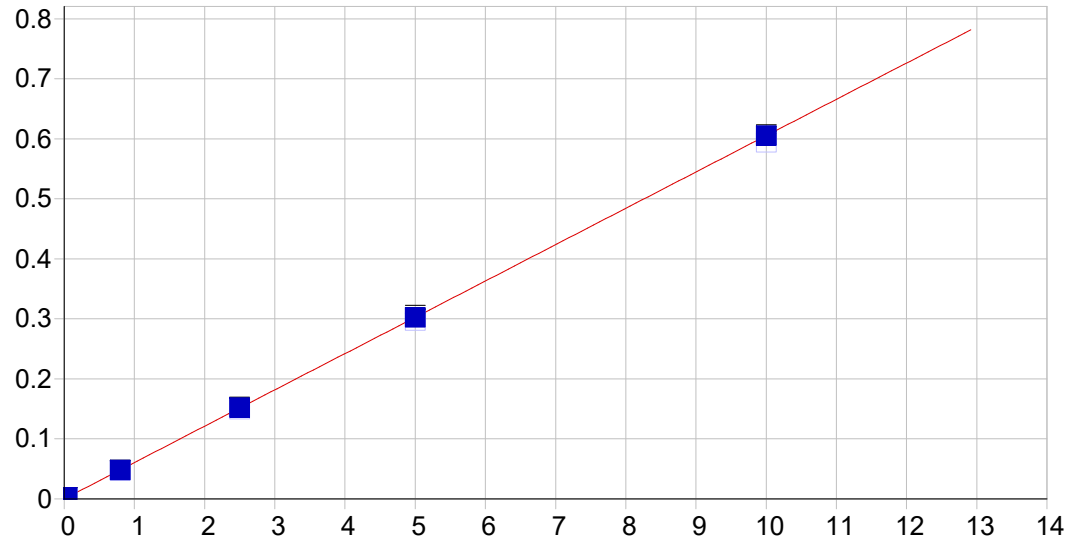


As 189.042 {479}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000131	Re-Slope:	1.000000
A1 (Gain):	0.058084	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999836	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.002613		
Predicted MQL:	0.008710		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00013	.000	1
S1	.02000	.02039	.000	1.93	.00105	.000	1
S3	2.5000	2.4207	-.079	-3.17	.14032	.000	1
S4	5.0000	4.9942	-.006	-.115	.28964	.001	1
S5	10.000	10.124	.124	1.24	.58727	.001	1
S2	.80000	.76076	-.039	-4.90	.04401	.000	1

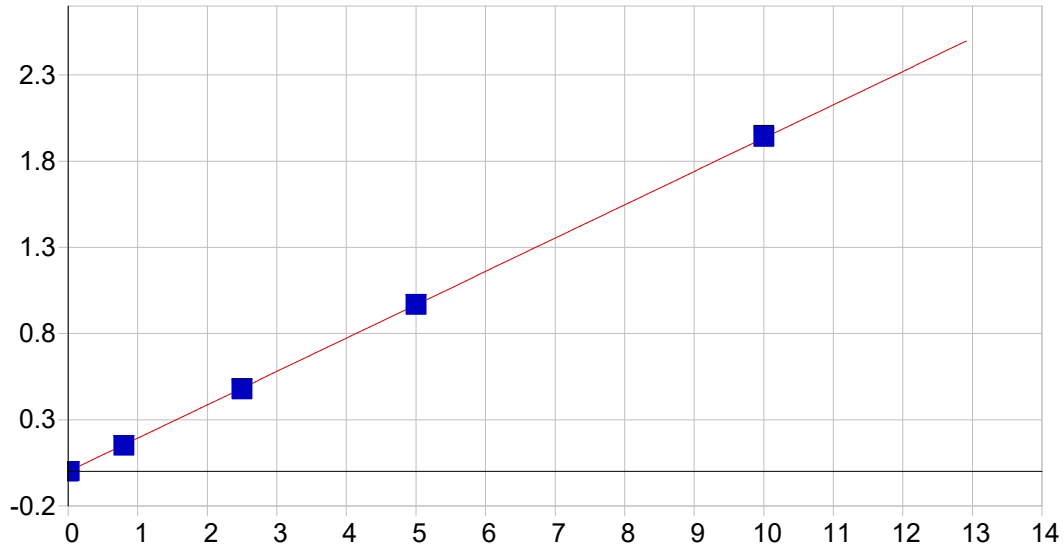


Tl 190.856 {477}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000057	Re-Slope:	1.000000
A1 (Gain):	0.060511	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	0.001885		
Predicted MQL:	0.006282		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00006	.000	1
S1	.04000	.03949	-.001	-1.28	.00229	.000	1
S3	2.5000	2.5139	.014	.556	.14939	.001	1
S4	5.0000	4.9959	-.004	-.082	.29679	.003	1
S5	10.000	10.002	.002	.021	.59415	.002	1
S2	.80000	.78855	-.011	-1.43	.04688	.000	1

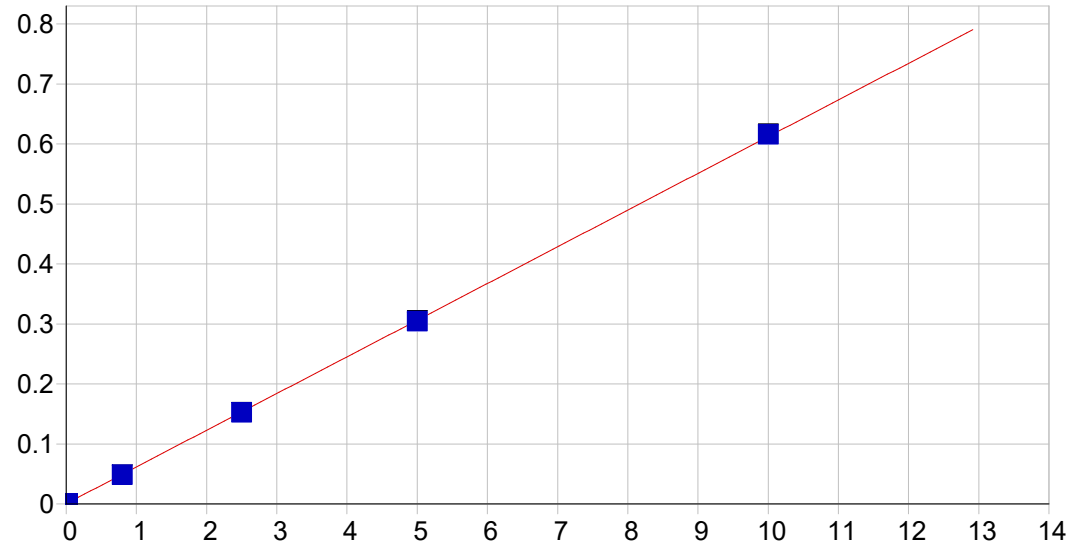


Pb 220.353 {453}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000173	Re-Slope:	1.000000
A1 (Gain):	0.193389	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999967	Status:	OK.
Std Error of Est:	0.000029		
Predicted MDL:	0.001479		
Predicted MQL:	0.004931		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00017	.000	1
S1	.01200	.01164	-.000	-3.04	.00203	.000	1
S3	2.5000	2.4686	-.031	-1.26	.47670	.002	1
S4	5.0000	5.0080	.008	.161	.96726	.001	1
S5	10.000	10.045	.045	.453	1.9404	.007	1
S2	.80000	.77837	-.022	-2.70	.15019	.000	1

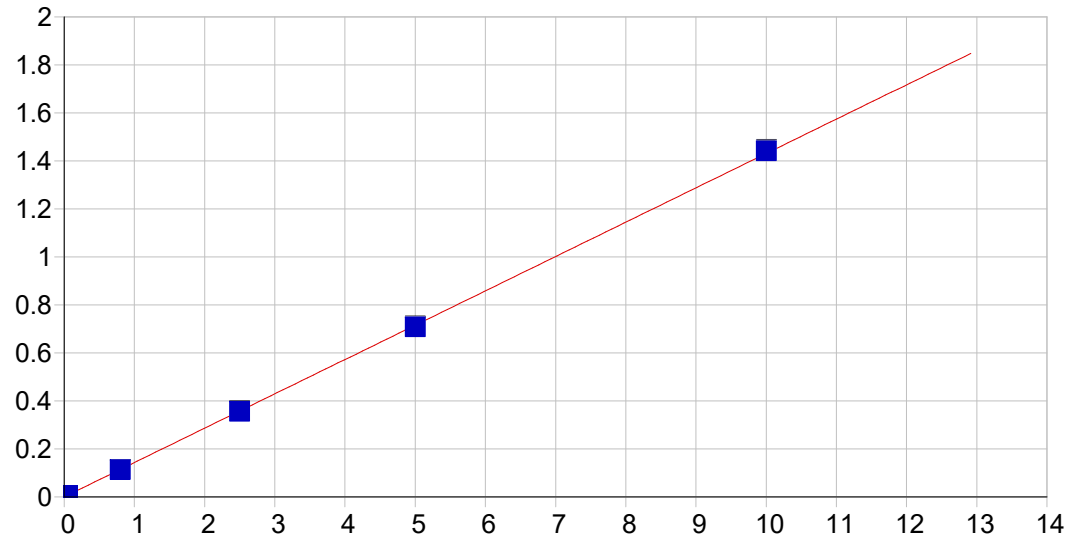


Se 196.090 {472}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000398	Re-Slope:	1.000000
A1 (Gain):	0.061172	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.003045		
Predicted MQL:	0.010151		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00040	.000	1
S1	.02000	.01565	-.004	-21.7	.00136	.000	1
S3	2.5000	2.4885	-.012	-.462	.15257	.000	1
S4	5.0000	4.9689	-.031	-.622	.30425	.001	1
S5	10.000	10.063	.063	.635	.61579	.001	1
S2	.80000	.78353	-.016	-2.06	.04831	.000	1

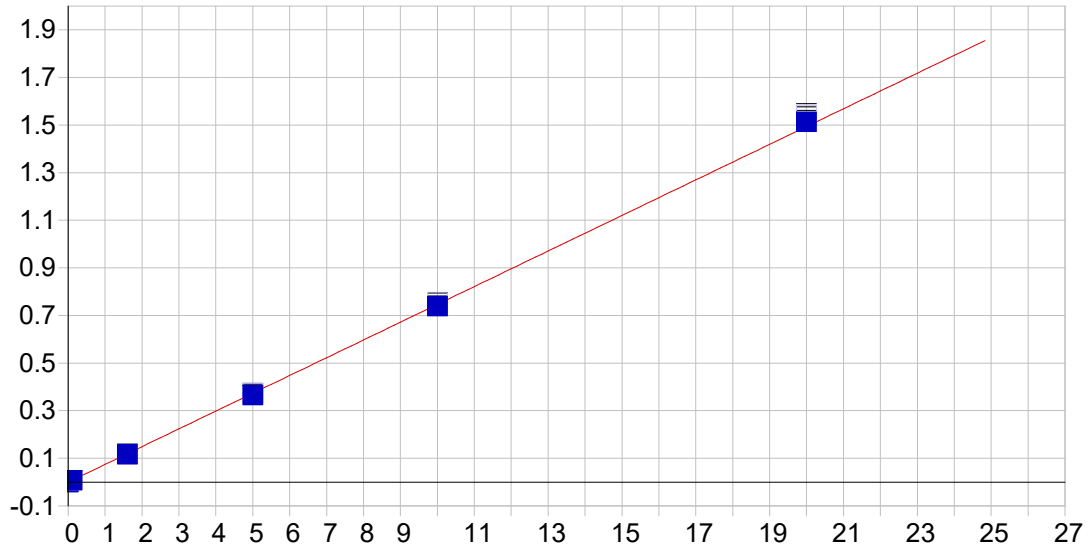


Sb 206.833 {463}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000135	Re-Slope:	1.000000
A1 (Gain):	0.143071	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999956	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.001966		
Predicted MQL:	0.006552		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00014	.000	1
S1	.05000	.05271	.003	5.42	.00769	.000	1
S3	2.5000	2.4892	-.011	-.432	.35724	.001	1
S4	5.0000	4.9442	-.056	-1.12	.70945	.003	1
S5	10.000	10.077	.077	.766	1.4457	.002	1
S2	.80000	.78730	-.013	-1.59	.11309	.000	1

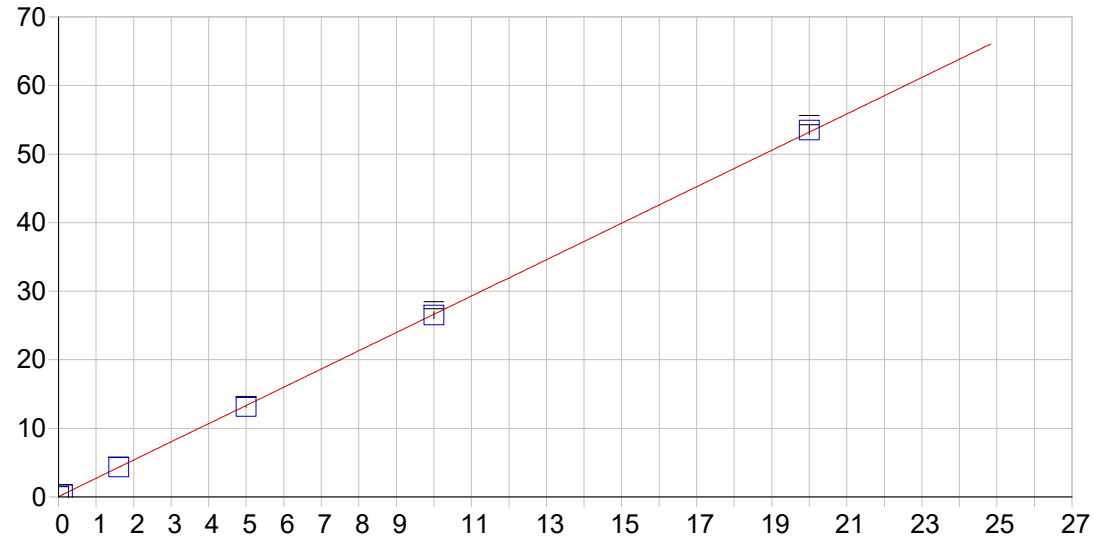


Al 396.152 { 85}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000305	Re-Slope:	1.000000
A1 (Gain):	0.074709	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999897	Status:	OK.
Std Error of Est:	0.000081		
Predicted MDL:	0.007228		
Predicted MQL:	0.024092		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00031	.000	1
S1	.10000	.10223	.002	2.23	.00791	.000	1
S3	5.0000	4.8965	-.104	-2.07	.37275	.001	1
S4	10.000	9.8917	-.108	-1.08	.75319	.001	1
S5	20.000	20.255	.255	1.27	1.5419	.007	1
S2	1.6000	1.5546	-.045	-2.83	.11816	.000	1

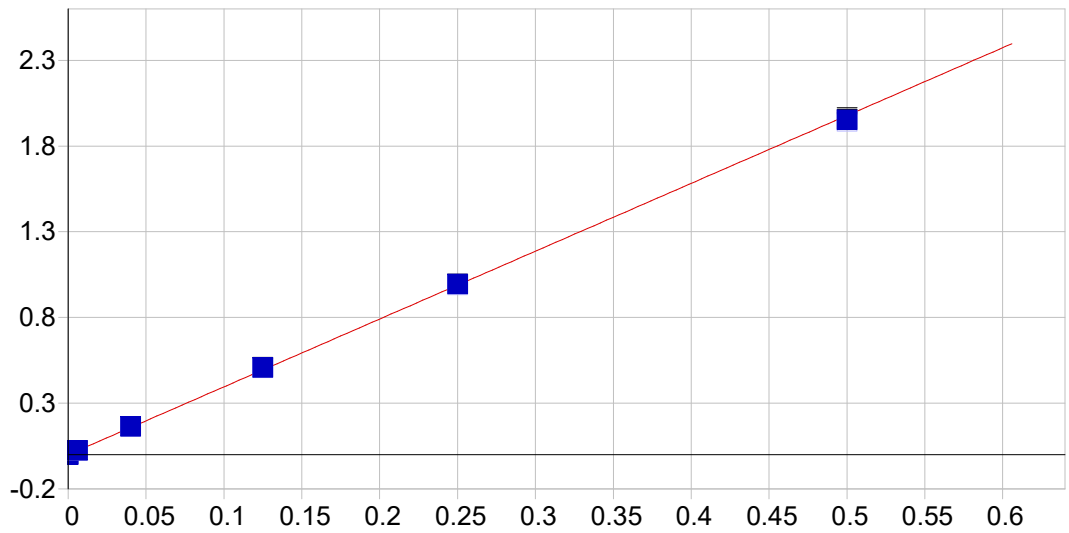


Ba 493.409 { 68}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.058577	Re-Slope:	1.000000
A1 (Gain):	2.657043	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.001486		
Predicted MDL:	0.000784		
Predicted MQL:	0.002614		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.05857	.002	1
S1	.10000	.10412	.004	4.12	.33523	.003	1
S3	5.0000	4.9245	-.075	-1.51	13.143	.067	1
S4	10.000	9.9582	-.042	-.418	26.518	.516	1
S5	20.000	20.109	.109	.544	53.489	.672	1
S2	1.6000	1.6044	.004	.272	4.3214	.032	1

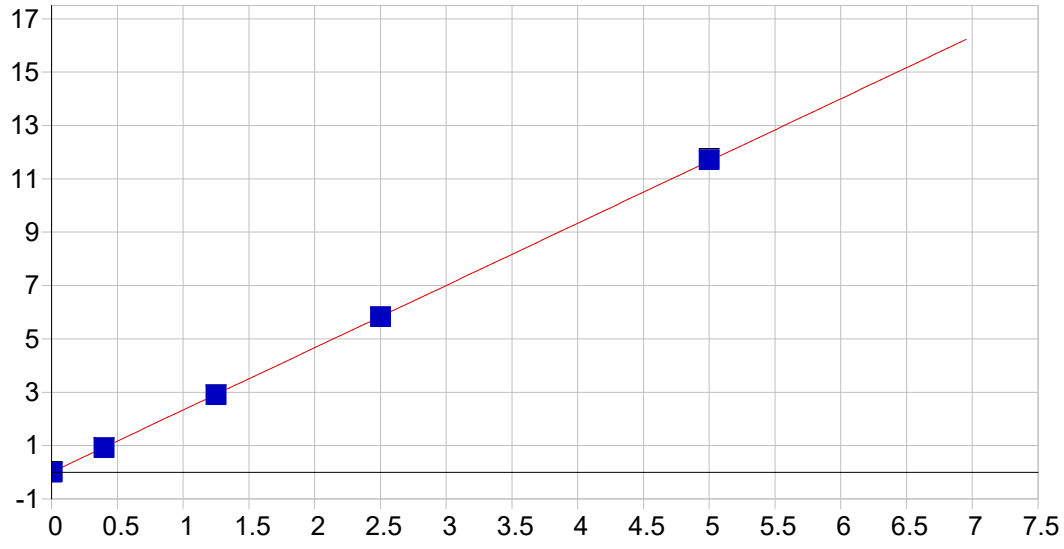


Be 234.861 {144}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000343	Re-Slope:	1.000000
A1 (Gain):	3.956449	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999859	Status:	OK.
Std Error of Est:	0.000190		
Predicted MDL:	0.000055		
Predicted MQL:	0.000185		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00035	.000	1
S1	.00600	.00629	.000	4.77	.02435	.000	1
S3	.12500	.12840	.003	2.72	.50546	.003	1
S4	.25000	.25131	.001	.522	.98951	.002	1
S5	.50000	.49348	-.007	-1.30	1.9432	.013	1
S2	.04000	.04153	.002	3.82	.16325	.001	1

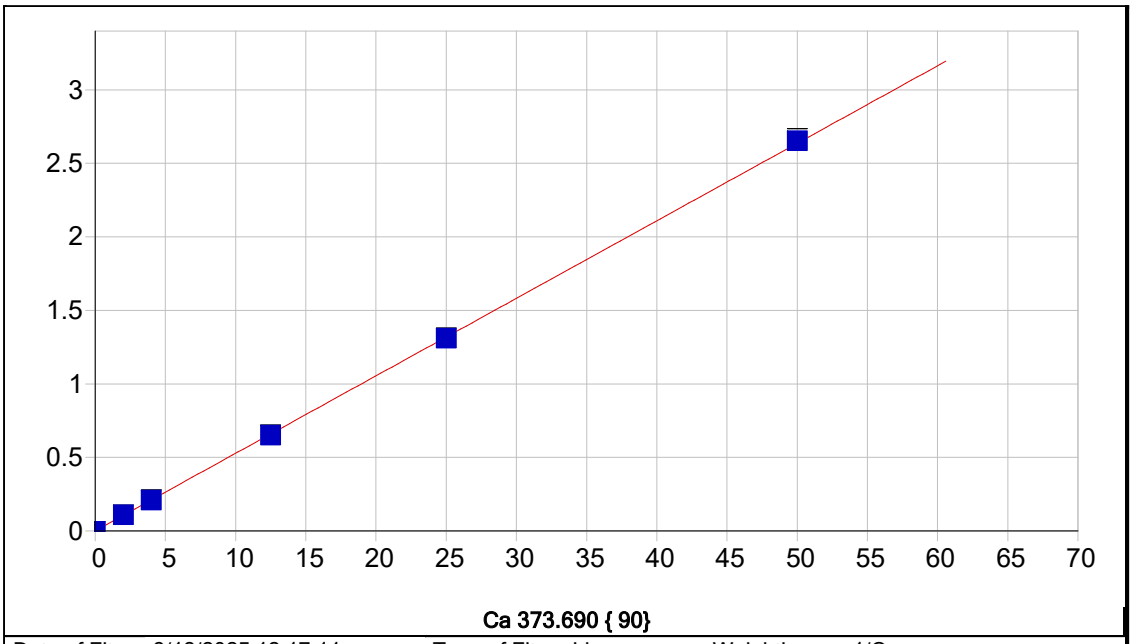


Cd 226.502 {449}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000104	Re-Slope:	1.000000
A1 (Gain):	2.333709	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999987	Status:	OK.
Std Error of Est:	0.000110		
Predicted MDL:	0.000084		
Predicted MQL:	0.000281		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00010	.000	1
S1	.00600	.00589	-.000	-1.83	.01371	.000	1
S3	1.2500	1.2428	-.007	-.579	2.9027	.010	1
S4	2.5000	2.4956	-.004	-.177	5.8290	.012	1
S5	5.0000	5.0188	.019	.376	11.723	.040	1
S2	.40000	.39297	-.007	-1.76	.91779	.001	1

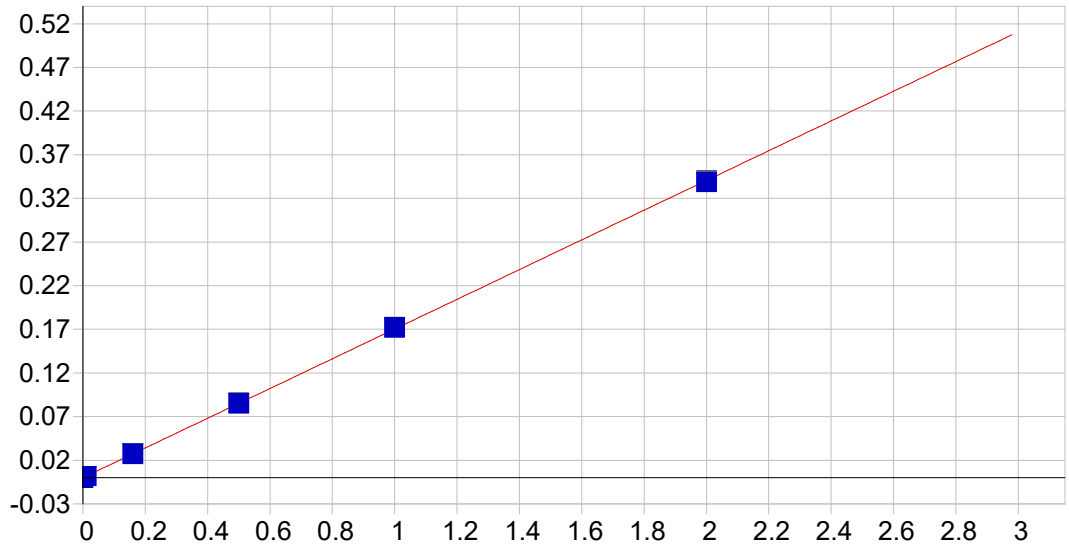


Ca 373.690 { 90}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000687	Re-Slope:	1.000000
A1 (Gain):	0.052715	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000232		
Predicted MDL:	0.009495		
Predicted MQL:	0.031650		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00069	.000	1
S2	4.0000	3.9614	-.039	-.965	.20951	.001	1
S3	12.500	12.331	-.169	-1.35	.65071	.002	1
S4	25.000	24.845	-.155	-.619	1.3104	.003	1
S5	50.000	50.323	.323	.647	2.6535	.016	1
S1	2.0000	2.0389	.039	1.94	.10817	.001	1

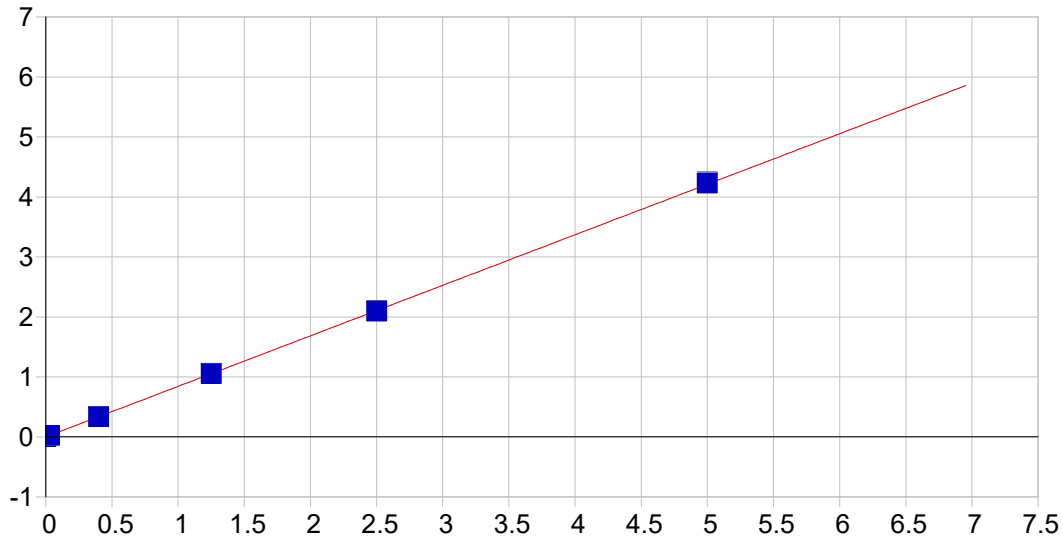


Cr 267.716 {126}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000025	Re-Slope:	1.000000
A1 (Gain):	0.170260	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999978	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.000394		
Predicted MQL:	0.001315		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00003	.000	1
S1	.01000	.01055	.001	5.55	.00182	.000	1
S3	.50000	.49950	-.001	-.100	.08510	.001	1
S4	1.0000	1.0094	.009	.942	.17194	.000	1
S5	2.0000	1.9906	-.009	-.471	.33904	.001	1
S2	.16000	.15995	-.000	-.032	.02727	.000	1

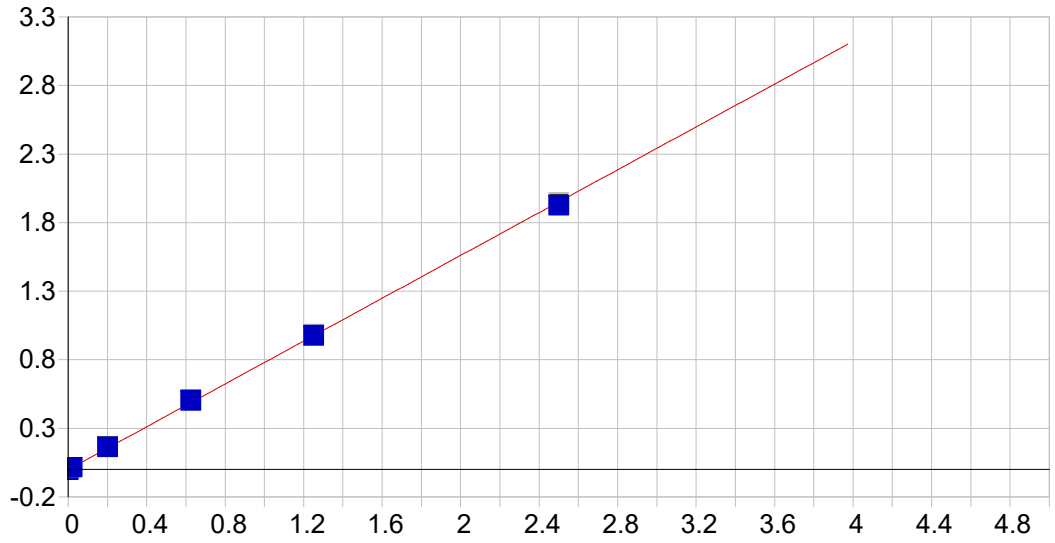


Co 228.616 {448}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000057	Re-Slope:	1.000000
A1 (Gain):	0.842263	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999989	Status:	OK.
Std Error of Est:	0.000081		
Predicted MDL:	0.000248		
Predicted MQL:	0.000826		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00006	.000	1
S1	.03000	.02991	-.000	-.308	.02503	.000	1
S3	1.2500	1.2493	-.001	-.059	1.0539	.004	1
S4	2.5000	2.4827	-.017	-.693	2.0946	.005	1
S5	5.0000	5.0199	.020	.398	4.2352	.013	1
S2	.40000	.39827	-.002	-.432	.33596	.001	1

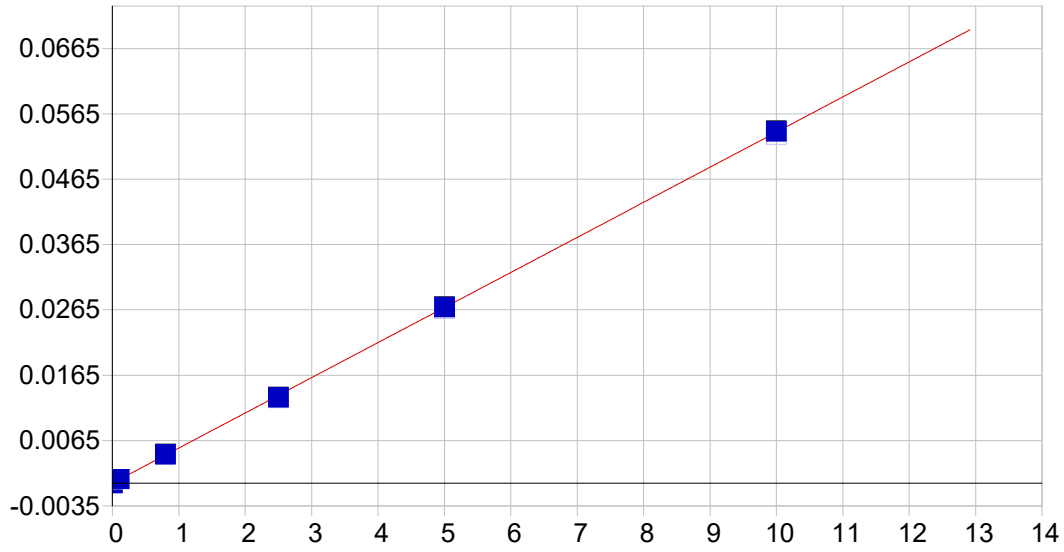


Cu 224.700 {450}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000753	Re-Slope:	1.000000
A1 (Gain):	0.780745	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999785	Status:	OK.
Std Error of Est:	0.000191		
Predicted MDL:	0.000427		
Predicted MQL:	0.001424		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00076	.000	1
S1	.02000	.02281	.003	14.1	.01721	.000	1
S3	.62500	.64425	.019	3.08	.50570	.001	1
S4	1.2500	1.2501	.000	.008	.98218	.004	1
S5	2.5000	2.4671	-.033	-1.32	1.9392	.003	1
S2	.20000	.21078	.011	5.39	.16492	.000	1

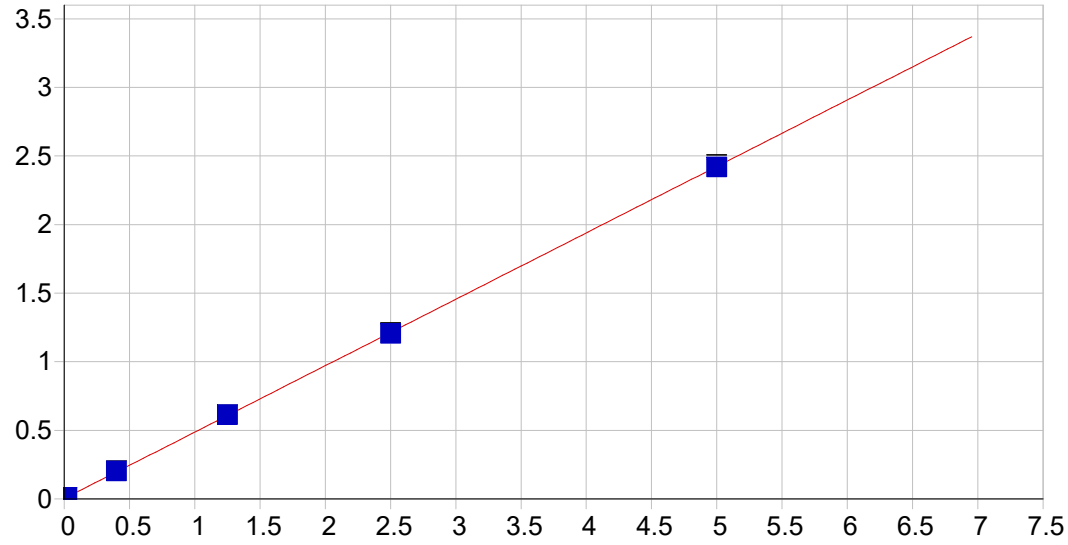


Fe 240.488 {140}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.005372	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.000004		
Predicted MDL:	0.004383		
Predicted MQL:	0.014609		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00001	.000	1
S1	.10000	.11226	.012	12.3	.00059	.000	1
S3	2.5000	2.4418	-.058	-2.33	.01300	.000	1
S4	5.0000	5.0129	.013	.258	.02669	.000	1
S5	10.000	10.015	.015	.151	.05333	.000	1
S2	.80000	.81802	.018	2.25	.00435	.000	1

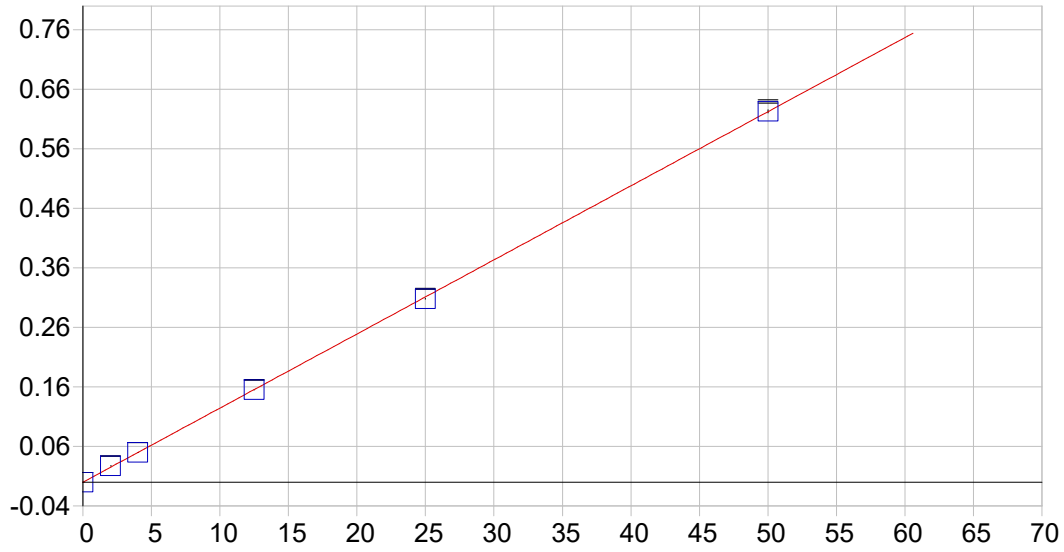


Mn 257.610 {131}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002660	Re-Slope:	1.000000
A1 (Gain):	0.484253	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999957	Status:	OK.
Std Error of Est:	0.000074		
Predicted MDL:	0.000380		
Predicted MQL:	0.001267		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00266	.000	1
S1	.02000	.02131	.001	6.57	.01299	.000	1
S3	1.2500	1.2606	.011	.849	.61324	.002	1
S4	2.5000	2.4852	-.015	-.594	1.2063	.004	1
S5	5.0000	4.9888	-.011	-.224	2.4190	.017	1
S2	.40000	.41409	.014	3.52	.20322	.001	1

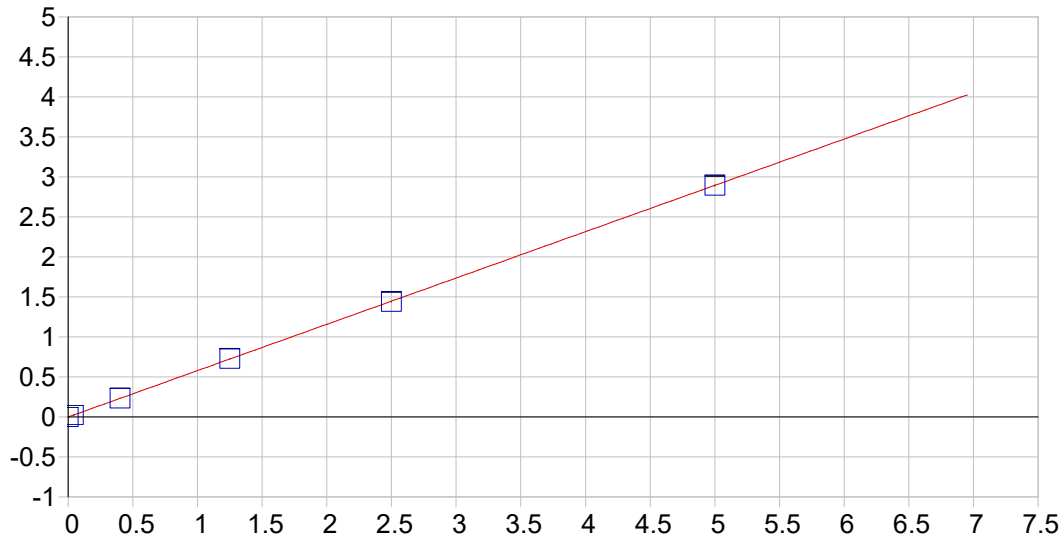


Mg 279.079 {121}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000191	Re-Slope:	1.000000
A1 (Gain):	0.012454	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999884	Status:	OK.
Std Error of Est:	0.000100		
Predicted MDL:	0.015969		
Predicted MQL:	0.053229		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00019	-.000	.000	-.00019	.000	1
S2	4.0000	4.0192	.019	.480	.04986	.000	1
S3	12.500	12.489	-.011	-.092	.15534	.001	1
S4	25.000	24.759	-.241	-.962	.30816	.001	1
S5	50.000	50.037	.037	.073	.62297	.003	1
S1	2.0000	2.1961	.196	9.81	.02716	.000	1

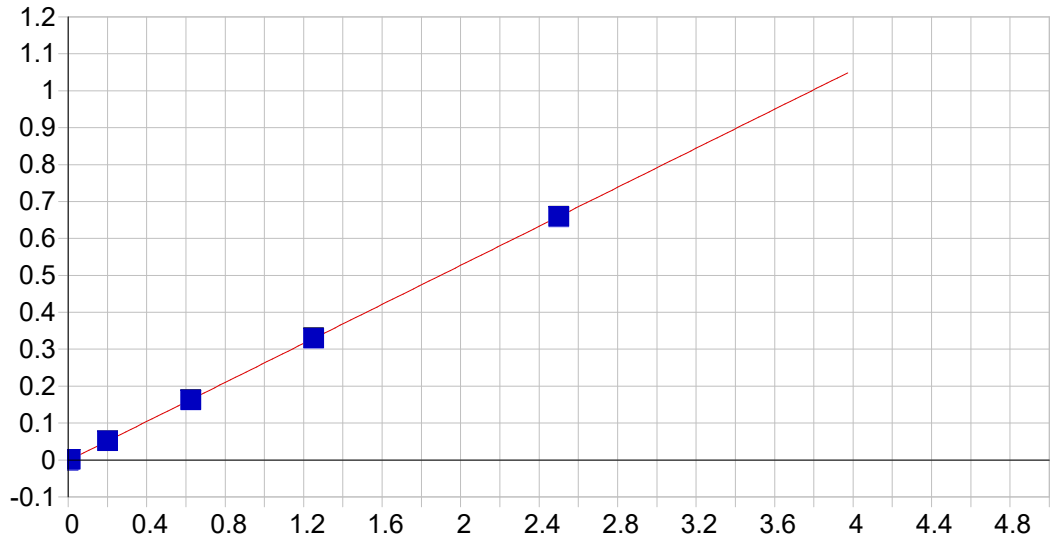


Ni 231.604 {446}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000299	Re-Slope:	1.000000
A1 (Gain):	0.578952	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999990	Status:	OK.
Std Error of Est:	0.000062		
Predicted MDL:	0.000338		
Predicted MQL:	0.001126		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00030	.000	1
S1	.04000	.04055	.001	1.38	.02318	.000	1
S3	1.2500	1.2600	.010	.800	.72918	.003	1
S4	2.5000	2.4887	-.011	-.453	1.4405	.004	1
S5	5.0000	4.9963	-.004	-.073	2.8923	.009	1
S2	.40000	.40443	.004	1.11	.23385	.001	1

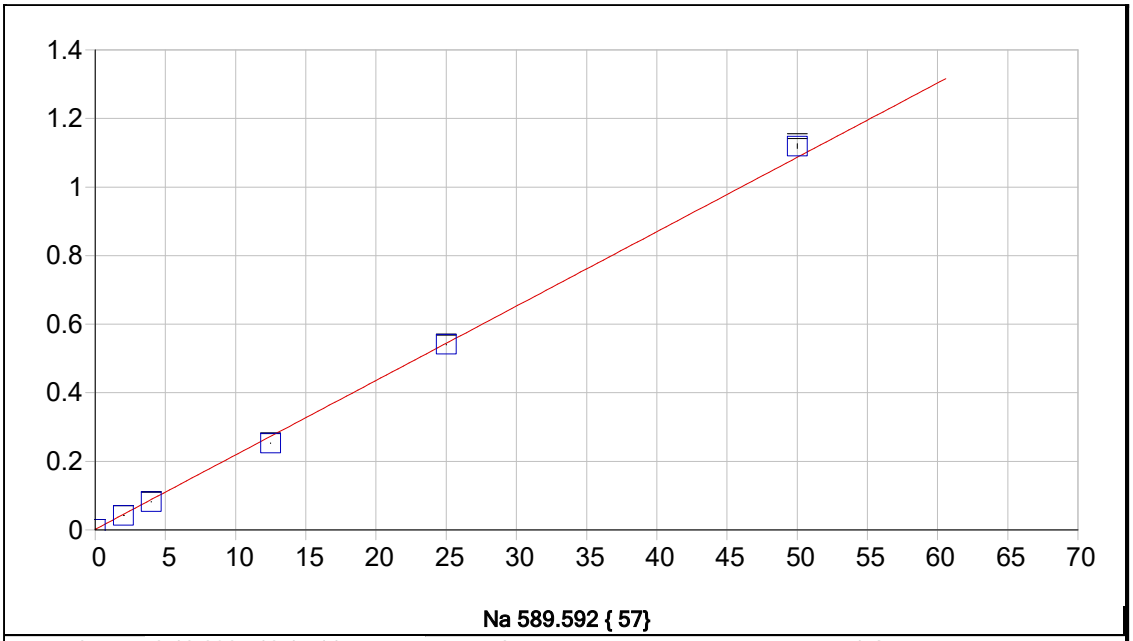


Ag 328.068 {103}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001464	Re-Slope:	1.000000
A1 (Gain):	0.264291	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.000368		
Predicted MQL:	0.001227		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00146	.000	1
S1	.01000	.00991	-.000	-.946	.00114	.000	1
S3	.62500	.62018	-.005	-.771	.16179	.000	1
S4	1.2500	1.2536	.004	.289	.32854	.001	1
S5	2.5000	2.4990	-.001	-.041	.65637	.001	1
S2	.20000	.20232	.002	1.16	.05180	.000	1

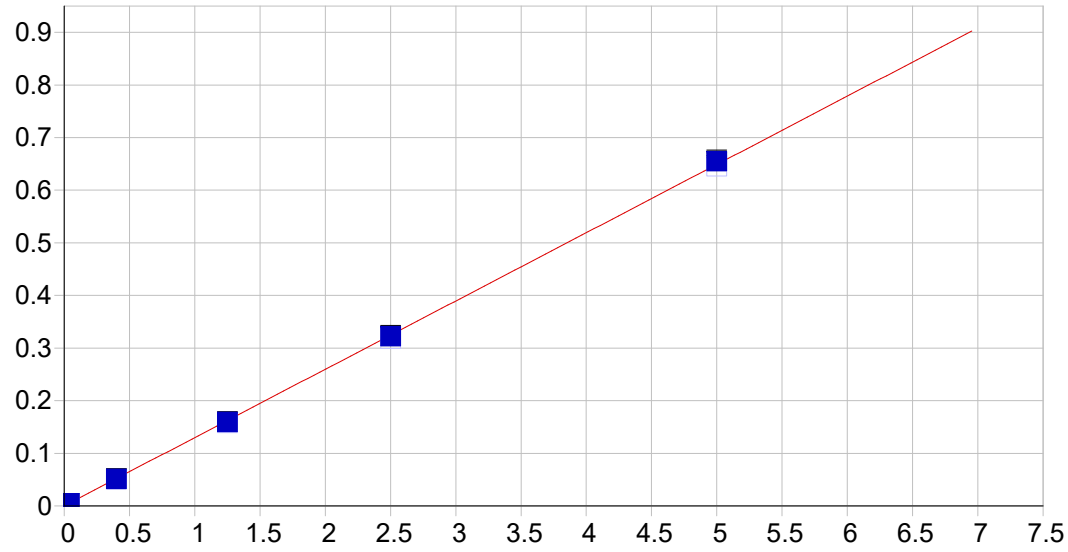


Na 589.592 { 57}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001900	Re-Slope:	1.000000
A1 (Gain):	0.021694	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999212	Status:	OK.
Std Error of Est:	0.000456		
Predicted MDL:	0.009745		
Predicted MQL:	0.032484		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00039	.000	.000	.00191	.000	1
S2	4.0000	3.7086	-.291	-7.29	.08236	.001	1
S3	12.500	11.568	-.932	-7.45	.25287	.001	1
S4	25.000	24.856	-.144	-.575	.54114	.001	1
S5	50.000	51.510	1.51	3.02	1.1194	.007	1
S1	2.0000	1.8570	-.143	-7.15	.04219	.000	1

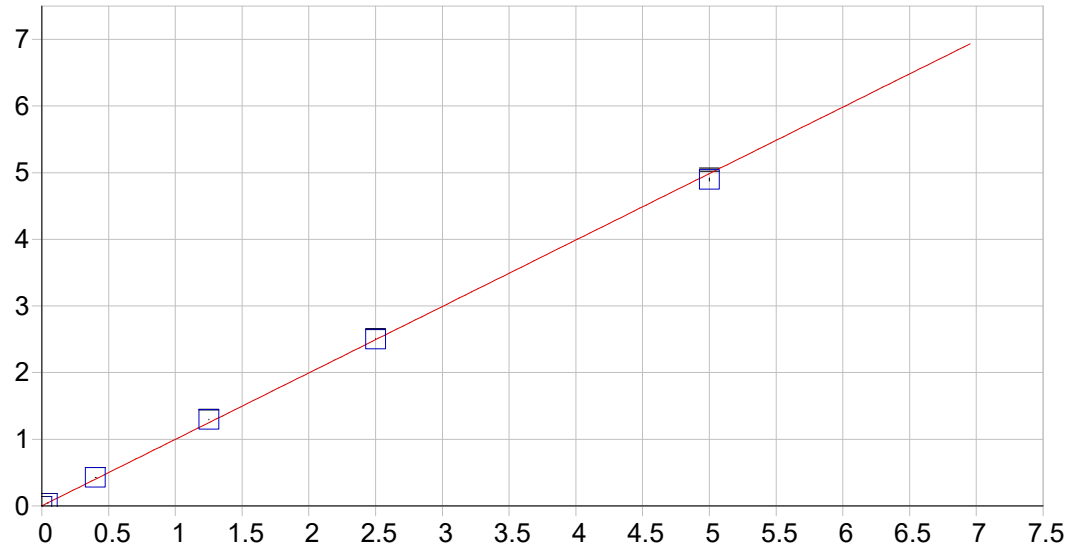


V 292.402 {115}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000108	Re-Slope:	1.000000
A1 (Gain):	0.129777	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999945	Status:	OK.
Std Error of Est:	0.000032		
Predicted MDL:	0.001713		
Predicted MQL:	0.005710		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00011	.000	1
S1	.04000	.03900	-.001	-2.51	.00497	.000	1
S3	1.2500	1.2290	-.021	-1.68	.15724	.000	1
S4	2.5000	2.4833	-.017	-.669	.31765	.002	1
S5	5.0000	5.0449	.045	.897	.64535	.003	1
S2	.40000	.39383	-.006	-1.54	.05046	.000	1

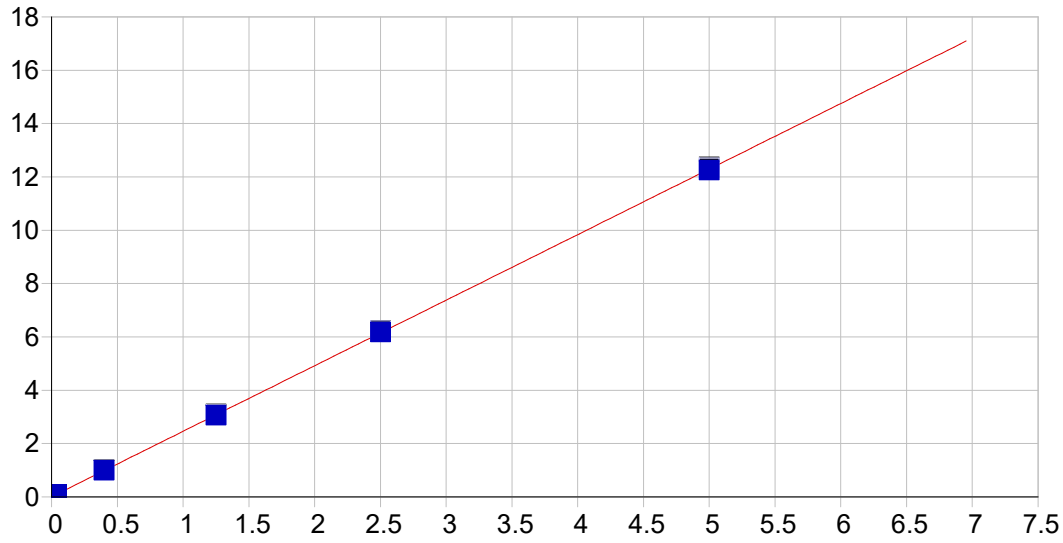


Zn 206.200 {464}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001213	Re-Slope:	1.000000
A1 (Gain):	0.997085	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999682	Status:	OK.
Std Error of Est:	0.000591		
Predicted MDL:	0.000202		
Predicted MQL:	0.000672		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00121	.000	1
S1	.04000	.04407	.004	10.2	.04515	.000	1
S3	1.2500	1.3001	.050	4.00	1.2975	.004	1
S4	2.5000	2.5096	.010	.384	2.5035	.007	1
S5	5.0000	4.9097	-.090	-1.81	4.8966	.023	1
S2	.40000	.42657	.027	6.64	.42654	.001	1

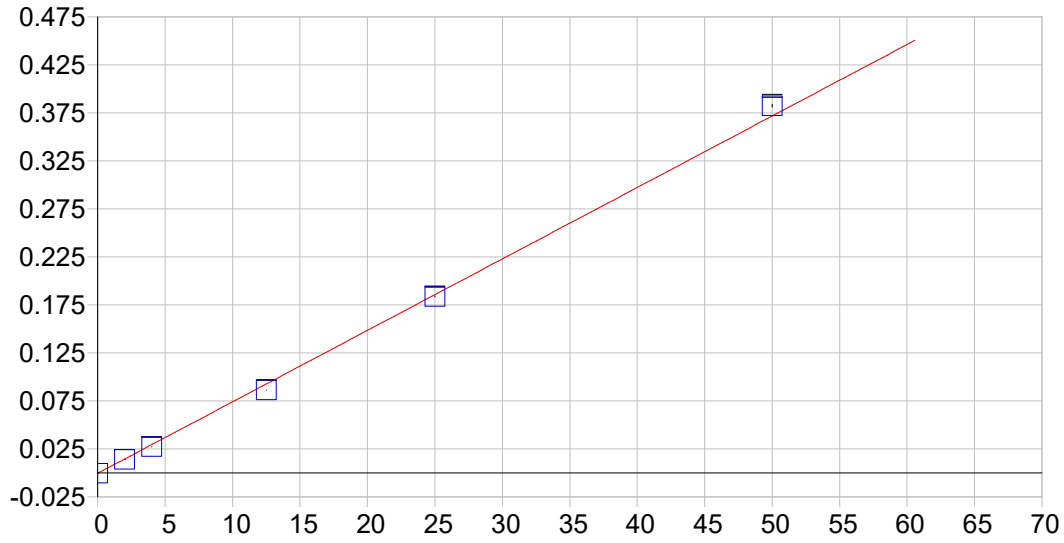


Zn 213.856 {158}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003894	Re-Slope:	1.000000
A1 (Gain):	2.457931	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999981	Status:	OK.
Std Error of Est:	0.000360		
Predicted MDL:	0.000304		
Predicted MQL:	0.001014		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00389	.000	1
S1	.04000	.04266	.003	6.64	.10943	.001	1
S3	1.2500	1.2456	-.004	-.350	3.0869	.018	1
S4	2.5000	2.5130	.013	.521	6.2234	.009	1
S5	5.0000	4.9843	-.016	-.314	12.340	.035	1
S2	.40000	.40438	.004	1.10	1.0047	.007	1

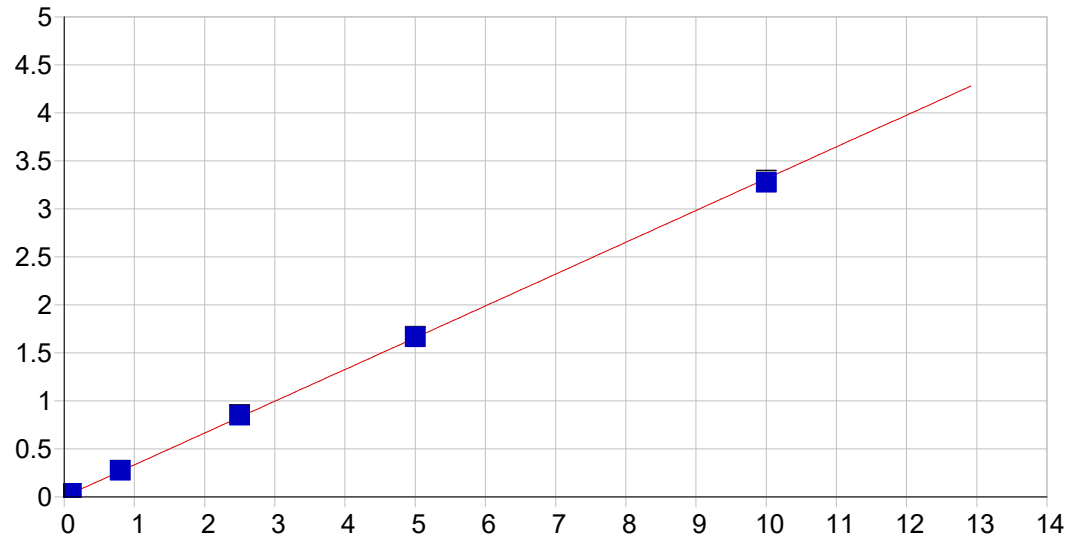


K 766.490 { 44}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000409	Re-Slope:	1.000000
A1 (Gain):	0.007444	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999346	Status:	OK.
Std Error of Est:	0.000142		
Predicted MDL:	0.028947		
Predicted MQL:	0.096490		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00031	.000	.000	-.00041	.000	1
S2	4.0000	3.7215	-.278	-6.96	.02729	.000	1
S3	12.500	11.662	-.838	-6.71	.08640	.000	1
S4	25.000	24.750	-.250	-1.00	.18382	.000	1
S5	50.000	51.441	1.44	2.88	.38250	.002	1
S1	2.0000	1.9264	-.074	-3.68	.01393	.000	1

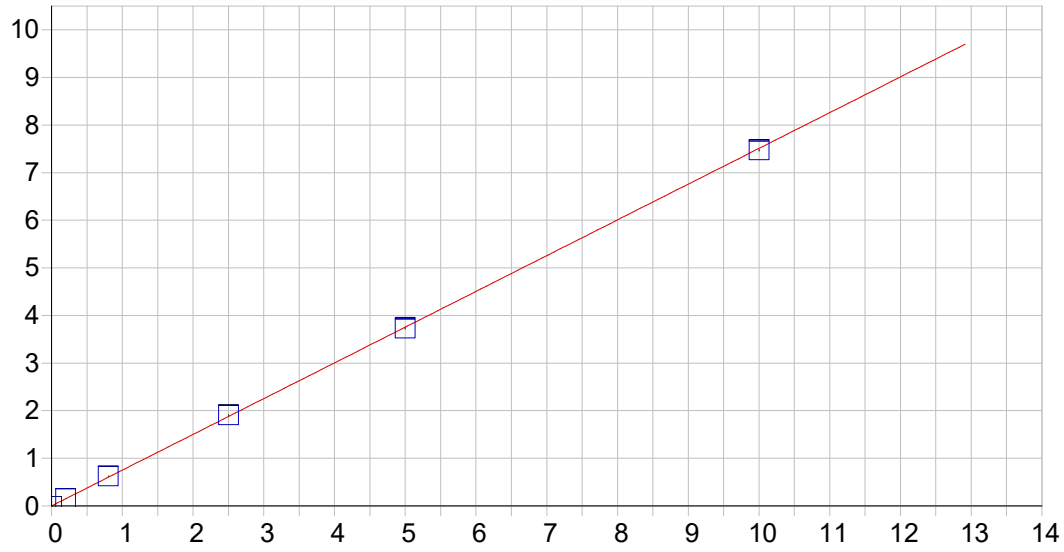


B 249.678 {135}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002622	Re-Slope:	1.000000
A1 (Gain):	0.331178	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999889	Status:	OK.
Std Error of Est:	0.000258		
Predicted MDL:	0.000796		
Predicted MQL:	0.002654		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00262	.000	1
S1	.10000	.10812	.008	8.12	.03830	.000	1
S3	2.5000	2.5582	.058	2.33	.84858	.007	1
S4	5.0000	5.0230	.023	.459	1.6636	.007	1
S5	10.000	9.8875	-.113	-1.13	3.2721	.022	1
S2	.80000	.82328	.023	2.91	.27487	.000	1

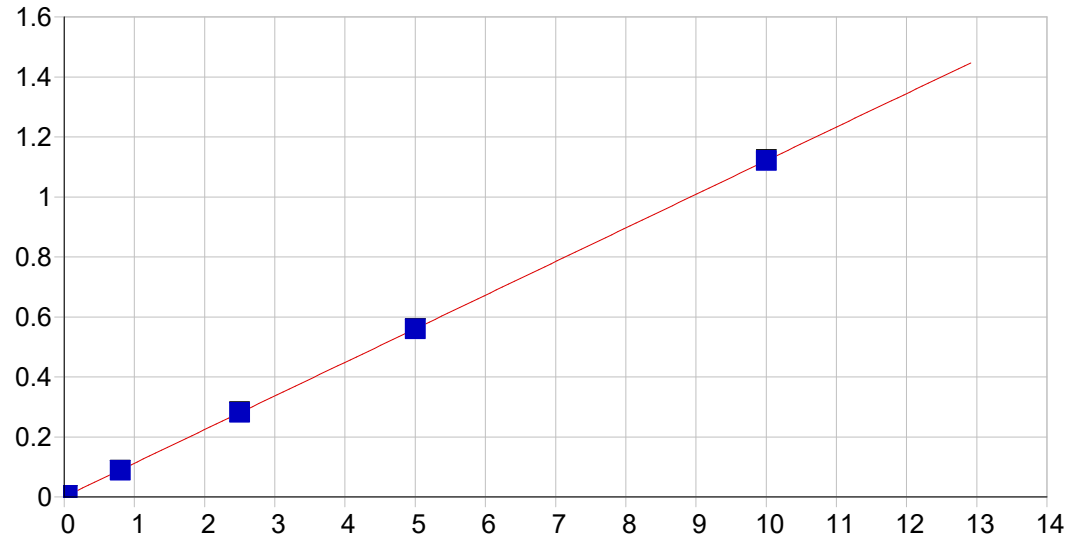


Mo 202.030 {467}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000220	Re-Slope:	1.000000
A1 (Gain):	0.751006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999933	Status:	OK.
Std Error of Est:	0.000648		
Predicted MDL:	0.000278		
Predicted MQL:	0.000928		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00021	.000	1
S1	.20000	.20689	.007	3.45	.15560	.000	1
S3	2.5000	2.5436	.044	1.74	1.9105	.006	1
S4	5.0000	4.9715	-.029	-.571	3.7338	.015	1
S5	10.000	9.9489	-.051	-.511	7.4719	.015	1
S2	.80000	.82915	.029	3.64	.62292	.001	1

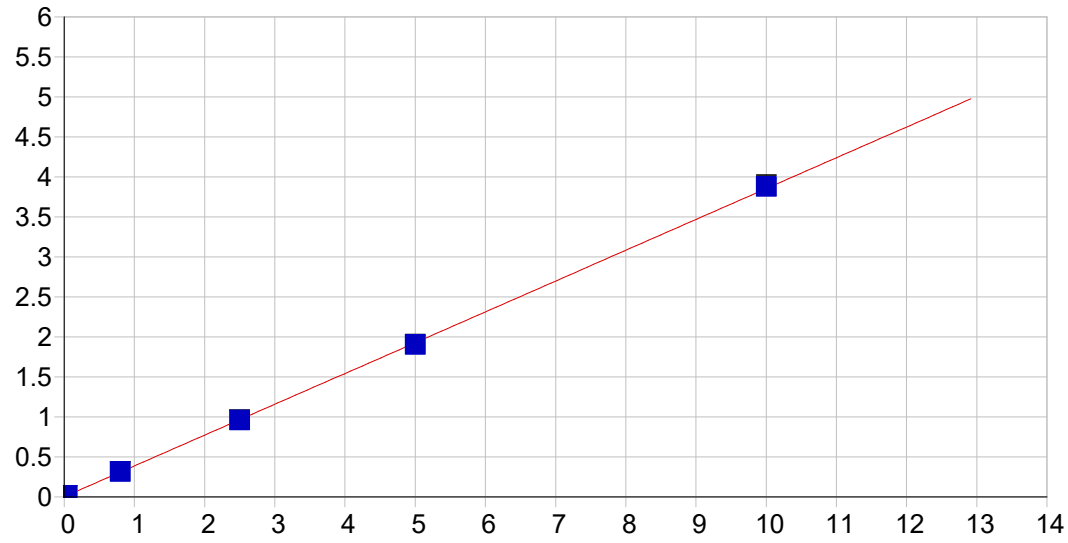


Sn 189.989 {478}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000268	Re-Slope:	1.000000
A1 (Gain):	0.112026	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999991	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	0.000791		
Predicted MQL:	0.002636		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00027	.000	1
S1	.04000	.03875	-.001	-3.14	.00460	.000	1
S3	2.5000	2.5157	.016	.630	.28181	.001	1
S4	5.0000	4.9946	-.005	-.107	.55922	.001	1
S5	10.000	10.003	.003	.033	1.1198	.004	1
S2	.80000	.78758	-.012	-1.55	.08841	.000	1

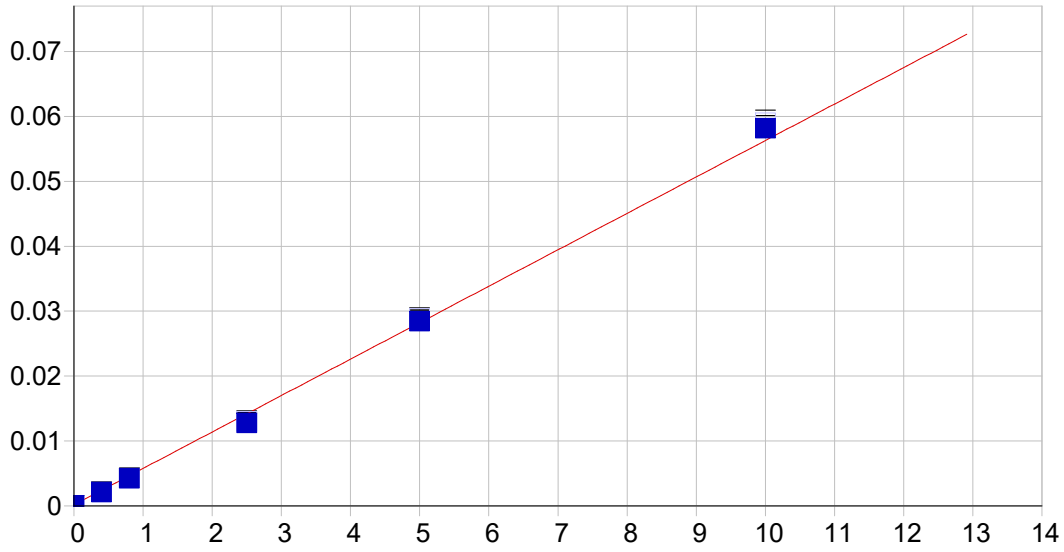


Ti 336.121 {100}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001886	Re-Slope:	1.000000
A1 (Gain):	0.385162	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000112		
Predicted MDL:	0.000811		
Predicted MQL:	0.002704		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00189	.000	1
S1	.04000	.04099	.001	2.47	.01766	.000	1
S3	2.5000	2.4870	-.013	-.522	.95942	.004	1
S4	5.0000	4.9380	-.062	-1.24	1.9031	.005	1
S5	10.000	10.064	.064	.637	3.8766	.024	1
S2	.80000	.81036	.010	1.29	.31389	.001	1

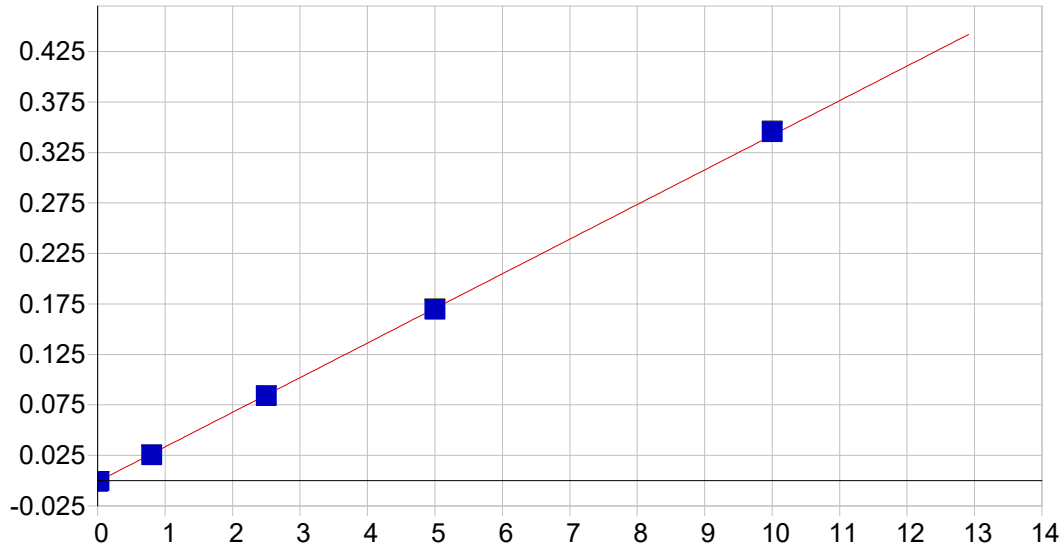


Si 288.158 {117}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000163	Re-Slope:	1.000000
A1 (Gain):	0.005613	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998677	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	0.007499		
Predicted MQL:	0.024995		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00011	.000	.000	.00016	.000	1
S1	.40000	.34600	-.054	-13.5	.00211	.000	1
S3	2.5000	2.2497	-.250	-10.0	.01300	.000	1
S4	5.0000	5.0407	.041	.814	.02888	.000	1
S5	10.000	10.337	.337	3.37	.05903	.000	1
S2	.80000	.72546	-.075	-9.32	.00430	.000	1

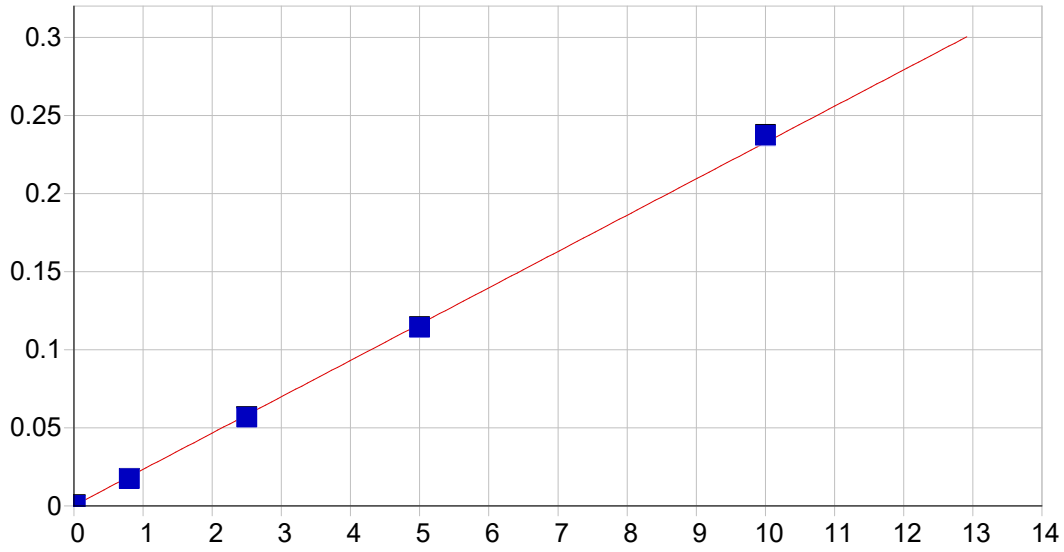


P 177.495 {490}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000889	Re-Slope:	1.000000
A1 (Gain):	0.034293	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	0.002699		
Predicted MQL:	0.008997		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00089	.000	1
S1	.02000	.01783	-.002	-10.8	-.00028	.000	1
S3	2.5000	2.4731	-.027	-1.08	.08391	.000	1
S4	5.0000	4.9712	-.029	-.577	.16956	.000	1
S5	10.000	10.096	.096	.957	.34527	.001	1
S2	.80000	.76224	-.038	-4.72	.02525	.000	1

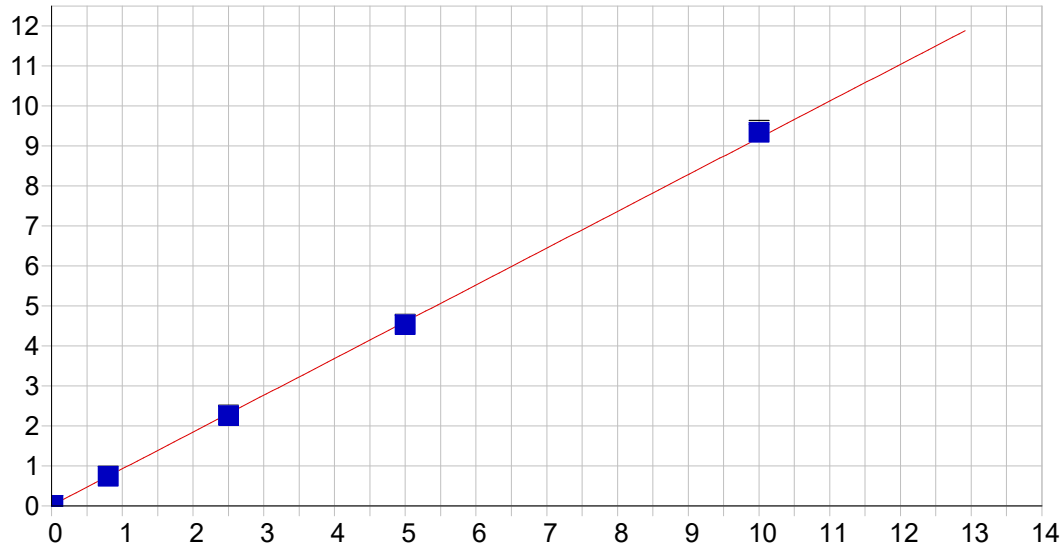


S 182.034 {485}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000135	Re-Slope:	1.000000
A1 (Gain):	0.023249	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999707	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.003571		
Predicted MQL:	0.011904		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00013	.000	1
S1	.02000	.02243	.002	12.2	.00064	.000	1
S3	2.5000	2.4392	-.061	-2.43	.05669	.000	1
S4	5.0000	4.9147	-.085	-1.71	.11409	.000	1
S5	10.000	10.197	.197	1.97	.23660	.001	1
S2	.80000	.74657	-.053	-6.68	.01744	.000	1

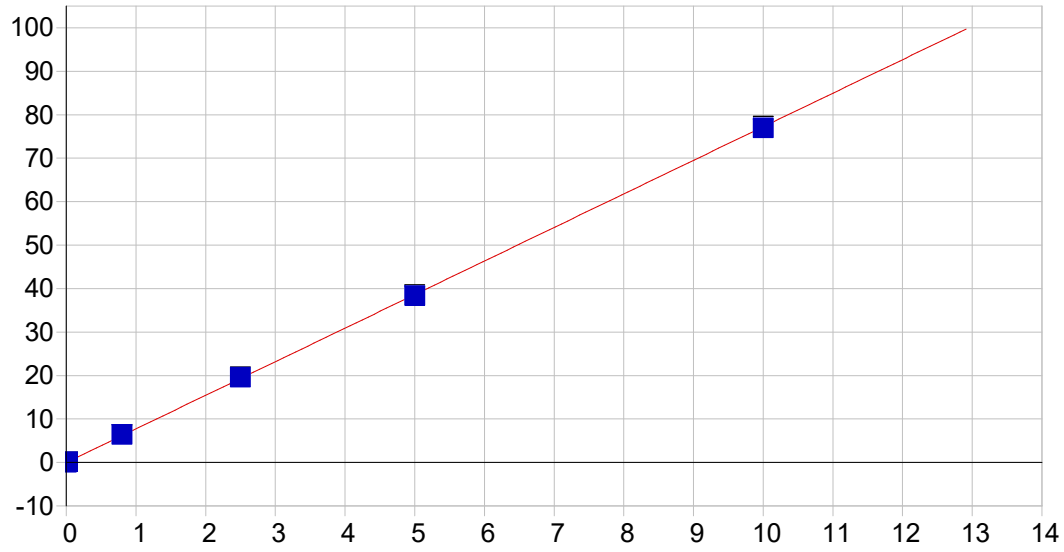


Li 670.784 { 50}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008110	Re-Slope:	1.000000
A1 (Gain):	0.919569	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999870	Status:	OK.
Std Error of Est:	0.000348		
Predicted MDL:	0.001125		
Predicted MQL:	0.003751		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00811	.001	1
S5	10.000	10.145	.145	1.45	9.3415	.052	1
S4	5.0000	4.9131	-.087	-1.74	4.5283	.014	1
S3	2.5000	2.4464	-.054	-2.14	2.2589	.011	1
S1	.02000	.02003	.000	.127	.02682	.001	1
S2	.80000	.79580	-.004	-.525	.74027	.004	1

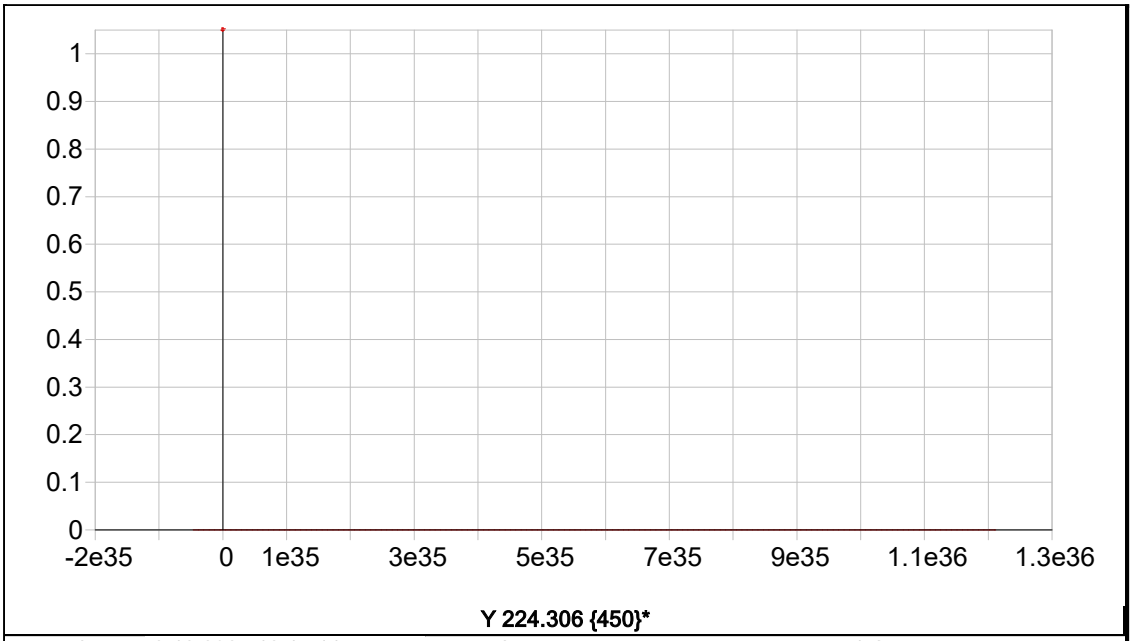


Sr 407.771 { 83}

Date of Fit:	3/18/2025 12:17:11	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000166	Re-Slope:	1.000000
A1 (Gain):	7.722452	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999948	Status:	OK.
Std Error of Est:	0.001847		
Predicted MDL:	0.000082		
Predicted MQL:	0.000273		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00015	.000	1
S1	.02000	.02086	.001	4.28	.16190	.002	1
S3	2.5000	2.5350	.035	1.40	19.593	.078	1
S4	5.0000	4.9663	-.034	-.675	38.386	.169	1
S5	10.000	9.9688	-.031	-.312	77.052	.366	1
S2	.80000	.82911	.029	3.64	6.4083	.034	1

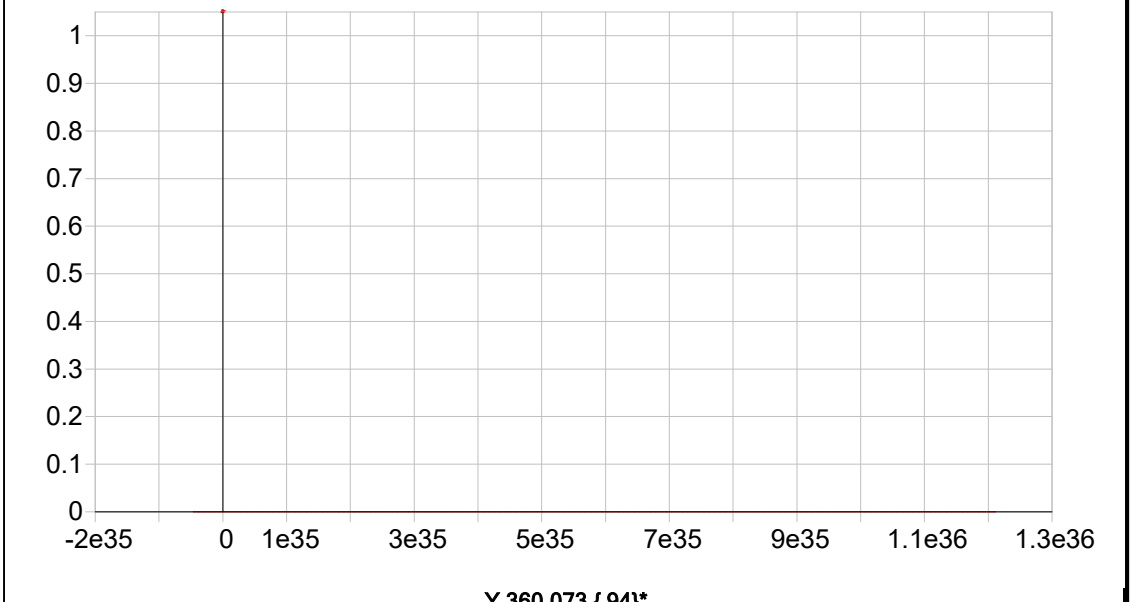


Y 224.306 {450}*

Date of Fit:	3/18/2025 12:17:11	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



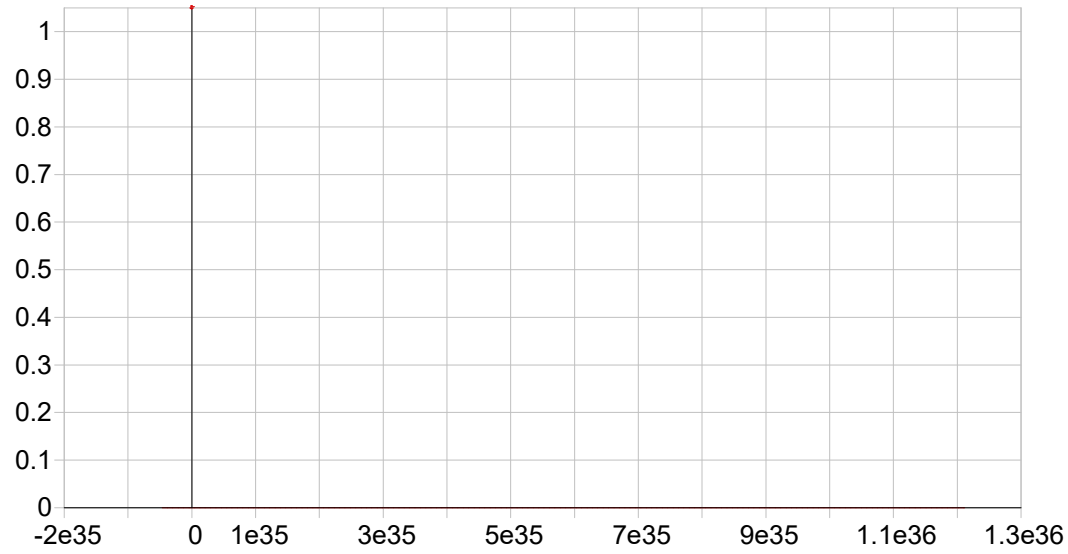
Y 360.073 { 94}*

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

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					

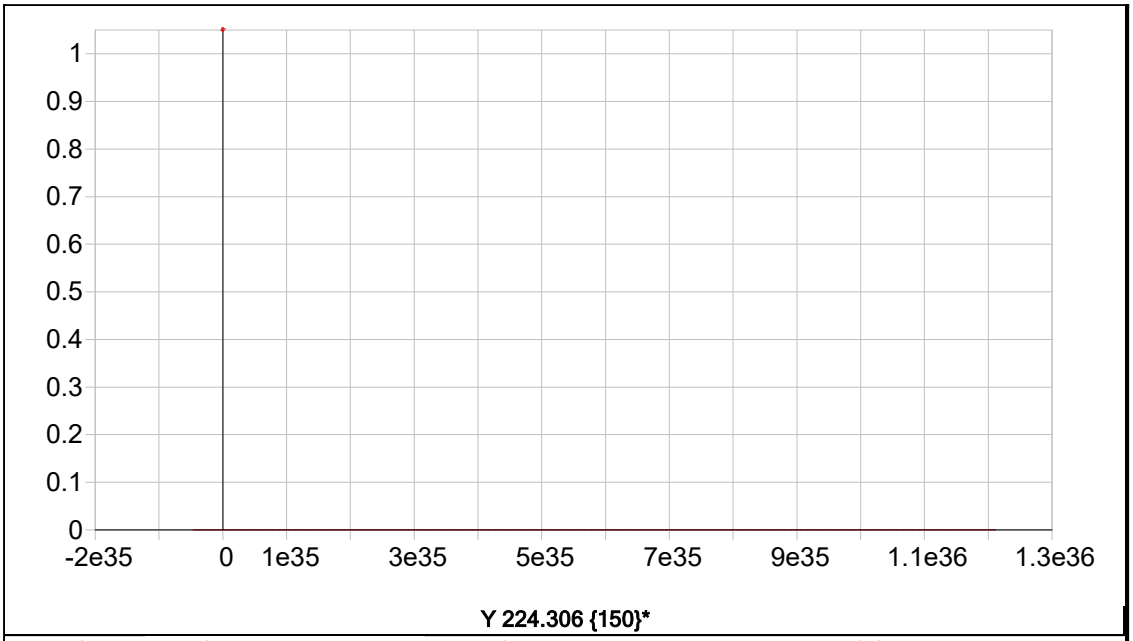
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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				

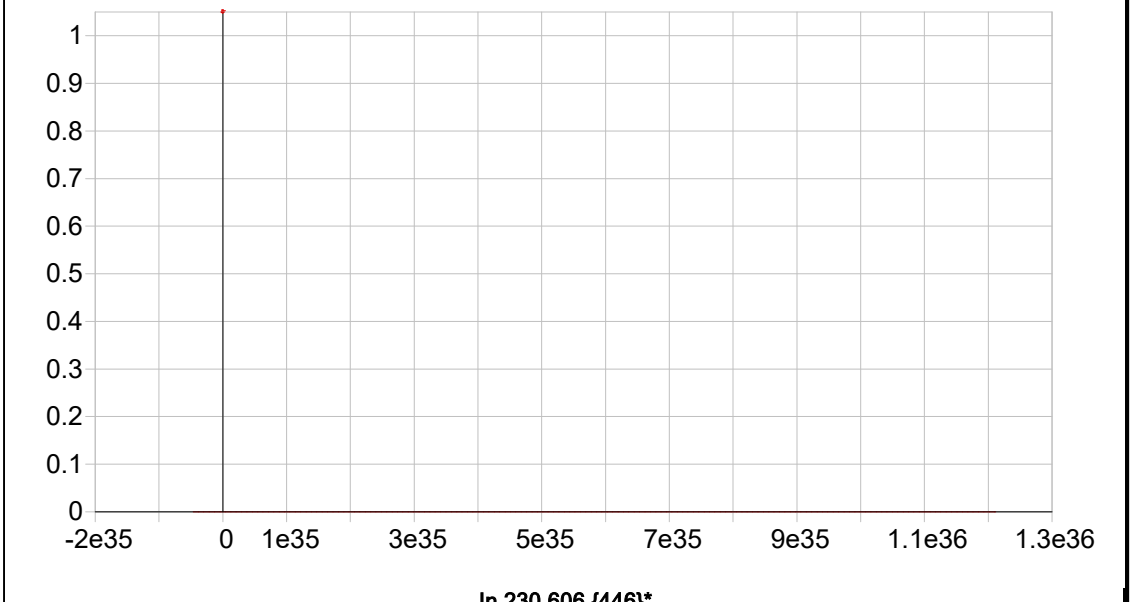
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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	

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:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: S0 Acquired: 3/18/2025 10:11:16 Type: Cal
Method: NON EPA-6010-200.7(v2817) 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	-.00013	.00006	-.00017	.00040	.00014	-.00031	.05857	-.00035
Stddev	.00013	.00003	.00027	.00006	.00005	.00050	.00154	.00022
%RSD	96.832	44.063	156.67	14.280	36.962	162.85	2.6336	62.807
#1	-.00005	.00008	-.00020	.00046	.00016	-.00074	.05975	-.00017
#2	-.00007	.00003	-.00043	.00038	.00017	-.00041	.05914	-.00059
#3	-.00028	.00006	.00011	.00035	.00008	.00024	.05682	-.00028

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	.00069	.00003	-.00006	-.00076	-.00001	.00266	-.00019
Stddev	.00011	.00031	.00005	.00008	.00012	.00002	.00034	.00005
%RSD	104.56	45.528	210.30	143.61	15.590	237.54	12.631	27.151
#1	-.00004	.00103	-.00003	-.00014	-.00071	-.00002	.00294	-.00016
#2	-.00004	.00060	.00003	.00003	-.00089	.00001	.00275	-.00025
#3	-.00023	.00042	.00007	-.00006	-.00067	-.00001	.00229	-.00016

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	-.00030	-.00146	.00191	.00011	.00389	-.00041	.00262	.00021
Stddev	.00008	.00010	.00004	.00009	.00037	.00009	.00003	.00004
%RSD	27.981	6.5513	1.8394	78.770	9.6361	22.373	1.3167	21.279
#1	-.00025	-.00153	.00192	.00001	.00352	-.00033	.00265	.00026
#2	-.00040	-.00135	.00193	.00017	.00427	-.00051	.00258	.00019
#3	-.00026	-.00151	.00187	.00015	.00386	-.00038	.00262	.00017

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	.00027	.00189	.00016	-.00089	.00013	.00811	.00015
Stddev	.00002	.00017	.00000	.00013	.00002	.00060	.00018
%RSD	8.9024	8.9301	2.7825	14.527	14.877	7.3728	116.97
#1	.00025	.00179	.00016	-.00088	.00016	.00833	.00001
#2	.00025	.00179	.00016	-.00076	.00012	.00743	.00035
#3	.00030	.00208	.00017	-.00102	.00012	.00856	.00009

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: S0 Acquired: 3/18/2025 10:11:16 Type: Cal
Method: NON EPA-6010-200.7(v2817) 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	2850.8	75483.	13509.	2558.8	5086.0
Stddev	10.5	295.	53.	1.0	10.0
%RSD	.37003	.39072	.39009	.03995	.19623
#1	2840.7	75823.	13455.	2560.0	5074.4
#2	2861.7	75289.	13561.	2558.2	5091.3
#3	2850.0	75338.	13511.	2558.2	5092.1

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: S1 Acquired: 3/18/2025 10:15:41 Type: Cal
Method: NON EPA-6010-200.7(v2817) 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	.00105	.00229	.00203	.00136	.00769	.00791	.33523	.02435
Stddev	.00002	.00007	.00002	.00011	.00011	.00045	.00256	.00011
%RSD	1.7360	3.0307	.98938	7.7959	1.3792	5.6249	.76233	.46292
#1	.00107	.00233	.00204	.00124	.00762	.00823	.33727	.02442
#2	.00105	.00233	.00205	.00139	.00781	.00810	.33606	.02441
#3	.00103	.00221	.00201	.00144	.00764	.00740	.33237	.02422

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	.01371	.10817	.00182	.02503	.01721	.00059	.01299	.02716
Stddev	.00021	.00085	.00004	.00030	.00009	.00002	.00008	.00010
%RSD	1.5300	.78565	1.9441	1.2060	.51500	3.7768	.61006	.38285
#1	.01347	.10900	.00186	.02478	.01717	.00058	.01302	.02713
#2	.01381	.10820	.00182	.02536	.01715	.00057	.01304	.02728
#3	.01386	.10730	.00179	.02493	.01731	.00061	.01290	.02708

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	.02318	.00114	.04219	.00497	.10943	.01393	.03830	.15560
Stddev	.00015	.00008	.00021	.00017	.00088	.00009	.00033	.00008
%RSD	.65387	7.3404	.50273	3.5151	.80061	.64740	.85878	.05294
#1	.02305	.00119	.04241	.00488	.11044	.01385	.03792	.15551
#2	.02334	.00104	.04216	.00486	.10892	.01403	.03852	.15566
#3	.02315	.00118	.04199	.00518	.10893	.01391	.03847	.15563

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	.00460	.01766	.00211	-.00028	.00064	.02682	.16190
Stddev	.00008	.00030	.00004	.00010	.00006	.00065	.00245
%RSD	1.7828	1.7016	1.7127	35.712	9.5656	2.4210	1.5153
#1	.00469	.01796	.00213	-.00018	.00062	.02740	.16465
#2	.00458	.01736	.00213	-.00038	.00070	.02694	.16112
#3	.00453	.01766	.00207	-.00026	.00059	.02612	.15993

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: S1 Acquired: 3/18/2025 10:15:41 Type: Cal
Method: NON EPA-6010-200.7(v2817) 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	2836.5	72179.	13687.	2467.4	5030.4
Stddev	2.2	143.	46.	7.7	10.8
%RSD	.07852	.19878	.33691	.31314	.21471
#1	2835.3	72313.	13666.	2474.1	5019.3
#2	2835.2	72028.	13655.	2469.2	5031.0
#3	2839.1	72197.	13740.	2458.9	5040.9

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: S2 Acquired: 3/18/2025 10:20:04 Type: Cal
Method: NON EPA-6010-200.7(v2817) 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	.04401	.04688	.15019	.04831	.11309	.11816	4.3214	.16325
Stddev	.00018	.00044	.00028	.00030	.00045	.00014	.0323	.00076
%RSD	.40523	.94425	.18966	.62940	.39642	.11969	.74794	.46304
#1	.04390	.04736	.15015	.04808	.11257	.11804	4.2852	.16324
#2	.04421	.04681	.15049	.04865	.11329	.11812	4.3474	.16402
#3	.04391	.04648	.14992	.04820	.11340	.11831	4.3317	.16250

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	.91779	.20951	.02727	.33596	.16492	.00435	.20322	.04986
Stddev	.00139	.00071	.00013	.00086	.00046	.00003	.00096	.00020
%RSD	.15130	.33924	.47418	.25700	.27709	.79962	.47356	.40570
#1	.91630	.20895	.02712	.33557	.16439	.00434	.20214	.04997
#2	.91905	.21031	.02734	.33695	.16519	.00433	.20399	.04999
#3	.91800	.20928	.02735	.33537	.16517	.00439	.20354	.04963

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	.23385	.05180	.08236	.05046	1.0047	.02729	.27487	.62292
Stddev	.00069	.00008	.00070	.00024	.0067	.00019	.00044	.00083
%RSD	.29503	.15322	.85425	.48402	.66954	.71047	.16054	.13316
#1	.23312	.05173	.08168	.05074	1.0016	.02707	.27454	.62273
#2	.23449	.05189	.08309	.05038	1.0124	.02740	.27538	.62382
#3	.23393	.05178	.08230	.05027	1.0001	.02741	.27470	.62220

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	.08841	.31389	.00430	.02525	.01744	.74027	6.4083
Stddev	.00029	.00104	.00003	.00010	.00013	.00368	.0340
%RSD	.32683	.33168	.63569	.39073	.76187	.49736	.53028
#1	.08824	.31270	.00433	.02514	.01760	.73611	6.3705
#2	.08874	.31459	.00430	.02528	.01737	.74311	6.4363
#3	.08824	.31439	.00428	.02532	.01736	.74159	6.4182

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: S2 Acquired: 3/18/2025 10:20:04 Type: Cal
Method: NON EPA-6010-200.7(v2817) 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	2775.7	71565.	13621.	2422.2	4881.3
Stddev	7.6	155.	36.	8.5	13.2
%RSD	.27229	.21672	.26095	.34917	.27023
#1	2776.9	71533.	13580.	2417.4	4876.3
#2	2767.6	71734.	13640.	2417.2	4871.3
#3	2782.5	71429.	13642.	2432.0	4896.3

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: S3 Acquired: 3/18/2025 10:24:14 Type: Cal
Method: NON EPA-6010-200.7(v2817) 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	.14032	.14939	.47670	.15257	.35724	.37275	13.143	.50546
Stddev	.00043	.00078	.00192	.00016	.00094	.00082	.067	.00256
%RSD	.30915	.52114	.40212	.10356	.26293	.21878	.51310	.50702
#1	.14039	.15014	.47615	.15242	.35663	.37349	13.213	.50692
#2	.13985	.14859	.47512	.15254	.35677	.37289	13.138	.50697
#3	.14071	.14945	.47883	.15274	.35832	.37188	13.078	.50250

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	2.9027	.65071	.08510	1.0539	.50570	.01300	.61324	.15534
Stddev	.0097	.00236	.00051	.0041	.00114	.00005	.00229	.00064
%RSD	.33329	.36276	.60269	.38577	.22549	.35029	.37368	.40987
#1	2.9028	.65180	.08472	1.0547	.50575	.01301	.61452	.15520
#2	2.8930	.65234	.08488	1.0496	.50454	.01294	.61460	.15604
#3	2.9124	.64801	.08568	1.0576	.50682	.01303	.61059	.15479

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	.72918	.16179	.25287	.15724	3.0869	.08640	.84858	1.9105
Stddev	.00263	.00023	.00116	.00027	.0182	.00015	.00678	.0063
%RSD	.36047	.14205	.45840	.17015	.58834	.17460	.79894	.32908
#1	.72968	.16205	.25234	.15725	3.0868	.08645	.85392	1.9102
#2	.72634	.16162	.25206	.15697	3.0688	.08623	.85087	1.9043
#3	.73152	.16169	.25420	.15750	3.1052	.08652	.84095	1.9169

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	.28181	.95942	.01300	.08391	.05669	2.2589	19.593
Stddev	.00118	.00360	.00009	.00045	.00041	.0108	.078
%RSD	.42039	.37498	.69176	.53882	.72632	.47871	.39941
#1	.28177	.96274	.01292	.08388	.05683	2.2690	19.524
#2	.28065	.95992	.01298	.08347	.05623	2.2601	19.578
#3	.28302	.95560	.01310	.08437	.05701	2.2475	19.678

Sample Name: S3 Acquired: 3/18/2025 10:24:14 Type: Cal
Method: NON EPA-6010-200.7(v2817) 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	2742.7	71811.	13625.	2345.5	4661.6
Stddev	6.0	233.	45.	20.2	14.9
%RSD	.21912	.32515	.32873	.86103	.32057
#1	2741.7	71908.	13603.	2360.2	4655.7
#2	2749.2	71980.	13597.	2353.8	4678.6
#3	2737.3	71545.	13677.	2322.5	4650.5

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: S4 Acquired: 3/18/2025 10:28:24 Type: Cal
Method: NON EPA-6010-200.7(v2817) 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	.28964	.29679	.96726	.30425	.70945	.75319	26.518	.98951
Stddev	.00096	.00345	.00124	.00130	.00281	.00142	.516	.00164
%RSD	.33053	1.1614	.12869	.42686	.39549	.18801	1.9446	.16545
#1	.28878	.29556	.96595	.30315	.70682	.75257	26.718	.99138
#2	.28946	.29413	.96742	.30391	.70911	.75218	25.932	.98838
#3	.29067	.30069	.96842	.30568	.71240	.75481	26.904	.98876

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	5.8290	1.3104	.17194	2.0946	.98218	.02669	1.2063	.30816
Stddev	.0116	.0031	.00023	.0053	.00355	.00004	.0038	.00101
%RSD	.19918	.24000	.13102	.25253	.36176	.14938	.31197	.32809
#1	5.8175	1.3103	.17220	2.0892	.97810	.02669	1.2075	.30718
#2	5.8287	1.3073	.17182	2.0947	.98388	.02673	1.2022	.30811
#3	5.8407	1.3136	.17180	2.0998	.98456	.02665	1.2094	.30920

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	1.4405	.32854	.54114	.31765	6.2234	.18382	1.6636	3.7338
Stddev	.0037	.00051	.00129	.00154	.0093	.00041	.0065	.0146
%RSD	.25654	.15412	.23815	.48421	.15014	.22416	.39192	.39041
#1	1.4366	.32836	.54032	.31719	6.2317	.18405	1.6653	3.7214
#2	1.4412	.32911	.54048	.31639	6.2254	.18406	1.6564	3.7302
#3	1.4439	.32815	.54263	.31936	6.2133	.18334	1.6691	3.7499

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	.55922	1.9031	.02888	.16956	.11409	4.5283	38.386
Stddev	.00140	.0054	.00009	.00035	.00040	.0141	.169
%RSD	.25097	.28359	.32485	.20675	.35033	.31159	.44051
#1	.55879	1.9030	.02877	.16919	.11405	4.5361	38.579
#2	.55809	1.8978	.02892	.16962	.11371	4.5121	38.265
#3	.56079	1.9086	.02894	.16988	.11451	4.5368	38.313

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: S4 Acquired: 3/18/2025 10:28:24 Type: Cal
Method: NON EPA-6010-200.7(v2817) 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	2739.3	68365.	13636.	2189.3	4549.3
Stddev	6.2	67.	25.	12.8	6.9
%RSD	.22715	.09812	.18180	.58689	.15229
#1	2742.8	68306.	13619.	2193.0	4548.6
#2	2743.1	68351.	13664.	2175.0	4556.6
#3	2732.1	68438.	13623.	2199.9	4542.8

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: S5 Acquired: 3/18/2025 10:32:37 Type: Cal
Method: NON EPA-6010-200.7(v2817) 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	.58727	.59415	1.9404	.61579	1.4457	1.5419	53.489	1.9432
Stddev	.00124	.00167	.0067	.00070	.0022	.0070	.672	.0133
%RSD	.21111	.28179	.34302	.11360	.15581	.45342	1.2569	.68241
#1	.58698	.59568	1.9410	.61561	1.4442	1.5486	54.047	1.9516
#2	.58621	.59236	1.9334	.61519	1.4446	1.5424	53.677	1.9501
#3	.58863	.59441	1.9467	.61656	1.4483	1.5346	52.742	1.9279

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	11.723	2.6535	.33904	4.2352	1.9392	.05333	2.4190	.62297
Stddev	.040	.0160	.00090	.0127	.0035	.00008	.0168	.00274
%RSD	.34498	.60217	.26651	.29966	.18046	.15936	.69475	.44024
#1	11.730	2.6713	.33801	4.2370	1.9393	.05338	2.4353	.62553
#2	11.679	2.6487	.33943	4.2216	1.9357	.05324	2.4200	.62331
#3	11.759	2.6404	.33968	4.2468	1.9427	.05339	2.4017	.62007

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	2.8923	.65637	1.1194	.64535	12.340	.38250	3.2721	7.4719
Stddev	.0090	.00099	.0069	.00254	.035	.00154	.0219	.0152
%RSD	.31062	.15112	.61799	.39309	.28638	.40142	.67032	.20367
#1	2.8950	.65555	1.1170	.64812	12.330	.38276	3.2896	7.4768
#2	2.8823	.65609	1.1139	.64480	12.380	.38085	3.2792	7.4548
#3	2.8997	.65747	1.1272	.64314	12.311	.38389	3.2475	7.4841

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	1.1198	3.8766	.05903	.34527	.23660	9.3415	77.052
Stddev	.0037	.0239	.00042	.00073	.00067	.0523	.366
%RSD	.32721	.61697	.70505	.21163	.28509	.55963	.47446
#1	1.1213	3.9015	.05862	.34534	.23639	9.3994	77.223
#2	1.1156	3.8746	.05901	.34451	.23606	9.3271	76.632
#3	1.1224	3.8538	.05945	.34596	.23736	9.2978	77.300

Sample Name: S5 Acquired: 3/18/2025 10:32:37 Type: Cal
Method: NON EPA-6010-200.7(v2817) 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	2652.0	67574.	13481.	2106.6	4325.1
Stddev	6.8	94.	120.	7.6	11.2
%RSD	.25574	.13953	.88981	.36314	.25949
#1	2651.9	67490.	13372.	2112.4	4326.4
#2	2658.8	67676.	13462.	2097.9	4335.6
#3	2645.3	67557.	13610.	2109.4	4313.3

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: ICV01 Acquired: 3/18/2025 10:36:57 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	1.018294	1.065357	1.009026	1.045877	1.014835	2.531868	.5399739
Stddev	.000689	.007785	.002978	.000628	.003383	.015160	.0032372
%RSD	.0676331	.7307172	.2951533	.0599986	.3333390	.5987814	.5995079
#1	1.019088	1.056689	1.008845	1.046453	1.016575	2.524144	.5362499
#2	1.017864	1.071753	1.006142	1.045208	1.010936	2.549335	.5415566
#3	1.017929	1.067629	1.012090	1.045971	1.016994	2.522125	.5421153

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5427034	.5097922	9.878688	.5373713	.5158937	.5296224	10.21567
Stddev	.0012912	.0008480	.054836	.0032083	.0014420	.0012692	.02949
%RSD	.2379181	.1663511	.5550974	.5970286	.2795069	.2396344	.2887066
#1	.5412547	.5103167	9.815880	.5348771	.5165072	.5309826	10.20354
#2	.5431228	.5088139	9.917047	.5409905	.5142464	.5284699	10.24929
#3	.5437329	.5102462	9.903136	.5362462	.5169274	.5294146	10.19417

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4998420	5.823999	.5190017	.2603678	10.10703	.5193379	1.043657
Stddev	.0046141	.012496	.0007287	.0005422	.04035	.0038974	.004088
%RSD	.9231195	.2145533	.1404094	.2082494	.3992446	.7504582	.3916936
#1	.4953676	5.815881	.5196999	.2605017	10.12733	.5158159	1.042827
#2	.5045842	5.838388	.5182459	.2608304	10.13321	.5235251	1.048097
#3	.4995744	5.817726	.5190594	.2597711	10.06056	.5186728	1.040049

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.939562	2.487089	2.393139	2.469009	2.459871	2.322240	2.428050
Stddev	.040541	.002394	.002036	.000893	.010071	.016960	.007112
%RSD	.4078783	.0962442	.0850742	.0361735	.4094070	.7303200	.2929034
#1	9.923633	2.486694	2.394306	2.468770	2.448968	2.317766	2.419864
#2	9.985649	2.489656	2.390789	2.468260	2.468826	2.340988	2.432713
#3	9.909405	2.484918	2.394323	2.469997	2.461819	2.307965	2.431573

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: ICV01 Acquired: 3/18/2025 10:36:57 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	2.530309	2.539452	2.540237
Stddev	.010293	.007854	.025531
%RSD	.4067799	.3092961	1.005067
#1	2.519441	2.533649	2.510964
#2	2.531578	2.548389	2.551848
#3	2.539909	2.536316	2.557899

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2792.110	69565.29	14487.92	2214.102	4756.795
Stddev	4.641	131.04	58.23	13.856	4.839
%RSD	.1662105	.1883720	.4019236	.6257994	.1017299
#1	2787.508	69689.70	14550.82	2228.251	4753.913
#2	2792.035	69428.50	14477.05	2200.559	4754.090
#3	2796.789	69577.68	14435.89	2213.497	4762.381

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: LLICV01 Acquired: 3/18/2025 10:41:08 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.0219160	.0386147	.0108873	.0184074	.0540130	.1050987
Stddev	.0018427	.0004409	.0002128	.0006894	.0002697	.0070740
%RSD	8.408038	1.141685	1.954662	3.745424	.4993105	6.730829
#1	.0206370	.0386210	.0106417	.0178600	.0541484	.1011397
#2	.0210829	.0390524	.0110033	.0181807	.0537024	.1132657
#3	.0240282	.0381707	.0110168	.0191817	.0541882	.1008905

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0954300	.0059703	.0059071	1.983514	.0108786	.0296289
Stddev	.0004245	.0000416	.0000905	.001683	.0004074	.0000336
%RSD	.4448542	.6966126	1.531992	.0848583	3.745290	.1132660
#1	.0959090	.0059804	.0059364	1.984216	.0108601	.0295912
#2	.0952806	.0059246	.0058056	1.981593	.0104807	.0296553
#3	.0951004	.0060060	.0059794	1.984732	.0112949	.0296403

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0223074	.1120171	.0192558	2.093888	.0395817	.0101362
Stddev	.0006431	.0019041	.0002212	.020922	.0004027	.0003317
%RSD	2.882770	1.699864	1.148542	.9991965	1.017319	3.272304
#1	.0228893	.1128233	.0195048	2.069742	.0395016	.0098702
#2	.0224160	.1133855	.0191801	2.106640	.0400185	.0100307
#3	.0216170	.1098425	.0190823	2.105281	.0392252	.0105078

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.938987	.0385581	.0427658	1.855340	.1139096	.2050085
Stddev	.006760	.0013973	.0002051	.028741	.0010837	.0003575
%RSD	.3486460	3.623947	.4794899	1.549123	.9513269	.1743890
#1	1.932549	.0384904	.0425316	1.857500	.1151127	.2047430
#2	1.946029	.0371959	.0429128	1.882940	.1130101	.2054150
#3	1.938383	.0399881	.0428530	1.825579	.1136061	.2048675

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: LLICV01 Acquired: 3/18/2025 10:41:08 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.0385177	.0378739	.3734887	F .0156655	.0190514	.0174212
Stddev	.0005214	.0008012	.0039387	.0011293	.0029495	.0005685
%RSD	1.353584	2.115549	1.054568	7.209104	15.48166	3.263201
#1	.0390263	.0373382	.3691093	.0150752	.0156574	.0177895
#2	.0379845	.0374886	.3767408	.0169676	.0209935	.0167665
#3	.0385422	.0387950	.3746161	.0149536	.0205034	.0177077

Elem	Sr4077
Units	ppm
Avg	.0191145
Stddev	.0000689
%RSD	.3601880
#1	.0190911
#2	.0191920
#3	.0190605

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2837.180	70730.79	14297.03	2242.371	4970.987
Stddev	8.904	153.66	51.55	13.115	9.945
%RSD	.3138156	.2172523	.3605748	.5848606	.2000661
#1	2843.436	70744.29	14250.57	2236.538	4973.810
#2	2826.986	70570.81	14288.03	2233.184	4959.935
#3	2841.117	70877.25	14352.49	2257.390	4979.215

Sample Name: ICB01 Acquired: 3/18/2025 10:45:26 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.0000491	-.002139	.0011002	-.002159	.0011620	.0027887	.0015644
Stddev	.0018355	.000125	.0015456	.000951	.0009163	.0066887	.0008156
%RSD	3739.315	5.827694	140.4899	44.03577	78.85915	239.8496	52.13296
#1	-.002043	-.002023	.0000659	-.001265	.0020378	-.001561	.0015079
#2	.000801	-.002271	.0003577	-.002055	.0002100	.010491	.0024068
#3	.001390	-.002125	.0028769	-.003157	.0012381	-.000564	.0007786

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000886	.0000004	-.009934	.0003798	.0000368	-.000162	.0020442
Stddev	.0000140	.0000476	.005431	.0001276	.0001713	.000038	.0001202
%RSD	15.82642	12772.68	54.67450	33.58725	465.6274	23.10881	5.882098
#1	.0000980	.0000518	-.015637	.0002580	.0002100	-.000140	.0019136
#2	.0000725	-.000009	-.004823	.0003691	.0000328	-.000141	.0020685
#3	.0000953	-.000042	-.009342	.0005125	-.000132	-.000206	.0021504

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000803	.0162709	.0002546	.0002513	-.024540	-.000839	.0001726
Stddev	.000341	.0099944	.0002007	.0002408	.005448	.001240	.0001494
%RSD	42.47782	61.42480	78.82094	95.85170	22.19856	147.7834	86.54960
#1	-.001091	.0204092	.0003629	-.000012	-.018571	-.000504	.0001747
#2	-.000426	.0048721	.0003779	.000305	-.029243	-.002212	.0000222
#3	-.000891	.0235315	.0000230	.000461	-.025807	.000199	.0003210

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.096916	.0005966	-.000114	-.000175	.0002463	.0019590	-.005230
Stddev	.012124	.0000323	.000156	.000399	.0004410	.0012475	.000656
%RSD	12.51006	5.412031	135.9043	228.4289	179.0267	63.68287	12.53936
#1	-.101249	.0005775	-.000207	-.000407	.0007525	.0013016	-.005972
#2	-.106279	.0005783	-.000201	-.000403	-.000054	.0033978	-.004990
#3	-.083221	.0006339	.000065	.000286	.000041	.0011776	-.004728

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: ICB01 Acquired: 3/18/2025 10:45:26 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.0006850	-.002170	.0000810
Stddev	.0034418	.001459	.0000313
%RSD	502.4266	67.21207	38.68549
#1	-.003235	-.003480	.0000458
#2	.003212	-.002432	.0001059
#3	.002078	-.000598	.0000914

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2827.876	70598.48	14204.70	2215.997	5002.175
Stddev	4.060	212.74	34.89	13.242	6.612
%RSD	.1435827	.3013346	.2456192	.5975415	.1321843
#1	2832.531	70506.91	14171.25	2205.954	5009.807
#2	2826.035	70446.87	14201.97	2211.035	4998.173
#3	2825.063	70841.67	14240.87	2231.003	4998.545

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CRI01 Acquired: 3/18/2025 10:49:46 Type: Unk
Method: NON EPA-6010-200.7(v2817) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0226135	.0384160	.0112670	.0166133	.0537558	.1058829	.0944022
Stddev	.0024899	.0019485	.0010982	.0011890	.0014024	.0053376	.0003191
%RSD	11.01051	5.072029	9.746780	7.156626	2.608834	5.041016	.3380791
#1	.0203074	.0381478	.0116108	.0174244	.0542499	.0998049	.0940955
#2	.0222796	.0404847	.0121521	.0171672	.0521732	.1080370	.0943786
#3	.0252534	.0366155	.0100381	.0152485	.0548443	.1098068	.0947325

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058659	.0059061	1.960921	.0108401	.0293801	.0219687	.1144787
Stddev	.0000323	.0000676	.005886	.0000944	.0000771	.0003823	.0043098
%RSD	.5510462	1.145190	.3001559	.8703478	.2623875	1.740002	3.764752
#1	.0058923	.0058294	1.962278	.0107942	.0293662	.0221393	.1192715
#2	.0058756	.0059574	1.966010	.0107775	.0294632	.0222360	.1132427
#3	.0058298	.0059315	1.954475	.0109486	.0293109	.0215309	.1109219

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0185344	2.059071	.0393399	.0107061	1.948201	.0369646	.0430825
Stddev	.0001028	.012257	.0003582	.0001715	.001117	.0013049	.0000940
%RSD	.5543629	.5952546	.9105744	1.601591	.0573206	3.530047	.2181303
#1	.0184239	2.048805	.0389268	.0108290	1.949042	.0366367	.0431452
#2	.0186271	2.055766	.0395278	.0105102	1.948627	.0384022	.0431279
#3	.0185522	2.072641	.0395652	.0107791	1.946934	.0358550	.0429745

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.837522	.0975006	.2032308	.0399103	.0383759	.3720908	.0156023
Stddev	.049073	.0003371	.0005034	.0002717	.0011868	.0067140	.0015163
%RSD	2.670591	.3457754	.2476961	.6807168	3.092505	1.804406	9.718716
#1	1.783890	.0978600	.2026523	.0396037	.0375727	.3694432	.0169015
#2	1.880176	.0971913	.2034706	.0401212	.0397391	.3671043	.0139362
#3	1.848500	.0974506	.2035695	.0400059	.0378160	.3797250	.0159692

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CRI01 Acquired: 3/18/2025 10:49:46 Type: Unk
Method: NON EPA-6010-200.7(v2817) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0198020	.0154781	.0187711
Stddev	.0009353	.0002056	.0000805
%RSD	4.723268	1.328203	.4287385
#1	.0203627	.0155433	.0188626
#2	.0203210	.0152478	.0187111
#3	.0187223	.0156432	.0187397

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2820.776	69931.64	14417.42	2171.170	4915.276
Stddev	5.124	111.90	30.68	12.003	14.215
%RSD	.1816473	.1600194	.2127727	.5528151	.2891996
#1	2821.970	69942.52	14389.43	2158.085	4923.426
#2	2825.198	69814.70	14412.63	2181.668	4923.540
#3	2815.161	70037.71	14450.21	2173.756	4898.862

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: ICSA01 Acquired: 3/18/2025 10:54:03 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.0039889	.0077270	.0051682	-.012299	-.001124	247.9061
Stddev	.0024605	.0019423	.0010766	.005366	.001852	.7027
%RSD	61.68367	25.13709	20.83170	43.62800	164.7977	.2834714
#1	.0068299	.0066813	.0047150	-.006241	-.000208	247.3855
#2	.0025566	.0099681	.0063973	-.014200	.000092	248.7055
#3	.0025800	.0065314	.0043922	-.016455	-.003255	247.6274

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059343	.0013342	-.004364	236.5024	.0602933	.0019731
Stddev	.0011418	.0000542	.000151	.6086	.0002230	.0000262
%RSD	19.24029	4.060582	3.451267	.2573417	.3698659	1.327907
#1	.0046280	.0012722	-.004429	237.0532	.0603492	.0020027
#2	.0067418	.0013579	-.004472	236.6050	.0604830	.0019636
#3	.0064331	.0013724	-.004192	235.8490	.0600476	.0019529

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101609	102.5519	.0016514	249.8328	.0021579	-.000687
Stddev	.0008418	.2187	.0003115	.2034	.0001748	.000207
%RSD	8.284652	.2133024	18.86301	.0814294	8.101427	30.18731
#1	.0104715	102.3526	.0020111	250.0537	.0020596	-.000897
#2	.0092079	102.7859	.0014714	249.6532	.0020544	-.000683
#3	.0108033	102.5170	.0014718	249.7913	.0023598	-.000482

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0331015	.0024157	.0046594	-.104236	F -.251139	.0001347
Stddev	.0015639	.0018752	.0002144	.017011	.001069	.0004771
%RSD	4.724476	77.62471	4.600664	16.31997	.4256250	354.2685
#1	.0313809	.0015655	.0048958	-.085731	-.251455	-.000145
#2	.0334874	.0011162	.0046049	-.119195	-.252015	-.000137
#3	.0344364	.0045653	.0044776	-.107781	-.249948	.000686

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: ICSA01 Acquired: 3/18/2025 10:54:03 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	-.004903	-.001009	.0193303	-.001865	-.010092	.0007695
Stddev	.000601	.000395	.0003542	.002556	.003872	.0006027
%RSD	12.24851	39.19799	1.832287	137.0867	38.36456	78.31595
#1	-.005593	-.001465	.0189313	-.004650	-.009637	.0002143
#2	-.004500	-.000790	.0196076	.000373	-.014171	.0006839
#3	-.004615	-.000771	.0194519	-.001317	-.006468	.0014105

Elem	Sr4077
Units	ppm
Avg	.0046619
Stddev	.0003070
%RSD	6.585734
#1	.0050155
#2	.0045074
#3	.0044629

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2520.204	61464.55	14033.78	1894.736	4020.156
Stddev	2.257	206.90	37.70	9.889	4.137
%RSD	.0895410	.3366102	.2686593	.5219438	.1029059
#1	2520.734	61643.67	14006.29	1904.296	4024.918
#2	2522.149	61238.08	14018.29	1895.364	4018.096
#3	2517.730	61511.88	14076.77	1884.547	4017.453

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: ICSAB01 Acquired: 3/18/2025 11:04:59 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.1056107	.1007859	.0518658	.0342332	.6004232	235.9705
Stddev	.0010696	.0010297	.0019502	.0026523	.0042892	2.7711
%RSD	1.012783	1.021646	3.760185	7.747724	.7143612	1.174342
#1	.1068414	.1003425	.0534597	.0313935	.5957168	238.9897
#2	.1050857	.1000522	.0524467	.0346597	.6041122	235.3784
#3	.1049051	.1019630	.0496912	.0366464	.6014407	233.5432

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4520232	.4726413	.9550573	223.2320	.5547624	.4858265
Stddev	.0015430	.0018221	.0030104	.9967	.0010102	.0016585
%RSD	.3413503	.3855153	.3152093	.4464921	.1820954	.3413780
#1	.4509642	.4744901	.9522687	223.0469	.5554364	.4841788
#2	.4513117	.4708471	.9546542	222.3407	.5536009	.4858052
#3	.4537935	.4725866	.9582490	224.3082	.5552499	.4874956

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4890796	95.61581	.4416561	239.1818	.9605023	.2111855
Stddev	.0005217	.47849	.0024643	.7014	.0037420	.0008292
%RSD	.1066647	.5004304	.5579641	.2932490	.3895871	.3926529
#1	.4886619	95.29981	.4401289	239.0640	.9569273	.2119472
#2	.4889126	95.38130	.4403404	238.5468	.9601881	.2103022
#3	.4896643	96.16631	.4444990	239.9347	.9643915	.2113071

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0149540	.4459531	1.035131	-.124446	F .7080128	1.039777
Stddev	.0061142	.0011988	.003017	.009534	.0045551	.002128
%RSD	40.88692	.2688244	.2914606	7.661115	.6433647	.2046199
#1	.0090237	.4466112	1.037011	-.132591	.7122390	1.037324
#2	.0146013	.4445693	1.031651	-.113959	.7031880	1.040886
#3	.0212369	.4466787	1.036732	-.126788	.7086116	1.041121

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: ICSAB01 Acquired: 3/18/2025 11:04:59 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	1.038850	.9541434	.9589656	F -.000484	F -.013251	F -.000054
Stddev	.003386	.0047861	.0149738	.006732	.005926	.000724
%RSD	.3259528	.5016069	1.561450	1392.323	44.72309	1331.385
#1	1.034977	.9522335	.9664900	-.002658	-.017577	.000631
#2	1.040316	.9506071	.9417219	.007067	-.006496	-.000812
#3	1.041255	.9595895	.9686848	-.005860	-.015679	.000017

Elem	Sr4077
Units	ppm
Avg	F .0057111
Stddev	.0003491
%RSD	6.113269
#1	.0055283
#2	.0054914
#3	.0061137

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2485.569	62059.60	13817.20	1925.349	3998.483
Stddev	2.881	135.40	53.41	3.746	8.588
%RSD	.1159037	.2181802	.3865305	.1945761	.2147826
#1	2487.445	61931.80	13762.06	1921.061	4007.289
#2	2482.252	62201.50	13868.68	1927.983	3998.028
#3	2487.010	62045.51	13820.85	1927.004	3990.131

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCV01 Acquired: 3/18/2025 11:09:10 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	5.044129	5.132327	4.994702	5.040642	5.034713	9.845709	9.533298
Stddev	.013333	.027380	.007847	.014623	.012861	.023439	.054081
%RSD	.2643272	.5334853	.1571056	.2901040	.2554438	.2380633	.5672865
#1	5.033641	5.148851	4.986523	5.039896	5.026043	9.818733	9.527935
#2	5.039612	5.100722	4.995417	5.026407	5.028608	9.857304	9.589861
#3	5.059134	5.147408	5.002168	5.055624	5.049490	9.861091	9.482098

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2425366	2.473068	24.20725	1.023201	2.455389	1.243582	4.877548
Stddev	.0004953	.001498	.05236	.000533	.000686	.000935	.023892
%RSD	.2042296	.0605904	.2162849	.0521235	.0279275	.0751457	.4898349
#1	.2425218	2.471350	24.22080	1.023657	2.454818	1.242859	4.902869
#2	.2430392	2.474106	24.25150	1.023330	2.455200	1.243250	4.874370
#3	.2420489	2.473748	24.14945	1.022614	2.456150	1.244637	4.855404

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.350635	23.99820	2.454455	1.257366	25.27238	2.421937	2.538875
Stddev	.007081	.05757	.001391	.002198	.06954	.004719	.005546
%RSD	.3012224	.2398927	.0566891	.1748343	.2751682	.1948470	.2184361
#1	2.353125	23.95981	2.452854	1.259851	25.35063	2.427113	2.533251
#2	2.356134	24.06440	2.455135	1.256570	25.24886	2.420825	2.539035
#3	2.342646	23.97039	2.455375	1.255677	25.21765	2.417873	2.544340

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.43342	4.832925	4.963240	4.990093	4.760610	5.113334	5.091442
Stddev	.13781	.014493	.008796	.006215	.010361	.005354	.003871
%RSD	.5640332	.2998785	.1772291	.1245496	.2176362	.1046978	.0760214
#1	24.58344	4.823647	4.959248	4.984090	4.765554	5.116631	5.088830
#2	24.40437	4.849626	4.957147	4.996501	4.767574	5.116213	5.089607
#3	24.31244	4.825502	4.973324	4.989689	4.748704	5.107156	5.095889

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCV01 Acquired: 3/18/2025 11:09:10 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	4.958992	4.716586	4.733921
Stddev	.009523	.008666	.041049
%RSD	.1920307	.1837428	.8671161
#1	4.948559	4.721634	4.745382
#2	4.961199	4.721544	4.688360
#3	4.967217	4.706579	4.768021

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2677.654	66726.25	13730.65	2039.678	4437.920
Stddev	4.265	137.46	20.75	3.614	2.490
%RSD	.1592813	.2060066	.1511127	.1771727	.0560999
#1	2679.998	66568.53	13720.17	2038.787	4440.566
#2	2680.232	66789.65	13717.23	2043.654	4437.569
#3	2672.731	66820.57	13754.54	2036.593	4435.624

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCB01 Acquired: 3/18/2025 11:13:21 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	-.000202	-.001840	-.000762	.0000437	.0015243	.0026948	-.000689
Stddev	.000530	.000966	.000402	.0009801	.0012659	.0042987	.000850
%RSD	262.2437	52.48616	52.80669	2243.422	83.05074	159.5172	123.3918
#1	.000282	-.001912	-.000838	-.000387	.0029859	-.002186	.000130
#2	-.000119	-.002769	-.000327	-.000647	.0007816	.004351	-.000629
#3	-.000768	-.000841	-.001121	.001165	.0008052	.005919	-.001567

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000640	-.000025	-.009567	.0002381	.0000873	.0001369	.0023453
Stddev	.0000292	.000005	.006648	.0005293	.0000838	.0000924	.0040439
%RSD	45.64157	19.57680	69.49238	222.3111	96.00837	67.49390	172.4237
#1	.0000522	-.000021	-.015637	.0006132	.0001535	.0000445	.0032667
#2	.0000973	-.000024	-.010604	-.000367	-.000007	.0001370	-.002080
#3	.0000426	-.000031	-.002461	.000468	.000115	.0002293	.005849

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000850	.0127112	.0002666	.0004935	-.033051	-.000350	.0002942
Stddev	.000059	.0133315	.0001993	.0000413	.003000	.000753	.0002054
%RSD	6.889328	104.8801	74.74611	8.373546	9.075697	215.4195	69.82421
#1	-.000787	.0098691	.0004256	.0005401	-.029766	.000520	.0001461
#2	-.000861	.0010299	.0000431	.0004613	-.035644	-.000787	.0005287
#3	-.000903	.0272345	.0003311	.0004790	-.033743	-.000781	.0002078

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.131304	.0067638	.0000239	-.000037	.0007715	.0019508	-.005195
Stddev	.027841	.0006348	.0003148	.000239	.0006556	.0080860	.000878
%RSD	21.20346	9.386012	1316.980	652.2075	84.97725	414.5004	16.89316
#1	-.140364	.0074795	-.000205	.000188	.0014892	-.007079	-.005979
#2	-.153487	.0062686	.000383	-.000011	.0002040	.004410	-.005357
#3	-.100062	.0065433	-.000106	-.000287	.0006213	.008521	-.004247

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCB01 Acquired: 3/18/2025 11:13:21 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	-.000022	-.002888	.0000963
Stddev	.003407	.000168	.0000773
%RSD	15409.67	5.831105	80.20996
#1	-.001050	-.002980	.0001841
#2	.003781	-.002693	.0000665
#3	-.002797	-.002990	.0000384

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2823.469	71172.44	14415.20	2142.167	4997.433
Stddev	3.145	328.48	55.65	7.233	7.325
%RSD	.1113911	.4615227	.3860206	.3376262	.1465827
#1	2825.808	71507.08	14369.84	2150.456	5005.214
#2	2819.894	70850.50	14398.45	2138.906	4996.415
#3	2824.705	71159.75	14477.29	2137.140	4990.670

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: PB167145BL Acquired: 3/18/2025 11:18:32 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	-.000434	-.003651	-.000017	-.003143	.0017379	.0052351	-.000510
Stddev	.000721	.000296	.000524	.002753	.0014291	.0039227	.000881
%RSD	166.2145	8.114937	3111.900	87.58426	82.23263	74.93118	172.8685
#1	-.000234	-.003444	.000236	-.004319	.0005257	.0010529	-.000817
#2	-.001234	-.003991	-.000619	-.005113	.0013743	.0058196	.000484
#3	.000167	-.003520	.000332	.000002	.0033137	.0088327	-.001196

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000871	-.000033	-.006849	.0001691	.0000582	.0000339	.0011187
Stddev	.0000261	.000035	.006936	.0002465	.0001740	.0002832	.0027536
%RSD	29.97428	104.9900	101.2595	145.8124	299.0392	835.6633	246.1295
#1	.0000873	-.000004	-.014798	.0001939	.0002392	.0000683	.0011003
#2	.0000609	-.000024	-.002029	-.000089	-.000108	-.000265	.0038815
#3	.0001131	-.000071	-.003721	.000402	.000043	.000298	-.001626

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001168	-.000174	.0000914	.0006049	-.029421	-.002365	.0003257
Stddev	.000089	.012600	.0001759	.0002298	.004659	.001149	.0001941
%RSD	7.599946	7227.309	192.4000	37.99125	15.83466	48.58025	59.59280
#1	-.001158	-.005235	.0000262	.0008148	-.034760	-.001082	.0003508
#2	-.001260	-.009457	.0002906	.0003594	-.026177	-.003298	.0001203
#3	-.001084	.014169	-.000043	.0006406	-.027327	-.002715	.0005061

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.138411	-.000998	-.000082	.0000526	.0009698	-.001351	-.004307
Stddev	.035593	.000791	.000150	.0001030	.0002589	.001317	.001456
%RSD	25.71532	79.23826	182.2866	195.6418	26.69833	97.54074	33.80218
#1	-.156341	-.000085	.000033	.0001006	.0008142	-.002542	-.004380
#2	-.161474	-.001455	-.000028	-.000066	.0008266	-.001574	-.005725
#3	-.097419	-.001453	-.000252	.000123	.0012687	.000064	-.002816

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: PB167145BL Acquired: 3/18/2025 11:18:32 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.0010355	-.002975	.0000614
Stddev	.0029676	.000568	.0000384
%RSD	286.5797	19.08109	62.54759
#1	-.000368	-.002330	.0000463
#2	-.000970	-.003398	.0000328
#3	.004445	-.003197	.0001050

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2804.890	69251.54	14676.79	2104.175	4923.926
Stddev	3.733	252.19	54.20	18.168	7.169
%RSD	.1330717	.3641595	.3692864	.8634327	.1455994
#1	2804.163	69393.70	14735.81	2114.852	4916.120
#2	2801.574	68960.37	14665.33	2083.198	4930.216
#3	2808.932	69400.56	14629.24	2114.476	4925.441

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: PB167145BS Acquired: 3/18/2025 11:22:51 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.7493569	1.926047	.9236297	1.885957	.7787816	1.841725
Stddev	.0019616	.011268	.0029117	.001785	.0005920	.011679
%RSD	.2617739	.5850349	.3152503	.0946545	.0760109	.6341159
#1	.7489671	1.937451	.9211097	1.884281	.7791065	1.837936
#2	.7476194	1.914920	.9229622	1.887835	.7780984	1.854828
#3	.7514842	1.925771	.9268172	1.885756	.7791401	1.832412

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1760547	.1830787	.1842731	.8998439	.3989563	.1856533
Stddev	.0008217	.0009266	.0002710	.0113207	.0002457	.0003800
%RSD	.4667065	.5061390	.1470632	1.258080	.0615772	.2046682
#1	.1751842	.1822672	.1842161	.9117957	.3986727	.1853251
#2	.1761630	.1828806	.1840351	.8892826	.3991026	.1855651
#3	.1768168	.1840884	.1845681	.8984534	.3990936	.1860696

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2931766	2.823576	.1769597	1.792607	.4659495	.0738144
Stddev	.0013409	.012016	.0004026	.005473	.0012790	.0007085
%RSD	.4573538	.4255422	.2274943	.3053158	.2744860	.9598478
#1	.2919803	2.837439	.1766747	1.794626	.4656207	.0745414
#2	.2929235	2.816165	.1767842	1.796784	.4648670	.0737761
#3	.2946260	2.817124	.1774203	1.786412	.4673607	.0731259

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.850688	.2721289	.2011529	8.982375	.2590976	.3863689
Stddev	.009395	.0013877	.0004630	.028890	.0019226	.0012180
%RSD	.3295584	.5099409	.2301524	.3216334	.7420370	.3152382
#1	2.852824	.2705305	.2006489	9.015373	.2582680	.3866173
#2	2.858831	.2728301	.2015592	8.961631	.2577290	.3850459
#3	2.840409	.2730261	.2012507	8.970122	.2612957	.3874436

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: PB167145BS Acquired: 3/18/2025 11:22:51 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.6598068	.1794803	.7790175	5.574074	F -.008055	.1765088
Stddev	.0013698	.0007537	.0022757	.008488	.004099	.0006257
%RSD	.2076129	.4199269	.2921184	.1522745	50.89166	.3544964
#1	.6601474	.1799124	.7796696	5.576406	-.009357	.1757984
#2	.6582988	.1786100	.7808958	5.564664	-.011346	.1767501
#3	.6609742	.1799184	.7764869	5.581152	-.003463	.1769780

Elem	Sr4077
Units	ppm
Avg	.1737454
Stddev	.0005802
%RSD	.3339172
#1	.1736981
#2	.1731903
#3	.1743477

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2792.754	68321.70	14430.09	2103.492	4833.370
Stddev	8.115	88.00	63.24	12.187	9.671
%RSD	.2905682	.1288021	.4382209	.5793621	.2000968
#1	2798.343	68254.77	14484.53	2091.889	4837.457
#2	2796.473	68288.96	14445.02	2102.399	4840.326
#3	2783.446	68421.38	14360.73	2116.189	4822.326

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: PB167150BL Acquired: 3/18/2025 11:27:58 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	-.000584	-.002685	-.000059	-.001826	.0017910	.0060485	.0002701
Stddev	.002008	.001399	.001042	.001309	.0012428	.0015228	.0005015
%RSD	343.8729	52.09493	1757.759	71.64600	69.38899	25.17671	185.6509
#1	-.000472	-.001119	.001049	-.001456	.0003921	.0048993	.0000788
#2	.001366	-.003811	-.000209	-.000743	.0027674	.0054705	-.000108
#3	-.002646	-.003125	-.001018	-.003280	.0022135	.0077756	.000839

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001102	.0000245	-.000133	.0002001	.0002151	.0001038	.0016232
Stddev	.0000414	.0000770	.007037	.0002364	.0002672	.0001977	.0032746
%RSD	37.54710	314.5347	5292.776	118.1364	124.2286	190.4600	201.7356
#1	.0001205	.0000864	.007437	.0002865	.0005229	-.000123	-.001998
#2	.0000647	-.000062	-.006475	-.000067	.0000790	.000193	.004377
#3	.0001455	.000049	-.001361	.000381	.0000433	.000241	.002490

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000841	.0043866	.0001203	.0002725	-.049769	-.001394	-.000148
Stddev	.000269	.0036609	.0001118	.0006378	.014733	.002435	.000298
%RSD	32.00671	83.45605	92.93292	234.0577	29.60353	174.6741	201.8009
#1	-.001137	.0028095	.0000007	-.000277	-.064989	.001349	-.000467
#2	-.000776	.0085718	.0002222	.000123	-.048742	-.003303	.000124
#3	-.000611	.0017786	.0001379	.000972	-.035576	-.002228	-.000101

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.152218	-.004340	.0000218	-.000303	.0005308	-.005212	-.004665
Stddev	.013846	.000331	.0001001	.000424	.0004829	.000440	.002031
%RSD	9.095954	7.615493	459.1322	139.8585	90.97633	8.444992	43.53727
#1	-.136301	-.003989	.0001300	-.000582	.0010187	-.005709	-.003585
#2	-.161475	-.004387	-.000067	.000185	.0005207	-.004871	-.003403
#3	-.158878	-.004645	.000003	-.000512	.0000531	-.005056	-.007008

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: PB167150BL Acquired: 3/18/2025 11:27:58 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.0014619	-.003725	-.000026
Stddev	.0017178	.000994	.000033
%RSD	117.5021	26.68826	126.1774
#1	.0023870	-.002601	-.000058
#2	-.000520	-.004086	.000008
#3	.002519	-.004489	-.000028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2789.682	69151.02	13950.06	2117.525	4926.012
Stddev	6.529	257.72	18.42	6.734	6.282
%RSD	.2340522	.3726915	.1320376	.3180191	.1275264
#1	2783.040	69444.01	13967.16	2123.865	4924.250
#2	2796.092	69049.67	13952.46	2118.254	4932.986
#3	2789.916	68959.38	13930.56	2110.456	4920.798

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: PB167150BS Acquired: 3/18/2025 11:32:17 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.7654910	1.976388	.9402887	1.936572	.7911160	1.870471
Stddev	.0036445	.007110	.0045636	.006667	.0037610	.010700
%RSD	.4761044	.3597250	.4853381	.3442658	.4754069	.5720597
#1	.7626264	1.972459	.9392938	1.939938	.7887354	1.858904
#2	.7642535	1.984595	.9363046	1.928893	.7891608	1.872493
#3	.7695932	1.972110	.9452676	1.940884	.7954519	1.880016

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1764853	.1853630	.1877645	.9129152	.4058356	.1889845
Stddev	.0006641	.0005187	.0004104	.0093321	.0011381	.0002399
%RSD	.3763052	.2798218	.2185692	1.022227	.2804384	.1269534
#1	.1770947	.1857208	.1877098	.9120101	.4059347	.1887076
#2	.1757775	.1847681	.1873842	.9040687	.4046511	.1891289
#3	.1765837	.1856000	.1881995	.9226669	.4069209	.1891170

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2984287	2.857363	.1788467	1.818217	.4737414	.0750149
Stddev	.0019578	.022253	.0002780	.013124	.0013526	.0000225
%RSD	.6560325	.7787979	.1554616	.7218093	.2855181	.0299751
#1	.2981523	2.851227	.1788157	1.830823	.4731959	.0750010
#2	.2966238	2.882040	.1791389	1.819198	.4727467	.0750408
#3	.3005100	2.838821	.1785855	1.804629	.4752816	.0750028

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.912929	.2734203	.2051889	9.122460	.2589967	.3916198
Stddev	.013965	.0028555	.0007336	.040608	.0019251	.0012002
%RSD	.4794274	1.044375	.3575151	.4451421	.7432816	.3064780
#1	2.897622	.2725315	.2058761	9.076397	.2604348	.3906060
#2	2.924976	.2766145	.2044164	9.153085	.2568097	.3913084
#3	2.916189	.2711149	.2052743	9.137898	.2597455	.3929451

Sample Name: PB167150BS Acquired: 3/18/2025 11:32:17 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.6704797	.1808725	.7915710	5.708575	F -.008427	.1774814
Stddev	.0015671	.0004970	.0035537	.022992	.002236	.0008810
%RSD	.2337334	.2748045	.4489466	.4027615	26.52650	.4963795
#1	.6703308	.1803648	.7954700	5.709767	-.010757	.1764878
#2	.6689923	.1813581	.7907292	5.685010	-.006299	.1781672
#3	.6721159	.1808946	.7885136	5.730948	-.008226	.1777891

Elem	Sr4077
Units	ppm
Avg	.1751577
Stddev	.0003228
%RSD	.1842624
#1	.1748727
#2	.1750921
#3	.1755082

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2770.940	67826.86	14413.51	2059.561	4793.782
Stddev	9.018	56.84	43.82	8.654	11.016
%RSD	.3254625	.0838016	.3040234	.4201726	.2297957
#1	2778.478	67884.50	14396.67	2058.960	4802.283
#2	2773.395	67825.22	14463.25	2068.500	4797.726
#3	2760.949	67770.85	14380.61	2051.224	4781.337

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1569-05 Acquired: 3/18/2025 11:36:20 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	-.002533	-.008691	.0023555	-.000259	.0017953	.0844967	.1740311
Stddev	.002274	.001001	.0015931	.001350	.0013002	.0034260	.0014241
%RSD	89.75151	11.52043	67.63270	520.2434	72.41990	4.054620	.8183052
#1	-.003348	-.007647	.0031070	-.001747	.0029626	.0842260	.1738405
#2	-.004288	-.009644	.0005257	.000889	.0020294	.0880501	.1755409
#3	.000036	-.008781	.0034338	.000079	.0003940	.0812141	.1727119

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004734	.0000806	42.89940	.0009302	.0016524	.0128169	.7790965
Stddev	.0000518	.0000470	.10896	.0004377	.0002247	.0005410	.0039301
%RSD	10.93690	58.36942	.2539828	47.06159	13.59984	4.220585	.5044406
#1	.0004167	.0000960	43.02386	.0004488	.0018854	.0123328	.7760246
#2	.0004855	.0001180	42.82125	.0010374	.0014370	.0127171	.7835252
#3	.0005181	.0000278	42.85309	.0013043	.0016348	.0134008	.7777396

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1480331	3.660648	.0053147	-.000002	322.8064	-.000240	.1058314
Stddev	.0011281	.011749	.0001631	.000287	4.0267	.001719	.0007519
%RSD	.7620465	.3209550	3.069099	13127.37	1.247419	716.7930	.7104969
#1	.1487301	3.673092	.0053176	-.000209	324.3571	-.000217	.1052254
#2	.1467316	3.659108	.0051502	-.000123	325.8272	-.001970	.1055959
#3	.1486376	3.649746	.0054763	.000326	318.2348	.001467	.1066729

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7031550	.0244928	.0004731	-.002861	.0004666	3.179552	.0028913
Stddev	.0329446	.0010136	.0001067	.001261	.0000655	.011351	.0021621
%RSD	4.685261	4.138132	22.55547	44.09350	14.03653	.3569851	74.77825
#1	.7073966	.0248920	.0005638	-.003320	.0004127	3.189874	.0051655
#2	.7337735	.0252460	.0004999	-.003828	.0004476	3.167396	.0026462
#3	.6682951	.0233405	.0003555	-.001434	.0005395	3.181384	.0008622

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1569-05 Acquired: 3/18/2025 11:36:20 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.9365565	-.007695	.1032632
Stddev	.0066695	.001437	.0001199
%RSD	.7121257	18.67366	.1161215
#1	.9299571	-.009050	.1032939
#2	.9432938	-.006188	.1031309
#3	.9364185	-.007848	.1033647

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2605.333	64231.59	14445.67	1935.425	4299.249
Stddev	5.112	96.37	47.35	.946	8.834
%RSD	.1962073	.1500293	.3277919	.0488839	.2054869
#1	2609.729	64128.17	14395.62	1934.676	4309.329
#2	2606.547	64247.75	14451.63	1935.112	4292.851
#3	2599.724	64318.86	14489.76	1936.488	4295.567

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1569-02 Acquired: 3/18/2025 11:40:46 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	-.003528	-.006316	.0021991	.0024134	.0026249	.1070797	.1398436
Stddev	.001394	.000420	.0008564	.0026057	.0005047	.0080773	.0007959
%RSD	39.49910	6.651764	38.94525	107.9654	19.22609	7.543257	.5691083
#1	-.002004	-.006267	.0013309	.0035885	.0028012	.0980615	.1392564
#2	-.004737	-.005922	.0030432	-.000573	.0030179	.1136496	.1395250
#3	-.003844	-.006758	.0022231	.004225	.0020558	.1095279	.1407494

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001868	-.000009	10.94513	.0018994	.0031244	.0138102	.2936482
Stddev	.0000239	.000034	.04655	.0003214	.0002272	.0002901	.0040865
%RSD	12.79899	380.4787	.4253340	16.92061	7.270481	2.100487	1.391634
#1	.0002145	-.000046	10.92875	.0017889	.0032563	.0139088	.2898779
#2	.0001738	-.000002	10.90899	.0022615	.0028621	.0140381	.2979906
#3	.0001723	.000021	10.99767	.0016479	.0032548	.0134837	.2930760

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1821115	1.429843	.0035098	.0003774	309.7629	-.001521	.0523639
Stddev	.0009182	.008868	.0002535	.0003122	2.1404	.000655	.0004391
%RSD	.5041832	.6202272	7.221979	82.73247	.6909826	43.05467	.8385871
#1	.1814289	1.437808	.0036674	.0000264	307.8167	-.001546	.0523398
#2	.1817503	1.420287	.0032174	.0004817	312.0553	-.002162	.0528146
#3	.1831554	1.431434	.0036445	.0006240	309.4168	-.000854	.0519373

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3483110	.0127017	.0004538	-.001954	.0010980	.6869499	.0053619
Stddev	.0198957	.0006334	.0001802	.000846	.0002958	.0123568	.0019190
%RSD	5.712039	4.987062	39.70692	43.31402	26.94250	1.798797	35.78916
#1	.3689294	.0129630	.0006450	-.000983	.0010017	.6862326	.0060759
#2	.3467765	.0119794	.0004292	-.002346	.0014301	.6996498	.0068216
#3	.3292270	.0131627	.0002871	-.002533	.0008624	.6749674	.0031883

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1569-02 Acquired: 3/18/2025 11:40:46 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.2024821	-.006273	.0291943
Stddev	.0031165	.000138	.0001194
%RSD	1.539165	2.203244	.4089671
#1	.2035208	-.006352	.0290607
#2	.2049467	-.006355	.0292315
#3	.1989789	-.006114	.0292906

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2641.768	66046.35	14738.83	1969.913	4359.261
Stddev	5.146	173.88	86.10	14.238	8.611
%RSD	.1947885	.2632701	.5841625	.7227628	.1975333
#1	2636.636	65849.04	14751.92	1954.196	4350.238
#2	2641.740	66177.18	14817.63	1981.948	4360.155
#3	2646.928	66112.84	14646.93	1973.595	4367.390

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1574-02 Acquired: 3/18/2025 11:45:12 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.0116421	-.007125	.9379895	-.000787	.0067402	.3606565
Stddev	.0007583	.002686	.0026834	.003808	.0004282	.0057424
%RSD	6.513765	37.69646	.2860784	483.7269	6.352267	1.592200
#1	.0124978	-.004286	.9403194	-.000751	.0062473	.3543206
#2	.0110533	-.009625	.9350556	.003002	.0070201	.3655177
#3	.0113753	-.007463	.9385936	-.004613	.0069531	.3621311

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2361193	.0006242	.0351517	48.32395	.0021639	.0163135
Stddev	.0014754	.0000133	.0001853	.29479	.0004219	.0002033
%RSD	.6248402	2.136280	.5270546	.6100197	19.49690	1.246424
#1	.2348743	.0006347	.0352025	48.02039	.0018754	.0161038
#2	.2357347	.0006092	.0349463	48.34238	.0026481	.0163270
#3	.2377489	.0006287	.0353062	48.60910	.0019682	.0165098

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.611679	.8413896	.6612012	2.452579	.5054514	.0003688
Stddev	.006980	.0028690	.0054491	.017959	.0005630	.0001493
%RSD	.1055703	.3409816	.8241175	.7322664	.1113828	40.47923
#1	6.603693	.8445959	.6575378	2.457189	.5058483	.0002070
#2	6.614729	.8405081	.6586026	2.467783	.5056989	.0005013
#3	6.616614	.8390647	.6674631	2.432763	.5048071	.0003981

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	353.3684	-.000323	F 37.78545	2.512439	.2942761	-.009094
Stddev	.9012	.001364	.18738	.025867	.0012598	.000234
%RSD	.2550423	422.5932	.4959033	1.029565	.4280888	2.574062
#1	354.3744	-.001078	37.95115	2.541673	.2928782	-.009300
#2	352.6347	-.001142	37.58210	2.492518	.2946267	-.008839
#3	353.0963	.001252	37.82308	2.503125	.2953234	-.009142

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1574-02 Acquired: 3/18/2025 11:45:12 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	-.002916	-.000668	1.978232	.0386613	5.566425	-.007044
Stddev	.000367	.000330	.013163	.0034885	.015241	.000349
%RSD	12.57156	49.35409	.6653915	9.023248	.2737979	4.961300
#1	-.003112	-.000511	1.987503	.0379957	5.566249	-.006667
#2	-.003142	-.000447	1.984027	.0355536	5.551272	-.007357
#3	-.002493	-.001047	1.963166	.0424347	5.581752	-.007106

Elem	Sr4077
Units	ppm
Avg	.2668469
Stddev	.0011632
%RSD	.4359222
#1	.2659344
#2	.2664495
#3	.2681568

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2601.746	64152.26	14553.76	1931.857	4312.239
Stddev	.957	186.67	71.13	8.985	8.021
%RSD	.0367707	.2909826	.4887629	.4651173	.1860149
#1	2602.703	64129.67	14635.19	1935.641	4304.226
#2	2601.744	63977.91	14522.40	1938.332	4320.268
#3	2600.790	64349.20	14503.70	1921.599	4312.222

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1574-01 Acquired: 3/18/2025 11:49:38 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	2.553678	.1741920	36.39314	F -1.54230	.5463247	178.7163
Stddev	.010776	.0060937	.07620	.02018	.0059106	.3327
%RSD	.4219643	3.498256	.2093840	1.308173	1.081888	.1861550
#1	2.565850	.1769827	36.32971	-1.55194	.5429594	179.0596
#2	2.545360	.1672027	36.37205	-1.55584	.5531495	178.3954
#3	2.549822	.1783905	36.47767	-1.51911	.5428652	178.6937

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.089946	.0361048	.3167469	173.1552	F 2.182860	.9085908
Stddev	.050199	.0003817	.0019939	.5795	.007868	.0022625
%RSD	.8242887	1.057111	.6294767	.3346494	.3604393	.2490116
#1	6.130557	.0363272	.3155035	173.3291	2.191656	.9060062
#2	6.105459	.0356641	.3156906	172.5087	2.176494	.9102131
#3	6.033822	.0363231	.3190467	173.6278	2.180429	.9095531

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1483.852	F 2276.560	11.21601	65.93144	32.53269	^ *****
Stddev	3.448	4.870	.02979	.42894	.04348	-----
%RSD	.2323562	.2139403	.2655647	.6505912	.1336558	-----
#1	1481.652	2281.116	11.22109	66.27348	32.49102	^ -----
#2	1487.825	2277.136	11.18401	65.45018	32.52926	^ -----
#3	1482.077	2271.427	11.24293	66.07066	32.57778	^ -----

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.58332	.7569241	F 57.10096	16.81427	^ *****	.6125020
Stddev	.06929	.0010984	.35536	.06169	-----	.0021986
%RSD	.3538461	.1451208	.6223314	.3669086	-----	.3589502
#1	19.60431	.7574896	57.51118	16.77194	^ -----	.6130271
#2	19.63968	.7556581	56.88760	16.88506	^ -----	.6143905
#3	19.50595	.7576246	56.90410	16.78582	^ -----	.6100885

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1574-01 Acquired: 3/18/2025 11:49:38 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	5.614797	4.462341	9.277380	F 25.50735	F 96.80716	.9921943
Stddev	.011717	.007396	.027283	.03138	.17311	.0022394
%RSD	.2086781	.1657351	.2940797	.1230242	.1788222	.2257041
#1	5.603531	4.462112	9.299460	25.53029	96.61401	.9936808
#2	5.613942	4.455063	9.285801	25.47159	96.85912	.9932834
#3	5.626918	4.469849	9.246880	25.52016	96.94833	.9896186

Elem	Sr4077
Units	ppm
Avg	-.833709
Stddev	.019278
%RSD	2.312262
#1	-.837265
#2	-.850960
#3	-.812901

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1103.480	66289.74	15491.73	1680.202	3606.478
Stddev	1.968	109.29	71.65	3.455	7.409
%RSD	.1783171	.1648688	.4624952	.2056270	.2054442
#1	1101.508	66166.58	15444.30	1676.642	3614.386
#2	1103.488	66327.47	15574.15	1683.542	3605.352
#3	1105.444	66375.16	15456.74	1680.422	3599.696

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1569-04 Acquired: 3/18/2025 11:54:26 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.0269174	-.000761	.0995706	-.018694	-.001484	19.82056
Stddev	.0015724	.003898	.0006641	.001989	.000781	.03985
%RSD	5.841701	512.4402	.6669998	10.64212	52.58457	.2010510
#1	.0267072	-.005005	.1003248	-.017464	-.001591	19.84094
#2	.0254607	.002659	.0993141	-.020989	-.002206	19.84611
#3	.0285844	.000064	.0990731	-.017628	-.000656	19.77465

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1583190	.0066378	-.006463	82.38378	.1654561	.0458908
Stddev	.0008396	.0000075	.000081	.15128	.0007795	.0003665
%RSD	.5303449	.1124465	1.251646	.1836231	.4710918	.7985522
#1	.1584831	.0066348	-.006551	82.52019	.1646755	.0456995
#2	.1590644	.0066323	-.006446	82.41006	.1662343	.0463134
#3	.1574094	.0066463	-.006392	82.22108	.1654585	.0456597

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1605398	139.8479	.5331717	9.073230	.0976560	-.000358
Stddev	.0007042	.1487	.0011334	.014374	.0002843	.000472
%RSD	.4386246	.1063124	.2125710	.1584228	.2910722	132.1005
#1	.1612338	139.8850	.5334472	9.088691	.0975850	.000148
#2	.1605596	139.9744	.5341420	9.060272	.0979690	-.000434
#3	.1598259	139.6841	.5319260	9.070726	.0974140	-.000788

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7379653	.2450270	.2965580	3.467446	-.344900	.0126212
Stddev	.0082385	.0014653	.0024062	.013789	.001326	.0001331
%RSD	1.116378	.5980190	.8113795	.3976783	.3844915	1.054678
#1	.7409477	.2437748	.2940209	3.472926	-.343431	.0124991
#2	.7286509	.2466385	.2968457	3.451759	-.345262	.0127631
#3	.7442971	.2446676	.2988074	3.477653	-.346008	.0126013

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1569-04 Acquired: 3/18/2025 11:54:26 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.0048422	1.103633	F 10.50732	1.339358	3.458129	.0537769
Stddev	.0004289	.003249	.05273	.002097	.006225	.0004374
%RSD	8.857034	.2944167	.5018072	.1565624	.1800089	.8133276
#1	.0043532	1.106477	10.48402	1.341515	3.462401	.0539575
#2	.0050186	1.104331	10.56769	1.337327	3.460999	.0532781
#3	.0051547	1.100091	10.47027	1.339230	3.450987	.0540951

Elem	Sr4077
Units	ppm
Avg	.0485025
Stddev	.0004427
%RSD	.9126679
#1	.0489490
#2	.0484948
#3	.0480638

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2949.270	72146.56	15922.44	2153.181	4594.274
Stddev	5.710	67.32	8.10	7.362	6.636
%RSD	.1936105	.0933110	.0508667	.3418949	.1444314
#1	2955.855	72217.00	15921.71	2161.569	4601.198
#2	2946.263	72082.87	15930.88	2150.176	4587.970
#3	2945.691	72139.81	15914.73	2147.797	4593.654

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1581-01 Acquired: 3/18/2025 11:58:35 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.1111075	.0051972	.4087178	-.032147	-.003523	83.35893
Stddev	.0020867	.0036096	.0013373	.000713	.001629	.11867
%RSD	1.878089	69.45187	.3271830	2.217658	46.23165	.1423573
#1	.1119954	.0031561	.4071852	-.032259	-.005168	83.46680
#2	.1126034	.0030706	.4096473	-.031384	-.003492	83.37817
#3	.1087237	.0093649	.4093208	-.032797	-.001910	83.23181

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4064410	.0080618	-.010488	114.0194	.4114765	.0557840
Stddev	.0009701	.0000231	.000490	.1881	.0041786	.0007118
%RSD	.2386925	.2866548	4.673069	.1649699	1.015515	1.276056
#1	.4074455	.0080879	-.011016	114.2365	.4162575	.0551041
#2	.4055093	.0080540	-.010402	113.9167	.4096490	.0557239
#3	.4063682	.0080437	-.010047	113.9050	.4085229	.0565240

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2893353	240.3253	.9506347	60.77425	.0955195	-.000585
Stddev	.0009737	2.1496	.0036699	.23608	.0003601	.000080
%RSD	.3365419	.8944381	.3860512	.3884563	.3769851	13.68879
#1	.2886110	242.7912	.9548669	61.04190	.0951218	-.000602
#2	.2889526	239.3376	.9483327	60.68523	.0958235	-.000498
#3	.2904422	238.8472	.9487044	60.59561	.0956132	-.000655

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.646530	.3427977	.6235675	16.09466	-.528290	.0050551
Stddev	.043451	.0010053	.0026412	.14024	.004244	.0002849
%RSD	.7695119	.2932655	.4235626	.8713718	.8032567	5.635621
#1	5.696698	.3437037	.6265965	16.25659	-.524604	.0048888
#2	5.620883	.3417162	.6217447	16.01175	-.527336	.0048923
#3	5.622008	.3429731	.6223614	16.01565	-.532929	.0053840

Sample Name: Q1581-01 Acquired: 3/18/2025 11:58:35 Type: Unk
Method: NON EPA-6010-200.7(v2817) 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	.0136257	1.855170	F 11.70028	6.170015	2.114762	.1400903
Stddev	.0003731	.001916	.05211	.017720	.006796	.0006830
%RSD	2.738266	.1032803	.4453903	.2871961	.3213807	.4875151
#1	.0134355	1.855826	11.75981	6.169051	2.112243	.1402103
#2	.0140556	1.856673	11.67808	6.152797	2.109585	.1393553
#3	.0133860	1.853013	11.66293	6.188198	2.122458	.1407053

Elem	Sr4077
Units	ppm
Avg	-.036255
Stddev	.001398
%RSD	3.856488
#1	-.037854
#2	-.035652
#3	-.035260

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2777.570	68377.18	15592.24	2026.652	4292.451
Stddev	8.494	534.71	29.54	9.839	8.198
%RSD	.3058030	.7819988	.1894732	.4854800	.1909763
#1	2780.197	67764.72	15570.48	2015.369	4295.508
#2	2784.440	68751.10	15625.88	2033.448	4298.681
#3	2768.073	68615.72	15580.38	2031.138	4283.164

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCV02 Acquired: 3/18/2025 12:08:39 Type: Unk
Method: NON EPA-6010-200.7(v2817) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.892957	5.044172	4.881643	4.859586	4.936008	9.697651
Stddev	.008664	.016512	.002972	.001767	.008149	.013826
%RSD	.1770651	.3273461	.0608860	.0363618	.1650920	.1425727
#1	4.888545	5.063043	4.878721	4.861617	4.932337	9.686440
#2	4.887387	5.032381	4.884663	4.858738	4.930340	9.693413
#3	4.902938	5.037092	4.881544	4.858403	4.945346	9.713100

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.166794	.2366327	2.411119	23.86149	1.017799	2.399324
Stddev	.108345	.0003244	.001370	.12215	.001285	.003175
%RSD	1.181933	.1370706	.0568248	.5119058	.1262181	.1323137
#1	9.276832	.2364227	2.412089	23.75752	1.018581	2.398303
#2	9.060224	.2364691	2.409552	23.83094	1.016316	2.396785
#3	9.163327	.2370063	2.411717	23.99602	1.018499	2.402883

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.213896	4.691087	2.263390	23.64503	2.389880	1.235905
Stddev	.001953	.029906	.010148	.07141	.003959	.002115
%RSD	.1608710	.6375012	.4483338	.3020079	.1656550	.1711132
#1	1.212571	4.669905	2.256468	23.60954	2.390008	1.238091
#2	1.212980	4.678059	2.258665	23.59832	2.385858	1.235752
#3	1.216139	4.725297	2.275039	23.72723	2.393773	1.233870

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.46140	2.378017	2.285000	23.37487	4.708936	4.909299
Stddev	.05919	.007351	.005227	.05378	.001901	.008672
%RSD	.2419859	.3091318	.2287595	.2300599	.0403694	.1766433
#1	24.44837	2.369900	2.291031	23.31353	4.707809	4.899464
#2	24.40980	2.384226	2.282208	23.39717	4.707869	4.912586
#3	24.52602	2.379924	2.281762	23.41391	4.711131	4.915846

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCV02 Acquired: 3/18/2025 12:08:39 Type: Unk
Method: NON EPA-6010-200.7(v2817) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.870305	4.636961	5.071544	4.950870	4.735012	F 4.491133
Stddev	.002643	.016965	.024058	.015603	.009599	.015555
%RSD	.0542661	.3658636	.4743674	.3151502	.2027155	.3463460
#1	4.871009	4.624352	5.062697	4.936328	4.725406	4.478304
#2	4.867382	4.630282	5.053163	4.948932	4.735029	4.486662
#3	4.872525	4.656249	5.098773	4.967352	4.744603	4.508434

Elem	Sr4077
Units	ppm
Avg	4.605007
Stddev	.023729
%RSD	.5152838
#1	4.616990
#2	4.577676
#3	4.620355

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2732.648	67852.02	13898.47	2026.952	4555.615
Stddev	5.064	55.33	31.43	4.659	5.148
%RSD	.1853107	.0815481	.2261149	.2298440	.1130138
#1	2738.239	67915.86	13930.00	2028.494	4557.412
#2	2731.336	67822.37	13898.28	2021.718	4559.624
#3	2728.370	67817.83	13867.14	2030.644	4549.809

Sample Name: CCB02 Acquired: 3/18/2025 12:17:51 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.0000059	-.002436	.0002255	-.001641	.0023658	.0027602	-.005030
Stddev	.0022308	.001232	.0008697	.002117	.0021548	.0044264	.002176
%RSD	37938.41	50.57123	385.7048	129.0127	91.07937	160.3646	43.26340
#1	-.002543	-.003859	-.000778	-.001298	-.000038	.0021851	-.002545
#2	.001601	-.001739	.000698	-.003909	.004124	-.001351	-.005948
#3	.000959	-.001710	.000757	.000283	.003012	.007446	-.006597

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001082	.0000421	-.003347	.0002099	-.000022	.0004867	.0006196
Stddev	.0000241	.0000331	.004383	.0002697	.000119	.0001733	.0022563
%RSD	22.30490	78.72575	130.9750	128.4841	527.0979	35.60706	364.1656
#1	.0001358	.0000711	-.000386	.0003314	.000039	.0006861	.0030985
#2	.0000980	.0000060	-.001272	-.000099	-.000159	.0004021	.0000746
#3	.0000908	.0000491	-.008382	.000397	.000052	.0003720	-.001314

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000808	.0004187	.0002448	.0003803	-.002520	-.000176	.0003416
Stddev	.000147	.0032103	.0000445	.0001245	.010338	.000212	.0001799
%RSD	18.20816	766.7057	18.19177	32.74843	410.2944	120.6569	52.64800
#1	-.000801	.0037044	.0002961	.0004572	.009417	-.000388	.0005058
#2	-.000959	.0002622	.0002226	.0004472	-.008568	-.000177	.0003696
#3	-.000665	-.002710	.0002158	.0002366	-.008408	.000037	.0001494

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.026548	.0068452	.0002561	.0001172	.0005240	.0028008	-.006220
Stddev	.007273	.0004460	.0001356	.0006599	.0001396	.0076523	.000595
%RSD	27.39662	6.515972	52.95883	563.2244	26.64041	273.2181	9.562730
#1	-.034031	.0067116	.0002294	-.000644	.0006821	-.000230	-.005549
#2	-.026107	.0073428	.0001358	.000524	.0004720	.011504	-.006683
#3	-.019505	.0064813	.0004031	.000472	.0004178	-.002872	-.006429

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCB02 Acquired: 3/18/2025 12:17:51 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.0002210	-.001946	.0006444
Stddev	.0015201	.000308	.0010499
%RSD	687.8460	15.80622	162.9373
#1	.0001209	-.001609	.0018567
#2	-.001247	-.002017	.0000500
#3	.001789	-.002212	.0000264

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2813.302	68110.03	14676.85	2036.846	4976.192
Stddev	3.398	174.02	50.35	13.783	4.055
%RSD	.1207694	.2555041	.3430691	.6767056	.0814921
#1	2809.393	68040.07	14703.49	2028.799	4979.718
#2	2814.975	68308.14	14618.77	2052.761	4971.761
#3	2815.540	67981.86	14708.28	2028.977	4977.099

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1581-01DUP Acquired: 3/18/2025 12:22:10 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.1111388	.0045084	.4117665	-.036684	-.006371	83.87396
Stddev	.0005897	.0043384	.0014160	.000922	.002893	.15863
%RSD	.5305594	96.22894	.3438830	2.512730	45.41335	.1891317
#1	.1106916	.0092770	.4103216	-.036113	-.003077	83.79917
#2	.1109179	.0034536	.4118261	-.037747	-.007537	84.05616
#3	.1118071	.0007947	.4131517	-.036191	-.008500	83.76655

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4299783	.0079742	-.010027	114.2452	.4138610	.0560561
Stddev	.0003503	.0000768	.000240	.1472	.0014219	.0000549
%RSD	.0814659	.9632159	2.393143	.1288061	.3435677	.0979427
#1	.4302944	.0079101	-.010263	114.4134	.4153811	.0560785
#2	.4300388	.0080593	-.010035	114.1823	.4125635	.0560964
#3	.4296017	.0079533	-.009783	114.1400	.4136385	.0559936

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2859321	240.0403	1.019506	60.54314	.0965547	-.000654
Stddev	.0013761	1.0843	.001114	.10364	.0001353	.000717
%RSD	.4812559	.4517150	.1092524	.1711899	.1401710	109.7189
#1	.2845888	241.0726	1.019983	60.63012	.0964269	-.000048
#2	.2858686	238.9106	1.020301	60.57084	.0966965	-.001446
#3	.2873388	240.1376	1.018233	60.42846	.0965408	-.000467

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.640508	.3436136	.6412473	16.08051	-.530918	.0054775
Stddev	.012539	.0021369	.0024494	.03207	.002033	.0003459
%RSD	.2223045	.6218972	.3819786	.1994562	.3828328	6.315751
#1	5.643714	.3411627	.6431693	16.11713	-.528905	.0053838
#2	5.626676	.3445910	.6420832	16.05739	-.532969	.0058607
#3	5.651132	.3450870	.6384893	16.06702	-.530880	.0051881

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1581-01DUP Acquired: 3/18/2025 12:22:10 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.0143653	1.869743	F 12.51494	6.303194	2.149620	.1396616
Stddev	.0008633	.002492	.01202	.026972	.018496	.0006096
%RSD	6.009906	.1332969	.0960270	.4279109	.8604330	.4364612
#1	.0135568	1.872617	12.52354	6.285549	2.136025	.1394626
#2	.0152746	1.868433	12.50121	6.289790	2.142153	.1391764
#3	.0142643	1.868179	12.52007	6.334242	2.170682	.1403458

Elem	Sr4077
Units	ppm
Avg	-.036380
Stddev	.001049
%RSD	2.883511
#1	-.037437
#2	-.035339
#3	-.036365

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2754.035	68483.64	15600.51	2023.027	4241.463
Stddev	5.042	290.95	38.07	11.865	13.386
%RSD	.1830609	.4248395	.2440129	.5864776	.3155896
#1	2759.088	68148.22	15564.08	2011.109	4255.932
#2	2754.014	68667.90	15597.40	2023.135	4238.936
#3	2749.005	68634.79	15640.03	2034.837	4229.521

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1581-01LX5 Acquired: 3/18/2025 12:26:16 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.0231542	-.000146	.0824107	-.010178	-.000012	17.54008	.0877365
Stddev	.0009415	.001105	.0009753	.002982	.000963	.01515	.0005396
%RSD	4.066090	754.8485	1.183421	29.29967	8340.803	.0863471	.6150633
#1	.0225456	.000938	.0834790	-.006736	-.000538	17.55702	.0882971
#2	.0226783	-.000107	.0815680	-.011801	.001100	17.53538	.0872207
#3	.0242386	-.001270	.0821849	-.011996	-.000596	17.52785	.0876916

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018914	-.002912	24.53715	.0880925	.0111634	.0634951	50.14101
Stddev	.0000352	.000077	.02758	.0004741	.0000851	.0000759	.04903
%RSD	1.863136	2.643716	.1123921	.5382344	.7627102	.1194668	.0977744
#1	.0019308	-.002863	24.53627	.0884008	.0112616	.0635405	50.18656
#2	.0018808	-.003001	24.56517	.0875465	.0111161	.0635373	50.14735
#3	.0018627	-.002872	24.51003	.0883301	.0111123	.0634075	50.08913

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2264179	13.05859	.0201333	-.000095	1.098480	.0725519	.1310267
Stddev	.0011352	.02162	.0003345	.000155	.012092	.0016272	.0003015
%RSD	.5013934	.1655599	1.661516	163.5132	1.100768	2.242869	.2300991
#1	.2268394	13.04696	.0204462	-.000238	1.103332	.0720045	.1312612
#2	.2251322	13.08353	.0197807	.000069	1.084715	.0712689	.1311322
#3	.2272822	13.04528	.0201729	-.000115	1.107391	.0743823	.1306866

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.066347	-.115511	.0009397	.0008327	.3990108	2.439661	1.217243
Stddev	.021649	.000524	.0001694	.0004919	.0007297	.010114	.002870
%RSD	.7060212	.4539245	18.02676	59.07877	.1828771	.4145782	.2357810
#1	3.064013	-.115214	.0010725	.0003447	.3982996	2.445725	1.214905
#2	3.089068	-.115203	.0007489	.0008249	.3997577	2.445274	1.220446
#3	3.045959	-.116116	.0009975	.0013284	.3989751	2.427985	1.216378

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1581-01LX5 Acquired: 3/18/2025 12:26:16 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.4039686	.0269367	-.006814
Stddev	.0020406	.0006593	.000182
%RSD	.5051441	2.447717	2.670981
#1	.4062465	.0263309	-.006956
#2	.4033519	.0268402	-.006608
#3	.4023076	.0276389	-.006877

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2813.703	68352.41	14847.04	2067.905	4729.962
Stddev	6.161	165.12	17.60	3.100	4.755
%RSD	.2189616	.2415667	.1185495	.1499312	.1005211
#1	2808.663	68169.28	14826.71	2070.909	4731.069
#2	2811.874	68398.06	14857.19	2064.717	4724.752
#3	2820.571	68489.91	14857.21	2068.089	4734.066

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1581-01MS Acquired: 3/18/2025 12:30:30 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.7926745	1.740393	1.305826	1.562041	-.007395	83.54935
Stddev	.0038402	.008185	.001659	.003026	.002169	.04843
%RSD	.4844594	.4702876	.1270712	.1937312	29.33642	.0579683
#1	.7959510	1.734131	1.303918	1.563800	-.009554	83.56572
#2	.7884487	1.749654	1.306937	1.558547	-.005215	83.58747
#3	.7936239	1.737393	1.306622	1.563777	-.007416	83.49485

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6348866	.1710460	.1683957	113.5224	.8665192	.2375553
Stddev	.0003154	.0003220	.0004194	.3214	.0005755	.0002700
%RSD	.0496790	.1882604	.2490347	.2831266	.0664156	.1136390
#1	.6348309	.1708078	.1687854	113.2931	.8663234	.2377958
#2	.6352262	.1709177	.1679519	113.8898	.8660671	.2372633
#3	.6346028	.1714123	.1684496	113.3844	.8671670	.2376067

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4926961	268.9787	1.217081	64.30403	.5451856	.0670145
Stddev	.0013433	.5667	.002178	.16656	.0012477	.0000927
%RSD	.2726383	.2106853	.1789587	.2590270	.2288630	.1383604
#1	.4942225	269.6077	1.215409	64.13352	.5466252	.0669210
#2	.4921712	268.8207	1.219544	64.31223	.5444156	.0671065
#3	.4916945	268.5079	1.216289	64.46635	.5445161	.0670161

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.18414	.6206398	1.023521	25.96417	-.388717	.0054926
Stddev	.04084	.0025403	.001580	.04721	.002582	.0004788
%RSD	.4010556	.4092998	.1543964	.1818331	.6641426	8.717497
#1	10.23130	.6181804	1.022741	26.01418	-.386353	.0055685
#2	10.16081	.6204850	1.022483	25.95797	-.391472	.0059289
#3	10.16030	.6232539	1.025340	25.92037	-.388326	.0049804

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1581-01MS Acquired: 3/18/2025 12:30:30 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.0145912	1.717338	F 11.54957	F 12.33793	2.100469	.3217598
Stddev	.0013106	.002912	.04236	.03664	.004861	.0012128
%RSD	8.981745	.1695657	.3668001	.2969822	.2314402	.3769116
#1	.0135767	1.715466	11.59183	12.32467	2.097454	.3222628
#2	.0160709	1.720693	11.50710	12.30977	2.106077	.3226402
#3	.0141262	1.715854	11.54977	12.37936	2.097876	.3203765

Elem	Sr4077
Units	ppm
Avg	.1002242
Stddev	.0010293
%RSD	1.027042
#1	.0993861
#2	.1013731
#3	.0999132

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2757.021	68573.73	15269.83	2054.157	4254.274
Stddev	8.516	159.32	29.95	8.036	9.152
%RSD	.3088823	.2323381	.1961103	.3912042	.2151232
#1	2747.594	68454.99	15303.40	2047.249	4245.043
#2	2764.158	68754.79	15260.23	2062.976	4263.345
#3	2759.311	68511.41	15245.86	2052.245	4254.433

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1581-01MSD Acquired: 3/18/2025 12:34:32 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.7939316	1.737575	1.303981	1.569005	-.007512	83.50859
Stddev	.0023186	.002323	.005130	.002322	.001274	.79506
%RSD	.2920334	.1336956	.3934246	.1479744	16.96309	.9520745
#1	.7913654	1.737197	1.302596	1.566378	-.008620	82.61052
#2	.7958755	1.740064	1.299685	1.569856	-.007795	84.12265
#3	.7945538	1.735464	1.309662	1.570782	-.006119	83.79261

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6313990	.1677980	.1698878	113.3901	.8571033	.2373577
Stddev	.0067263	.0007323	.0005235	.8910	.0025433	.0006492
%RSD	1.065297	.4364371	.3081347	.7857716	.2967308	.2735256
#1	.6252079	.1669535	.1700232	112.4387	.8594288	.2367561
#2	.6385560	.1681822	.1693100	114.2048	.8543874	.2372711
#3	.6304331	.1682584	.1703303	113.5270	.8574937	.2380459

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4901369	261.1232	1.203723	63.82194	.5434407	.0656993
Stddev	.0006918	1.2994	.013536	.45002	.0013869	.0010969
%RSD	.1411411	.4976377	1.124522	.7051236	.2552026	1.669610
#1	.4893693	261.4937	1.191821	63.31147	.5421428	.0654393
#2	.4903291	262.1971	1.218448	64.16138	.5432772	.0669029
#3	.4907122	259.6787	1.200901	63.99295	.5449021	.0647558

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.929908	.6201416	1.003353	25.29572	-.413218	.0054779
Stddev	.054297	.0052689	.002549	.16542	.005748	.0002724
%RSD	.5468021	.8496357	.2540526	.6539599	1.390985	4.973061
#1	9.911937	.6152265	1.004698	25.20600	-.406739	.0056739
#2	9.990912	.6257044	1.000413	25.48662	-.415209	.0055929
#3	9.886874	.6194938	1.004948	25.19453	-.417705	.0051668

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1581-01MSD Acquired: 3/18/2025 12:34:32 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.0134485	1.713801	F 11.22872	F 12.30012	2.100178	.3189671
Stddev	.0014317	.017009	.00872	.02665	.011227	.0035913
%RSD	10.64574	.9924520	.0776405	.2166988	.5345588	1.125904
#1	.0118599	1.698148	11.22482	12.26976	2.093709	.3162797
#2	.0138464	1.731900	11.23870	12.31965	2.113142	.3230459
#3	.0146391	1.711354	11.22262	12.31095	2.093684	.3175757

Elem	Sr4077
Units	ppm
Avg	.1069045
Stddev	.0035653
%RSD	3.335000
#1	.1030323
#2	.1100513
#3	.1076298

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2758.465	70435.76	15323.15	2059.613	4254.346
Stddev	3.898	440.23	20.50	8.365	2.778
%RSD	.1413100	.6250148	.1337793	.4061574	.0652891
#1	2761.536	69930.80	15345.87	2051.685	4256.903
#2	2759.779	70738.88	15317.56	2068.356	4254.745
#3	2754.080	70637.61	15306.04	2058.798	4251.391

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1581-01A Acquired: 3/18/2025 12:38:32 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.8266282	1.856507	1.310689	1.719267	.7249818	87.01158
Stddev	.0042535	.021789	.002779	.002188	.0053047	.03231
%RSD	.5145646	1.173629	.2120113	.1272424	.7317043	.0371329
#1	.8219118	1.870903	1.308900	1.718885	.7238462	87.03473
#2	.8277997	1.831440	1.309276	1.717296	.7203368	87.02534
#3	.8301733	1.867178	1.313890	1.721621	.7307623	86.97467

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6021633	.1733790	.1740499	114.5909	.7744409	.2416890
Stddev	.0012505	.0003402	.0004704	.2447	.0019159	.0008319
%RSD	.2076617	.1962016	.2702459	.2135101	.2473950	.3441852
#1	.6034083	.1736220	.1737012	114.8452	.7766164	.2417233
#2	.6021740	.1729902	.1738637	114.3571	.7730052	.2408405
#3	.6009075	.1735248	.1745849	114.5704	.7737010	.2425031

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5491361	238.4705	1.200237	63.00026	.5565933	.0687408
Stddev	.0011926	1.1460	.002420	.18308	.0021359	.0001908
%RSD	.2171739	.4805630	.2016036	.2906057	.3837489	.2775509
#1	.5482773	239.7814	1.203030	63.13672	.5562808	.0685206
#2	.5486333	237.9718	1.198925	62.79220	.5546309	.0688574
#3	.5504978	237.6584	1.198757	63.07187	.5588683	.0688444

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.381828	.5956439	.8171755	25.10667	-.314182	.3634003
Stddev	.036073	.0017399	.0022382	.14543	.006263	.0002167
%RSD	.4303714	.2921067	.2738924	.5792486	1.993542	.0596322
#1	8.421417	.5976530	.8195479	25.27211	-.307761	.3633125
#2	8.373252	.5946402	.8151014	25.04894	-.314511	.3636471
#3	8.350817	.5946386	.8168773	24.99898	-.320274	.3632413

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1581-01A Acquired: 3/18/2025 12:38:32 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.6726115	2.117128	F 16.72689	F 12.13704	2.135226	.3095770
Stddev	.0027539	.003381	.09243	.05371	.011666	.0012036
%RSD	.4094350	.1597184	.5525898	.4425639	.5463685	.3887922
#1	.6731691	2.116735	16.72668	12.14194	2.132357	.3109602
#2	.6696214	2.113960	16.81943	12.08105	2.125263	.3090027
#3	.6750439	2.120689	16.63457	12.18814	2.148060	.3087681

Elem	Sr4077
Units	ppm
Avg	.1273352
Stddev	.0003589
%RSD	.2818346
#1	.1276093
#2	.1269290
#3	.1274673

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2716.943	67731.21	14949.14	2009.461	4178.171
Stddev	5.012	179.78	29.19	2.464	1.347
%RSD	.1844881	.2654332	.1952859	.1226051	.0322461
#1	2717.325	67542.06	14947.85	2006.796	4179.153
#2	2711.750	67899.86	14978.96	2009.934	4176.635
#3	2721.753	67751.71	14920.62	2011.654	4178.726

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1585-01 Acquired: 3/18/2025 12:42:31 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.0457379	-.024792	.2581221	-.045393	-.006183	112.5563
Stddev	.0033179	.000732	.0016120	.002371	.001445	.1466
%RSD	7.254166	2.950668	.6245059	5.222749	23.37355	.1302197
#1	.0426738	-.025466	.2563310	-.043233	-.005449	112.4549
#2	.0492617	-.024014	.2585792	-.047930	-.005252	112.4897
#3	.0452782	-.024895	.2594563	-.045017	-.007848	112.7244

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5613694	.0058218	.0020922	273.4474	.3335444	.1876950
Stddev	.0022671	.0000968	.0003700	.7305	.0013807	.0004850
%RSD	.4038454	1.662326	17.68309	.2671386	.4139490	.2583826
#1	.5588998	.0059038	.0025164	273.6790	.3319689	.1882261
#2	.5633561	.0058465	.0018365	274.0341	.3341208	.1872756
#3	.5618522	.0057150	.0019237	272.6292	.3345436	.1875835

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3532183	269.6016	3.165444	89.96443	.3367985	-.002854
Stddev	.0018920	2.4989	.006002	.09157	.0003317	.000214
%RSD	.5356506	.9269043	.1896059	.1017867	.0984767	7.498882
#1	.3539512	266.7850	3.158790	89.93167	.3365254	-.003085
#2	.3510695	271.5528	3.170448	90.06788	.3367024	-.002662
#3	.3546342	270.4670	3.167093	89.89375	.3371675	-.002816

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.418670	.3975852	.8315645	28.04453	-.602362	.0107895
Stddev	.061094	.0011816	.0047843	.24842	.005059	.0001763
%RSD	.8235206	.2971875	.5753412	.8857971	.8399427	1.634369
#1	7.348563	.3962504	.8271323	27.75768	-.607059	.0107219
#2	7.460530	.3980077	.8366365	28.18750	-.597005	.0106569
#3	7.446916	.3984974	.8309246	28.18841	-.603021	.0109896

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1585-01 Acquired: 3/18/2025 12:42:31 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.0073379	8.777222	3.700449	F 13.81122	F 21.31956	.2795210
Stddev	.0004561	.015354	.026691	.03539	.04944	.0022970
%RSD	6.215681	.1749331	.7212846	.2562180	.2319186	.8217584
#1	.0069144	8.760115	3.676388	13.82680	21.31088	.2771839
#2	.0072786	8.781742	3.729159	13.77072	21.27503	.2796033
#3	.0078208	8.789809	3.695801	13.83614	21.37277	.2817756

Elem	Sr4077
Units	ppm
Avg	.2458624
Stddev	.0014561
%RSD	.5922514
#1	.2472352
#2	.2443352
#3	.2460169

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3118.981	77954.20	17875.42	2303.042	3935.347
Stddev	7.613	394.16	28.88	15.902	6.402
%RSD	.2440952	.5056335	.1615471	.6904692	.1626916
#1	3114.595	78396.56	17842.81	2320.917	3933.077
#2	3127.772	77640.26	17885.73	2290.466	3942.575
#3	3114.577	77825.78	17897.74	2297.743	3930.389

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1585-01DUP Acquired: 3/18/2025 12:46:43 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.0443595	-.021641	.2595915	-.045532	-.004783	111.2338
Stddev	.0035389	.004474	.0021528	.002850	.004482	.1648
%RSD	7.977881	20.67347	.8292833	6.258549	93.70421	.1481533
#1	.0404052	-.023883	.2572357	-.047627	-.009767	111.4189
#2	.0472292	-.016490	.2600825	-.042287	-.003496	111.1797
#3	.0454441	-.024551	.2614564	-.046682	-.001085	111.1029

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5751451	.0056728	.0014599	268.4119	.3324840	.1875867
Stddev	.0013750	.0000179	.0003455	1.2297	.0002145	.0007053
%RSD	.2390648	.3151947	23.66456	.4581537	.0645016	.3759886
#1	.5766231	.0056933	.0011555	269.7158	.3323765	.1876617
#2	.5739039	.0056649	.0013888	267.2730	.3327309	.1868469
#3	.5749085	.0056603	.0018354	268.2471	.3323445	.1882515

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3565530	269.7367	3.168056	88.93177	.3367767	-.003285
Stddev	.0011952	.7995	.013320	.27605	.0013219	.000433
%RSD	.3352123	.2964138	.4204390	.3104079	.3925021	13.19042
#1	.3559641	270.4240	3.182986	89.16306	.3361163	-.002898
#2	.3557665	268.8592	3.163792	89.00608	.3359152	-.003753
#3	.3579284	269.9270	3.157391	88.62617	.3382986	-.003202

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.472263	.3933562	.8239009	28.33959	-.578087	.0110931
Stddev	.020184	.0016356	.0032034	.10384	.003695	.0002253
%RSD	.2701197	.4158117	.3888124	.3664235	.6392008	2.031399
#1	7.462414	.3947289	.8275779	28.32676	-.579012	.0113289
#2	7.458895	.3937933	.8224109	28.24276	-.581233	.0110705
#3	7.495481	.3915464	.8217138	28.44926	-.574018	.0108799

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1585-01DUP Acquired: 3/18/2025 12:46:43 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.0091625	8.731146	3.719586	F 13.84348	F 21.24714	.2785073
Stddev	.0009981	.026960	.028173	.05149	.08300	.0004386
%RSD	10.89300	.3087841	.7574315	.3719607	.3906588	.1574782
#1	.0101815	8.761655	3.703708	13.83291	21.18922	.2789878
#2	.0081867	8.710530	3.752115	13.79810	21.20997	.2781285
#3	.0091195	8.721253	3.702936	13.89944	21.34224	.2784058

Elem	Sr4077
Units	ppm
Avg	.2475501
Stddev	.0009011
%RSD	.3639852
#1	.2485421
#2	.2467823
#3	.2473260

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3117.944	78402.16	18238.33	2333.452	3952.408
Stddev	8.033	170.44	100.65	14.831	13.123
%RSD	.2576401	.2173902	.5518705	.6355752	.3320380
#1	3124.084	78230.44	18150.97	2316.376	3955.650
#2	3120.896	78404.75	18215.61	2340.856	3963.606
#3	3108.853	78571.29	18348.39	2343.122	3937.967

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1585-01LX5 Acquired: 3/18/2025 12:50:55 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.0090460	-.006124	.0532479	-.009172	-.002245	26.70438	.1328577
Stddev	.0022671	.000923	.0008645	.001590	.000793	.08030	.0014583
%RSD	25.06132	15.06578	1.623459	17.33964	35.31093	.3007046	1.097631
#1	.0107057	-.005270	.0525287	-.010287	-.001873	26.65733	.1345416
#2	.0099694	-.005999	.0530081	-.009879	-.001706	26.79710	.1320049
#3	.0064630	-.007103	.0542070	-.007351	-.003155	26.65870	.1320267

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015455	-.002921	67.38590	.0831122	.0371491	.0906043	65.42781
Stddev	.0000409	.000192	.15432	.0002644	.0001017	.0010152	.38602
%RSD	2.646372	6.582652	.2290101	.3180628	.2738092	1.120512	.5899921
#1	.0015887	-.002959	67.37554	.0830186	.0371831	.0898438	65.76216
#2	.0015075	-.003091	67.54514	.0829075	.0370347	.0902119	65.51592
#3	.0015402	-.002712	67.23702	.0834107	.0372295	.0917572	65.00536

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8167395	22.23705	.0684952	-.000504	1.627565	.0990703	.1956927
Stddev	.0051543	.02838	.0004817	.000173	.013214	.0007194	.0008159
%RSD	.6310825	.1276412	.7032975	34.34887	.8118829	.7261802	.4169244
#1	.8223331	22.24996	.0679641	-.000417	1.632588	.0998700	.1949777
#2	.8157033	22.25669	.0686176	-.000704	1.637531	.0984756	.1965814
#3	.8121820	22.20451	.0689039	-.000393	1.612576	.0988653	.1955190

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.095168	-.149510	.0022936	-.001162	2.148901	.8119618	2.687937
Stddev	.049071	.001192	.0002389	.000255	.006746	.0118882	.003580
%RSD	.8050847	.7970552	10.41631	21.94995	.3139297	1.464132	.1331739
#1	6.147030	-.150195	.0021875	-.001094	2.152100	.8218812	2.684213
#2	6.089005	-.148134	.0025672	-.000947	2.153452	.8152200	2.691352
#3	6.049470	-.150201	.0021262	-.001444	2.141151	.7987842	2.688248

Sample Name: Q1585-01LX5 Acquired: 3/18/2025 12:50:55 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	3.985844	.0633715	.0585301
Stddev	.014030	.0002824	.0003017
%RSD	.3520051	.4455562	.5154926
#1	3.977481	.0630516	.0582208
#2	4.002042	.0635860	.0588236
#3	3.978008	.0634768	.0585459

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2844.319	69706.18	15226.09	2097.008	4531.213
Stddev	4.947	70.92	41.57	7.720	.357
%RSD	.1739334	.1017481	.2730120	.3681557	.0078697
#1	2846.003	69686.94	15271.76	2095.364	4531.596
#2	2848.205	69646.85	15216.04	2090.242	4530.891
#3	2838.750	69784.74	15190.46	2105.417	4531.151

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1585-01MS Acquired: 3/18/2025 12:55:05 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.6579589	1.799919	1.104721	1.403996	.2534437	117.5772
Stddev	.0025437	.006548	.002660	.002108	.0018798	.1657
%RSD	.3865976	.3638047	.2407803	.1501605	.7417086	.1409004
#1	.6593874	1.804640	1.106418	1.402651	.2548685	117.5912
#2	.6594671	1.802673	1.101656	1.402911	.2513132	117.4051
#3	.6550221	1.792443	1.106090	1.406426	.2541495	117.7355

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7368221	.1452003	.1839826	286.4236	.6475517	.3704491
Stddev	.0014865	.0005834	.0003956	1.0693	.0010446	.0007894
%RSD	.2017473	.4017963	.2150146	.3733301	.1613165	.2131003
#1	.7380425	.1454863	.1842766	286.8184	.6482519	.3705243
#2	.7351666	.1445290	.1835328	285.2130	.6463511	.3696248
#3	.7372573	.1455855	.1841383	287.2394	.6480523	.3711983

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6390791	263.0700	3.444085	92.44126	.7970438	.0567360
Stddev	.0017214	.3313	.005332	.05213	.0014343	.0000858
%RSD	.2693556	.1259300	.1548181	.0563933	.1799460	.1512196
#1	.6400625	262.7848	3.445314	92.43836	.7984631	.0566435
#2	.6370914	262.9917	3.438246	92.39064	.7955950	.0568130
#3	.6400833	263.4333	3.448695	92.49478	.7970734	.0567516

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.938623	.5831503	.9287478	34.68954	-.386516	.3060632
Stddev	.027659	.0028415	.0036793	.03650	.005100	.0007692
%RSD	.2782985	.4872681	.3961598	.1052268	1.319564	.2513229
#1	9.914746	.5824164	.9323749	34.72213	-.385549	.3062112
#2	9.968931	.5807478	.9250183	34.69640	-.381969	.3052307
#3	9.932192	.5862868	.9288501	34.65010	-.392031	.3067475

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1585-01MS Acquired: 3/18/2025 12:55:05 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.6222355	8.824838	4.562748	F 18.88272	F 21.76678	.4277417
Stddev	.0017151	.017998	.033901	.02673	.03825	.0003138
%RSD	.2756324	.2039458	.7429874	.1415530	.1757356	.0733609
#1	.6204359	8.831136	4.527115	18.86124	21.81094	.4277571
#2	.6238512	8.804538	4.594598	18.87427	21.74396	.4280475
#3	.6224194	8.838841	4.566532	18.91265	21.74543	.4274205

Elem	Sr4077
Units	ppm
Avg	.4321506
Stddev	.0013783
%RSD	.3189388
#1	.4331093
#2	.4305711
#3	.4327714

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3124.137	79175.39	17481.06	2324.083	3989.063
Stddev	8.517	118.88	56.98	13.012	5.892
%RSD	.2726071	.1501434	.3259306	.5598852	.1476995
#1	3119.020	79280.89	17464.88	2311.968	3984.458
#2	3133.968	79198.70	17544.37	2322.444	3995.702
#3	3119.422	79046.59	17433.91	2337.838	3987.028

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1585-01MSD Acquired: 3/18/2025 12:59:12 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.6688682	1.796676	1.111382	1.422940	.2552926	117.8916
Stddev	.0046355	.016000	.003480	.012905	.0049289	.0901
%RSD	.6930429	.8905369	.3130873	.9069255	1.930693	.0763971
#1	.6640691	1.778533	1.112135	1.408737	.2496307	117.9045
#2	.6733207	1.802726	1.107587	1.426138	.2576215	117.9745
#3	.6692147	1.808768	1.114423	1.433946	.2586254	117.7958

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7305562	.1440374	.1848039	283.0927	.6530221	.3728602
Stddev	.0015013	.0002951	.0007127	.9031	.0013363	.0002336
%RSD	.2054938	.2048691	.3856642	.3190088	.2046330	.0626562
#1	.7322217	.1437433	.1840500	282.3142	.6523679	.3726325
#2	.7301398	.1440354	.1848951	282.8810	.6545594	.3728487
#3	.7293072	.1443335	.1854667	284.0828	.6521389	.3730994

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6430031	267.2461	3.404768	92.20127	.8019165	.0579368
Stddev	.0031754	.7640	.011488	.23045	.0024875	.0005250
%RSD	.4938346	.2858931	.3373968	.2499404	.3102005	.9062039
#1	.6396560	268.0386	3.417931	92.32446	.7993765	.0581213
#2	.6433804	267.1854	3.399608	92.34393	.8020251	.0573444
#3	.6459730	266.5142	3.396766	91.93541	.8043480	.0583447

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.20589	.5806690	.9431134	35.40570	-.377113	.3071629
Stddev	.00850	.0018469	.0007987	.09652	.006079	.0015330
%RSD	.0833220	.3180674	.0846869	.2726070	1.611867	.4990809
#1	10.20680	.5825473	.9440348	35.45826	-.371711	.3054484
#2	10.21390	.5806047	.9426865	35.46453	-.375932	.3076391
#3	10.19697	.5788551	.9426189	35.29431	-.383695	.3084014

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1585-01MSD Acquired: 3/18/2025 12:59:12 Type: Unk
Method: NON EPA-6010-200.7(v2818) 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	.6273296	8.806073	4.734996	F 18.93659	F 21.95294	.4274274
Stddev	.0008082	.009690	.007076	.03655	.04776	.0007768
%RSD	.1288354	.1100376	.1494490	.1930147	.2175396	.1817318
#1	.6269487	8.815306	4.730563	18.89963	21.91048	.4282874
#2	.6282579	8.806931	4.743157	18.93743	21.94370	.4267767
#3	.6267822	8.795983	4.731267	18.97272	22.00464	.4272181

Elem	Sr4077
Units	ppm
Avg	.4256166
Stddev	.0002386
%RSD	.0560685
#1	.4258407
#2	.4256434
#3	.4253656

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3101.901	78012.90	17658.67	2285.046	3958.826
Stddev	8.070	199.94	35.10	9.983	8.880
%RSD	.2601763	.2562893	.1987958	.4368942	.2242971
#1	3109.693	78161.05	17697.53	2282.042	3963.339
#2	3102.432	77785.48	17629.24	2276.910	3964.542
#3	3093.578	78092.16	17649.26	2296.187	3948.596

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCV03 Acquired: 3/18/2025 13:07:49 Type: Unk
Method: NON EPA-6010-200.7(v2818) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.922436	5.041077	4.854748	4.911751	4.967199	9.737539
Stddev	.022133	.031615	.012872	.012391	.013698	.024108
%RSD	.4496450	.6271557	.2651443	.2522714	.2757623	.2475733
#1	4.915690	5.069646	4.867081	4.915652	4.960458	9.744158
#2	4.947157	5.046475	4.855766	4.921723	4.982961	9.710813
#3	4.904460	5.007110	4.841397	4.897879	4.958179	9.757645

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.804503	.2392315	2.403335	23.69199	1.023325	2.389546
Stddev	.131989	.0010559	.006470	.03031	.002405	.005892
%RSD	1.346210	.4413927	.2691890	.1279459	.2349812	.2465781
#1	9.951895	.2400061	2.406254	23.72617	1.025596	2.392144
#2	9.697225	.2396597	2.407831	23.68145	1.023575	2.393693
#3	9.764388	.2380288	2.395920	23.66836	1.020806	2.382801

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.216590	4.686358	2.394377	23.66307	2.384688	1.238647
Stddev	.001851	.015292	.010610	.08185	.007117	.002240
%RSD	.1521138	.3263178	.4431156	.3459036	.2984332	.1808158
#1	1.216530	4.699848	2.395367	23.73972	2.387283	1.240673
#2	1.218470	4.669745	2.383307	23.67262	2.390143	1.239027
#3	1.214771	4.689481	2.404457	23.57686	2.376638	1.236242

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.58055	2.372989	2.427961	23.26104	4.715059	4.930683
Stddev	.10644	.005394	.010352	.13009	.008638	.012261
%RSD	.4330443	.2273228	.4263606	.5592417	.1832050	.2486764
#1	24.63172	2.378378	2.435884	23.29427	4.715232	4.936876
#2	24.45818	2.367589	2.416249	23.11756	4.723610	4.938613
#3	24.65174	2.372999	2.431752	23.37128	4.706336	4.916560

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCV03 Acquired: 3/18/2025 13:07:49 Type: Unk
Method: NON EPA-6010-200.7(v2818) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.853141	4.610783	5.176185	4.906579	4.738447	F 4.442649
Stddev	.013324	.010859	.027439	.005791	.015003	.013660
%RSD	.2745388	.2355028	.5301013	.1180266	.3166188	.3074849
#1	4.857774	4.615662	5.180634	4.903250	4.746953	4.443860
#2	4.863530	4.598340	5.146793	4.913266	4.747264	4.428424
#3	4.838119	4.618345	5.201127	4.903220	4.721124	4.455664

Elem	Sr4077
Units	ppm
Avg	4.521584
Stddev	.028497
%RSD	.6302343
#1	4.501598
#2	4.554215
#3	4.508939

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2695.601	66046.30	13633.88	1965.184	4524.563
Stddev	8.503	167.91	39.42	6.638	14.808
%RSD	.3154228	.2542355	.2891195	.3378033	.3272817
#1	2689.195	65853.03	13597.40	1959.074	4512.360
#2	2692.359	66129.49	13628.55	1972.248	4520.293
#3	2705.247	66156.38	13675.70	1964.230	4541.037

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCB03 Acquired: 3/18/2025 13:13:01 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	.0011870	-.001714	.0004833	-.001147	.0012246	.0043739	-.002557
Stddev	.0011090	.000663	.0006880	.005564	.0000710	.0049638	.000442
%RSD	93.42885	38.66478	142.3496	485.0650	5.798123	113.4863	17.28767
#1	.0024050	-.002150	.0008106	.005263	.0012657	.0070311	-.002832
#2	.0009201	-.000951	-.000307	-.003984	.0011426	-.001353	-.002047
#3	.0002358	-.002040	.000947	-.004721	.0012656	.007444	-.002791

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001060	.0000298	-.003388	.0005416	.0002452	.0001740	.0011378
Stddev	.0000192	.0001215	.005710	.0001897	.0001244	.0003754	.0062722
%RSD	18.13763	407.1028	168.5198	35.01924	50.71238	215.7177	551.2338
#1	.0001273	.0001044	-.009972	.0005632	.0001063	.0004327	-.003976
#2	.0001007	-.000110	.000202	.0007196	.0003461	-.000257	-.000747
#3	.0000900	.000095	-.000394	.0003421	.0002833	.000346	.008136

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001303	-.000026	.0000597	.0002084	-.016399	.0007575	-.000018
Stddev	.000247	.009936	.0000645	.0001448	.007526	.0014062	.000232
%RSD	18.95275	37719.57	108.0910	69.47541	45.89328	185.6414	1274.947
#1	-.001584	-.010368	.0000115	.0002527	-.013023	.0017143	.000246
#2	-.001201	.009448	.0000345	.0000467	-.025022	.0014153	-.000184
#3	-.001123	.000841	.0001329	.0003260	-.011152	-.000857	-.000117

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.079250	.0037463	.0001202	-.000073	.0013686	.0052067	-.005918
Stddev	.019591	.0005130	.0000378	.000721	.0003524	.0062885	.001980
%RSD	24.72031	13.69404	31.48054	989.5902	25.74673	120.7770	33.46241
#1	-.089039	.0036456	.0000765	.000752	.0010574	.0111780	-.007315
#2	-.056694	.0043023	.0001437	-.000582	.0012972	.0057992	-.003652
#3	-.092018	.0032912	.0001403	-.000388	.0017513	-.001357	-.006786

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCB03 Acquired: 3/18/2025 13:13:01 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	.0005960	-.002802	.0001460
Stddev	.0042924	.000651	.0000658
%RSD	720.1618	23.22611	45.08542
#1	.0033183	-.003393	.0002129
#2	.0028220	-.002907	.0000813
#3	-.004352	-.002105	.0001437

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2814.738	68814.04	14551.99	2073.787	5014.467
Stddev	4.246	149.26	57.53	6.600	6.937
%RSD	.1508636	.2169020	.3953639	.3182582	.1383434
#1	2816.604	68683.07	14618.19	2066.966	5022.454
#2	2817.732	68782.51	14514.14	2080.141	5011.001
#3	2809.878	68976.55	14523.63	2074.255	5009.946

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1585-01A Acquired: 3/18/2025 13:17:21 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	.6386073	1.761723	1.130860	1.393265	.6157715	112.2510
Stddev	.0058485	.005097	.003027	.006140	.0016506	.1332
%RSD	.9158273	.2893360	.2677071	.4406786	.2680498	.1186704
#1	.6329046	1.763940	1.127674	1.389778	.6165630	112.1239
#2	.6383258	1.765336	1.131208	1.389663	.6138742	112.3896
#3	.6445915	1.755893	1.133699	1.400354	.6168772	112.2394

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6376821	.1406786	.1813704	270.4872	.6178734	.3627290
Stddev	.0023964	.0007669	.0005607	2.2140	.0004611	.0007547
%RSD	.3758029	.5451110	.3091560	.8185275	.0746254	.2080607
#1	.6383277	.1405919	.1812639	270.6231	.6174785	.3626589
#2	.6396896	.1414851	.1808707	272.6302	.6177614	.3620118
#3	.6350290	.1399587	.1819768	268.2084	.6183801	.3635163

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5565619	257.5164	3.053191	89.99131	.7710042	.0546338
Stddev	.0022000	.3969	.014611	.26839	.0015910	.0003234
%RSD	.3952907	.1541069	.4785588	.2982434	.2063552	.5920329
#1	.5555546	257.4930	3.054721	89.79073	.7698090	.0549947
#2	.5550459	257.1318	3.066977	90.29620	.7703935	.0543701
#3	.5590853	257.9244	3.037875	89.88702	.7728101	.0545365

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.391399	.5939104	.9460316	34.22716	-.427591	.3102497
Stddev	.055908	.0008401	.0015032	.16300	.006996	.0010760
%RSD	.5953123	.1414531	.1588992	.4762356	1.636086	.3468205
#1	9.380889	.5931399	.9466900	34.29254	-.428834	.3094704
#2	9.341491	.5948060	.9470934	34.04162	-.433883	.3098014
#3	9.451816	.5937852	.9443115	34.34733	-.420058	.3114774

Sample Name: Q1585-01A Acquired: 3/18/2025 13:17:21 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	.6588185	8.844791	4.750265	F 19.21653	F 20.23532	.4093249
Stddev	.0019204	.022171	.039291	.02383	.07461	.0011039
%RSD	.2914876	.2506723	.8271311	.1240180	.3687117	.2696898
#1	.6597701	8.845598	4.706982	19.21648	20.21303	.4102257
#2	.6566081	8.866548	4.760130	19.19271	20.17439	.4096555
#3	.6600772	8.822227	4.783684	19.24038	20.31853	.4080934

Elem	Sr4077
Units	ppm
Avg	.3805392
Stddev	.0022348
%RSD	.5872578
#1	.3811358
#2	.3824151
#3	.3780667

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3139.544	80131.93	17752.46	2348.035	3999.625
Stddev	7.701	136.13	90.46	9.634	9.786
%RSD	.2453025	.1698817	.5095726	.4103072	.2446764
#1	3141.659	80128.57	17746.04	2338.952	4004.447
#2	3145.966	80269.70	17665.38	2347.013	4006.065
#3	3131.006	79997.50	17845.96	2358.139	3988.364

Sample Name: Q1574-02LX5 Acquired: 3/18/2025 13:32:43 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	.0003476	-.004209	.1958609	.0003725	.0068040	.0748707	.0430221
Stddev	.0018480	.001080	.0008083	.0012667	.0014166	.0010890	.0009740
%RSD	531.6744	25.65988	.4126692	340.0852	20.81943	1.454520	2.263924
#1	-.000626	-.005382	.1953390	-.000375	.0072837	.0742739	.0434346
#2	-.000810	-.003992	.1967919	.001835	.0052099	.0742106	.0419098
#3	.002479	-.003255	.1954518	-.000343	.0079185	.0761277	.0437220

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002049	.0071792	9.786912	.0007701	.0035038	1.419206	.1552996
Stddev	.0000401	.0000955	.026889	.0002330	.0001245	.007845	.0031254
%RSD	19.57790	1.330795	.2747491	30.25204	3.552742	.5528042	2.012486
#1	.0001730	.0070843	9.788877	.0008340	.0035689	1.413792	.1542927
#2	.0001918	.0071778	9.759093	.0009644	.0033603	1.415623	.1588043
#3	.0002499	.0072753	9.812764	.0005118	.0035822	1.428203	.1528018

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1321744	.5224903	.1044068	.0004085	64.48696	.0008724	13.50061
Stddev	.0003960	.0081529	.0007859	.0004108	.27062	.0004956	.03832
%RSD	.2995925	1.560393	.7526843	100.5710	.4196503	56.80385	.2838206
#1	.1323464	.5184244	.1045201	.0008166	64.63705	.0006672	13.51957
#2	.1317215	.5318766	.1035704	-.000005	64.64928	.0014376	13.45651
#3	.1324553	.5171700	.1051298	.000414	64.17456	.0005124	13.52576

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3424645	.0668714	-.002333	-.001679	.0007312	.3681575	.0015068
Stddev	.0237796	.0005895	.000216	.000800	.0007301	.0019140	.0020465
%RSD	6.943661	.8814894	9.258758	47.65830	99.84326	.5198899	135.8212
#1	.3183099	.0664351	-.002092	-.002387	-.000050	.3659483	.0018275
#2	.3432332	.0666372	-.002510	-.000811	.001396	.3692046	-.000681
#3	.3658504	.0675420	-.002396	-.001837	.000847	.3693194	.003374

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1574-02LX5 Acquired: 3/18/2025 13:32:43 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	1.136341	-.003652	.0519232
Stddev	.005108	.000405	.0001602
%RSD	.4495300	11.07772	.3084531
#1	1.130513	-.004005	.0518077
#2	1.138468	-.003739	.0518558
#3	1.140042	-.003210	.0521060

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2699.722	67550.45	14135.45	2028.623	4607.518
Stddev	6.781	301.84	64.57	7.651	14.011
%RSD	.2511889	.4468361	.4568126	.3771519	.3040810
#1	2698.474	67230.84	14102.46	2020.748	4599.418
#2	2707.041	67589.86	14209.85	2029.090	4623.696
#3	2693.652	67830.65	14094.04	2036.029	4599.440

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1574-01DLX20 Acquired: 3/18/2025 13:41:13 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	.0701221	.0091184	2.065247	-.015662	.0186823	9.553219	.2940345
Stddev	.0008143	.0016045	.008449	.003013	.0019236	.183809	.0060969
%RSD	1.161276	17.59678	.4091003	19.23798	10.29651	1.924052	2.073526
#1	.0704887	.0073861	2.063519	-.018795	.0164669	9.632666	.2959219
#2	.0706886	.0094155	2.057796	-.015406	.0199290	9.683942	.2989644
#3	.0691889	.0105537	2.074427	-.012786	.0196511	9.343050	.2872171

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025856	.0029356	10.30181	.1347882	.0469267	48.35011	159.8483
Stddev	.0000235	.0006350	.18261	.0022075	.0004617	.07893	2.7777
%RSD	.9067712	21.63107	1.772634	1.637774	.9838755	.1632475	1.737681
#1	.0026076	.0022421	10.39167	.1372529	.0466973	48.33246	162.8627
#2	.0025609	.0030762	10.42209	.1341191	.0466246	48.28150	159.2900
#3	.0025881	.0034886	10.09168	.1329926	.0474582	48.43637	157.3922

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6701557	3.972588	1.797996	.0329453	.8791851	.0417017	19.32078
Stddev	.0125948	.060633	.007268	.0007543	.0259529	.0013476	.36234
%RSD	1.879380	1.526287	.4042465	2.289691	2.951928	3.231650	1.875368
#1	.6773484	4.011822	1.795443	.0337072	.9088293	.0430264	19.73447
#2	.6775060	4.003189	1.792348	.0329300	.8681673	.0417464	19.05974
#3	.6556128	3.902752	1.806196	.0321987	.8605588	.0403322	19.16815

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6568133	-.328760	.0119908	.3061868	.2501836	.4920670	1.309319
Stddev	.0141947	.007227	.0002515	.0031228	.0059703	.0138957	.006016
%RSD	2.161142	2.198146	2.097713	1.019911	2.386360	2.823949	.4594905
#1	.6676460	-.333192	.0121892	.3039395	.2520631	.5079464	1.309684
#2	.6620496	-.332668	.0120754	.3048684	.2549880	.4861206	1.303129
#3	.6407444	-.320421	.0117079	.3097527	.2434998	.4821338	1.315145

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1574-01DLX20 Acquired: 3/18/2025 13:41:13 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	5.099177	.0639791	-.079688
Stddev	.030978	.0011929	.001981
%RSD	.6075161	1.864539	2.485995
#1	5.075759	.0652726	-.081929
#2	5.087469	.0637427	-.078170
#3	5.134303	.0629222	-.078965

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2678.393	67150.01	14617.45	1979.162	4659.209
Stddev	5.227	997.97	162.79	30.778	10.601
%RSD	.1951563	1.486178	1.113651	1.555125	.2275374
#1	2672.374	65998.86	14522.02	1944.624	4655.113
#2	2681.799	67771.29	14524.93	2003.688	4671.248
#3	2681.005	67679.87	14805.42	1989.174	4651.267

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: LR1 Acquired: 3/18/2025 13:45:07 Type: Unk
Method: NON EPA-6010-200.7(v2819) 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	.0318950	.0679450	.0187879	-.181802	-.009389	1969.697	.0110583
Stddev	.0076206	.0132446	.0029918	.000480	.014097	13.729	.0005563
%RSD	23.89284	19.49318	15.92416	.2639274	150.1452	.6969882	5.030851
#1	.0264945	.0704696	.0155678	-.182158	-.007848	1954.353	.0106310
#2	.0285786	.0536197	.0214815	-.181256	-.024194	1980.817	.0108565
#3	.0406119	.0797456	.0193144	-.181991	.003874	1973.921	.0116873

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074194	-.000901	1654.560	.0263058	.0279608	.0513370	950.5683
Stddev	.0000772	.001920	5.361	.0008586	.0005409	.0036335	12.6603
%RSD	1.040747	213.0858	.3240422	3.263798	1.934449	7.077700	1.331868
#1	.0073415	-.002841	1650.394	.0269369	.0279274	.0484809	962.4367
#2	.0074207	.000999	1660.609	.0253282	.0274375	.0554267	937.2423
#3	.0074960	-.000861	1652.678	.0266525	.0285177	.0501035	952.0260

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.105445	1807.318	.0153324	-.032198	1838.317	.0148056	.1764633
Stddev	.000396	10.702	.0003732	.002404	13.513	.0013474	.0007516
%RSD	.3757535	.5921426	2.434219	7.466811	.7350662	9.100590	.4259334
#1	-.105476	1807.133	.0149933	-.030455	1853.330	.0147622	.1756693
#2	-.105825	1818.111	.0157323	-.034940	1834.489	.0134805	.1765567
#3	-.105034	1796.710	.0152717	-.031197	1827.130	.0161742	.1771638

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1320.570	^ *****	-.007133	-.001234	-.034475	.1394143	.0760001
Stddev	18.044	-----	.000308	.006617	.000641	.0015763	.0018761
%RSD	1.366398	-----	4.321973	536.4067	1.858383	1.130622	2.468585
#1	1341.073	^ -----	-.006850	.002362	-.034588	.1379828	.0769468
#2	1307.106	^ -----	-.007462	.002807	-.035052	.1411036	.0772142
#3	1313.531	^ -----	-.007087	-.008870	-.033786	.1391565	.0738392

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: LR1 Acquired: 3/18/2025 13:45:07 Type: Unk
Method: NON EPA-6010-200.7(v2819) 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	-.205460	.1188265	-.825868
Stddev	.004720	.0066516	.011190
%RSD	2.297163	5.597771	1.354980
#1	-.202001	.1257082	-.836421
#2	-.210837	.1124317	-.814134
#3	-.203542	.1183396	-.827049

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1864.869	47096.89	12367.71	1374.487	2720.803
Stddev	2.844	185.43	52.48	8.841	4.653
%RSD	.1524810	.3937160	.4243129	.6431961	.1710064
#1	1867.139	46924.14	12416.92	1364.793	2723.966
#2	1861.679	47292.82	12312.48	1382.105	2715.460
#3	1865.788	47073.73	12373.73	1376.562	2722.982

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: LR2 Acquired: 3/18/2025 13:50:04 Type: Unk
Method: NON EPA-6010-200.7(v2819) 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	.0090763	-.005369	225.6876	.0076189	-.003360	.1729363	^F *****
Stddev	.0020577	.003138	.7610	.0020895	.001304	.0025837	-----
%RSD	22.67150	58.44287	.3371848	27.42569	38.80180	1.494032	-----
#1	.0067421	-.004165	225.3550	.0054087	-.003295	.1754293	^ -----
#2	.0098589	-.008931	225.1496	.0095621	-.004696	.1702705	^ -----
#3	.0106280	-.003012	226.5583	.0078861	-.002090	.1731091	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002556	-.003033	.2617995	.0114193	.0047022	267.3300	.0200599
Stddev	.000039	.000105	.0077381	.0004549	.0003304	1.8088	.0071706
%RSD	1.538286	3.445435	2.955751	3.983142	7.025967	.6766140	35.74618
#1	-.002542	-.003003	.2699382	.0118967	.0047054	267.8176	.0276339
#2	-.002600	-.002947	.2545365	.0113704	.0043703	265.3275	.0133756
#3	-.002525	-.003150	.2609238	.0109909	.0050310	268.8451	.0191702

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	43.91346	-.081245	48.37245	.0016395	.2242346	-.012257	31.82123
Stddev	.19135	.016483	.15515	.0001532	.0237330	.000868	.02618
%RSD	.4357372	20.28739	.3207502	9.344053	10.58399	7.080112	.0822693
#1	44.12075	-.063553	48.31186	.0015504	.2462526	-.012374	31.84086
#2	43.87604	-.084016	48.25674	.0018164	.2273558	-.011336	31.83134
#3	43.74358	-.096167	48.54876	.0015518	.1990955	-.013060	31.79151

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1892267	-.004167	-.007974	-.005548	-.034719	-.013473	.2180511
Stddev	.0340952	.000741	.000172	.000312	.000292	.000490	.0057638
%RSD	18.01819	17.77886	2.154336	5.618678	.8398720	3.638824	2.643319
#1	.2282646	-.004991	-.007800	-.005188	-.034553	-.014013	.2124855
#2	.1741256	-.003557	-.007977	-.005746	-.034548	-.013055	.2239945
#3	.1652899	-.003953	-.008144	-.005709	-.035056	-.013351	.2176734

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: LR2 Acquired: 3/18/2025 13:50:04 Type: Unk
Method: NON EPA-6010-200.7(v2819) 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	.0288875	-.000547	.0015339
Stddev	.0062045	.000699	.0000104
%RSD	21.47807	127.8956	.6752156
#1	.0254992	.000214	.0015404
#2	.0360484	-.001162	.0015219
#3	.0251149	-.000692	.0015393

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2389.316	68936.55	14870.13	1980.087	4728.077
Stddev	10.128	146.69	52.51	6.588	21.842
%RSD	.4238997	.2127960	.3531003	.3327360	.4619656
#1	2393.119	68868.63	14816.17	1987.668	4737.979
#2	2396.993	68836.13	14921.05	1975.742	4743.214
#3	2377.837	69104.90	14873.16	1976.853	4703.038

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1590-02 Acquired: 3/18/2025 13:54:28 Type: Unk
Method: NON EPA-6010-200.7(v2820) 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	.9395455	.0097879	.5183409	-.016988	.0095659	69.84206
Stddev	.0020729	.0009363	.0006378	.001355	.0019053	.06605
%RSD	.2206230	9.566010	.1230418	7.977072	19.91769	.0945761
#1	.9382080	.0094635	.5190683	-.016309	.0114919	69.76928
#2	.9384951	.0108433	.5180767	-.016105	.0095236	69.89821
#3	.9419332	.0090570	.5178776	-.018548	.0076820	69.85867

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.412116	.0081626	-.000862	49.52946	.0624971	1.258743
Stddev	.009110	.0000896	.000079	.20261	.0001929	.002648
%RSD	.2669828	1.097504	9.198061	.4090733	.3087240	.2104021
#1	3.418269	.0081225	-.000942	49.40439	.0622831	1.261504
#2	3.401651	.0082652	-.000858	49.42076	.0625505	1.258502
#3	3.416429	.0081000	-.000784	49.76322	.0626577	1.256224

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1758173	106.8988	25.68422	13.05220	.1806872	.0013084
Stddev	.0006710	.4132	.22518	.07833	.0005146	.0000675
%RSD	.3816195	.3865173	.8767148	.6001334	.2847787	5.159309
#1	.1765701	107.3530	25.47887	12.97578	.1812344	.0013771
#2	.1755995	106.5452	25.64877	13.04849	.1806141	.0012422
#3	.1752823	106.7982	25.92502	13.13231	.1802131	.0013058

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	57.95992	.3076894	.4949056	25.98131	-.162934	.1491339
Stddev	.26792	.0002465	.0018065	.07834	.001524	.0003577
%RSD	.4622520	.0801038	.3650185	.3015142	.9353395	.2398396
#1	58.23527	.3074171	.4969900	26.06745	-.161835	.1489975
#2	57.94438	.3077538	.4937940	25.91433	-.162293	.1495398
#3	57.70011	.3078973	.4939328	25.96215	-.164673	.1488646

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1590-02 Acquired: 3/18/2025 13:54:28 Type: Unk
Method: NON EPA-6010-200.7(v2820) 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	.0043999	.7710803	4.046282	F 17.71844	3.647493	.1031261
Stddev	.0002602	.0012098	.137383	.05139	.014620	.0004758
%RSD	5.914192	.1568946	3.395285	.2900483	.4008215	.4613388
#1	.0041153	.7698770	4.171607	17.76879	3.663862	.1036113
#2	.0046258	.7710676	4.067847	17.72045	3.642885	.1031067
#3	.0044585	.7722965	3.899392	17.66607	3.635733	.1026604

Elem	Sr4077
Units	ppm
Avg	3.321529
Stddev	.027326
%RSD	.8226855
#1	3.305113
#2	3.306400
#3	3.353073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3436.542	85484.30	19048.96	2555.954	4472.165
Stddev	2.549	101.45	70.81	3.870	8.609
%RSD	.0741594	.1186754	.3717324	.1513957	.1925128
#1	3433.599	85369.70	19120.37	2552.223	4462.459
#2	3438.034	85520.56	19047.75	2555.689	4475.156
#3	3437.993	85562.64	18978.76	2559.949	4478.880

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1590-02DUP Acquired: 3/18/2025 13:58:51 Type: Unk
Method: NON EPA-6010-200.7(v2820) 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	.9399282	.0085250	.5154249	-.018049	.0111790	68.79454
Stddev	.0031594	.0031862	.0011085	.001847	.0005813	.01888
%RSD	.3361337	37.37426	.2150670	10.23370	5.199873	.0274441
#1	.9364133	.0061504	.5142115	-.015956	.0112888	68.81425
#2	.9425318	.0121460	.5156787	-.019449	.0105506	68.79274
#3	.9408395	.0072787	.5163844	-.018743	.0116975	68.77662

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.393694	.0079466	-.001018	48.75536	.0629512	1.252952
Stddev	.041336	.0000977	.000108	.16985	.0005377	.002677
%RSD	1.218038	1.229463	10.57468	.3483795	.8541719	.2136339
#1	3.422205	.0080528	-.001138	48.92580	.0631573	1.250622
#2	3.346287	.0078604	-.000928	48.58610	.0623409	1.252359
#3	3.412591	.0079266	-.000989	48.75418	.0633553	1.255876

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1711349	107.2929	25.16817	12.82862	.1791220	.0015108
Stddev	.0002859	.3047	.35184	.03697	.0005641	.0003225
%RSD	.1670592	.2840221	1.397959	.2882020	.3149381	21.34925
#1	.1710477	107.4764	25.57390	12.86262	.1786491	.0011385
#2	.1714543	106.9411	24.94707	12.78926	.1789705	.0016892
#3	.1709028	107.4611	24.98355	12.83398	.1797464	.0017047

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	59.37295	.3027682	.4896732	26.45491	-.157339	.1509973
Stddev	.14265	.0008748	.0032309	.00931	.001027	.0004228
%RSD	.2402542	.2889365	.6598094	.0352104	.6526026	.2800096
#1	59.21384	.3032709	.4873629	26.45234	-.157865	.1507750
#2	59.41562	.3017580	.4882916	26.44715	-.156156	.1507321
#3	59.48940	.3032755	.4933652	26.46524	-.157996	.1514849

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1590-02DUP Acquired: 3/18/2025 13:58:51 Type: Unk
Method: NON EPA-6010-200.7(v2820) 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	.0039546	.7612345	3.071422	F 17.47656	3.599060	.1017818
Stddev	.0003257	.0024717	.021721	.03650	.008269	.0003267
%RSD	8.234959	.3246922	.7072110	.2088351	.2297428	.3209740
#1	.0043285	.7628308	3.048418	17.43929	3.592180	.1014211
#2	.0037326	.7583874	3.074266	17.47814	3.608233	.1020578
#3	.0038028	.7624851	3.091581	17.51224	3.596768	.1018666

Elem	Sr4077
Units	ppm
Avg	3.315976
Stddev	.008958
%RSD	.2701481
#1	3.315836
#2	3.307089
#3	3.325004

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3452.795	85112.34	19658.39	2506.504	4490.773
Stddev	.665	224.09	94.21	14.310	2.293
%RSD	.0192737	.2632913	.4792342	.5709169	.0510645
#1	3452.271	85022.69	19562.41	2515.977	4493.196
#2	3452.569	85367.38	19750.73	2513.493	4488.637
#3	3453.543	84946.95	19662.04	2490.043	4490.485

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1590-02LX5 Acquired: 3/18/2025 14:03:15 Type: Unk
Method: NON EPA-6010-200.7(v2820) 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	.2381593	-.002279	.1123727	-.004958	.0045843	17.72869	.8369811
Stddev	.0031994	.002337	.0014139	.003608	.0015085	.01703	.0019402
%RSD	1.343402	102.5087	1.258186	72.77510	32.90595	.0960788	.2318098
#1	.2345239	.000317	.1139989	-.007120	.0060769	17.71209	.8391818
#2	.2405465	-.004213	.1114345	-.000793	.0046157	17.72786	.8362443
#3	.2394076	-.002942	.1116846	-.006962	.0030603	17.74613	.8355173

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022061	-.001239	12.71143	.0164983	.2666653	.0462426	27.05270
Stddev	.0000351	.000039	.02874	.0001014	.0002111	.0002847	.10440
%RSD	1.591779	3.164562	.2260975	.6147503	.0791686	.6156977	.3859059
#1	.0021692	-.001205	12.72226	.0164703	.2664244	.0463080	27.16131
#2	.0022391	-.001230	12.73318	.0166109	.2668183	.0464889	27.04370
#3	.0022100	-.001282	12.67884	.0164139	.2667531	.0459308	26.95309

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.603556	3.357093	.0381672	.0003649	14.57776	.0779235	.1228811
Stddev	.006724	.009653	.0002398	.0000870	.07768	.0010543	.0008207
%RSD	.1018277	.2875478	.6281714	23.83309	.5328796	1.353053	.6678539
#1	6.610893	3.349531	.0384404	.0004653	14.59092	.0773082	.1231373
#2	6.597687	3.353782	.0380693	.0003109	14.64803	.0773214	.1235431
#3	6.602089	3.367966	.0379919	.0003187	14.49434	.0791410	.1219629

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.349312	-.046712	.0388308	-.000208	.1958935	.7941596	3.688540
Stddev	.040044	.000890	.0000751	.000462	.0010187	.0067666	.007209
%RSD	.6306899	1.904803	.1933118	222.5943	.5200148	.8520417	.1954354
#1	6.381442	-.046876	.0389022	-.000177	.1957814	.8019464	3.688179
#2	6.362044	-.045752	.0387525	-.000684	.1949355	.7908234	3.681518
#3	6.304449	-.047509	.0388375	.000239	.1969635	.7897090	3.695922

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1590-02LX5 Acquired: 3/18/2025 14:03:15 Type: Unk
Method: NON EPA-6010-200.7(v2820) 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	.7341118	.0245776	.8588012
Stddev	.0054924	.0010765	.0019376
%RSD	.7481679	4.380076	.2256140
#1	.7402479	.0234126	.8603000
#2	.7324324	.0255356	.8594903
#3	.7296552	.0247846	.8566132

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2907.895	70633.56	15756.17	2088.065	4727.942
Stddev	6.879	168.34	43.23	11.226	12.564
%RSD	.2365461	.2383341	.2743603	.5376100	.2657314
#1	2904.891	70544.48	15770.05	2086.925	4719.517
#2	2903.029	70528.47	15790.76	2077.453	4721.925
#3	2915.764	70827.73	15707.71	2099.818	4742.382

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCV04 Acquired: 3/18/2025 14:07:28 Type: Unk
Method: NON EPA-6010-200.7(v2820) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.771050	4.804312	4.663209	4.755478	4.822859	9.260400
Stddev	.015210	.034125	.006534	.009978	.009406	.033787
%RSD	.3188032	.7102909	.1401170	.2098125	.1950353	.3648564
#1	4.761682	4.797435	4.657459	4.745293	4.812246	9.286650
#2	4.762866	4.841352	4.661855	4.755907	4.826163	9.222279
#3	4.788600	4.774150	4.670314	4.765235	4.830166	9.272270

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.511911	.2254935	2.312129	23.54414	.9812277	2.301790
Stddev	.091131	.0013224	.004940	.08802	.0017672	.004604
%RSD	.9580690	.5864381	.2136687	.3738494	.1801011	.2000317
#1	9.617104	.2263599	2.306894	23.59984	.9793037	2.296966
#2	9.461682	.2239714	2.312786	23.44267	.9816008	2.302268
#3	9.456947	.2261492	2.316709	23.58993	.9827785	2.306138

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.181792	5.044897	2.700521	25.23096	2.298972	1.189344
Stddev	.003000	.003302	.005758	.13080	.006014	.000358
%RSD	.2538306	.0654445	.2132306	.5183926	.2616000	.0301262
#1	1.178425	5.041492	2.699796	25.29698	2.292449	1.188942
#2	1.182772	5.045116	2.695160	25.08031	2.300170	1.189463
#3	1.184179	5.048084	2.706608	25.31558	2.304297	1.189629

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.71304	2.253138	2.331334	23.39056	F 4.429588	4.780578
Stddev	.08542	.008057	.007079	.10578	.036393	.013577
%RSD	.3602409	.3575798	.3036565	.4522148	.8215898	.2840077
#1	23.64681	2.254889	2.339128	23.27207	4.453287	4.765413
#2	23.80946	2.244349	2.329573	23.47547	4.387685	4.784715
#3	23.68286	2.260174	2.325302	23.42415	4.447793	4.791605

Sample Name: CCV04 Acquired: 3/18/2025 14:07:28 Type: Unk
Method: NON EPA-6010-200.7(v2820) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Ti3361	Si2881	P_1774	S_1820	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.665183	F 4.381162	4.912415	4.743466	4.574399	F 4.167334
Stddev	.011696	.011807	.027020	.011786	.013542	.013706
%RSD	.2507059	.2694940	.5500304	.2484683	.2960477	.3288835
#1	4.651679	4.387083	4.881753	4.733960	4.570841	4.167780
#2	4.672034	4.367567	4.922753	4.756653	4.589365	4.153411
#3	4.671838	4.388838	4.932739	4.739785	4.562991	4.180812

Elem	Sr4077
Units	ppm
Avg	F 4.338843
Stddev	.022616
%RSD	.5212433
#1	4.313692
#2	4.357505
#3	4.345333

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2739.279	67873.06	14287.03	2020.309	4630.522
Stddev	.673	112.44	84.33	5.534	1.947
%RSD	.0245519	.1656593	.5902845	.2739305	.0420400
#1	2740.046	67995.70	14261.94	2021.309	4630.223
#2	2738.998	67848.65	14381.06	2014.343	4628.742
#3	2738.793	67774.83	14218.08	2025.275	4632.601

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCB04 Acquired: 3/18/2025 14:20:03 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	.0008777	-.002846	-.000088	.0009689	.0023717	.0079333	.0005104
Stddev	.0024826	.000481	.001636	.0031999	.0001106	.0065776	.0004224
%RSD	282.8608	16.89446	1854.104	330.2685	4.663423	82.91214	82.76477
#1	-.001602	-.003400	.001228	.0035313	.0022474	.0035890	.0004429
#2	.003363	-.002535	.000427	.0019930	.0024083	.0155009	.0009625
#3	.000871	-.002603	-.001920	-.002618	.0024594	.0047099	.0001258

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000821	-.000004	-.002430	.0000783	.0001146	.0000689	-.002945
Stddev	.0000998	.000087	.002841	.0006639	.0000727	.0002592	.001249
%RSD	121.5216	2367.387	116.9279	847.5954	63.38013	376.3239	42.41102
#1	.0000170	-.000030	-.004602	.0007859	.0001712	.0002520	-.003809
#2	.0000323	.000093	-.003473	-.000020	.0001401	-.000228	-.001513
#3	.0001970	-.000075	.000785	-.000531	.0000327	.000182	-.003512

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000754	-.001105	.0002810	.0005503	.0278353	-.001428	-.000062
Stddev	.000464	.008584	.0001984	.0003057	.0055495	.000907	.000278
%RSD	61.57404	777.1917	70.61015	55.54610	19.93699	63.50445	446.6291
#1	-.000224	.001068	.0003779	.0008287	.0265278	-.000400	-.000382
#2	-.001090	-.010566	.0004123	.0005991	.0230562	-.001773	.000083
#3	-.000947	.006185	.0000528	.0002232	.0339218	-.002113	.000113

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.029039	-.004105	-.000019	.0001198	.0012867	-.000435	-.004474
Stddev	.019691	.000417	.000194	.0006717	.0006040	.003345	.000863
%RSD	67.81032	10.16068	999.4084	560.8514	46.94060	769.3977	19.29927
#1	-.047151	-.004411	-.000240	.0008858	.0006979	-.003549	-.005447
#2	-.031886	-.003630	.000125	-.000158	.0019048	.003101	-.004177
#3	-.008079	-.004273	.000057	-.000369	.0012574	-.000856	-.003799

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCB04 Acquired: 3/18/2025 14:20:03 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	-.000293	-.002196	.0000263
Stddev	.003172	.000750	.0000233
%RSD	1082.287	34.16834	88.94737
#1	.002030	-.002972	.0000039
#2	.000998	-.001475	.0000243
#3	-.003907	-.002140	.0000505

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2810.045	68824.97	14754.63	2046.453	4994.488
Stddev	2.717	273.28	16.12	6.689	3.274
%RSD	.0967035	.3970629	.1092342	.3268614	.0655437
#1	2810.590	68540.20	14773.23	2041.142	4996.671
#2	2807.096	68849.61	14744.79	2044.250	4990.724
#3	2812.448	69085.09	14745.88	2053.965	4996.068

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1590-02MS Acquired: 3/18/2025 14:24:23 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	1.502959	1.757825	1.019229	1.354689	.2229541	85.75714
Stddev	.022516	.023781	.023229	.020980	.0026543	.12056
%RSD	1.498105	1.352850	2.279107	1.548709	1.190531	.1405816
#1	1.476989	1.730923	.992766	1.330485	.2199606	85.73203
#2	1.514885	1.766507	1.028671	1.367682	.2238814	85.88828
#3	1.517003	1.776044	1.036251	1.365900	.2250205	85.65112

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.731990	.1403538	.1772877	46.57970	.3704678	.2406954
Stddev	.002659	.0001204	.0045197	.11949	.0006096	.0055933
%RSD	.1535404	.0857471	2.549364	.2565269	.1645534	2.323805
#1	1.729338	.1403837	.1721816	46.71005	.3711079	.2342525
#2	1.734656	.1402213	.1789063	46.55371	.3704015	.2435277
#3	1.731978	.1404564	.1807753	46.47535	.3698941	.2443061

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3797517	127.4929	1.621980	14.74243	.5658469	.0435885
Stddev	.0070743	.1168	.006288	.04599	.0121135	.0001395
%RSD	1.862884	.0916235	.3876786	.3119785	2.140765	.3200478
#1	.3716941	127.5772	1.614869	14.77751	.5519985	.0435646
#2	.3826179	127.5419	1.624268	14.69036	.5710675	.0434624
#3	.3849432	127.3595	1.626804	14.75941	.5744746	.0437384

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	71.92330	.4032592	.6660280	36.42779	-.117878	.2656575
Stddev	.10511	.0014662	.0017562	.04540	.000777	.0040473
%RSD	.1461367	.3635838	.2636831	.1246372	.6589789	1.523516
#1	71.92646	.4035178	.6664883	36.40776	-.117000	.2610039
#2	72.02679	.4016810	.6675083	36.47977	-.118475	.2676116
#3	71.81665	.4045789	.6640875	36.39585	-.118160	.2683571

Sample Name: Q1590-02MS Acquired: 3/18/2025 14:24:23 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	.6315747	.9653456	3.715998	F 18.56541	3.446393	.1972386
Stddev	.0122201	.0012543	.043842	.40889	.068111	.0007500
%RSD	1.934864	.1299330	1.179809	2.202434	1.976294	.3802278
#1	.6177786	.9640392	3.706906	18.09626	3.368204	.1971468
#2	.6359075	.9654571	3.677415	18.75405	3.478137	.1965387
#3	.6410382	.9665404	3.763672	18.84593	3.492836	.1980302

Elem	Sr4077
Units	ppm
Avg	2.729444
Stddev	.020504
%RSD	.7512190
#1	2.731146
#2	2.749044
#3	2.708142

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3350.902	82255.68	18943.46	2417.903	4435.926
Stddev	48.768	136.20	21.33	4.679	85.538
%RSD	1.455366	.1655869	.1126123	.1935251	1.928306
#1	3407.208	82098.68	18925.47	2412.646	4534.153
#2	3322.005	82326.19	18967.03	2419.448	4395.784
#3	3323.494	82342.18	18937.88	2421.614	4377.843

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1590-02MSD Acquired: 3/18/2025 14:28:31 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	1.501088	1.769738	1.017942	1.350818	.2264828	84.20054
Stddev	.004518	.007076	.001257	.001152	.0009401	.14327
%RSD	.3009718	.3998470	.1234806	.0852919	.4151085	.1701542
#1	1.496613	1.762703	1.016558	1.351894	.2254184	84.05542
#2	1.505647	1.769655	1.018257	1.350956	.2268301	84.20431
#3	1.501004	1.776855	1.019012	1.349603	.2271999	84.34189

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.732852	.1388291	.1779120	45.23367	.3650323	.2406146
Stddev	.003227	.0001525	.0002579	.04454	.0013174	.0005534
%RSD	.1862093	.1098858	.1449538	.0984559	.3608876	.2299782
#1	1.730457	.1387815	.1776263	45.18458	.3647772	.2405064
#2	1.731577	.1389998	.1779820	45.24497	.3664585	.2401233
#3	1.736521	.1387060	.1781277	45.27147	.3638611	.2412140

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3842136	124.3729	1.632472	14.58883	.5680864	.0422787
Stddev	.0011834	.1807	.004680	.01968	.0014663	.0005062
%RSD	.3080043	.1452904	.2866954	.1348715	.2581177	1.197286
#1	.3830006	124.3856	1.635594	14.57457	.5670586	.0422733
#2	.3842752	124.5470	1.634731	14.61128	.5697655	.0417752
#3	.3853650	124.1862	1.627090	14.58065	.5674350	.0427876

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	69.89479	.4008507	.6106992	35.84802	-.115266	.2708478
Stddev	.07525	.0020104	.0040137	.10475	.002605	.0001531
%RSD	.1076629	.5015228	.6572319	.2922105	2.260256	.0565172
#1	69.97618	.3995583	.6088922	35.96896	-.113152	.2709314
#2	69.88044	.4031669	.6152988	35.78580	-.114470	.2709408
#3	69.82774	.3998270	.6079067	35.78930	-.118176	.2706711

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1590-02MSD Acquired: 3/18/2025 14:28:31 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	.6328087	.9607080	3.124072	F 18.54675	3.420824	.1950677
Stddev	.0003450	.0004959	.024967	.03714	.001327	.0003723
%RSD	.0545131	.0516127	.7991964	.2002406	.0387910	.1908415
#1	.6331422	.9605166	3.104411	18.50435	3.420340	.1947580
#2	.6324533	.9612711	3.115641	18.57352	3.419807	.1954807
#3	.6328307	.9603365	3.152163	18.56238	3.422325	.1949643

Elem	Sr4077
Units	ppm
Avg	2.750374
Stddev	.018625
%RSD	.6771972
#1	2.740680
#2	2.771847
#3	2.738595

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3352.587	85031.67	19261.21	2509.557	4454.997
Stddev	1.529	133.28	23.21	10.396	2.726
%RSD	.0456184	.1567445	.1204871	.4142493	.0611914
#1	3352.635	84965.83	19287.72	2516.543	4454.131
#2	3354.092	84944.12	19244.58	2497.610	4452.809
#3	3351.034	85185.06	19251.33	2514.519	4458.051

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1590-02A Acquired: 3/18/2025 14:32:39 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	1.433441	1.419312	1.220266	1.131809	.3347254	70.84335
Stddev	.083241	.265842	.131625	.220137	.0617490	.10044
%RSD	5.807084	18.73036	10.78663	19.45004	18.44767	.1417798
#1	1.349715	1.153673	1.092302	.915104	.2766101	70.94959
#2	1.434420	1.418904	1.213225	1.125098	.3280074	70.83051
#3	1.516189	1.685357	1.355270	1.355225	.3995588	70.74994

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.132848	.0683042	.1449694	47.67496	.1999914	1.420762
Stddev	.056993	.0078852	.0273266	.21971	.0179433	.021635
%RSD	1.379026	11.54428	18.84991	.4608557	8.972020	1.522750
#1	4.133185	.0605358	.1181042	47.92843	.1819605	1.399393
#2	4.075687	.0680755	.1440690	47.53877	.2001680	1.420242
#3	4.189671	.0763013	.1727352	47.55768	.2178457	1.442653

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3572229	97.59071	21.88754	11.91001	.5480222	.0248358
Stddev	.0327190	.29712	.20731	.10342	.0681163	.0031927
%RSD	9.159260	.3044579	.9471532	.8683195	12.42949	12.85515
#1	.3255590	97.91422	21.86170	11.81375	.4819606	.0217472
#2	.3552062	97.33002	22.10656	11.89694	.5440836	.0246368
#3	.3909036	97.52789	21.69436	12.01935	.6180224	.0281232

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	60.48081	.3586807	.6026407	27.64666	-.082098	.3076269
Stddev	.12626	.0170540	.0093054	.56655	.011479	.0309296
%RSD	.2087578	4.754658	1.544109	2.049249	13.98243	10.05427
#1	60.37712	.3418886	.5920595	27.09159	-.094114	.2788666
#2	60.62141	.3581683	.6063131	27.62437	-.080935	.3036691
#3	60.44390	.3759852	.6095497	28.22403	-.071244	.3403449

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1590-02A Acquired: 3/18/2025 14:32:39 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	.3484358	.8104368	4.404623	F 22.46592	3.768387	.1322614
Stddev	.0666766	.0048815	.022403	.72762	.018973	.0125221
%RSD	19.13596	.6023323	.5086250	3.238753	.5034806	9.467664
#1	.2866865	.8057613	4.430440	21.76575	3.786888	.1199216
#2	.3394856	.8100482	4.393128	22.41383	3.769298	.1319046
#3	.4191354	.8155011	4.390300	23.21818	3.748975	.1449581

Elem	Sr4077
Units	ppm
Avg	3.364492
Stddev	.017405
%RSD	.5173070
#1	3.384527
#2	3.355849
#3	3.353101

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3382.591	86023.83	19575.59	2551.874	4407.879
Stddev	3.832	74.01	30.33	8.956	6.294
%RSD	.1132834	.0860388	.1549463	.3509510	.1427929
#1	3378.516	85987.89	19545.43	2560.205	4401.144
#2	3383.135	85974.66	19606.09	2542.403	4408.879
#3	3386.121	86108.96	19575.24	2553.015	4413.613

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1592-01 Acquired: 3/18/2025 14:37:06 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	.0819642	.0047710	.4250399	-.023196	-.001464	64.20662	.4497949
Stddev	.0023148	.0015885	.0055432	.003114	.001851	.22443	.0035445
%RSD	2.824154	33.29496	1.304167	13.42327	126.4029	.3495450	.7880273
#1	.0805687	.0051057	.4187630	-.022389	-.001898	64.25174	.4536962
#2	.0846362	.0030418	.4292636	-.026634	-.003060	63.96306	.4467726
#3	.0806877	.0061654	.4270931	-.020566	.000565	64.40507	.4489159

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073343	-.005162	111.0217	.2104306	.0570020	.1527307	176.2507
Stddev	.0000675	.000230	.4710	.0001612	.0005552	.0010647	.6548
%RSD	.9202122	4.462349	.4242470	.0766298	.9740688	.6971178	.3715364
#1	.0073286	-.005423	111.3109	.2104333	.0569657	.1522675	176.9913
#2	.0072698	-.005072	110.4782	.2105905	.0575745	.1539486	176.0121
#3	.0074044	-.004989	111.2760	.2102680	.0564658	.1519761	175.7486

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.679733	23.97875	.1031765	-.001262	2.799222	.2400318	.8821300
Stddev	.007441	.12083	.0002316	.000229	.007226	.0024747	.0023738
%RSD	.4429999	.5039102	.2245152	18.13317	.2581502	1.030967	.2690987
#1	1.687673	24.01791	.1029830	-.001027	2.806876	.2386675	.8847580
#2	1.672919	23.84319	.1034332	-.001484	2.798274	.2385395	.8814905
#3	1.678606	24.07514	.1031133	-.001274	2.792517	.2428883	.8801414

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.02006	-.385978	.0114057	.0062557	.9271299	5.597140	8.723839
Stddev	.09309	.003343	.0002395	.0004740	.0031629	.048359	.067966
%RSD	.8447008	.8660338	2.100083	7.577759	.3411498	.8639941	.7790865
#1	11.11457	-.385733	.0113340	.0062005	.9307690	5.541949	8.681006
#2	11.01716	-.382764	.0116729	.0067550	.9255781	5.617383	8.802207
#3	10.92847	-.389436	.0112103	.0058117	.9250425	5.632087	8.688305

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: Q1592-01 Acquired: 3/18/2025 14:37:06 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	7.343820	.1116823	.3173416
Stddev	.037476	.0000551	.0026200
%RSD	.5103117	.0493268	.8256019
#1	7.313160	.1117073	.3196705
#2	7.385597	.1117204	.3145049
#3	7.332702	.1116191	.3178494

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2781.145	71137.13	16341.66	2104.342	4348.874
Stddev	16.159	134.03	68.25	2.973	23.894
%RSD	.5810263	.1884167	.4176625	.1412734	.5494226
#1	2788.048	71048.51	16328.74	2101.902	4360.034
#2	2762.680	71071.56	16415.45	2107.653	4321.442
#3	2792.705	71291.33	16280.79	2103.472	4365.146

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: PB167179BL Acquired: 3/18/2025 14:41:10 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	-.000403	-.002377	-.000857	-.000144	.0023176	.0047681	-.000404
Stddev	.001275	.002765	.000507	.003647	.0020896	.0037942	.001052
%RSD	316.1666	116.3348	59.17492	2537.960	90.16308	79.57524	260.3201
#1	-.001874	-.002030	-.000389	.003290	.0047294	.0011540	-.001483
#2	.000397	.000198	-.001397	-.003971	.0011708	.0044304	-.000347
#3	.000267	-.005300	-.000787	.000250	.0010524	.0087199	.000618

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001230	-.000044	-.010682	.0000612	.0001695	-.000144	.0088580
Stddev	.0000251	.000013	.003906	.0004724	.0001440	.000073	.0057381
%RSD	20.42479	28.64377	36.56588	772.4137	84.95502	50.44301	64.77803
#1	.0001326	-.000030	-.010650	.0002851	.0001296	-.000061	.0022578
#2	.0001420	-.000053	-.006792	-.000482	.0000497	-.000197	.0126607
#3	.0000945	-.000049	-.014603	.000380	.0003292	-.000175	.0116557

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002830	.0129392	.0002182	.0005480	.0196967	-.000440	-.000435
Stddev	.000319	.0187711	.0002413	.0001224	.0100468	.000875	.000212
%RSD	11.26287	145.0714	110.5712	22.34399	51.00767	199.0819	48.73416
#1	-.002470	.0005688	.0003338	.0004743	.0084942	.000147	-.000454
#2	-.003075	.0345382	-.000059	.0004803	.0226869	-.001446	-.000214
#3	-.002946	.0037107	.000380	.0006894	.0279088	-.000021	-.000636

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.030663	-.005863	-.000068	-.000555	.0006354	.0010457	-.002789
Stddev	.021340	.000380	.000119	.000375	.0004605	.0023098	.000634
%RSD	69.59705	6.488300	174.0531	67.51445	72.47328	220.8884	22.74387
#1	-.011968	-.005618	-.000064	-.000409	.0006576	-.000622	-.003486
#2	-.053913	-.005669	-.000189	-.000982	.0010845	.000077	-.002247
#3	-.026106	-.006301	.000048	-.000276	.0001643	.003682	-.002634

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: PB167179BL Acquired: 3/18/2025 14:41:10 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	.0029484	-.002702	.0000244
Stddev	.0052883	.000244	.0000284
%RSD	179.3602	9.029530	116.2534
#1	-.001292	-.002546	.0000559
#2	.008874	-.002984	.0000009
#3	.001263	-.002578	.0000165

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2802.399	69139.45	15185.79	2060.072	4975.359
Stddev	4.257	358.02	49.12	20.384	14.943
%RSD	.1519210	.5178211	.3234590	.9894811	.3003461
#1	2797.943	69543.30	15242.29	2083.050	4965.129
#2	2802.829	69014.03	15161.87	2053.002	4968.441
#3	2806.425	68861.01	15153.22	2044.165	4992.508

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: PB167179BS Acquired: 3/18/2025 14:45:29 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	.7465904	1.912145	.9021116	1.891056	.7755730	1.815153
Stddev	.0046966	.012021	.0019304	.011217	.0038995	.008025
%RSD	.6290745	.6286640	.2139908	.5931795	.5027895	.4420988
#1	.7431734	1.905450	.8999292	1.880808	.7715704	1.811927
#2	.7446518	1.904963	.9028098	1.889320	.7757880	1.824289
#3	.7519460	1.926023	.9035957	1.903040	.7793606	1.809244

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2014750	.1752701	.1804022	.8670938	.3922856	.1828452
Stddev	.0007201	.0004249	.0007241	.0044197	.0049390	.0006731
%RSD	.3574071	.2424095	.4013743	.5097185	1.259019	.3681483
#1	.2022769	.1748322	.1798831	.8689699	.3917260	.1823052
#2	.2008837	.1752975	.1800942	.8702661	.3974804	.1826312
#3	.2012645	.1756806	.1812294	.8620455	.3876502	.1835994

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2935657	2.684279	.1793277	1.735320	.4584559	.0721863
Stddev	.0018347	.025454	.0004443	.013844	.0017616	.0007549
%RSD	.6249620	.9482636	.2477491	.7977781	.3842412	1.045708
#1	.2917666	2.687013	.1794862	1.732002	.4571755	.0720773
#2	.2934966	2.708256	.1796709	1.723437	.4577273	.0729897
#3	.2954340	2.657568	.1788259	1.750522	.4604649	.0714918

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.839389	.2636720	.1909091	8.719075	.2450509	.3853033
Stddev	.049780	.0007480	.0020038	.121351	.0009674	.0027731
%RSD	1.753194	.2836942	1.049592	1.391786	.3947665	.7197321
#1	2.843126	.2645303	.1909098	8.753528	.2444606	.3835252
#2	2.887195	.2631588	.1929125	8.819473	.2445249	.3838861
#3	2.787846	.2633269	.1889049	8.584222	.2461674	.3884987

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: PB167179BS Acquired: 3/18/2025 14:45:29 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	.6411762	.1718681	.7530819	5.420045	F -.004739	.1651139
Stddev	.0013252	.0008243	.0082567	.019851	.000754	.0007250
%RSD	.2066876	.4796150	1.096393	.3662519	15.91537	.4391196
#1	.6406402	.1715040	.7617146	5.418494	-.004031	.1656385
#2	.6402030	.1728118	.7522701	5.401015	-.004653	.1654167
#3	.6426855	.1712886	.7452611	5.440626	-.005533	.1642865

Elem	Sr4077
Units	ppm
Avg	.1677181
Stddev	.0009984
%RSD	.5952843
#1	.1685494
#2	.1679941
#3	.1666107

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2799.333	70248.87	14976.27	2080.156	4949.280
Stddev	4.226	544.58	27.78	14.189	3.316
%RSD	.1509753	.7752164	.1854918	.6821223	.0670015
#1	2800.591	70302.74	14978.03	2074.968	4946.981
#2	2802.788	69679.36	15003.12	2069.291	4953.081
#3	2794.621	70764.51	14947.65	2096.209	4947.778

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCV05 Acquired: 3/18/2025 14:49:31 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	4.919950	4.900528	4.791358	4.903472	4.966567	9.410571
Stddev	.008841	.026587	.009089	.008916	.012214	.030964
%RSD	.1796991	.5425258	.1896971	.1818260	.2459252	.3290338
#1	4.928026	4.917374	4.795485	4.911832	4.969964	9.445336
#2	4.921319	4.914332	4.780937	4.904495	4.976724	9.385957
#3	4.910504	4.869879	4.797651	4.894089	4.953014	9.400419

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.79737	.2266868	2.373182	22.91116	1.003221	2.365935
Stddev	.18262	.0011027	.006119	.01539	.000712	.002033
%RSD	1.691333	.4864435	.2578344	.0671892	.0709704	.0859169
#1	10.98476	.2274315	2.379140	22.91322	1.003030	2.367868
#2	10.78740	.2272089	2.366914	22.92542	1.004009	2.363816
#3	10.61993	.2254200	2.373493	22.89484	1.002624	2.366122

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.220403	4.722690	2.361927	22.61620	2.364214	1.232512
Stddev	.002459	.015738	.003857	.01757	.004226	.000319
%RSD	.2014729	.3332461	.1632799	.0777094	.1787408	.0258942
#1	1.223242	4.709932	2.360448	22.62476	2.369025	1.232680
#2	1.218970	4.740277	2.359028	22.62785	2.361104	1.232712
#3	1.218997	4.717861	2.366304	22.59598	2.362512	1.232144

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.05053	2.306897	2.443414	23.87406	F 4.473342	4.904376
Stddev	.03987	.000758	.006819	.04279	.017084	.011433
%RSD	.1591615	.0328384	.2790933	.1792501	.3819108	.2331118
#1	25.02764	2.307032	2.450888	23.83205	4.491016	4.916602
#2	25.02738	2.307577	2.437531	23.87254	4.472093	4.902577
#3	25.09657	2.306080	2.441822	23.91759	4.456917	4.893950

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCV05 Acquired: 3/18/2025 14:49:31 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	4.781896	4.512334	5.189807	4.922227	4.748794	F 4.300914
Stddev	.011264	.004926	.022967	.004692	.008358	.008745
%RSD	.2355642	.1091683	.4425401	.0953325	.1760104	.2033249
#1	4.794404	4.517992	5.166566	4.927643	4.757451	4.310219
#2	4.772552	4.509001	5.190367	4.919640	4.748162	4.292866
#3	4.778731	4.510008	5.212490	4.919397	4.740770	4.299656

Elem	Sr4077
Units	ppm
Avg	4.525551
Stddev	.027842
%RSD	.6152180
#1	4.550283
#2	4.530972
#3	4.495397

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2730.969	67599.74	14670.86	2019.942	4614.968
Stddev	2.311	202.51	48.64	2.787	3.836
%RSD	.0846353	.2995712	.3315120	.1379828	.0831245
#1	2728.640	67757.68	14658.42	2018.156	4614.030
#2	2731.005	67371.44	14629.66	2018.517	4619.186
#3	2733.262	67670.12	14724.51	2023.154	4611.688

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCB05 Acquired: 3/18/2025 14:53:41 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	.0012667	-.001141	-.000120	-.000787	.0013572	-.001388	.0008297
Stddev	.0011720	.000472	.000140	.002474	.0010953	.005074	.0008044
%RSD	92.52428	41.32416	116.8164	314.1273	80.70187	365.5921	96.95090
#1	.0026195	-.000686	-.000120	.001522	.0017924	-.005649	.0008271
#2	.0006199	-.001110	.000020	-.003398	.0001112	.004226	.0016353
#3	.0005606	-.001628	-.000259	-.000486	.0021681	-.002741	.0000266

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000778	.0000436	-.010381	.0001950	-.000057	.0000882	.0026112
Stddev	.0000369	.0001044	.002435	.0001863	.000204	.0004753	.0035891
%RSD	47.37659	239.7296	23.45132	95.54754	359.9877	538.8364	137.4480
#1	.0001072	-.000040	-.011256	-.000006	.000110	-.000460	.0067535
#2	.0000899	.000161	-.012258	.000362	.000005	.000385	.0004250
#3	.0000364	.000009	-.007630	.000229	-.000284	.000339	.0006553

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002750	.0033790	.0002937	.0005400	.0030565	-.000431	-.000026
Stddev	.000263	.0062394	.0002991	.0004314	.0065411	.000722	.000237
%RSD	9.548032	184.6537	101.8355	79.89502	214.0050	167.4225	925.8910
#1	-.002925	.0069860	.0006239	.0007013	.0093603	-.001201	-.000062
#2	-.002878	-.003826	.0002161	.0008675	.0035080	.000230	.000227
#3	-.002448	.006977	.0000411	.0000512	-.003699	-.000323	-.000242

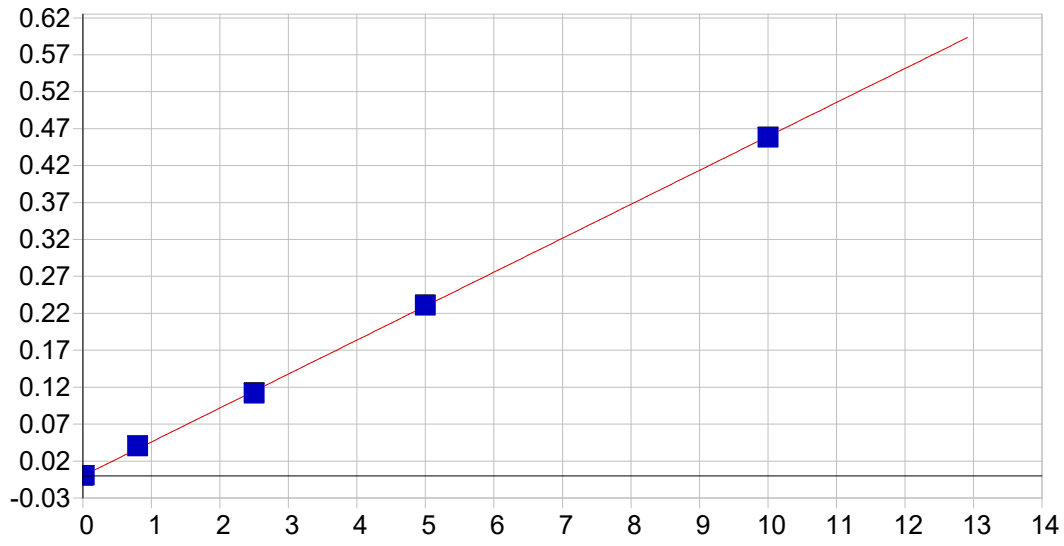
Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.054603	.0002067	.0002802	-.000714	.0008288	.0032393	-.004478
Stddev	.015390	.0001857	.0000348	.000395	.0003313	.0046469	.002405
%RSD	28.18488	89.79795	12.41901	55.29926	39.97855	143.4558	53.70126
#1	-.070087	-.000004	.0002498	-.000667	.0004862	.0034265	-.006998
#2	-.054413	.000344	.0002727	-.001131	.0011476	.0077897	-.002208
#3	-.039309	.000281	.0003182	-.000345	.0008525	-.001498	-.004228

Reviewed By:jaswal
On:3/20/2025 11:14:55 AM
Inst Id :P4
LB :LB135083

Sample Name: CCB05 Acquired: 3/18/2025 14:53:41 Type: Unk
Method: NON EPA-6010-200.7(v2821) 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	-.000658	-.003154	.0001342
Stddev	.003149	.000863	.0000292
%RSD	478.7949	27.36177	21.80310
#1	.001340	-.002543	.0001241
#2	-.004287	-.002778	.0001671
#3	.000974	-.004141	.0001113

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2833.302	72109.85	15024.35	2155.037	5064.794
Stddev	6.802	352.35	72.45	9.501	11.542
%RSD	.2400866	.4886255	.4821947	.4408588	.2278848
#1	2826.262	71757.74	15082.81	2144.526	5051.929
#2	2839.838	72462.43	14943.30	2163.012	5068.212
#3	2833.805	72109.39	15046.94	2157.574	5074.241

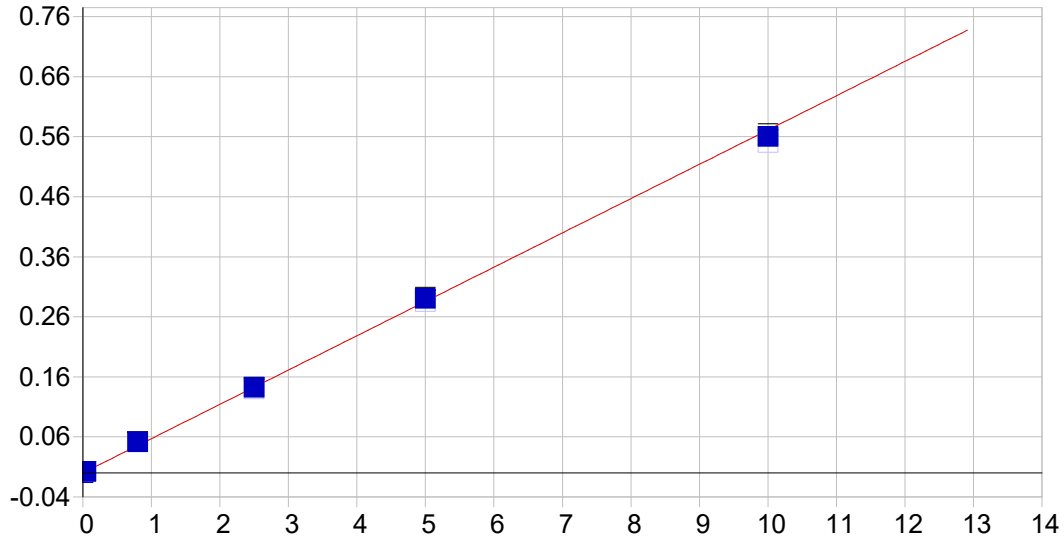


As 189.042 {479}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000045	Re-Slope:	1.000000
A1 (Gain):	0.045954	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999745	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.002665		
Predicted MQL:	0.008884		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00004	.000	1
S1	.02000	.02056	.001	2.79	.00090	.000	1
S3	2.5000	2.4337	-.066	-2.65	.11167	.001	1
S4	5.0000	5.0203	.020	.407	.23041	.001	1
S5	10.000	9.9686	-.031	-.314	.45756	.001	1
S2	.80000	.87676	.077	9.59	.04021	.000	1

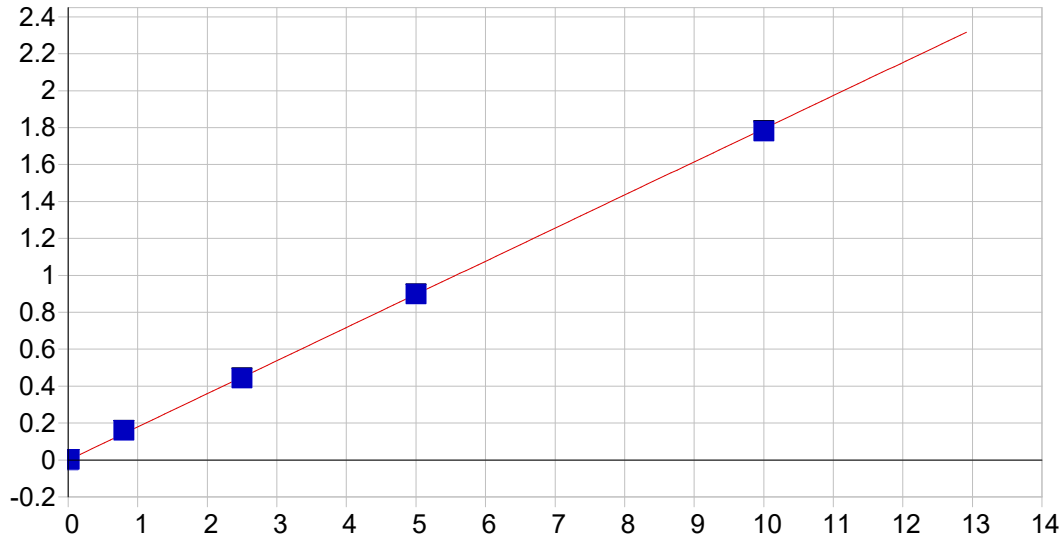


Tl 190.856 {477}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000018	Re-Slope:	1.000000
A1 (Gain):	0.057115	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999439	Status:	OK.
Std Error of Est:	0.000062		
Predicted MDL:	0.001856		
Predicted MQL:	0.006187		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00002	.000	1
S1	.04000	.04179	.002	4.47	.00222	.000	1
S3	2.5000	2.4918	-.008	-.326	.13967	.001	1
S4	5.0000	5.0846	.085	1.69	.28513	.002	1
S5	10.000	9.8130	-.187	-1.87	.54993	.004	1
S2	.80000	.90889	.109	13.6	.05105	.000	1

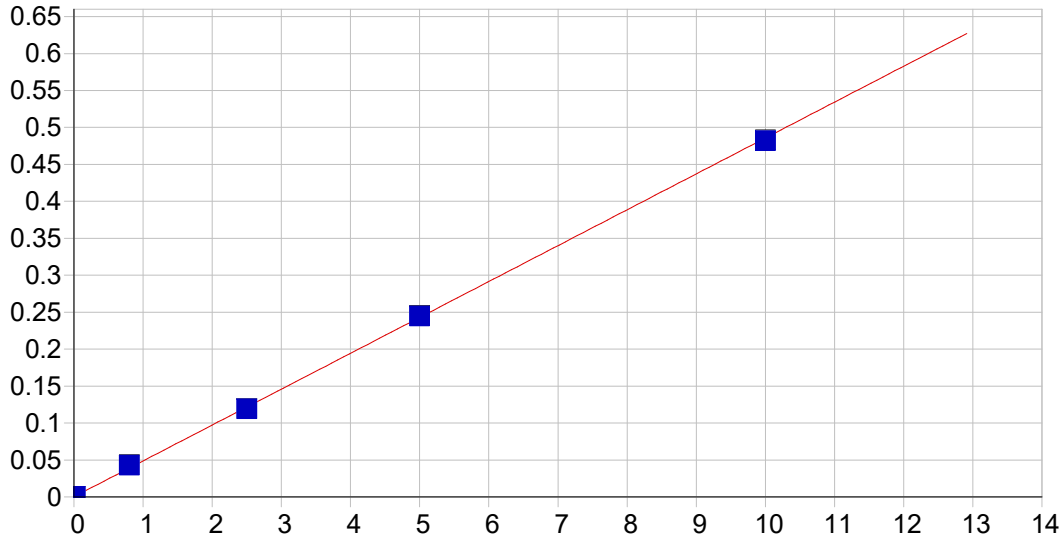


Pb 220.353 {453}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000093	Re-Slope:	1.000000
A1 (Gain):	0.179419	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999694	Status:	OK.
Std Error of Est:	0.000080		
Predicted MDL:	0.001462		
Predicted MQL:	0.004875		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00009	.000	1
S1	.01200	.01244	.000	3.68	.00210	.000	1
S3	2.5000	2.4688	-.031	-1.25	.44236	.002	1
S4	5.0000	5.0084	.008	.168	.89752	.001	1
S5	10.000	9.9316	-.068	-.684	1.7799	.003	1
S2	.80000	.89078	.091	11.3	.15957	.001	1

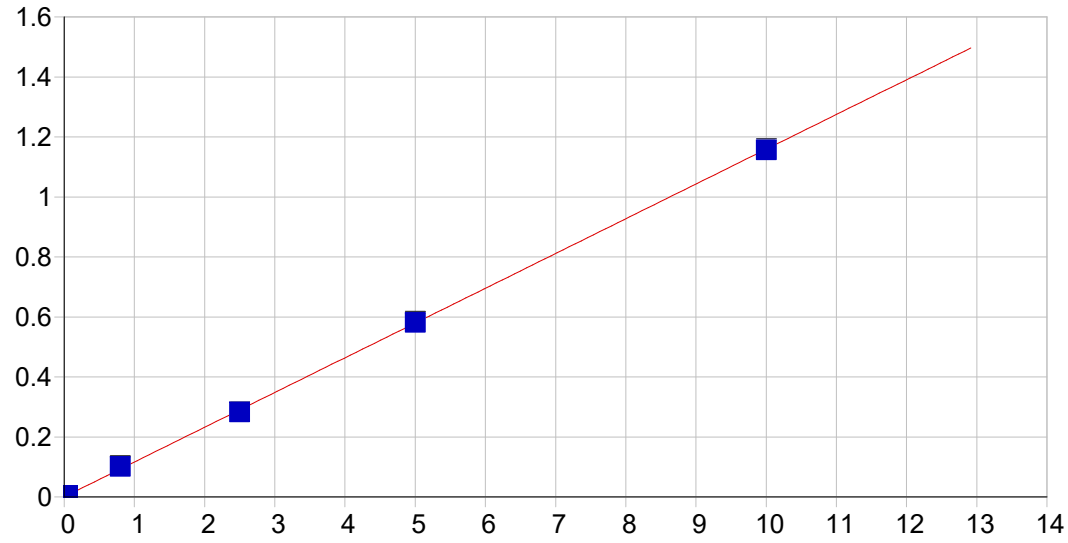


Se 196.090 {472}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000160	Re-Slope:	1.000000
A1 (Gain):	0.048554	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999723	Status:	OK.
Std Error of Est:	0.000027		
Predicted MDL:	0.003082		
Predicted MQL:	0.010273		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00016	.000	1
S1	.02000	.02191	.002	9.57	.00122	.000	1
S3	2.5000	2.4526	-.047	-1.90	.11920	.000	1
S4	5.0000	5.0390	.039	.781	.24474	.001	1
S5	10.000	9.9255	-.074	-.745	.48191	.001	1
S2	.80000	.88094	.081	10.1	.04292	.001	1

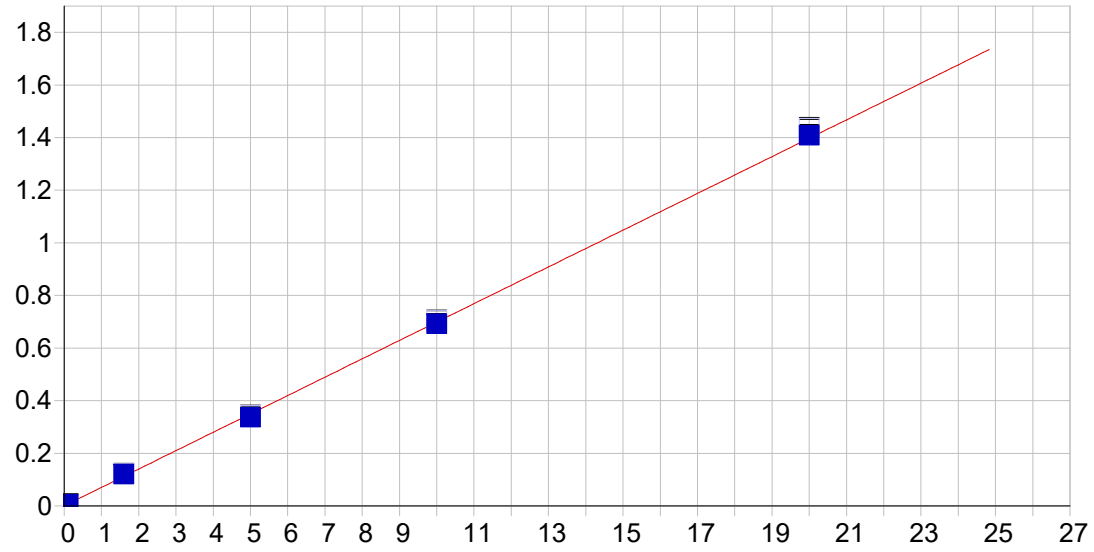


Sb 206.833 {463}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000391	Re-Slope:	1.000000
A1 (Gain):	0.115842	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999769	Status:	OK.
Std Error of Est:	0.000092		
Predicted MDL:	0.001944		
Predicted MQL:	0.006480		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00039	.000	1
S1	.05000	.05049	.000	.979	.00625	.000	1
S3	2.5000	2.4364	-.064	-2.55	.28341	.001	1
S4	5.0000	5.0135	.014	.270	.58274	.002	1
S5	10.000	9.9759	-.024	-.241	1.1592	.002	1
S2	.80000	.87369	.074	9.21	.10185	.001	1

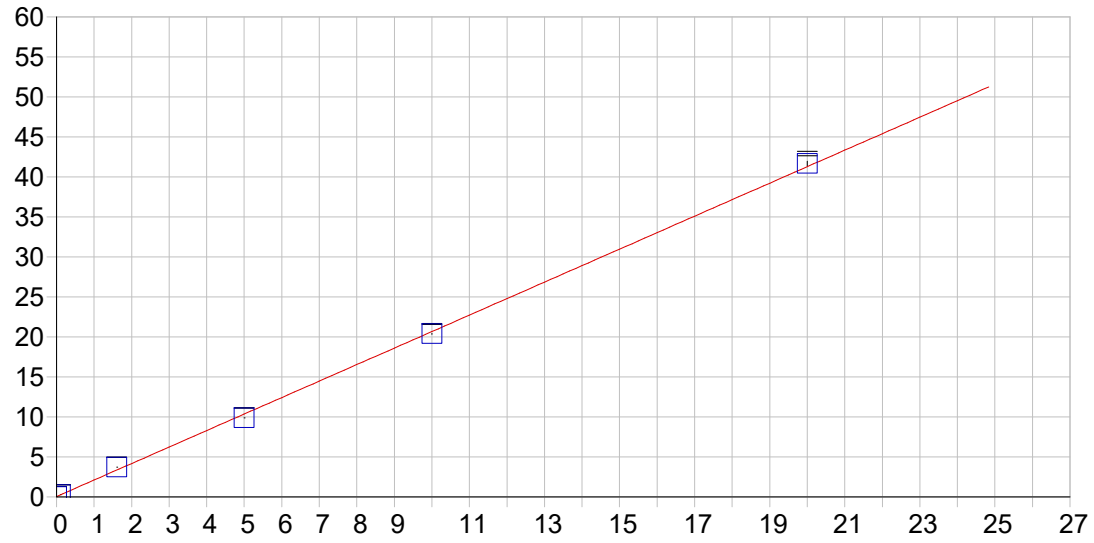


Al 396.152 { 85}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000500	Re-Slope:	1.000000
A1 (Gain):	0.069845	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999760	Status:	OK.
Std Error of Est:	0.000116		
Predicted MDL:	0.007042		
Predicted MQL:	0.023475		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00050	.000	1
S1	.10000	.09357	-.006	-6.43	.00758	.000	1
S3	5.0000	4.8250	-.175	-3.50	.34428	.001	1
S4	10.000	9.9024	-.098	-.976	.70568	.002	1
S5	20.000	20.155	.155	.777	1.4353	.004	1
S2	1.6000	1.7239	.124	7.74	.12307	.001	1

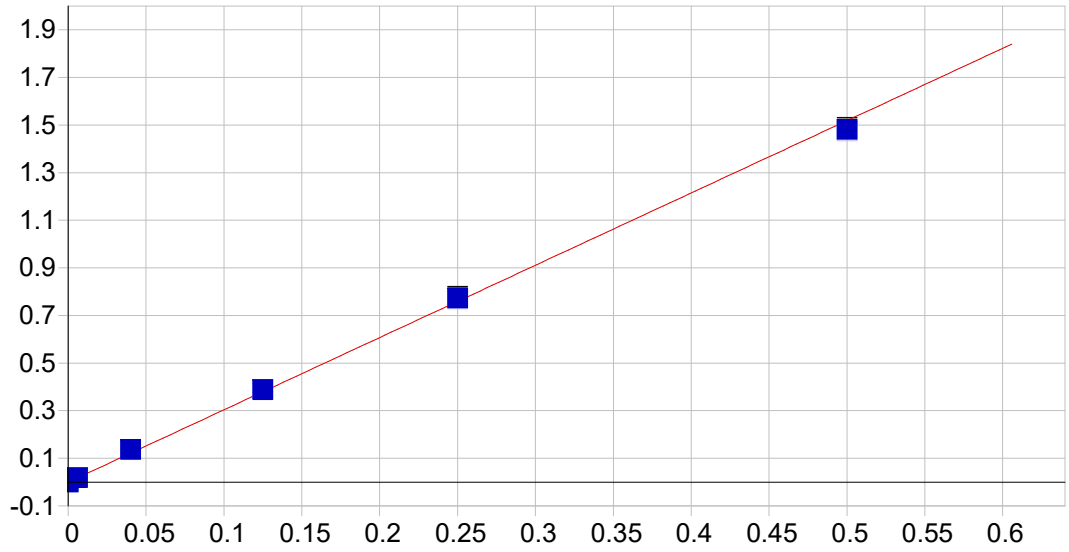


Ba 493.409 { 68}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.049059	Re-Slope:	1.000000
A1 (Gain):	2.061558	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999549	Status:	OK.
Std Error of Est:	0.004593		
Predicted MDL:	0.000880		
Predicted MQL:	0.002934		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.04904	.002	1
S1	.10000	.10306	.003	3.06	.26153	.001	1
S3	5.0000	4.7697	-.230	-4.61	9.8820	.016	1
S4	10.000	9.8672	-.133	-1.33	20.391	.065	1
S5	20.000	20.186	.186	.930	41.664	.280	1
S2	1.6000	1.7741	.174	10.9	3.7064	.005	1

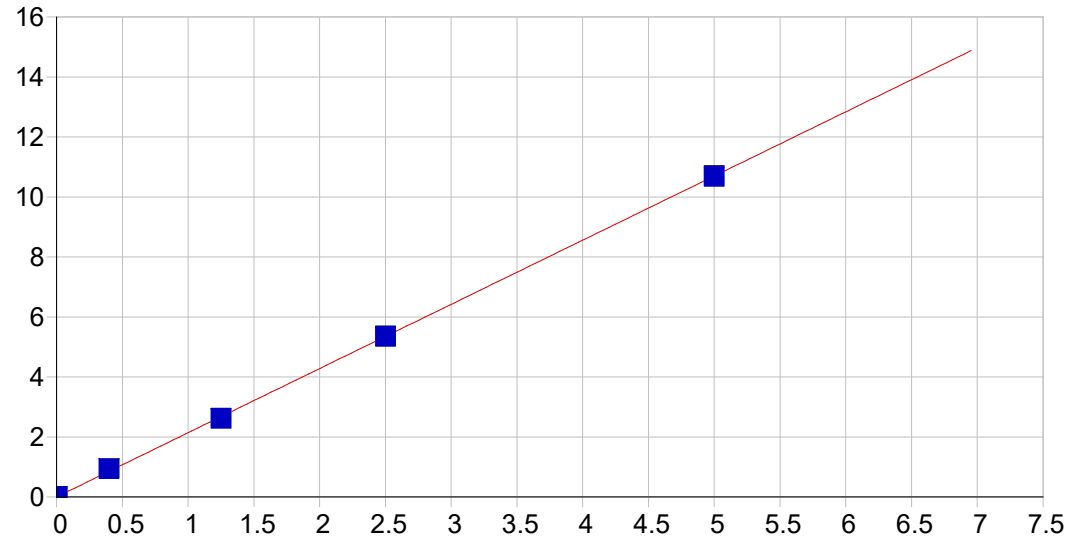


Be 234.861 {144}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000184	Re-Slope:	1.000000
A1 (Gain):	3.037536	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999428	Status:	OK.
Std Error of Est:	0.000294		
Predicted MDL:	0.000082		
Predicted MQL:	0.000273		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00019	.000	1
S1	.00600	.00628	.000	4.60	.01874	.000	1
S3	.12500	.12771	.003	2.17	.38605	.002	1
S4	.25000	.25433	.004	1.73	.76894	.008	1
S5	.50000	.48779	-.012	-2.44	1.4747	.008	1
S2	.04000	.04490	.005	12.2	.13565	.001	1

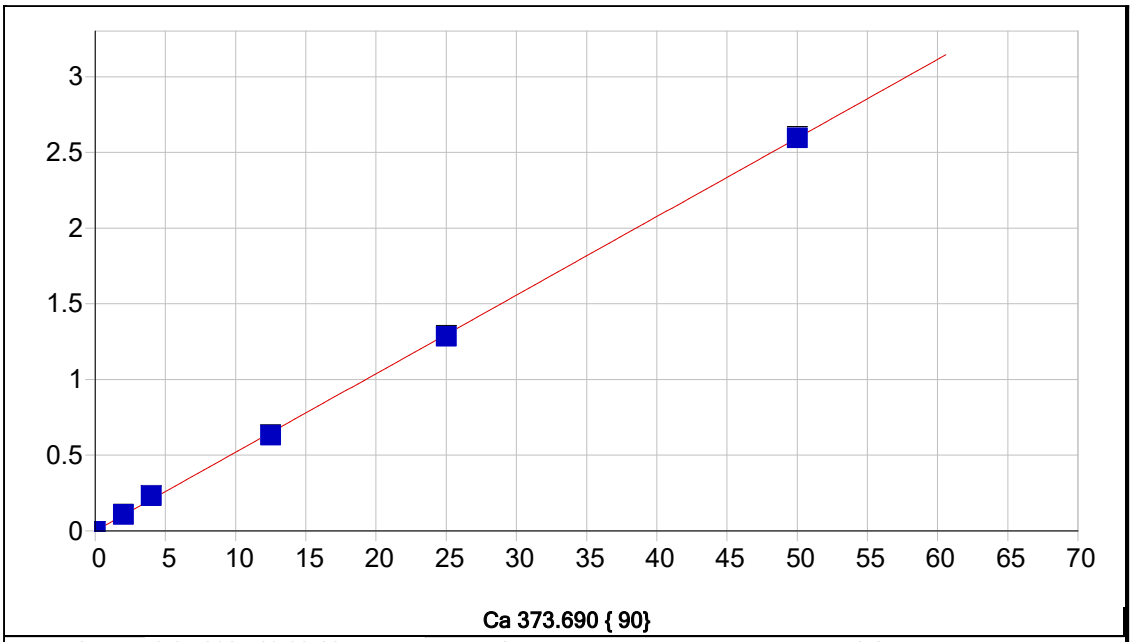


Cd 226.502 {449}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000148	Re-Slope:	1.000000
A1 (Gain):	2.139374	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999735	Status:	OK.
Std Error of Est:	0.000448		
Predicted MDL:	0.000084		
Predicted MQL:	0.000282		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00015	.000	1
S1	.00600	.00584	-.000	-2.69	.01271	.000	1
S3	1.2500	1.2199	-.030	-2.40	2.6124	.008	1
S4	2.5000	2.4986	-.001	-.055	5.3504	.012	1
S5	5.0000	4.9910	-.009	-.181	10.687	.020	1
S2	.40000	.44062	.041	10.2	.94355	.008	1

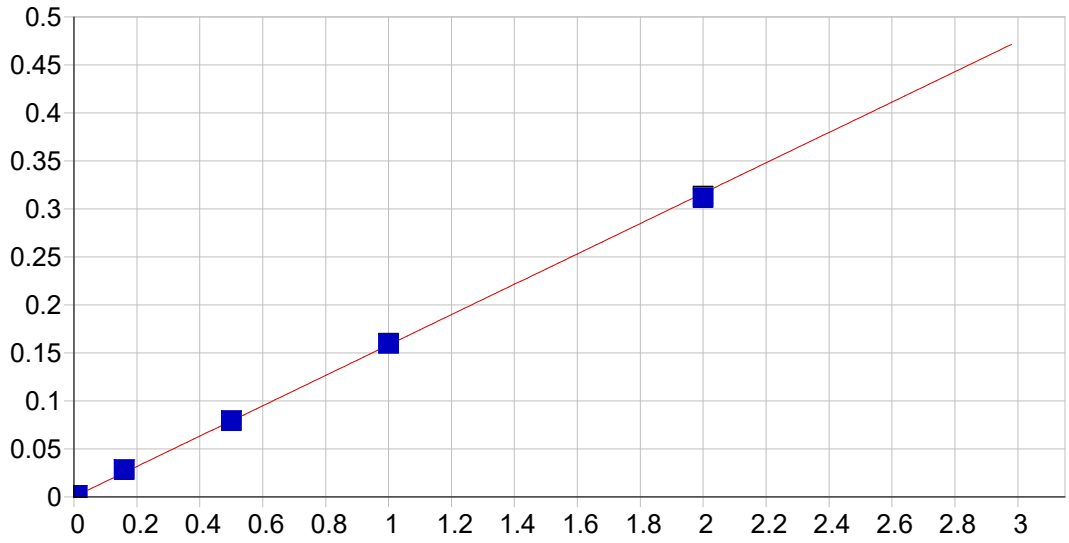


Ca 373.690 { 90}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000653	Re-Slope:	1.000000
A1 (Gain):	0.051887	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999605	Status:	OK.
Std Error of Est:	0.000772		
Predicted MDL:	0.008806		
Predicted MQL:	0.029354		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00025	-.000	.000	.00064	.000	1
S2	4.0000	4.4879	.488	12.2	.23352	.000	1
S3	12.500	12.170	-.330	-2.64	.63209	.001	1
S4	25.000	24.737	-.263	-1.05	1.2842	.007	1
S5	50.000	50.029	.029	.059	2.5965	.008	1
S1	2.0000	2.0760	.076	3.80	.10837	.001	1

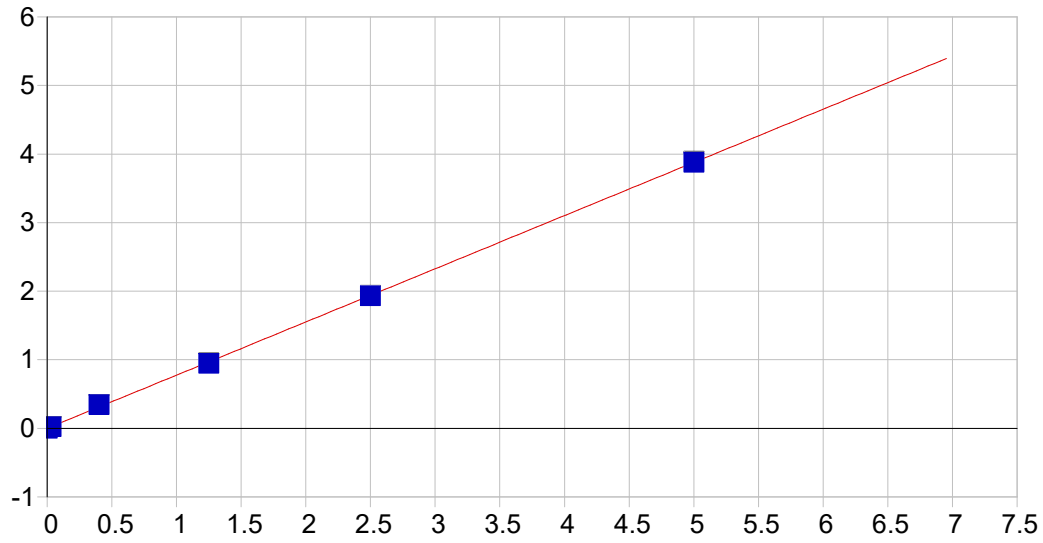


Cr 267.716 {126}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000075	Re-Slope:	1.000000
A1 (Gain):	0.158163	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999614	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	0.000395		
Predicted MQL:	0.001315		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00007	.000	1
S1	.01000	.00978	-.000	-2.17	.00162	.000	1
S3	.50000	.50115	.001	.230	.07936	.000	1
S4	1.0000	1.0092	.009	.916	.15973	.000	1
S5	2.0000	1.9707	-.029	-1.47	.31185	.001	1
S2	.16000	.17926	.019	12.0	.02843	.000	1

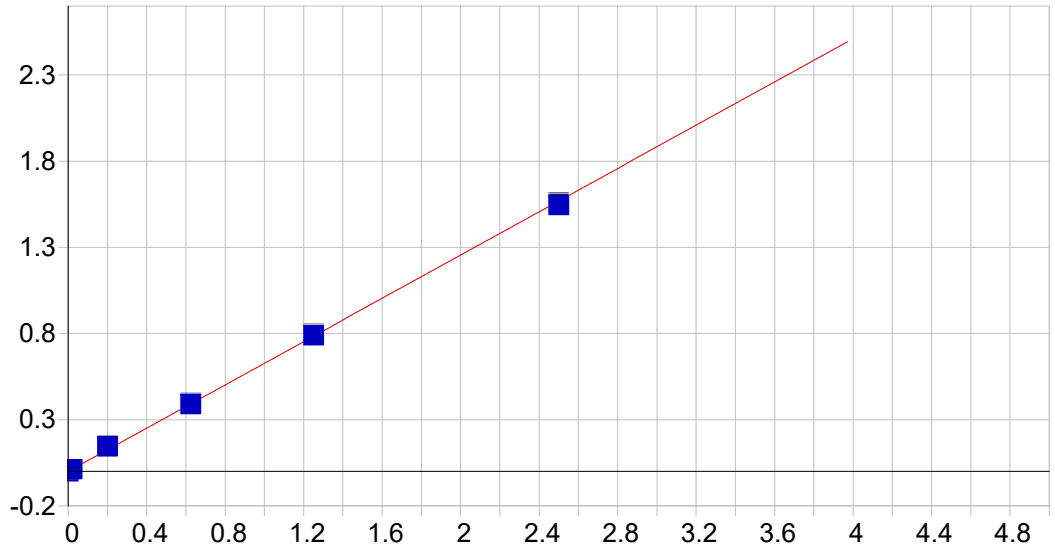


Co 228.616 {448}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000097	Re-Slope:	1.000000
A1 (Gain):	0.775578	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999714	Status:	OK.
Std Error of Est:	0.000377		
Predicted MDL:	0.000247		
Predicted MQL:	0.000822		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00009	.000	1
S1	.03000	.02989	-.000	-.366	.02318	.000	1
S3	1.2500	1.2199	-.030	-2.41	.94785	.004	1
S4	2.5000	2.4885	-.011	-.459	1.9334	.005	1
S5	5.0000	4.9993	-.001	-.013	3.8841	.011	1
S2	.40000	.44237	.042	10.6	.34372	.003	1

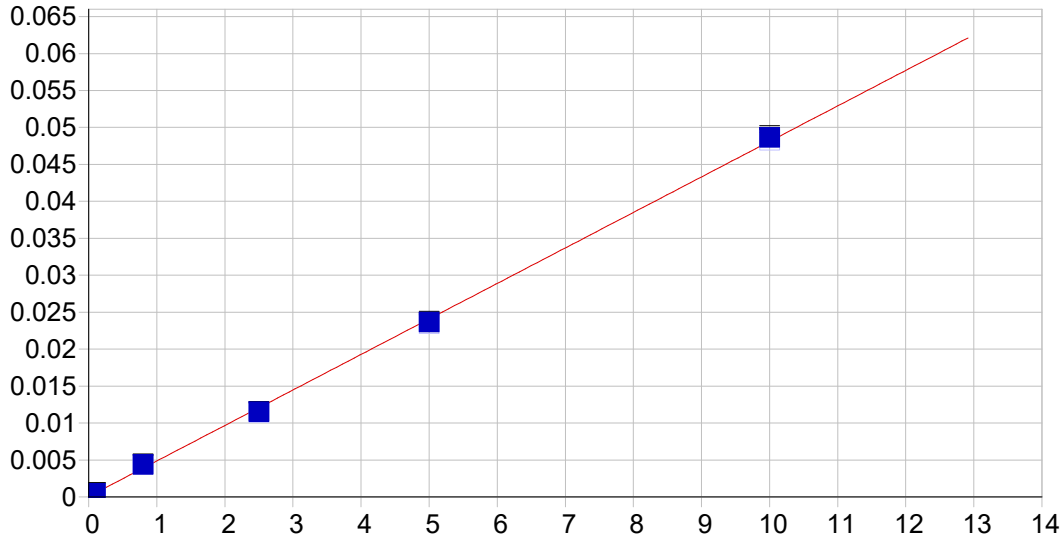


Cu 224.700 {450}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000337	Re-Slope:	1.000000
A1 (Gain):	0.627879	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999382	Status:	OK.
Std Error of Est:	0.000261		
Predicted MDL:	0.000424		
Predicted MQL:	0.001412		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00034	.000	1
S1	.02000	.02247	.002	12.3	.01389	.000	1
S3	.62500	.62302	-.002	-.317	.39363	.001	1
S4	1.2500	1.2580	.008	.644	.79513	.002	1
S5	2.5000	2.4606	-.039	-1.58	1.5557	.002	1
S2	.20000	.23090	.031	15.5	.14553	.001	1

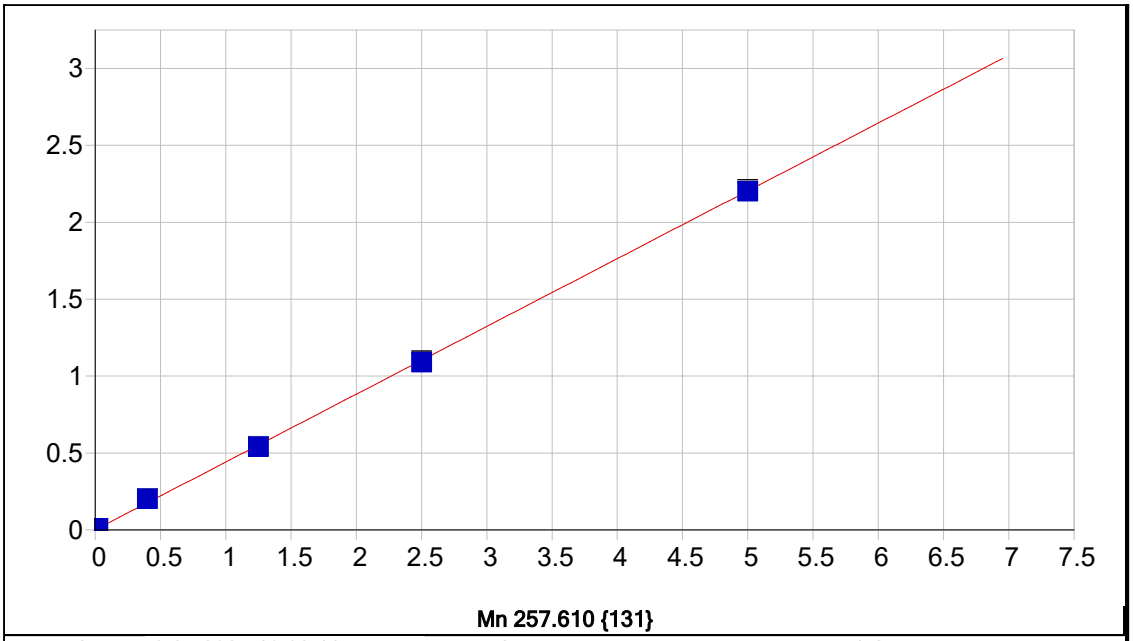


Fe 240.488 {140}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000056	Re-Slope:	1.000000
A1 (Gain):	0.004805	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999403	Status:	OK.
Std Error of Est:	0.000009		
Predicted MDL:	0.004537		
Predicted MQL:	0.015125		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00006	.000	1
S1	.10000	.09870	-.001	-1.30	.00052	.000	1
S3	2.5000	2.3817	-.118	-4.73	.01140	.000	1
S4	5.0000	4.9074	-.093	-1.85	.02343	.000	1
S5	10.000	10.110	.110	1.10	.04823	.000	1
S2	.80000	.90224	.102	12.8	.00436	.000	1

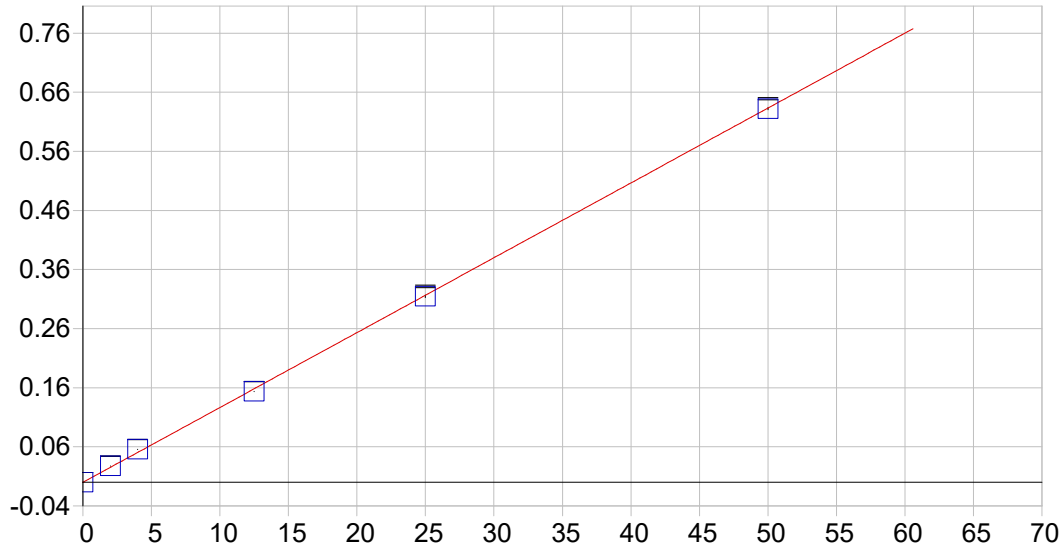


Mn 257.610 {131}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000607	Re-Slope:	1.000000
A1 (Gain):	0.440802	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999519	Status:	OK.
Std Error of Est:	0.000227		
Predicted MDL:	0.000383		
Predicted MQL:	0.001276		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00061	.000	1
S1	.02000	.02061	.001	3.07	.00970	.000	1
S3	1.2500	1.2269	-.023	-1.85	.54154	.002	1
S4	2.5000	2.4713	-.029	-1.15	1.0902	.008	1
S5	5.0000	4.9945	-.006	-.111	2.2026	.009	1
S2	.40000	.45675	.057	14.2	.20198	.000	1

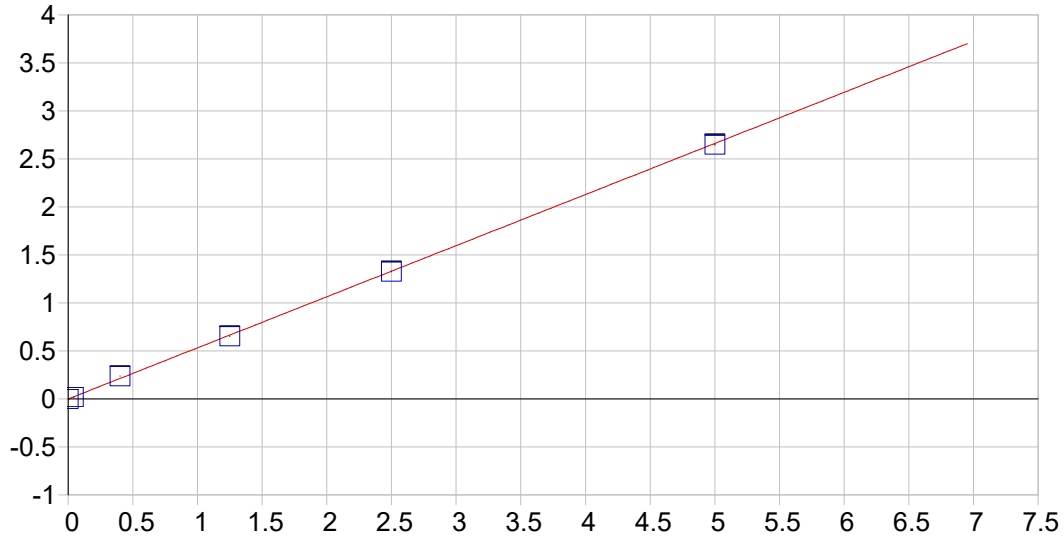


Mg 279.079 {121}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000152	Re-Slope:	1.000000
A1 (Gain):	0.012668	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999638	Status:	OK.
Std Error of Est:	0.000180		
Predicted MDL:	0.014791		
Predicted MQL:	0.049304		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00031	-.000	.000	-.00016	.000	1
S2	4.0000	4.4041	.404	10.1	.05564	.000	1
S3	12.500	12.144	-.356	-2.85	.15369	.000	1
S4	25.000	24.856	-.144	-.577	.31472	.002	1
S5	50.000	49.919	-.081	-.162	.63221	.002	1
S1	2.0000	2.1770	.177	8.85	.02743	.000	1

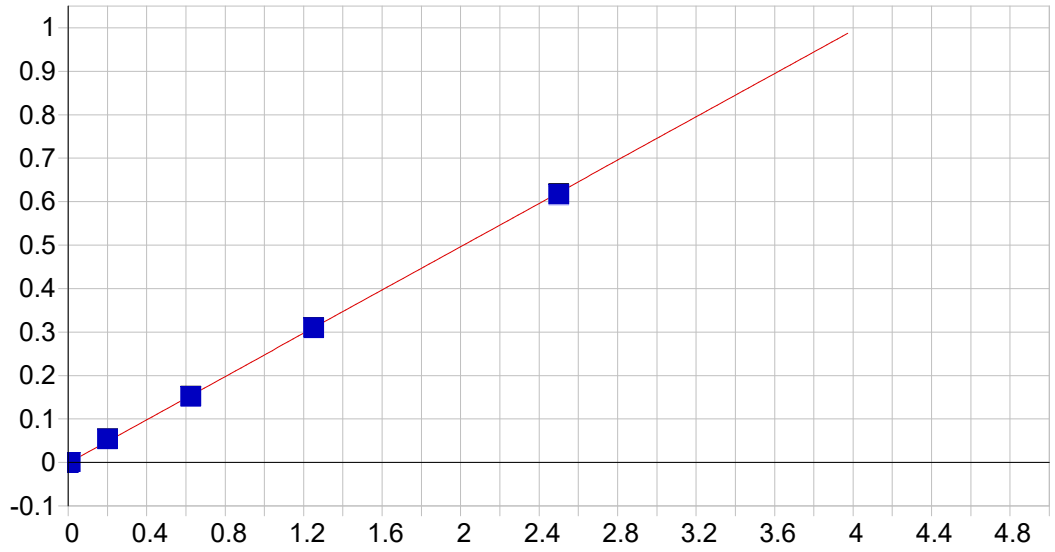


Ni 231.604 {446}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000235	Re-Slope:	1.000000
A1 (Gain):	0.532303	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999669	Status:	OK.
Std Error of Est:	0.000322		
Predicted MDL:	0.000337		
Predicted MQL:	0.001123		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00024	.000	1
S1	.04000	.04008	.000	.189	.02110	.000	1
S3	1.2500	1.2286	-.021	-1.71	.65375	.003	1
S4	2.5000	2.4947	-.005	-.212	1.3277	.004	1
S5	5.0000	4.9792	-.021	-.416	2.6502	.007	1
S2	.40000	.44744	.047	11.9	.23794	.002	1

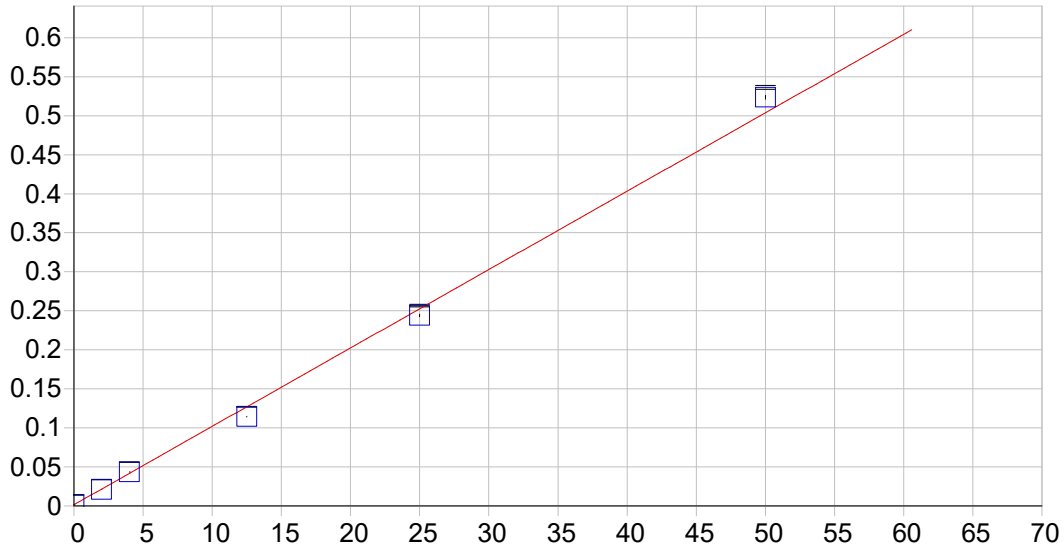


Ag 328.068 {103}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001468	Re-Slope:	1.000000
A1 (Gain):	0.248942	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999672	Status:	OK.
Std Error of Est:	0.000053		
Predicted MDL:	0.000363		
Predicted MQL:	0.001212		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00147	.000	1
S1	.01000	.01037	.000	3.66	.00109	.000	1
S3	.62500	.61680	-.008	-1.31	.15146	.000	1
S4	1.2500	1.2506	.001	.049	.30863	.000	1
S5	2.5000	2.4837	-.016	-.651	.61437	.002	1
S2	.20000	.22348	.023	11.7	.05397	.000	1

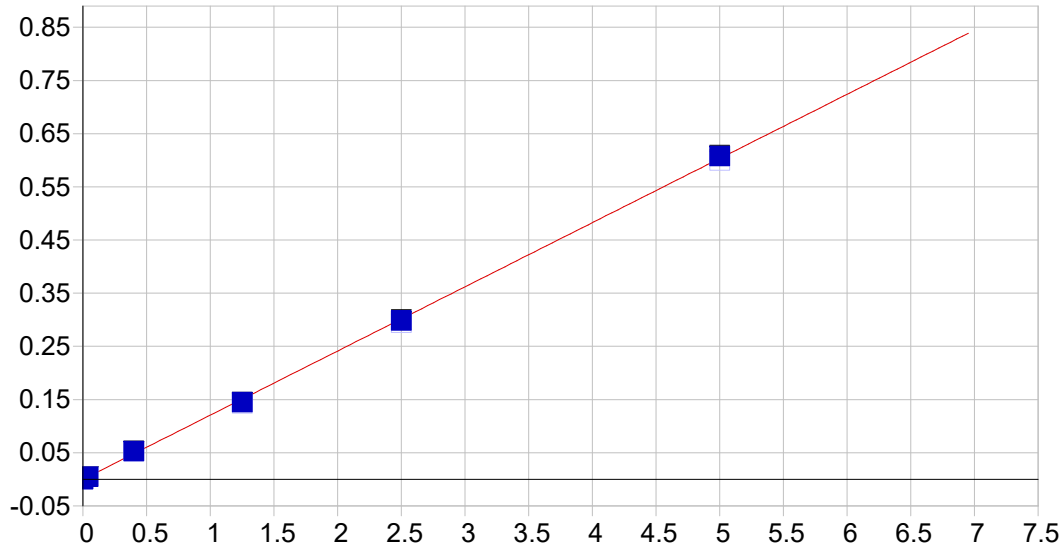


Na 589.592 { 57}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001487	Re-Slope:	1.000000
A1 (Gain):	0.010044	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998709	Status:	OK.
Std Error of Est:	0.000270		
Predicted MDL:	0.018254		
Predicted MQL:	0.060847		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00016	.000	.000	.00149	.000	1
S2	4.0000	4.1646	.165	4.12	.04332	.000	1
S3	12.500	11.252	-1.25	-9.98	.11450	.001	1
S4	25.000	24.139	-.861	-3.44	.24394	.002	1
S5	50.000	51.994	1.99	3.99	.52372	.002	1
S1	2.0000	1.9496	-.050	-2.52	.02107	.000	1

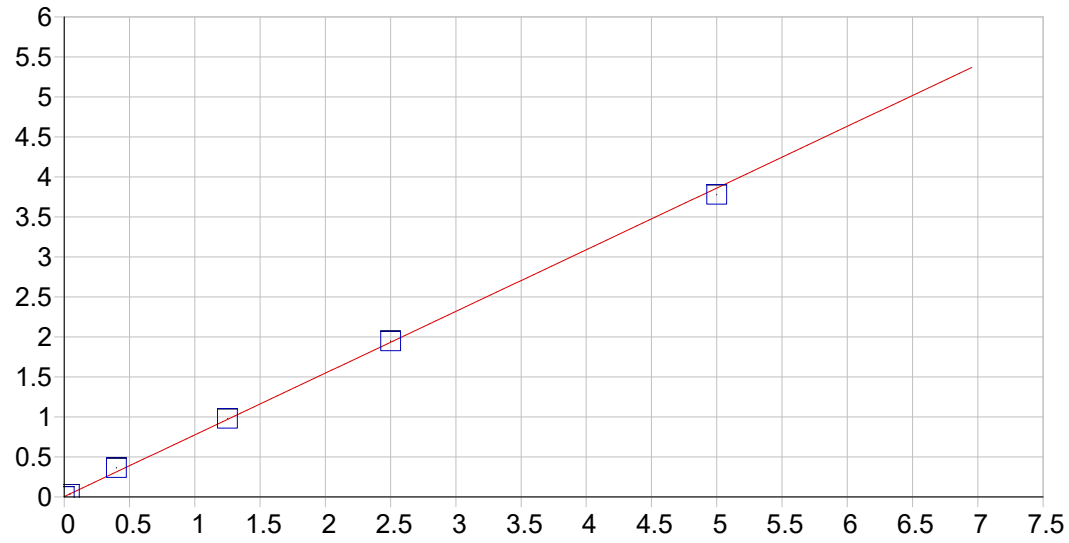


V 292.402 {115}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000045	Re-Slope:	1.000000
A1 (Gain):	0.120684	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999661	Status:	OK.
Std Error of Est:	0.000073		
Predicted MDL:	0.001727		
Predicted MQL:	0.005757		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00005	.000	1
S1	.04000	.04119	.001	2.97	.00475	.000	1
S3	1.2500	1.2011	-.049	-3.91	.14271	.000	1
S4	2.5000	2.4723	-.028	-1.11	.29393	.002	1
S5	5.0000	5.0380	.038	.761	.59917	.001	1
S2	.40000	.43741	.037	9.35	.05204	.000	1

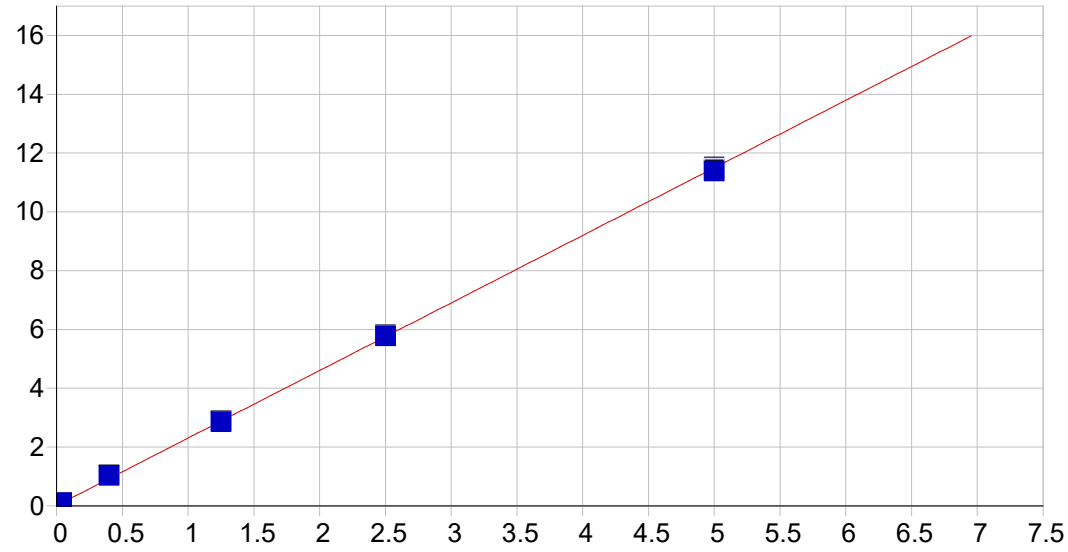


Zn 206.200 {464}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003377	Re-Slope:	1.000000
A1 (Gain):	0.771338	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999241	Status:	OK.
Std Error of Est:	0.000706		
Predicted MDL:	0.000208		
Predicted MQL:	0.000694		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00337	.000	1
S1	.04000	.04241	.002	6.02	.03609	.000	1
S3	1.2500	1.2647	.015	1.18	.97891	.002	1
S4	2.5000	2.5212	.021	.848	1.9481	.004	1
S5	5.0000	4.8946	-.105	-2.11	3.7788	.003	1
S2	.40000	.46707	.067	16.8	.36365	.003	1

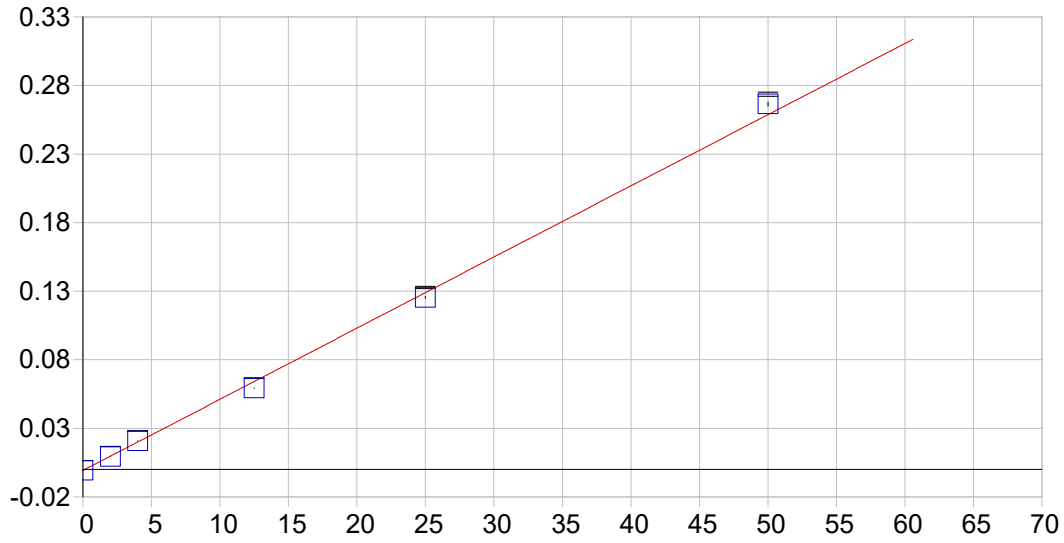


Zn 213.856 {158}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.011294	Re-Slope:	1.000000
A1 (Gain):	2.297352	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999663	Status:	OK.
Std Error of Est:	0.001410		
Predicted MDL:	0.000318		
Predicted MQL:	0.001059		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.01128	.001	1
S1	.04000	.04190	.002	4.76	.10821	.002	1
S3	1.2500	1.2415	-.008	-.679	2.8834	.011	1
S4	2.5000	2.5085	.008	.340	5.8141	.011	1
S5	5.0000	4.9507	-.049	-.987	11.465	.057	1
S2	.40000	.44743	.047	11.9	1.0456	.003	1

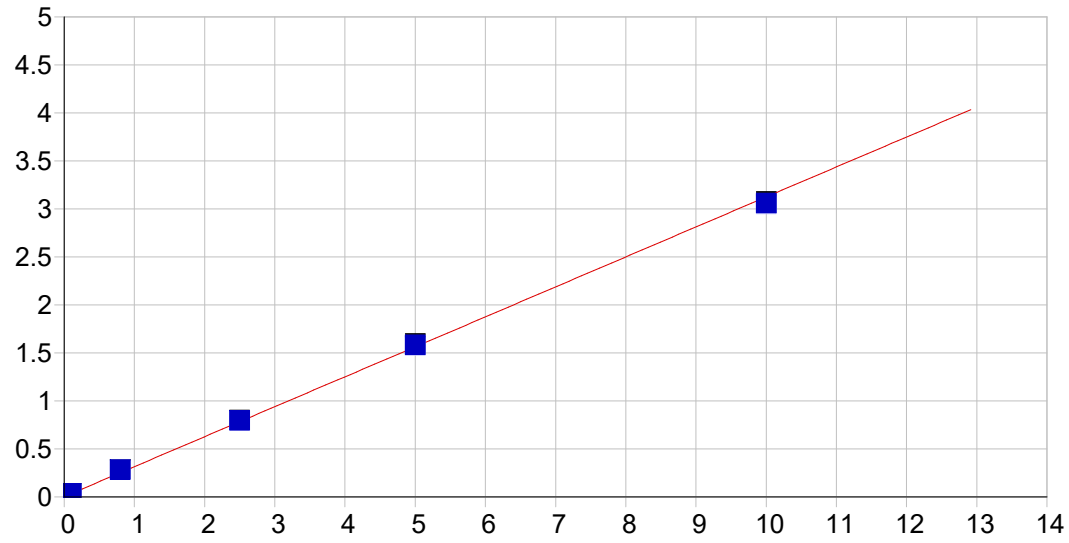


K 766.490 { 44}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000740	Re-Slope:	1.000000
A1 (Gain):	0.005189	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999240	Status:	OK.
Std Error of Est:	0.000107		
Predicted MDL:	0.035069		
Predicted MQL:	0.116897		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00010	.000	.000	-.00074	.000	1
S2	4.0000	4.1708	.171	4.27	.02090	.000	1
S3	12.500	11.559	-.941	-7.53	.05924	.000	1
S4	25.000	24.317	-.683	-2.73	.12543	.001	1
S5	50.000	51.493	1.49	2.99	.26644	.002	1
S1	2.0000	1.9593	-.041	-2.04	.00943	.000	1

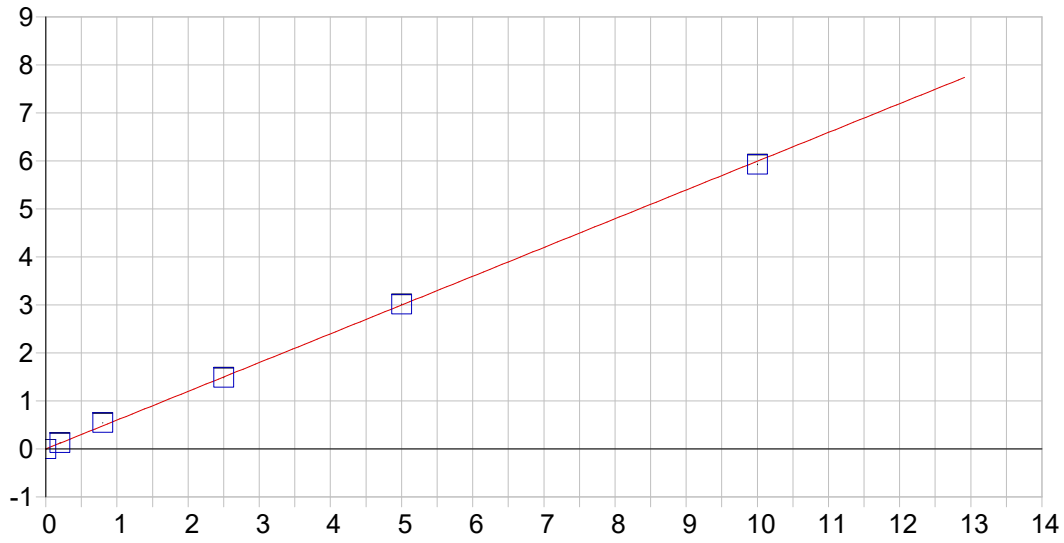


B 249.678 {135}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002751	Re-Slope:	1.000000
A1 (Gain):	0.312154	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999513	Status:	OK.
Std Error of Est:	0.000510		
Predicted MDL:	0.000784		
Predicted MQL:	0.002612		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00275	.000	1
S1	.10000	.10610	.006	6.10	.03569	.000	1
S3	2.5000	2.5412	.041	1.65	.79334	.004	1
S4	5.0000	5.0593	.059	1.19	1.5767	.015	1
S5	10.000	9.7959	-.204	-2.04	3.0499	.016	1
S2	.80000	.89751	.098	12.2	.28206	.001	1

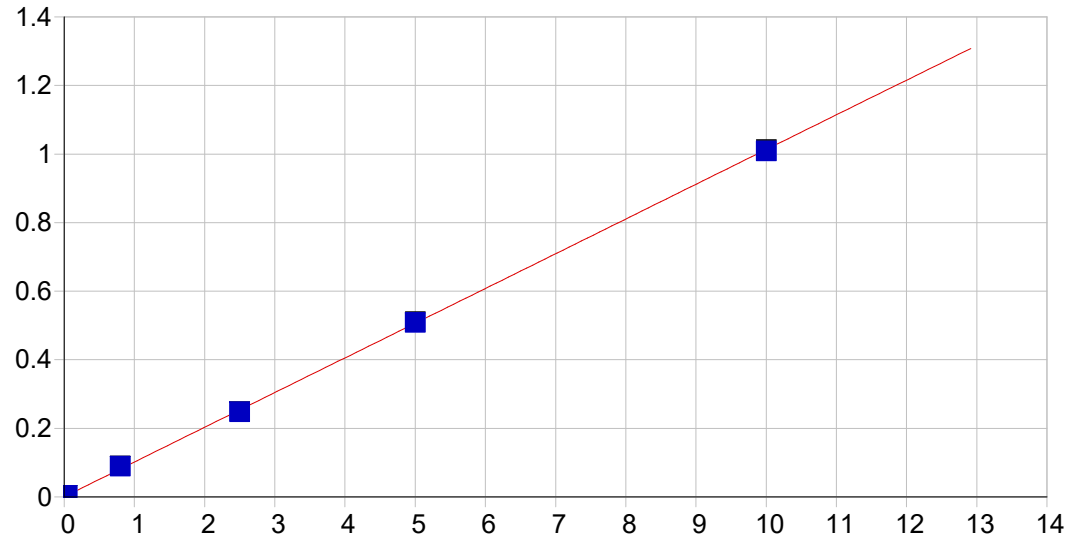


Mo 202.030 {467}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000216	Re-Slope:	1.000000
A1 (Gain):	0.599374	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999564	Status:	OK.
Std Error of Est:	0.001318		
Predicted MDL:	0.000279		
Predicted MQL:	0.000931		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	.00020	.000	1
S1	.20000	.20622	.006	3.11	.12382	.000	1
S3	2.5000	2.4806	-.019	-.777	1.4870	.006	1
S4	5.0000	5.0236	.024	.472	3.0112	.008	1
S5	10.000	9.8826	-.117	-1.17	5.9236	.007	1
S2	.80000	.90698	.107	13.4	.54384	.006	1

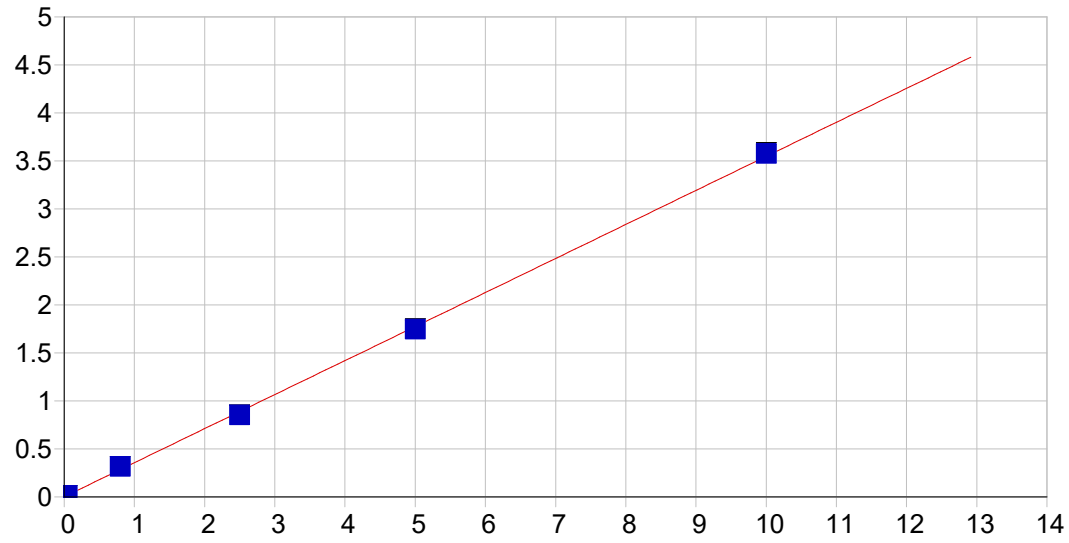


Sn 189.989 {478}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000513	Re-Slope:	1.000000
A1 (Gain):	0.101248	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999762	Status:	OK.
Std Error of Est:	0.000073		
Predicted MDL:	0.000811		
Predicted MQL:	0.002703		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00051	.000	1
S1	.04000	.03945	-.001	-1.37	.00450	.000	1
S3	2.5000	2.4436	-.056	-2.25	.24767	.001	1
S4	5.0000	5.0223	.022	.446	.50849	.001	1
S5	10.000	9.9588	-.041	-.412	1.0078	.003	1
S2	.80000	.87579	.076	9.47	.08910	.001	1

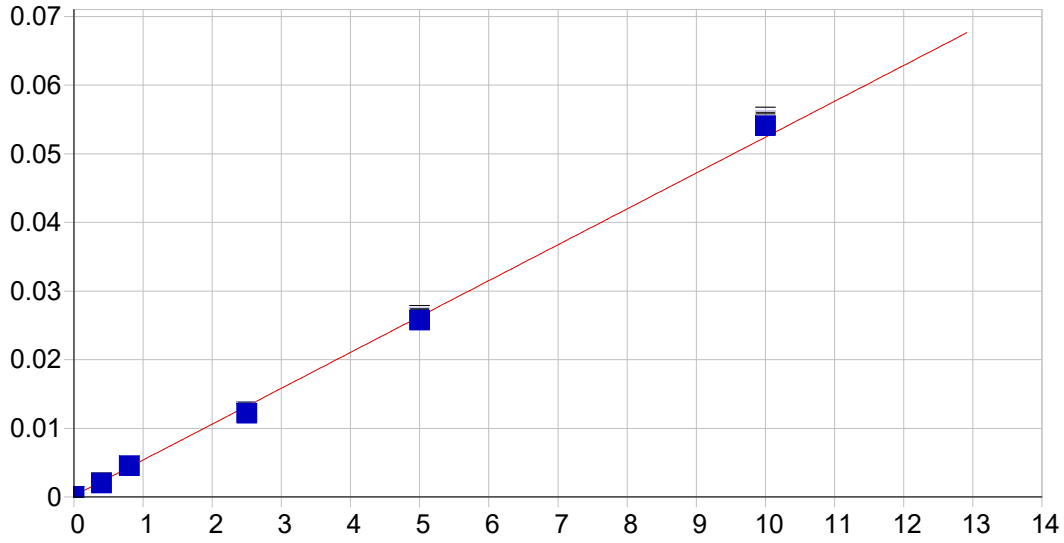


Ti 336.121 {100}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001867	Re-Slope:	1.000000
A1 (Gain):	0.354513	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999597	Status:	OK.
Std Error of Est:	0.000334		
Predicted MDL:	0.000808		
Predicted MQL:	0.002693		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00187	.000	1
S1	.04000	.04118	.001	2.96	.01646	.000	1
S3	2.5000	2.4054	-.095	-3.78	.85429	.001	1
S4	5.0000	4.9222	-.078	-1.56	1.7462	.008	1
S5	10.000	10.085	.085	.853	3.5760	.010	1
S2	.80000	.88588	.086	10.7	.31582	.001	1

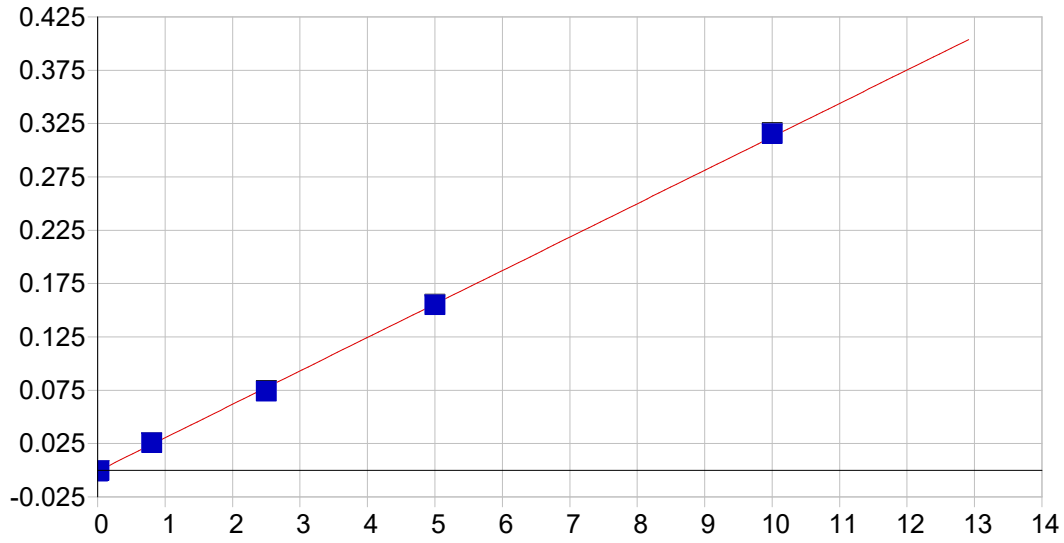


Si 288.158 {117}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000152	Re-Slope:	1.000000
A1 (Gain):	0.005227	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999079	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.007535		
Predicted MQL:	0.025118		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00006	.000	.000	.00015	.000	1
S1	.40000	.35046	-.050	-12.4	.00199	.000	1
S3	2.5000	2.3031	-.197	-7.87	.01239	.000	1
S4	5.0000	4.8933	-.107	-2.13	.02612	.000	1
S5	10.000	10.319	.319	3.19	.05488	.000	1
S2	.80000	.83307	.033	4.13	.00457	.000	1

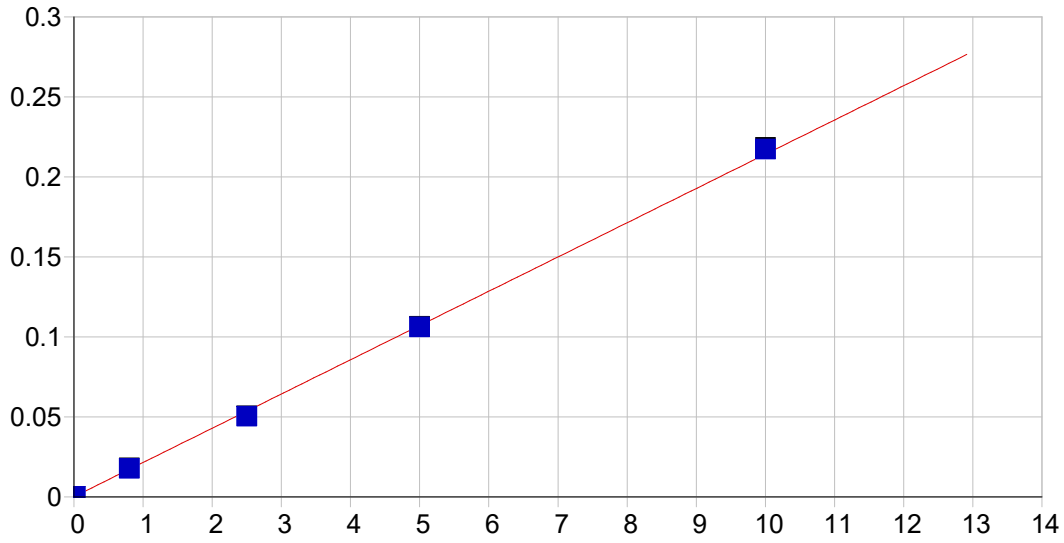


P 177.495 {490}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000891	Re-Slope:	1.000000
A1 (Gain):	0.031341	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999773	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	0.002791		
Predicted MQL:	0.009305		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00089	.000	1
S1	.02000	.01805	-.002	-9.73	-.00032	.000	1
S3	2.5000	2.3938	-.106	-4.25	.07412	.000	1
S4	5.0000	4.9700	-.030	-.599	.15485	.001	1
S5	10.000	10.093	.093	.927	.31538	.001	1
S2	.80000	.84541	.045	5.68	.02560	.000	1

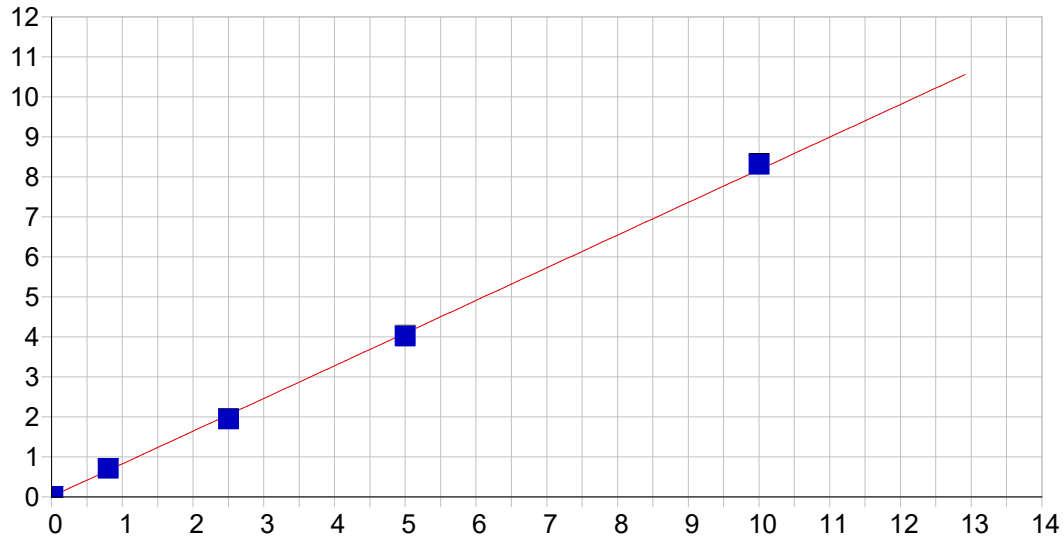


S 182.034 {485}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000116	Re-Slope:	1.000000
A1 (Gain):	0.021404	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999656	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	0.003594		
Predicted MQL:	0.011981		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00012	.000	1
S1	.02000	.02062	.001	3.10	.00054	.000	1
S3	2.5000	2.3538	-.146	-5.85	.05036	.000	1
S4	5.0000	4.9588	-.041	-.824	.10597	.000	1
S5	10.000	10.156	.156	1.56	.21693	.001	1
S2	.80000	.83088	.031	3.86	.01785	.000	1

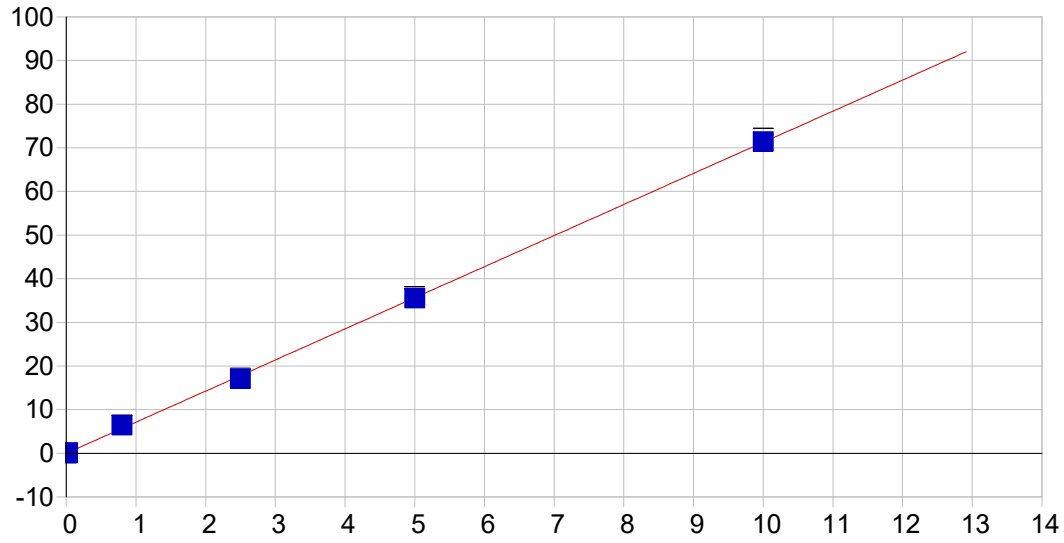


Li 670.784 { 50}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010431	Re-Slope:	1.000000
A1 (Gain):	0.816796	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999568	Status:	OK.
Std Error of Est:	0.000563		
Predicted MDL:	0.001730		
Predicted MQL:	0.005767		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.01043	.001	1
S5	10.000	10.163	.163	1.63	8.3158	.019	1
S4	5.0000	4.9085	-.092	-1.83	4.0217	.016	1
S3	2.5000	2.3699	-.130	-5.20	1.9472	.003	1
S1	.02000	.01807	-.002	-9.66	.02545	.001	1
S2	.80000	.86035	.060	7.54	.71349	.000	1

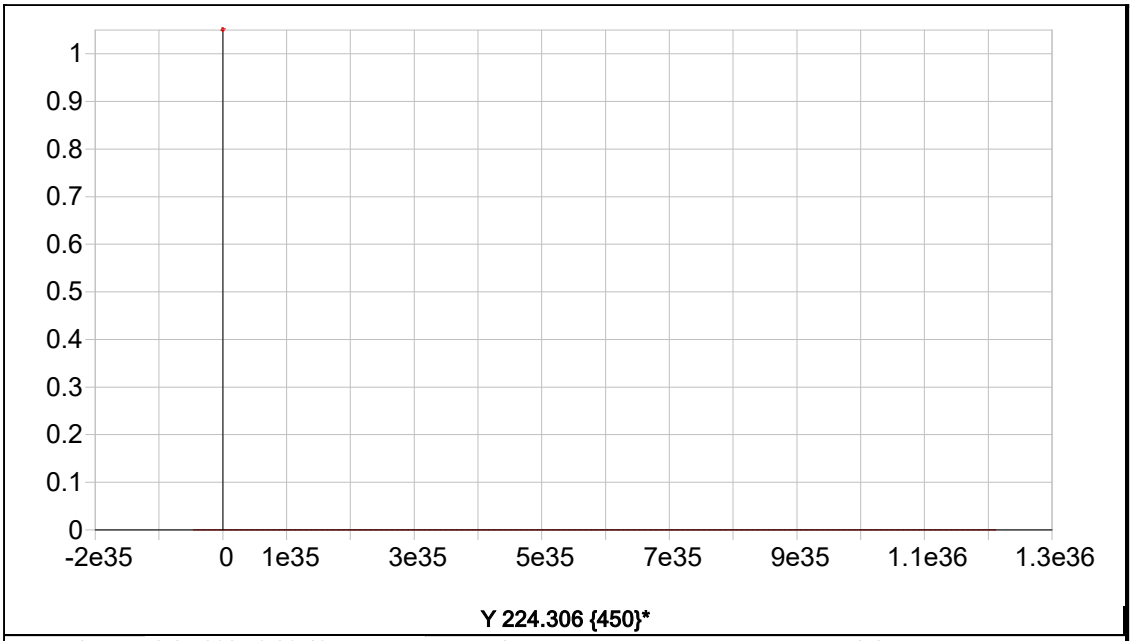


Sr 407.771 { 83}

Date of Fit:	3/25/2025 10:03:16	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000094	Re-Slope:	1.000000
A1 (Gain):	7.126288	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999549	Status:	OK.
Std Error of Est:	0.005021		
Predicted MDL:	0.000079		
Predicted MQL:	0.000265		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00008	.001	1
S1	.02000	.02037	.000	1.85	.14588	.001	1
S3	2.5000	2.3944	-.106	-4.22	17.079	.163	1
S4	5.0000	4.9862	-.014	-.275	35.565	.351	1
S5	10.000	10.021	.021	.209	71.475	.764	1
S2	.80000	.89805	.098	12.3	6.4049	.013	1

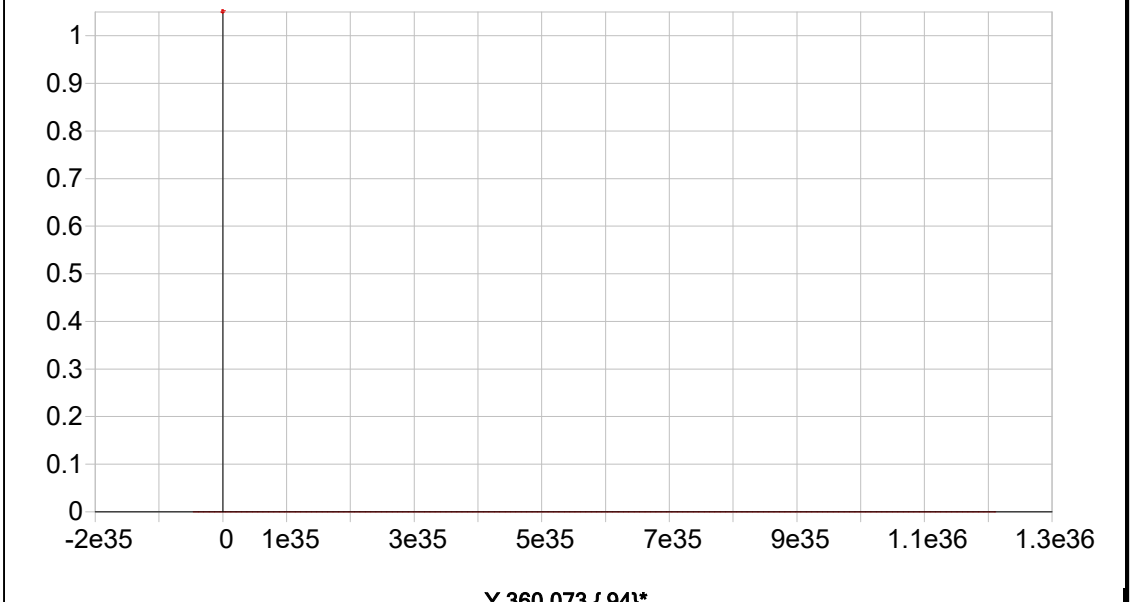


Y 224.306 {450}*

Date of Fit:	3/25/2025 9:30:49	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



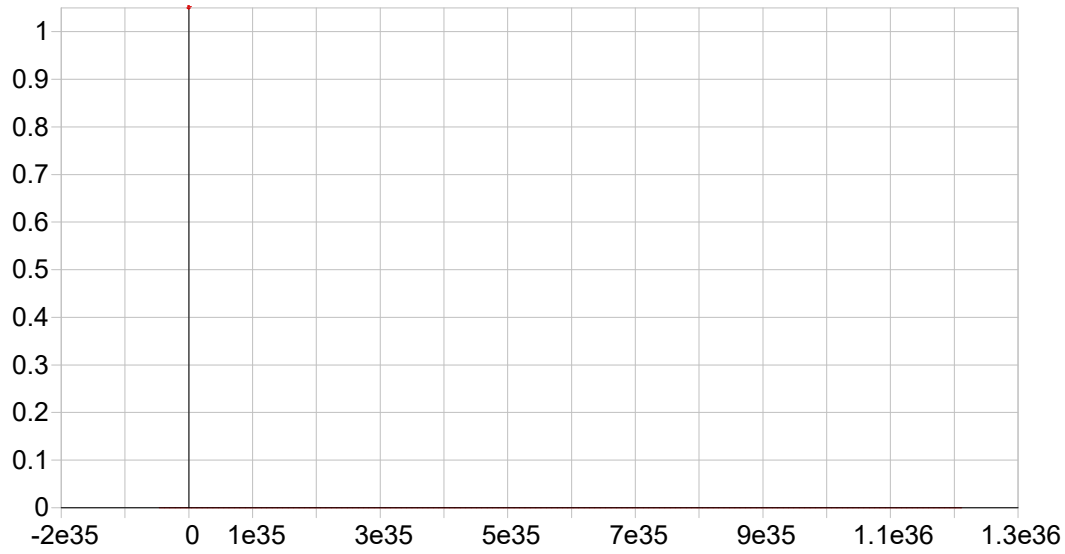
Y 360.073 { 94}*

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

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					

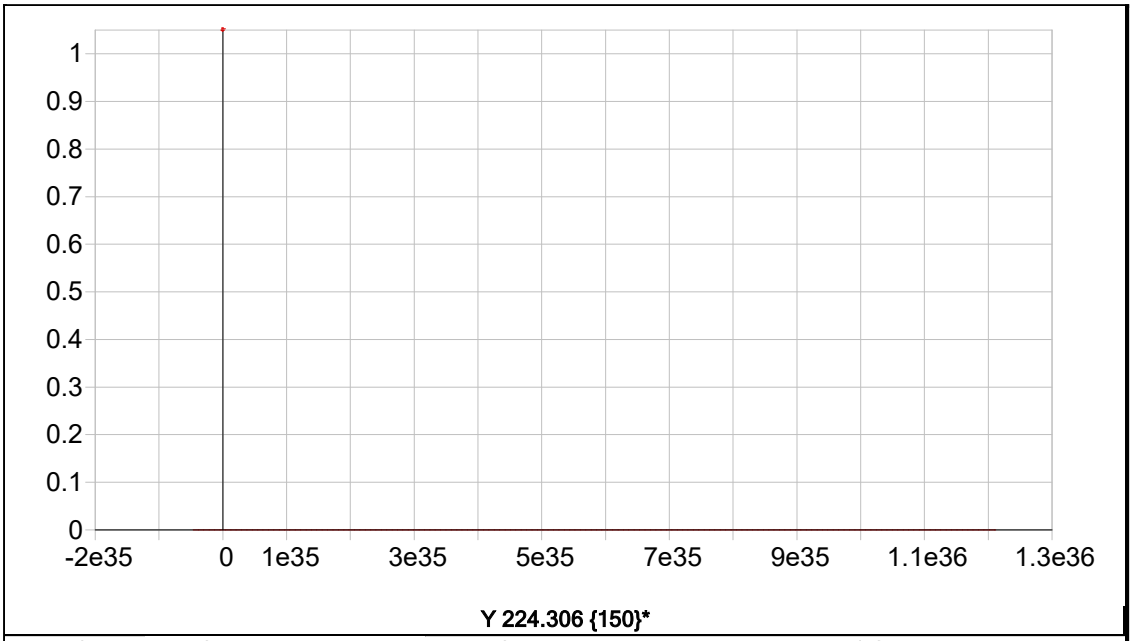
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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

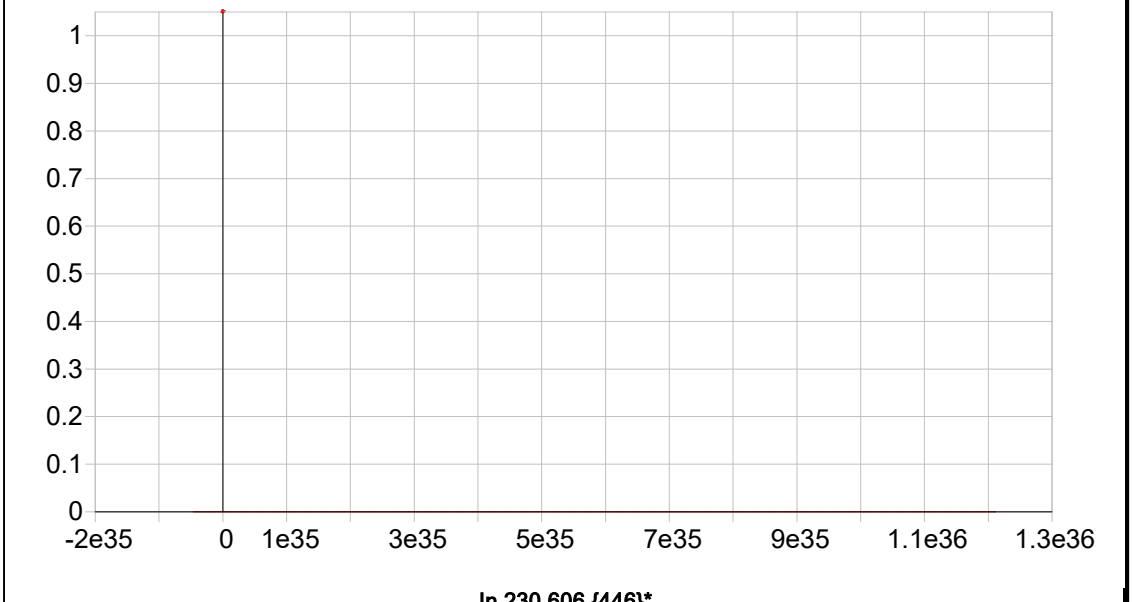


Y 224.306 {150}*

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

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:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: S0 Acquired: 3/25/2025 9:38:01 Type: Cal
Method: NON EPA-6010-200.7(v2843) 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	-.00004	-.00002	-.00009	.00016	.00039	.00050	.04904	-.00019
Stddev	.00006	.00007	.00025	.00009	.00014	.00005	.00192	.00018
%RSD	134.67	375.41	269.19	57.614	35.076	10.277	3.9159	96.078
#1	.00002	-.00010	-.00030	.00027	.00042	.00056	.04745	-.00039
#2	-.00007	.00003	-.00017	.00011	.00051	.00048	.05117	-.00005
#3	-.00009	.00002	.00019	.00010	.00024	.00046	.04850	-.00012

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	.00015	.00064	.00007	.00009	-.00034	.00006	.00061	-.00016
Stddev	.00005	.00030	.00004	.00013	.00033	.00001	.00010	.00021
%RSD	35.007	47.102	56.893	133.87	96.152	22.202	17.049	133.90
#1	.00009	.00056	.00008	-.00005	-.00066	.00004	.00062	-.00026
#2	.00018	.00039	.00012	.00020	-.00035	.00006	.00050	.00008
#3	.00018	.00097	.00003	.00013	-.00001	.00007	.00070	-.00029

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	-.00024	-.00147	.00149	-.00005	.01128	-.00074	.00275	.00020
Stddev	.00014	.00007	.00009	.00020	.00064	.00008	.00006	.00023
%RSD	58.906	4.9173	5.8233	452.17	5.7026	10.817	2.0889	116.46
#1	-.00039	-.00144	.00158	.00011	.01124	-.00080	.00276	.00037
#2	-.00012	-.00142	.00142	.00003	.01066	-.00078	.00268	.00028
#3	-.00020	-.00155	.00146	-.00028	.01194	-.00065	.00279	-.00006

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	.00051	.00187	.00015	-.00089	.00012	.01043	.00008
Stddev	.00002	.00021	.00000	.00002	.00006	.00123	.00061
%RSD	4.1033	11.105	1.0093	2.3981	50.211	11.756	764.35
#1	.00053	.00168	.00015	-.00087	.00012	.01021	.00021
#2	.00049	.00209	.00015	-.00091	.00017	.01176	-.00058
#3	.00052	.00182	.00015	-.00090	.00006	.00933	.00062

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: S0 Acquired: 3/25/2025 9:38:01 Type: Cal
Method: NON EPA-6010-200.7(v2843) 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	3514.5	79007.	14174.	2505.4	5394.9
Stddev	2.4	95.	60.	2.0	12.4
%RSD	.06861	.12028	.42641	.08090	.23024
#1	3516.8	78919.	14230.	2503.4	5393.0
#2	3512.0	78995.	14110.	2507.4	5383.5
#3	3514.6	79108.	14181.	2505.3	5408.1

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: S1 Acquired: 3/25/2025 9:42:24 Type: Cal
Method: NON EPA-6010-200.7(v2843) 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	.00222	.00210	.00122	.00625	.00758	.26153	.01874
Stddev	.00012	.00010	.00018	.00003	.00023	.00037	.00095	.00012
%RSD	13.175	4.7046	8.4869	2.7819	3.7393	4.9126	.36380	.62780
#1	.00089	.00218	.00193	.00125	.00642	.00715	.26081	.01862
#2	.00102	.00215	.00207	.00124	.00599	.00772	.26261	.01875
#3	.00078	.00234	.00229	.00119	.00635	.00785	.26117	.01886

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	.01271	.10837	.00162	.02318	.01389	.00052	.00970	.02743
Stddev	.00016	.00050	.00005	.00018	.00011	.00002	.00011	.00017
%RSD	1.2266	.46337	3.2717	.79507	.77598	3.5556	1.0963	.63710
#1	.01275	.10884	.00163	.02318	.01377	.00051	.00974	.02725
#2	.01253	.10843	.00167	.02300	.01393	.00052	.00958	.02743
#3	.01283	.10784	.00157	.02337	.01397	.00054	.00977	.02760

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	.02110	.00109	.02107	.00475	.10821	.00943	.03569	.12382
Stddev	.00020	.00006	.00019	.00015	.00181	.00013	.00036	.00021
%RSD	.93700	5.0367	.89497	3.1380	1.6758	1.4054	1.0193	.17152
#1	.02093	.00107	.02122	.00482	.10816	.00958	.03528	.12365
#2	.02105	.00106	.02086	.00457	.10642	.00938	.03582	.12375
#3	.02131	.00116	.02113	.00484	.11004	.00932	.03597	.12405

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	.00450	.01646	.00199	-.00032	.00054	.02545	.14588
Stddev	.00005	.00016	.00004	.00007	.00002	.00106	.00093
%RSD	1.1198	.99059	2.1170	22.373	2.8235	4.1482	.63713
#1	.00453	.01627	.00195	-.00034	.00056	.02610	.14621
#2	.00445	.01656	.00204	-.00024	.00053	.02602	.14483
#3	.00454	.01654	.00197	-.00039	.00053	.02423	.14660

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: S1 Acquired: 3/25/2025 9:42:24 Type: Cal
Method: NON EPA-6010-200.7(v2843) 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	3473.5	77243.	14654.	2447.6	5277.0
Stddev	9.6	391.	68.	20.1	13.3
%RSD	.27743	.50591	.46677	.82047	.25199
#1	3478.6	76836.	14732.	2435.7	5283.6
#2	3479.6	77615.	14623.	2470.8	5285.7
#3	3462.4	77280.	14606.	2436.4	5261.7

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: S2 Acquired: 3/25/2025 9:46:42 Type: Cal
Method: NON EPA-6010-200.7(v2843) 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	.04021	.05105	.15957	.04292	.10185	.12307	3.7064	.13565
Stddev	.00019	.00043	.00147	.00051	.00110	.00065	.0048	.00064
%RSD	.48041	.83482	.91964	1.1911	1.0802	.52576	.12860	.46923
#1	.04017	.05083	.15908	.04257	.10119	.12280	3.7028	.13506
#2	.04003	.05078	.15841	.04269	.10125	.12381	3.7118	.13555
#3	.04041	.05154	.16122	.04350	.10312	.12261	3.7046	.13633

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	.94355	.23352	.02843	.34372	.14553	.00436	.20198	.05564
Stddev	.00779	.00047	.00005	.00311	.00131	.00006	.00034	.00014
%RSD	.82570	.20239	.19042	.90506	.90181	1.3119	.16822	.25299
#1	.93886	.23403	.02839	.34174	.14501	.00437	.20163	.05571
#2	.93924	.23311	.02849	.34211	.14456	.00441	.20231	.05548
#3	.95254	.23341	.02843	.34730	.14702	.00430	.20199	.05573

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	.23794	.05397	.04332	.05204	1.0456	.02090	.28206	.54384
Stddev	.00214	.00015	.00005	.00013	.0030	.00009	.00059	.00584
%RSD	.89980	.28093	.10539	.24670	.28473	.44776	.20843	1.0741
#1	.23674	.05414	.04334	.05210	1.0475	.02081	.28215	.54091
#2	.23666	.05388	.04326	.05213	1.0422	.02100	.28143	.54004
#3	.24041	.05388	.04335	.05189	1.0471	.02089	.28259	.55056

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	.08910	.31582	.00457	.02560	.01785	.71349	6.4049
Stddev	.00075	.00078	.00001	.00023	.00009	.00027	.0130
%RSD	.83977	.24842	.30134	.88521	.51722	.03844	.20317
#1	.08845	.31497	.00457	.02556	.01781	.71376	6.3991
#2	.08893	.31599	.00458	.02540	.01780	.71351	6.4198
#3	.08992	.31651	.00455	.02585	.01796	.71321	6.3957

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: S2 Acquired: 3/25/2025 9:46:42 Type: Cal
Method: NON EPA-6010-200.7(v2843) 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	3400.7	77758.	14667.	2387.3	5116.4
Stddev	29.8	256.	19.	6.2	41.6
%RSD	.87528	.32918	.13012	.25972	.81391
#1	3415.6	77481.	14683.	2383.7	5136.7
#2	3420.2	77808.	14674.	2394.5	5143.9
#3	3366.5	77986.	14646.	2383.7	5068.5

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: S3 Acquired: 3/25/2025 9:50:45 Type: Cal
Method: NON EPA-6010-200.7(v2843) 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	.11167	.13967	.44236	.11920	.28341	.34428	9.8820	.38605
Stddev	.00055	.00067	.00195	.00030	.00129	.00071	.0161	.00223
%RSD	.49599	.47613	.44183	.25490	.45438	.20613	.16256	.57667
#1	.11139	.13943	.44065	.11907	.28263	.34347	9.8695	.38753
#2	.11131	.14043	.44193	.11898	.28270	.34480	9.8764	.38349
#3	.11231	.13916	.44449	.11954	.28490	.34456	9.9001	.38713

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	2.6124	.63209	.07936	.94785	.39363	.01140	.54154	.15369
Stddev	.0083	.00104	.00005	.00411	.00143	.00006	.00158	.00028
%RSD	.31840	.16499	.06518	.43371	.36280	.50411	.29093	.18125
#1	2.6073	.63224	.07942	.94561	.39313	.01133	.54160	.15368
#2	2.6080	.63098	.07932	.94535	.39251	.01142	.53994	.15341
#3	2.6220	.63305	.07934	.95260	.39523	.01144	.54309	.15397

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	.65375	.15146	.11450	.14271	2.8834	.05924	.79334	1.4870
Stddev	.00267	.00009	.00051	.00030	.0111	.00022	.00355	.0057
%RSD	.40907	.06088	.44337	.20913	.38391	.36980	.44760	.38038
#1	.65216	.15136	.11398	.14281	2.8749	.05900	.79402	1.4842
#2	.65225	.15149	.11499	.14237	2.8795	.05943	.78949	1.4833
#3	.65684	.15154	.11454	.14294	2.8959	.05928	.79649	1.4935

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	.24767	.85429	.01239	.07412	.05036	1.9472	17.079
Stddev	.00079	.00082	.00008	.00047	.00008	.0027	.163
%RSD	.31894	.09594	.61284	.62764	.16823	.14095	.95670
#1	.24681	.85379	.01232	.07383	.05034	1.9445	17.210
#2	.24783	.85384	.01247	.07466	.05045	1.9500	16.896
#3	.24836	.85523	.01237	.07387	.05028	1.9472	17.131

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: S3 Acquired: 3/25/2025 9:50:45 Type: Cal
Method: NON EPA-6010-200.7(v2843) 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	3348.2	74855.	14081.	2283.6	4943.0
Stddev	8.1	56.	59.	8.5	9.8
%RSD	.24190	.07488	.42055	.37111	.19741
#1	3351.1	74900.	14060.	2292.8	4949.3
#2	3354.4	74872.	14148.	2276.1	4948.0
#3	3339.0	74792.	14035.	2282.0	4931.8

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: S4 Acquired: 3/25/2025 9:54:53 Type: Cal
Method: NON EPA-6010-200.7(v2843) 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	.23041	.28513	.89752	.24474	.58274	.70568	20.391	.76894
Stddev	.00060	.00208	.00077	.00083	.00237	.00163	.065	.00840
%RSD	.25951	.72906	.08630	.33752	.40691	.23039	.32084	1.0918
#1	.23013	.28327	.89755	.24406	.58073	.70722	20.431	.77860
#2	.23001	.28738	.89673	.24450	.58213	.70583	20.315	.76478
#3	.23110	.28473	.89828	.24566	.58536	.70398	20.427	.76344

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	5.3504	1.2842	.15973	1.9334	.79513	.02343	1.0902	.31472
Stddev	.0117	.0074	.00022	.0047	.00209	.00015	.0083	.00211
%RSD	.21789	.57814	.13936	.24272	.26289	.62953	.75995	.67200
#1	5.3409	1.2927	.15991	1.9317	.79355	.02337	1.0992	.31713
#2	5.3468	1.2810	.15948	1.9298	.79433	.02360	1.0885	.31381
#3	5.3634	1.2789	.15981	1.9387	.79750	.02333	1.0828	.31321

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	1.3277	.30863	.24394	.29393	5.8141	.12543	1.5767	3.0112
Stddev	.0041	.00016	.00157	.00183	.0106	.00087	.0148	.0078
%RSD	.31177	.05257	.64319	.62273	.18234	.69750	.94150	.25817
#1	1.3246	.30847	.24242	.29604	5.8263	.12454	1.5937	3.0040
#2	1.3261	.30862	.24556	.29278	5.8068	.12629	1.5660	3.0102
#3	1.3324	.30879	.24385	.29295	5.8092	.12546	1.5705	3.0195

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	.50849	1.7462	.02612	.15485	.10597	4.0217	35.565
Stddev	.00118	.0080	.00030	.00069	.00034	.0164	.351
%RSD	.23216	.45867	1.1571	.44654	.32486	.40839	.98668
#1	.50721	1.7551	.02578	.15434	.10564	4.0395	35.775
#2	.50873	1.7439	.02628	.15458	.10595	4.0184	35.160
#3	.50953	1.7396	.02631	.15564	.10633	4.0072	35.759

Sample Name: S4 Acquired: 3/25/2025 9:54:53 Type: Cal
Method: NON EPA-6010-200.7(v2843) 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	3279.7	73501.	14154.	2215.5	4757.4
Stddev	2.8	263.	98.	2.1	3.1
%RSD	.08579	.35846	.69194	.09581	.06471
#1	3280.8	73805.	14043.	2213.6	4756.8
#2	3281.8	73342.	14230.	2215.2	4760.8
#3	3276.5	73356.	14188.	2217.8	4754.7

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: S5 Acquired: 3/25/2025 9:59:05 Type: Cal
Method: NON EPA-6010-200.7(v2843) 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	.45756	.54993	1.7799	.48191	1.1592	1.4353	41.664	1.4747
Stddev	.00081	.00434	.0035	.00097	.0020	.0038	.280	.0085
%RSD	.17599	.78939	.19537	.20111	.17441	.26547	.67207	.57377
#1	.45668	.54538	1.7780	.48138	1.1596	1.4395	41.587	1.4814
#2	.45776	.55040	1.7777	.48132	1.1570	1.4347	41.430	1.4652
#3	.45825	.55402	1.7839	.48302	1.1610	1.4319	41.974	1.4775

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	10.687	2.5965	.31185	3.8841	1.5557	.04823	2.2026	.63221
Stddev	.020	.0078	.00133	.0110	.0023	.00026	.0088	.00193
%RSD	.18903	.29886	.42795	.28315	.14971	.54325	.39940	.30540
#1	10.675	2.6054	.31309	3.8774	1.5542	.04828	2.2111	.63440
#2	10.676	2.5929	.31203	3.8780	1.5546	.04846	2.1935	.63147
#3	10.710	2.5912	.31044	3.8967	1.5584	.04794	2.2033	.63076

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	2.6502	.61437	.52372	.59917	11.465	.26644	3.0499	5.9236
Stddev	.0070	.00169	.00248	.00140	.057	.00155	.0162	.0068
%RSD	.26613	.27577	.47389	.23389	.49571	.58149	.53201	.11529
#1	2.6464	.61478	.52456	.60036	11.501	.26682	3.0584	5.9186
#2	2.6458	.61581	.52567	.59952	11.494	.26777	3.0312	5.9208
#3	2.6583	.61250	.52092	.59762	11.399	.26474	3.0601	5.9314

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	1.0078	3.5760	.05488	.31538	.21693	8.3158	71.475
Stddev	.0034	.0102	.00050	.00085	.00096	.0189	.764
%RSD	.33611	.28490	.90962	.26852	.44245	.22681	1.0683
#1	1.0059	3.5873	.05475	.31500	.21632	8.3370	71.337
#2	1.0058	3.5730	.05543	.31478	.21644	8.3091	70.789
#3	1.0117	3.5676	.05446	.31635	.21804	8.3011	72.297

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: S5 Acquired: 3/25/2025 9:59:05 Type: Cal
Method: NON EPA-6010-200.7(v2843) 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	3191.2	72067.	14236.	2143.9	4521.5
Stddev	2.9	327.	80.	6.7	7.0
%RSD	.09180	.45316	.56214	.31055	.15401
#1	3189.3	71793.	14164.	2136.8	4521.8
#2	3194.5	71980.	14322.	2145.1	4528.3
#3	3189.7	72428.	14222.	2150.0	4514.4

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: ICV01 Acquired: 3/25/2025 10:03:24 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.9891277	1.039311	.9751114	1.022673	1.000583	2.457019
Stddev	.0012737	.003947	.0029674	.004127	.004788	.012871
%RSD	.1287745	.3797234	.3043165	.4035669	.4784931	.5238330
#1	.9897622	1.034767	.9768675	1.026435	1.006077	2.446588
#2	.9899596	1.041880	.9716853	1.018258	.997302	2.471402
#3	.9876613	1.041287	.9767816	1.023324	.998370	2.453066

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4927725	.4704754	.4937741	9.776603	.5182136	.5048655
Stddev	.0015251	.0016340	.0005937	.026673	.0022102	.0013121
%RSD	.3094917	.3473031	.1202370	.2728234	.4265120	.2598907
#1	.4918873	.4688518	.4941967	9.746139	.5185943	.5054338
#2	.4945335	.4721196	.4930953	9.787910	.5158377	.5033651
#3	.4918966	.4704549	.4940303	9.795760	.5202087	.5057977

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5263282	9.992215	.4983833	5.718151	.5079354	.2531458
Stddev	.0012677	.038379	.0020971	.037048	.0019183	.0006023
%RSD	.2408598	.3840874	.4207803	.6479003	.3776657	.2379340
#1	.5271285	9.949528	.4962319	5.679116	.5084082	.2531037
#2	.5248666	10.00325	.5004215	5.752826	.5058250	.2525656
#3	.5269894	10.02387	.4984964	5.722509	.5095732	.2537680

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.648541	.4827406	1.009765	9.901013	F 2.170268	2.380235
Stddev	.026392	.0026235	.003906	.044352	.007094	.001716
%RSD	.2735292	.5434574	.3868335	.4479545	.3268765	.0720911
#1	9.621018	.4797587	1.007816	9.851159	2.164796	2.381676
#2	9.650970	.4837690	1.007217	9.915789	2.178283	2.378337
#3	9.673634	.4846941	1.014262	9.936091	2.167726	2.380692

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: ICV01 Acquired: 3/25/2025 10:03:24 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	2.278875	2.268235	F 1.964882	F .0005916	F -.000517	F .0015339
Stddev	.001774	.004267	.002815	.0004486	.002149	.0009823
%RSD	.0778555	.1881414	.1432687	75.82410	415.6241	64.03879
#1	2.279746	2.263637	1.967974	.0011014	.001792	.0016615
#2	2.276833	2.272068	1.962466	.0002575	-.002458	.0004941
#3	2.280045	2.269002	1.964206	.0004159	-.000886	.0024462

Elem	Sr4077
Units	ppm
Avg	F -.007321
Stddev	.000100
%RSD	1.368597
#1	-.007273
#2	-.007254
#3	-.007437

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3398.903	77058.88	15702.47	2318.115	5136.524
Stddev	6.217	241.09	59.05	15.163	8.658
%RSD	.1829147	.3128586	.3760406	.6541020	.1685609
#1	3394.612	77260.77	15760.89	2323.085	5135.710
#2	3406.032	77123.92	15642.82	2330.169	5145.561
#3	3396.063	76791.95	15703.71	2301.091	5128.302

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: LLICV01 Acquired: 3/25/2025 10:14:07 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0185457	.0395275	.0111694	.0216614	.0517942	.0976658
Stddev	.0015242	.0001916	.0005689	.0005932	.0010497	.0042272
%RSD	8.218593	.4846592	5.092997	2.738717	2.026780	4.328238
#1	.0196729	.0395829	.0118263	.0210556	.0529055	.1019117
#2	.0191525	.0396853	.0108439	.0216872	.0516577	.0934576
#3	.0168115	.0393143	.0108381	.0222413	.0508194	.0976280

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0910829	.0058339	.0057354	1.975327	.0095036	.0291579
Stddev	.0010315	.0000462	.0000922	.003063	.0003417	.0002988
%RSD	1.132503	.7915048	1.607755	.1550393	3.595860	1.024578
#1	.0922473	.0058812	.0056961	1.972367	.0098500	.0291010
#2	.0902834	.0058316	.0056693	1.978483	.0091667	.0288917
#3	.0907181	.0057890	.0058407	1.975132	.0094939	.0294810

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0227275	.0954075	.0187553	2.086861	.0390218	.0108986
Stddev	.0000326	.0019045	.0005049	.007422	.0002500	.0001360
%RSD	.1433689	1.996150	2.692228	.3556478	.6406737	1.247559
#1	.0227507	.0933727	.0191264	2.078321	.0391256	.0109160
#2	.0226903	.0971473	.0181803	2.090506	.0387366	.0107548
#3	.0227417	.0957025	.0189592	2.091756	.0392031	.0110251

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.868054	.0393478	.0430405	1.994445	.1013121	.2115488
Stddev	.017324	.0015341	.0002214	.029584	.0006116	.0013922
%RSD	.9273783	3.898807	.5144133	1.483328	.6036731	.6581081
#1	1.851091	.0379085	.0432949	2.028600	.1020182	.2105599
#2	1.867353	.0409618	.0428919	1.977890	.1009699	.2109456
#3	1.885718	.0391732	.0429346	1.976844	.1009483	.2131409

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: LLICV01 Acquired: 3/25/2025 10:14:07 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0383015	.0393176	.3746481	.0163428	.0209848	F .0155902
Stddev	.0003738	.0003221	.0062697	.0022353	.0007952	.0011598
%RSD	.9758372	.8193373	1.673479	13.67755	3.789360	7.439059
#1	.0383007	.0396744	.3702975	.0158617	.0203837	.0142939
#2	.0379281	.0392301	.3818347	.0143873	.0218865	.0165295
#3	.0386756	.0390481	.3718121	.0187795	.0206843	.0159472

Elem	Sr4077
Units	ppm
Avg	.0194684
Stddev	.0001801
%RSD	.9249280
#1	.0196605
#2	.0194413
#3	.0193034

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3380.999	76288.25	15565.45	2242.347	5327.948
Stddev	21.649	97.37	56.57	12.677	24.322
%RSD	.6403209	.1276397	.3634278	.5653334	.4564914
#1	3392.147	76176.57	15505.92	2236.639	5329.708
#2	3394.803	76355.39	15618.49	2233.528	5351.342
#3	3356.048	76332.78	15571.94	2256.874	5302.795

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: ICB01 Acquired: 3/25/2025 10:18:29 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.000635	-.001617	-.000255	.0013668	-.000345	-.007530	-.005504
Stddev	.001135	.001090	.000070	.0013294	.000690	.003037	.000904
%RSD	178.6207	67.40890	27.25167	97.26274	199.7753	40.32960	16.42579
#1	.000660	-.001263	-.000329	.0015003	-.001085	-.008502	-.006210
#2	-.001113	-.002840	-.000246	-.000024	.000281	-.009962	-.005818
#3	-.001453	-.000748	-.000191	.002624	-.000232	-.004126	-.004485

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000162	-.000091	.0063557	-.000046	-.000277	-.000330	-.005234
Stddev	.0000670	.000025	.0081503	.000294	.000285	.000313	.001572
%RSD	414.6758	27.88938	128.2351	637.8801	103.0148	95.04583	30.04514
#1	-.000007	-.000108	-.000246	-.000202	-.000524	-.000411	-.003789
#2	-.000036	-.000062	.015465	.000293	-.000342	-.000594	-.006908
#3	.000092	-.000104	.003847	-.000229	.000035	.000016	-.005004

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001071	.0000626	.0001760	.0002007	-.018844	-.000080	-.000702
Stddev	.000139	.0076985	.0002104	.0001591	.005735	.000691	.000252
%RSD	12.94036	12290.38	119.5560	79.25206	30.43543	868.7191	35.92046
#1	-.000911	-.000939	.0001991	.0000471	-.012347	-.000607	-.000720
#2	-.001158	.008213	-.000045	.0003647	-.023203	.000703	-.000945
#3	-.001144	-.007086	.000374	.0001903	-.020982	-.000335	-.000442

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0291160	.0010652	-.000235	-.004518	.0007673	.0033632	-.000865
Stddev	.0194616	.0002095	.000211	.000560	.0003213	.0046552	.002294
%RSD	66.84171	19.66429	89.73925	12.39057	41.87310	138.4141	265.2340
#1	.0301114	.0008240	-.000119	-.004436	.0011326	.0021285	.001590
#2	.0091758	.0012012	-.000478	-.005115	.0005290	.0085113	-.002953
#3	.0480608	.0011703	-.000108	-.004004	.0006402	-.000550	-.001231

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: ICB01 Acquired: 3/25/2025 10:18:29 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0025970	-.002899	.0000400
Stddev	.0026320	.001327	.0000250
%RSD	101.3489	45.76896	62.39984
#1	.0001830	-.004350	.0000662
#2	.0022049	-.002600	.0000165
#3	.0054031	-.001748	.0000374

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3386.279	76328.08	15588.55	2235.631	5386.614
Stddev	4.463	102.24	115.62	7.688	3.211
%RSD	.1317895	.1339476	.7417178	.3438817	.0596022
#1	3383.152	76223.12	15696.01	2227.066	5384.589
#2	3391.390	76333.74	15603.44	2241.935	5390.316
#3	3384.296	76427.37	15466.20	2237.891	5384.937

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CRI01 Acquired: 3/25/2025 10:22:53 Type: Unk
Method: NON EPA-6010-200.7(v2843) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211869	.0403124	.0117806	.0218939	.0527979	.0992617	.0911159
Stddev	.0014637	.0009053	.0008706	.0018680	.0011368	.0017265	.0009549
%RSD	6.908681	2.245620	7.389740	8.531924	2.153181	1.739386	1.047984
#1	.0196211	.0410042	.0127160	.0230989	.0537726	.0973850	.0915149
#2	.0214187	.0406451	.0116318	.0228407	.0515490	.0996173	.0918066
#3	.0225209	.0392878	.0109941	.0197421	.0530721	.1007828	.0900262

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057639	.0057068	1.962924	.0098150	.0289432	.0221747	.0981616
Stddev	.0000658	.0000760	.004927	.0003665	.0001685	.0001838	.0053622
%RSD	1.142223	1.332262	.2509889	3.734155	.5820585	.8287357	5.462659
#1	.0057100	.0057827	1.965702	.0098987	.0290129	.0219627	.0999154
#2	.0058373	.0057070	1.957236	.0094138	.0287510	.0222749	.0921420
#3	.0057445	.0056307	1.965834	.0101324	.0290656	.0222867	.1024273

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0186729	2.070891	.0390443	.0112119	1.882036	.0394753	.0423048
Stddev	.0001344	.011560	.0001016	.0003318	.028133	.0001135	.0002551
%RSD	.7195661	.5582374	.2601324	2.959640	1.494810	.2874526	.6030606
#1	.0185340	2.057700	.0390693	.0109569	1.882309	.0396020	.0424495
#2	.0186823	2.079261	.0389325	.0110919	1.853768	.0393830	.0420102
#3	.0188022	2.075711	.0391309	.0115871	1.910031	.0394409	.0424547

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.015762	.0985201	.2093652	.0381493	.0396406	.3755719	.0169077
Stddev	.048484	.0010161	.0004182	.0001934	.0004724	.0050362	.0020507
%RSD	2.405244	1.031333	.1997340	.5069244	1.191777	1.340939	12.12897
#1	1.959784	.0977620	.2088899	.0382755	.0398507	.3699717	.0146213
#2	2.043028	.0996746	.2095292	.0382458	.0399715	.3770151	.0175173
#3	2.044474	.0981236	.2096766	.0379267	.0390995	.3797290	.0185846

Sample Name: CRI01 Acquired: 3/25/2025 10:22:53 Type: Unk
Method: NON EPA-6010-200.7(v2843) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0194653	.0141343	.0194617
Stddev	.0027026	.0005636	.0000802
%RSD	13.88414	3.987463	.4122169
#1	.0164786	.0147730	.0193707
#2	.0201752	.0139230	.0194923
#3	.0217420	.0137069	.0195221

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3409.186	76753.28	15743.64	2280.536	5357.544
Stddev	10.440	143.75	61.39	3.185	21.998
%RSD	.3062314	.1872853	.3899294	.1396552	.4106041
#1	3411.706	76759.83	15756.42	2279.022	5352.134
#2	3418.135	76893.64	15676.86	2284.196	5381.742
#3	3397.716	76606.37	15797.63	2278.391	5338.755

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: ICSA01 Acquired: 3/25/2025 10:27:15 Type: Unk
Method: NON EPA-6010-200.7(v2843) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047714	.0056824	.0041857	-.009758	-.003077	235.3664	-.000556
Stddev	.0016366	.0023075	.0000713	.004192	.001536	1.5380	.000252
%RSD	34.30098	40.60833	1.704203	42.96274	49.93170	.6534433	45.37147
#1	.0065735	.0065792	.0041409	-.006792	-.004583	236.1715	-.000269
#2	.0043629	.0074069	.0041483	-.007928	-.001511	233.5930	-.000743
#3	.0033776	.0030611	.0042680	-.014554	-.003137	236.3347	-.000655

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012075	-.003568	221.2890	.0550286	.0016635	.0095873	97.76960
Stddev	.0000856	.000111	.3620	.0016177	.0002137	.0004351	.07181
%RSD	7.086340	3.114550	.1635655	2.939756	12.84424	4.538322	.0734432
#1	.0011266	-.003445	221.7006	.0568923	.0014441	.0090852	97.83327
#2	.0011987	-.003660	221.1463	.0539882	.0018710	.0098249	97.69177
#3	.0012971	-.003600	221.0202	.0542051	.0016754	.0098519	97.78375

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015438	236.4801	.0020814	-.000004	.0534490	.0041923	.0035333
Stddev	.0004943	.4661	.0003141	.000207	.0118358	.0010303	.0000525
%RSD	32.02096	.1970998	15.08813	4901.363	22.14405	24.57572	1.484814
#1	.0010781	237.0181	.0020833	-.000191	.0564824	.0030825	.0035362
#2	.0020625	236.2245	.0023946	.000218	.0403917	.0043759	.0034795
#3	.0014907	236.1977	.0017665	-.000040	.0634729	.0051184	.0035843

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0467432	-.047163	.0001311	-.009268	-.001144	.0140803	-.002001
Stddev	.0439273	.000292	.0001155	.002060	.000356	.0030651	.002285
%RSD	93.97590	.6194377	88.05024	22.22646	31.08571	21.76891	114.1592
#1	.0037173	-.046834	.0002637	-.011646	-.000762	.0144326	-.003834
#2	.0449927	-.047391	.0000771	-.008136	-.001206	.0169540	-.002729
#3	.0915197	-.047264	.0000526	-.008022	-.001465	.0108542	.000559

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: ICSA01 Acquired: 3/25/2025 10:27:15 Type: Unk
Method: NON EPA-6010-200.7(v2843) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.015577	.0018158	.0064749
Stddev	.008935	.0001883	.0004011
%RSD	57.35774	10.37242	6.193950
#1	-.005843	.0015987	.0069378
#2	-.023404	.0019133	.0062308
#3	-.017485	.0019354	.0062562

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3002.487	67822.56	15149.14	2017.454	4224.248
Stddev	6.511	112.01	45.68	9.079	11.201
%RSD	.2168509	.1651479	.3015056	.4500231	.2651629
#1	3003.673	67705.57	15096.77	2016.497	4231.753
#2	3008.324	67928.81	15180.74	2026.973	4229.618
#3	2995.465	67833.30	15169.92	2008.891	4211.373

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: ICSAB01 Acquired: 3/25/2025 10:31:43 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.1122401	.1062800	.0519775	.0369953	.6407308	241.6702
Stddev	.0032318	.0040162	.0005239	.0042095	.0071432	1.0227
%RSD	2.879379	3.778850	1.007959	11.37856	1.114853	.4231670
#1	.1121670	.1066943	.0524973	.0327433	.6416408	241.8924
#2	.1090455	.1100729	.0514496	.0370815	.6331763	242.5635
#3	.1155079	.1020727	.0519856	.0411610	.6473755	240.5547

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4693506	.4799527	.9983684	223.9795	.5657028	.5071004
Stddev	.0023540	.0009942	.0017277	.7032	.0010499	.0010746
%RSD	.5015375	.2071516	.1730506	.3139510	.1855871	.2119091
#1	.4710464	.4804862	.9984456	224.3509	.5667155	.5061110
#2	.4703423	.4805662	.9966035	224.4192	.5646194	.5069465
#3	.4666630	.4788056	1.000056	223.1685	.5657736	.5082436

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5157687	97.73726	.4659046	243.6274	.9997018	.2029293
Stddev	.0010243	.06450	.0014410	.9677	.0019891	.0009874
%RSD	.1985952	.0659955	.3092952	.3971899	.1989698	.4865602
#1	.5154120	97.80223	.4670797	243.9829	.9995781	.2040561
#2	.5149705	97.67323	.4663373	244.3670	.9977774	.2025160
#3	.5169237	97.73632	.4642968	242.5323	1.001750	.2022157

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208498	.4686037	1.070379	-.012610	.8795756	1.080179
Stddev	.0196206	.0042284	.002059	.019053	.0014793	.000603
%RSD	94.10457	.9023420	.1923970	151.1024	.1681853	.0558276
#1	.0006078	.4710982	1.072580	-.001299	.8806376	1.080410
#2	.0221580	.4709913	1.070059	-.001922	.8802033	1.079494
#3	.0397835	.4637215	1.068498	-.034608	.8778859	1.080632

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: ICSAB01 Acquired: 3/25/2025 10:31:43 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	1.059290	.9893579	.9492657	F -.001491	F -.012017	F .0009314
Stddev	.006551	.0043267	.0035071	.001081	.003131	.0007558
%RSD	.6183954	.4373212	.3694556	72.47545	26.05289	81.15478
#1	1.059132	.9927846	.9522926	-.000268	-.008471	.0017766
#2	1.052820	.9907930	.9454223	-.001890	-.013183	.0003204
#3	1.065918	.9844960	.9500821	-.002316	-.014398	.0006971

Elem	Sr4077
Units	ppm
Avg	F .0070322
Stddev	.0003310
%RSD	4.707050
#1	.0073029
#2	.0071303
#3	.0066632

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2952.979	67357.54	14859.61	1973.016	4178.131
Stddev	9.091	80.78	48.43	3.081	13.317
%RSD	.3078519	.1199252	.3259108	.1561802	.3187319
#1	2961.918	67450.53	14864.83	1969.898	4190.685
#2	2953.276	67304.73	14808.78	1976.059	4179.545
#3	2943.743	67317.38	14905.22	1973.092	4164.163

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV01 Acquired: 3/25/2025 10:35:58 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	5.144914	5.098914	4.983910	5.198707	5.176070	9.849659	9.687895
Stddev	.064794	.066382	.042612	.061691	.051635	.028653	.137357
%RSD	1.259377	1.301876	.8549969	1.186662	.9975681	.2909033	1.417818
#1	5.113519	5.047992	4.963712	5.159746	5.144843	9.874251	9.819125
#2	5.101798	5.074759	4.955153	5.166541	5.147696	9.856531	9.699424
#3	5.219425	5.173990	5.032866	5.269833	5.235670	9.818195	9.545138

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2367864	2.468072	23.95382	1.011472	2.465392	1.276490	5.005907
Stddev	.0010493	.019562	.03720	.001458	.022076	.013647	.030288
%RSD	.4431327	.7925986	.1553052	.1441598	.8954459	1.069098	.6050532
#1	.2369041	2.459587	23.96028	1.011854	2.456361	1.270637	4.984127
#2	.2377719	2.454185	23.98736	1.012702	2.449263	1.266746	4.993097
#3	.2356833	2.490444	23.91381	1.009861	2.490552	1.292087	5.040495

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.382134	24.05743	2.457203	1.257928	25.11853	2.445448	2.546845
Stddev	.007659	.09470	.020736	.000705	.03383	.006355	.004482
%RSD	.3215198	.3936463	.8438715	.0560186	.1346958	.2598722	.1759778
#1	2.379605	23.97287	2.448797	1.258682	25.15663	2.443288	2.541694
#2	2.390738	24.15976	2.441991	1.257813	25.09200	2.452602	2.549850
#3	2.376060	24.03966	2.480822	1.257287	25.10695	2.440455	2.548991

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.61468	4.725892	5.129425	4.985051	4.870878	5.112526	4.945089
Stddev	.05366	.026764	.053145	.041427	.016102	.023342	.044818
%RSD	.2095043	.5663283	1.036088	.8310215	.3305750	.4565663	.9063050
#1	25.57097	4.741614	5.098317	4.963470	4.878956	5.099330	4.932316
#2	25.59850	4.741073	5.099168	4.958870	4.881342	5.098771	4.908045
#3	25.67457	4.694990	5.190790	5.032812	4.852336	5.139477	4.994907

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV01 Acquired: 3/25/2025 10:35:58 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	4.939843	4.843110	4.868268
Stddev	.043448	.020375	.025309
%RSD	.8795509	.4206910	.5198784
#1	4.917514	4.862820	4.839109
#2	4.912100	4.844380	4.881168
#3	4.989916	4.822130	4.884529

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3215.602	73209.33	15178.57	2111.581	4756.739
Stddev	26.598	196.87	61.56	11.195	34.984
%RSD	.8271469	.2689173	.4055433	.5301563	.7354661
#1	3228.588	73436.53	15210.85	2124.181	4771.547
#2	3233.211	73102.42	15107.59	2102.781	4781.883
#3	3185.006	73089.05	15217.27	2107.782	4716.786

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB01 Acquired: 3/25/2025 10:40:09 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.000015	.0008519	-.001754	.0019815	-.000475	-.009414	-.007950
Stddev	.001210	.0014854	.000234	.0015381	.001208	.001219	.001049
%RSD	8220.267	174.3682	13.34656	77.62058	254.1039	12.95147	13.19592
#1	-.000579	-.000213	-.001500	.0034689	.000498	-.008456	-.006946
#2	.001375	.000220	-.001801	.0003973	-.000097	-.008999	-.007866
#3	-.000840	.002549	-.001961	.0020783	-.001827	-.010786	-.009039

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000296	-.000032	.0077020	-.000122	-.000155	-.000352	-.003308
Stddev	.0000306	.000073	.0044106	.000169	.000084	.000289	.002385
%RSD	103.5705	230.6620	57.26637	138.3738	54.18872	82.15333	72.10172
#1	.0000129	-.000016	.0047136	-.000160	-.000236	-.000109	-.000722
#2	.0000649	.000032	.0056246	.000063	-.000068	-.000275	-.005423
#3	.0000109	-.000111	.0127677	-.000270	-.000160	-.000671	-.003780

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000871	.0006618	.0002067	.0005931	-.032701	-.000117	-.000723
Stddev	.000108	.0099701	.0001467	.0000765	.007446	.000079	.000161
%RSD	12.44157	1506.584	71.00287	12.89823	22.77074	67.34422	22.18558
#1	-.000955	.0062533	.0000684	.0006620	-.024893	-.000034	-.000865
#2	-.000749	-.010849	.0003606	.0005108	-.039723	-.000127	-.000756
#3	-.000910	.006581	.0001910	.0006066	-.033486	-.000190	-.000549

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0191509	.0023459	.0000885	-.003822	.0006438	.0022849	-.003701
Stddev	.0264995	.0003073	.0000890	.001136	.0006674	.0028848	.002317
%RSD	138.3717	13.09960	100.5530	29.72547	103.6544	126.2559	62.60311
#1	.0493127	.0024169	.0001330	-.002516	.0013086	.0010776	-.002445
#2	.0085336	.0026115	.0001466	-.004372	.0006490	.0055772	-.006374
#3	-.000393	.0020093	-.000014	-.004579	-.000026	.0001999	-.002283

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB01 Acquired: 3/25/2025 10:40:09 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0003633	-.005116	.0001017
Stddev	.0017834	.000427	.0000281
%RSD	490.8370	8.341643	27.58608
#1	-.001691	-.004888	.0001301
#2	.001272	-.004852	.0001009
#3	.001510	-.005608	.0000741

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3376.861	77971.21	15262.15	2240.192	5418.025
Stddev	6.849	123.83	100.77	8.442	16.194
%RSD	.2028127	.1588165	.6602827	.3768221	.2988958
#1	3375.667	77831.09	15185.52	2237.409	5429.218
#2	3384.228	78065.95	15224.63	2249.673	5425.402
#3	3370.687	78016.58	15376.30	2233.493	5399.456

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-12 Acquired: 3/25/2025 10:44:30 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.001316	-.006078	.0037395	.0051426	-.001115	.0198668	.8761721
Stddev	.002101	.003690	.0005236	.0031010	.000387	.0056331	.0020070
%RSD	159.7004	60.71067	14.00094	60.29967	34.75436	28.35456	.2290638
#1	.000820	-.008624	.0037944	.0041406	-.000867	.0263022	.8745609
#2	-.003381	-.001846	.0031906	.0086208	-.001561	.0174682	.8784203
#3	-.001386	-.007763	.0042334	.0026666	-.000916	.0158299	.8755350

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001954	.0007094	66.74099	.3394110	.0021440	.0058287	1.291517
Stddev	.0000601	.0000552	.09157	.0008253	.0002068	.0002539	.003352
%RSD	30.76563	7.779829	.1372023	.2431721	9.644143	4.356465	.2595633
#1	.0001310	.0006609	66.79604	.3385603	.0022554	.0060806	1.292273
#2	.0002501	.0007695	66.79164	.3402084	.0019054	.0058328	1.294427
#3	.0002052	.0006978	66.63528	.3394643	.0022712	.0055728	1.287852

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1796672	.3887035	.0047407	.0003215	328.8287	-.000020	.4275828
Stddev	.0015470	.0069828	.0001572	.0001029	2.0489	.000644	.0020386
%RSD	.8610396	1.796442	3.315432	32.00511	.6230808	3274.700	.4767833
#1	.1813609	.3811702	.0045969	.0002561	330.0141	.000400	.4281670
#2	.1793121	.3899807	.0047169	.0002682	330.0092	.000302	.4253159
#3	.1783286	.3949596	.0049085	.0004401	326.4629	-.000761	.4292656

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.004120	.1810381	.0004107	-.006432	-.001220	2.724002	.0064620
Stddev	.027592	.0016900	.0002652	.000666	.000094	.012002	.0013788
%RSD	1.376742	.9335156	64.58586	10.34838	7.716270	.4406095	21.33767
#1	1.973024	.1829217	.0001272	-.006674	-.001129	2.710413	.0072960
#2	2.013661	.1796546	.0006528	-.005680	-.001213	2.728435	.0048705
#3	2.025675	.1805380	.0004521	-.006943	-.001317	2.733156	.0072195

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-12 Acquired: 3/25/2025 10:44:30 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.9997447	-.017286	.1870112
Stddev	.0023779	.000671	.0002016
%RSD	.2378504	3.881485	.1078201
#1	1.000468	-.017823	.1867889
#2	.997089	-.016533	.1870626
#3	1.001677	-.017501	.1871822

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3119.360	71773.29	15348.15	2070.092	4527.768
Stddev	2.971	108.03	63.76	17.022	4.578
%RSD	.0952290	.1505189	.4154481	.8222644	.1011036
#1	3122.751	71709.63	15274.53	2059.350	4531.432
#2	3117.217	71898.02	15384.13	2089.718	4522.637
#3	3118.112	71712.20	15385.80	2061.209	4529.236

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-14 Acquired: 3/25/2025 10:48:53 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0037571	-.007232	.0153247	.0041524	-.000923	.1300909	.7342750
Stddev	.0015409	.001993	.0012464	.0012461	.001535	.0038711	.0015413
%RSD	41.01181	27.55858	8.133466	30.00917	166.2468	2.975713	.2099095
#1	.0040458	-.007752	.0163568	.0041724	-.001064	.1311734	.7358084
#2	.0051332	-.008913	.0139399	.0028964	-.002384	.1257938	.7342906
#3	.0020924	-.005030	.0156774	.0053883	.000677	.1333056	.7327259

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000027	.0009004	23.31973	.2603504	.0074589	.0154142	.1975564
Stddev	.000106	.0000127	.01239	.0008433	.0001066	.0003744	.0051805
%RSD	390.9697	1.414895	.0531449	.3239188	1.429198	2.429213	2.622310
#1	-.000139	.0009116	23.30680	.2595714	.0073452	.0155529	.1999060
#2	-.000014	.0009031	23.33150	.2602338	.0074749	.0149902	.1916174
#3	.000072	.0008865	23.32088	.2612459	.0075566	.0156995	.2011459

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.558431	2.384806	.0285949	.0001946	279.8083	.0008124	.4403192
Stddev	.001435	.008020	.0002892	.0001507	2.8679	.0011606	.0015384
%RSD	.0921014	.3363109	1.011306	77.43218	1.024966	142.8635	.3493916
#1	1.557532	2.385270	.0285199	.0000525	279.2636	.0020530	.4387564
#2	1.560086	2.376564	.0283507	.0001787	282.9095	-.000247	.4418320
#3	1.557675	2.392584	.0289142	.0003526	277.2517	.000631	.4403691

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.403955	.1362115	-.000023	-.005056	.0004684	1.946811	.0077919
Stddev	.056226	.0009442	.000124	.000143	.0003994	.010453	.0006060
%RSD	4.004825	.6932066	543.9173	2.820247	85.26279	.5369348	7.777487
#1	1.466472	.1353217	-.000029	-.005053	.0002982	1.954103	.0071028
#2	1.387864	.1372021	-.000144	-.005200	.0001824	1.934835	.0082420
#3	1.357528	.1361107	.000104	-.004915	.0009248	1.951494	.0080308

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-14 Acquired: 3/25/2025 10:48:53 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.8494158	-.011321	.0814146
Stddev	.0055120	.000815	.0002571
%RSD	.6489194	7.196686	.3157688
#1	.8431845	-.011742	.0817112
#2	.8514084	-.010382	.0812768
#3	.8536543	-.011840	.0812557

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3132.984	72161.80	15692.88	2094.103	4606.385
Stddev	11.314	99.77	51.14	7.354	9.515
%RSD	.3611144	.1382626	.3258514	.3511889	.2065542
#1	3144.399	72221.86	15743.01	2098.258	4615.796
#2	3132.779	72046.63	15640.80	2085.612	4606.588
#3	3121.774	72216.91	15694.81	2098.440	4596.770

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-14DUP Acquired: 3/25/2025 10:53:16 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0011847	-.005173	.0150808	.0026990	-.002543	.1394590	.7333514
Stddev	.0022679	.003049	.0011533	.0032286	.001519	.0032574	.0034501
%RSD	191.4255	58.94792	7.647341	119.6219	59.73099	2.335754	.4704557
#1	-.000106	-.008692	.0139949	-.000219	-.003081	.1357551	.7294301
#2	.003803	-.003314	.0149563	.006167	-.003719	.1407442	.7347035
#3	-.000143	-.003513	.0162913	.002149	-.000828	.1418779	.7359207

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000933	.0008989	23.00477	.2579635	.0074376	.0154758	.1976696
Stddev	.0000554	.0000421	.05517	.0006391	.0000197	.0002823	.0042802
%RSD	59.43952	4.681055	.2398063	.2477335	.2651429	1.824309	2.165349
#1	.0001423	.0009161	22.99782	.2585617	.0074152	.0157718	.1959427
#2	.0001043	.0008510	22.95340	.2580385	.0074452	.0152094	.2025434
#3	.0000331	.0009297	23.06308	.2572902	.0074523	.0154463	.1945225

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.538064	2.353484	.0281476	.0004605	285.5152	-.000013	.4392477
Stddev	.000971	.013806	.0001125	.0001435	3.6955	.001504	.0020203
%RSD	.0631104	.5866328	.3997642	31.16664	1.294326	11685.59	.4599463
#1	1.536952	2.337620	.0282239	.0006155	281.3101	-.001709	.4411962
#2	1.538502	2.362780	.0282005	.0004338	288.2459	.000512	.4393845
#3	1.538738	2.360052	.0280184	.0003322	286.9895	.001158	.4371625

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.461066	.1310164	-.000103	-.005013	.0000129	1.954951	.0072267
Stddev	.040601	.0009914	.000154	.000281	.0005653	.011211	.0022608
%RSD	2.778850	.7566677	148.6810	5.615003	4384.053	.5734489	31.28398
#1	1.429855	.1316782	-.000112	-.005268	-.000293	1.942040	.0059091
#2	1.446375	.1298766	.000054	-.005061	.000665	1.962218	.0059338
#3	1.506967	.1314945	-.000253	-.004711	-.000333	1.960596	.0098372

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-14DUP Acquired: 3/25/2025 10:53:16 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.8454606	-.010289	.0814899
Stddev	.0070777	.000504	.0002305
%RSD	.8371366	4.894264	.2829186
#1	.8401262	-.009867	.0812559
#2	.8427659	-.010847	.0814970
#3	.8534898	-.010154	.0817168

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3112.970	73673.24	16223.51	2068.074	4621.622
Stddev	11.445	134.83	71.24	8.759	7.610
%RSD	.3676469	.1830060	.4391026	.4235332	.1646691
#1	3113.255	73791.96	16169.44	2061.209	4620.826
#2	3124.269	73526.66	16304.24	2065.075	4629.600
#3	3101.385	73701.08	16196.87	2077.939	4614.441

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-14LX5 Acquired: 3/25/2025 10:57:40 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.001239	-.002780	.0028652	.0013250	-.000322	.0234614	.1447032
Stddev	.000778	.000739	.0008293	.0023862	.001191	.0029726	.0009170
%RSD	62.77615	26.58719	28.94512	180.0905	370.3075	12.67020	.6337103
#1	-.001451	-.002853	.0038076	-.001326	.000767	.0236154	.1436525
#2	-.000378	-.002007	.0025415	.002001	-.000138	.0204148	.1453423
#3	-.001890	-.003479	.0022466	.003300	-.001594	.0263540	.1451148

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000270	.0000901	4.909826	.0534367	.0013778	.0029138	.0346956
Stddev	.0000324	.0000815	.017180	.0001264	.0000955	.0002220	.0012835
%RSD	119.9220	90.39351	.3499074	.2366065	6.928044	7.618920	3.699363
#1	.0000559	.0001629	4.890157	.0535819	.0012680	.0026845	.0346253
#2	-.000008	.0000021	4.917426	.0533509	.0014236	.0029292	.0360128
#3	.000033	.0001053	4.921895	.0533774	.0014417	.0031277	.0334487

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3244554	.5042781	.0058444	.0005502	57.01323	.0002851	.0899209
Stddev	.0002886	.0057402	.0002235	.0001795	.46280	.0003099	.0007072
%RSD	.0889444	1.138290	3.823548	32.62268	.8117481	108.6966	.7865154
#1	.3246625	.5065855	.0061021	.0005110	57.51493	-.000036	.0891277
#2	.3245779	.4977433	.0057256	.0003936	56.92181	.000309	.0901494
#3	.3241257	.5085055	.0057054	.0007461	56.60297	.000583	.0904857

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3126633	.0265717	-.000116	-.001538	.0007986	.3988013	-.001009
Stddev	.0256799	.0005335	.000257	.000396	.0001902	.0089156	.001104
%RSD	8.213265	2.007782	222.0205	25.72281	23.81808	2.235590	109.4541
#1	.3031578	.0260335	-.000017	-.001696	.0007906	.4082330	-.000157
#2	.3417407	.0265812	-.000407	-.001830	.0009927	.3905120	-.002256
#3	.2930914	.0271004	.000077	-.001087	.0006126	.3976590	-.000613

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-14LX5 Acquired: 3/25/2025 10:57:40 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.1738142	.0020238	.0170341
Stddev	.0023940	.0011431	.0000569
%RSD	1.377328	56.48351	.3338714
#1	.1748052	.0012258	.0169686
#2	.1755536	.0033334	.0170628
#3	.1710839	.0015123	.0170709

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3231.983	75304.89	16135.58	2137.102	4959.514
Stddev	13.679	253.43	61.53	7.749	21.091
%RSD	.4232263	.3365429	.3813115	.3625964	.4252712
#1	3247.777	75012.70	16204.10	2144.092	4983.834
#2	3224.232	75437.05	16117.56	2138.444	4946.231
#3	3223.940	75464.94	16085.07	2128.769	4948.477

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-14MS Acquired: 3/25/2025 11:01:57 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7708363	1.740571	.8811810	1.900829	.7962251	1.961386	.9951024
Stddev	.0040578	.009862	.0024080	.006014	.0033617	.005101	.0031979
%RSD	.5264155	.5665931	.2732695	.3163645	.4222100	.2600816	.3213632
#1	.7748154	1.751631	.8792719	1.906036	.7988230	1.957251	.9935993
#2	.7667041	1.737389	.8803848	1.894247	.7974240	1.959821	.9929329
#3	.7709895	1.732693	.8838862	1.902205	.7924282	1.967087	.9987749

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1657943	.1822167	26.89622	.6706073	.1924440	.2940028	3.035445
Stddev	.0007114	.0001620	.08763	.0017191	.0002915	.0008684	.020961
%RSD	.4290567	.0888826	.3258035	.2563556	.1514831	.2953599	.6905377
#1	.1651282	.1823216	26.83198	.6725913	.1925905	.2949805	3.053598
#2	.1657112	.1820302	26.86064	.6695569	.1921083	.2937070	3.012504
#3	.1665436	.1822984	26.99605	.6696738	.1926331	.2933210	3.040232

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.895326	4.357713	.4878640	.0709756	313.7844	.2696975	.6905492
Stddev	.010060	.014902	.0002789	.0002672	2.6238	.0025858	.0028875
%RSD	.5308037	.3419651	.0571632	.3764056	.8361675	.9587774	.4181375
#1	1.890173	4.347589	.4876035	.0712010	316.7841	.2667847	.6872755
#2	1.888886	4.350726	.4878305	.0710453	312.6520	.2705853	.6916387
#3	1.906919	4.374825	.4881582	.0706805	311.9169	.2717224	.6927334

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.04507	.3806390	.4068898	.6527984	.1822655	3.014684	5.664282
Stddev	.06931	.0032442	.0009415	.0018927	.0010670	.007665	.013221
%RSD	.5754316	.8523109	.2313774	.2899394	.5854206	.2542489	.2334065
#1	12.11916	.3790056	.4066922	.6519460	.1810342	3.019115	5.651724
#2	11.98181	.3785362	.4060629	.6514817	.1829193	3.019104	5.663043
#3	12.03424	.3843753	.4079144	.6549674	.1828429	3.005834	5.678078

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-14MS Acquired: 3/25/2025 11:01:57 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.9514402	.1793133	.2647524
Stddev	.0029283	.0005975	.0006434
%RSD	.3077758	.3332190	.2430309
#1	.9505803	.1786234	.2640115
#2	.9490380	.1796609	.2650750
#3	.9547021	.1796557	.2651707

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3100.288	71601.91	15589.92	2029.533	4550.140
Stddev	7.745	91.55	79.78	2.804	9.193
%RSD	.2498281	.1278545	.5117296	.1381548	.2020361
#1	3104.886	71496.45	15661.28	2032.208	4559.175
#2	3104.632	71648.41	15604.70	2029.775	4550.449
#3	3091.346	71660.88	15503.79	2026.616	4540.797

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-14MSD Acquired: 3/25/2025 11:06:08 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7646097	1.724784	.8821933	1.885766	.7923554	1.957176	1.014556
Stddev	.0018175	.005708	.0018268	.001226	.0026011	.007173	.004041
%RSD	.2376981	.3309652	.2070732	.0650218	.3282765	.3665197	.3983214
#1	.7631476	1.723858	.8814704	1.886727	.7907289	1.964337	1.017087
#2	.7640371	1.719594	.8808387	1.884385	.7953553	1.949990	1.009896
#3	.7666445	1.730898	.8842710	1.886187	.7909819	1.957203	1.016686

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1676312	.1823600	27.33385	.6732582	.1924760	.2938846	3.089195
Stddev	.0011899	.0003007	.10361	.0012597	.0007021	.0004622	.025704
%RSD	.7098459	.1649087	.3790560	.1871016	.3647889	.1572884	.8320635
#1	.1689176	.1825076	27.43773	.6745417	.1923762	.2933664	3.117423
#2	.1665699	.1820140	27.23052	.6732089	.1918291	.2940329	3.083026
#3	.1674062	.1825585	27.33330	.6720238	.1932227	.2942545	3.067137

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.920825	4.392776	.4879955	.0713920	323.5761	.2729430	.6939044
Stddev	.009368	.006868	.0009470	.0003889	5.3448	.0023612	.0033390
%RSD	.4877135	.1563445	.1940560	.5448145	1.651778	.8650847	.4811937
#1	1.928694	4.400706	.4879332	.0716776	329.6935	.2731277	.6964332
#2	1.910462	4.388740	.4870812	.0715494	319.8105	.2704949	.6901195
#3	1.923318	4.388882	.4889721	.0709490	321.2243	.2752064	.6951605

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.19579	.3847481	.4050566	.6546954	.1842104	3.041551	5.705948
Stddev	.02046	.0001476	.0008046	.0010645	.0012068	.010140	.008536
%RSD	.1677628	.0383737	.1986439	.1625891	.6551402	.3333757	.1495999
#1	12.17455	.3846186	.4041785	.6551067	.1856000	3.038424	5.709381
#2	12.21537	.3849088	.4052328	.6554929	.1836065	3.052885	5.696230
#3	12.19745	.3847168	.4057586	.6534867	.1834248	3.033342	5.712233

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-14MSD Acquired: 3/25/2025 11:06:08 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.9391044	.1792359	.2681339
Stddev	.0045502	.0003864	.0011784
%RSD	.4845288	.2155726	.4394846
#1	.9401534	.1795178	.2690592
#2	.9430386	.1787955	.2668073
#3	.9341213	.1793945	.2685354

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3117.241	71117.75	15580.87	2053.185	4562.372
Stddev	2.386	277.75	123.19	14.685	6.626
%RSD	.0765475	.3905561	.7906621	.7152378	.1452341
#1	3117.404	70797.14	15466.52	2041.101	4557.645
#2	3119.541	71285.58	15711.32	2069.529	4569.945
#3	3114.777	71270.52	15564.77	2048.924	4559.524

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-14A Acquired: 3/25/2025 11:10:19 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7621760	1.720898	.8803211	1.885100	.7916704	1.978996	1.012125
Stddev	.0038515	.009226	.0020783	.004517	.0030322	.009603	.002858
%RSD	.5053321	.5361066	.2360813	.2396224	.3830102	.4852609	.2823844
#1	.7621879	1.729632	.8798246	1.888366	.7921134	1.989558	1.011518
#2	.7583185	1.711248	.8785360	1.879945	.7884411	1.976639	1.009619
#3	.7660215	1.721815	.8826027	1.886989	.7944567	1.970791	1.015238

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1678856	.1819503	27.17709	.6635196	.1926148	.2948043	3.004893
Stddev	.0012827	.0005110	.07479	.0015489	.0002900	.0003807	.002983
%RSD	.7640413	.2808260	.2751839	.2334423	.1505603	.1291235	.0992574
#1	.1684435	.1817607	27.15250	.6646055	.1927290	.2948818	3.003003
#2	.1687949	.1815613	27.26108	.6642075	.1922851	.2943909	3.003345
#3	.1664185	.1825290	27.11770	.6617459	.1928304	.2951403	3.008331

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.924334	4.383029	.4887012	.0702635	316.3696	.2722498	.6822405
Stddev	.005001	.035247	.0010354	.0001771	1.5184	.0003069	.0023439
%RSD	.2598929	.8041676	.2118689	.2520517	.4799475	.1127124	.3435573
#1	1.926909	4.390127	.4884745	.0701039	316.7453	.2718985	.6795506
#2	1.927523	4.414187	.4877979	.0702326	314.6986	.2723853	.6833262
#3	1.918570	4.344774	.4898312	.0704540	317.6648	.2724655	.6838447

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.87901	.3857886	.4062956	.6510995	.1842733	2.956655	5.711504
Stddev	.07445	.0022094	.0007742	.0011466	.0007949	.018219	.024031
%RSD	.6267281	.5727014	.1905376	.1761103	.4313451	.6161864	.4207538
#1	11.89106	.3868963	.4070075	.6519890	.1835073	2.956725	5.722175
#2	11.79928	.3872250	.4054715	.6498054	.1850942	2.938402	5.683985
#3	11.94671	.3832444	.4064077	.6515040	.1842184	2.974838	5.728351

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-14A Acquired: 3/25/2025 11:10:19 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.9378186	.1810894	.2683486
Stddev	.0035655	.0014356	.0005875
%RSD	.3801932	.7927600	.2189165
#1	.9403516	.1819911	.2683606
#2	.9337413	.1794339	.2677553
#3	.9393631	.1818432	.2689300

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3119.923	72957.09	15480.17	2072.312	4567.110
Stddev	4.519	178.04	101.34	6.440	6.435
%RSD	.1448343	.2440313	.6546333	.3107539	.1409085
#1	3121.421	72973.30	15458.33	2079.747	4572.423
#2	3123.503	72771.50	15391.53	2068.695	4568.953
#3	3114.845	73126.47	15590.64	2068.494	4559.954

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167260BL Acquired: 3/25/2025 11:14:29 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.002239	-.001929	-.000681	.0046637	.0003044	-.006206	-.007985
Stddev	.002015	.001323	.001040	.0011331	.0005897	.002886	.000463
%RSD	90.02093	68.60079	152.7600	24.29683	193.7210	46.50207	5.801751
#1	.000007	-.001072	.000326	.0054624	.0006465	-.009512	-.007998
#2	-.002832	-.001262	-.001751	.0033668	.0006433	-.004192	-.007515
#3	-.003891	-.003453	-.000617	.0051618	-.000377	-.004913	-.008442

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000295	-.000049	-.004334	.0000399	.0000003	-.000065	-.008898
Stddev	.0000281	.000033	.006851	.0002033	.0001184	.000164	.001987
%RSD	95.23764	65.97326	158.1005	509.3101	46098.63	251.6265	22.32928
#1	.0000256	-.000012	.003536	-.000089	.0001103	-.000122	-.010207
#2	.0000036	-.000065	-.008971	-.000065	-.000125	.000120	-.006612
#3	.0000595	-.000071	-.007566	.000274	.000016	-.000194	-.009876

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001226	-.000512	.0001818	.0005552	.1318101	.0002899	-.001288
Stddev	.000318	.006953	.0002358	.0002281	.0068590	.0007082	.000282
%RSD	25.94262	1356.753	129.7099	41.08993	5.203712	244.2999	21.90524
#1	-.000875	.006914	.0002484	.0003143	.1326888	.0011050	-.000967
#2	-.001308	-.006869	-.000080	.0005833	.1381874	-.000174	-.001403
#3	-.001496	-.001583	.000377	.0007680	.1245540	-.000061	-.001495

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0992932	-.004333	-.000113	-.000629	.0004020	.0013130	-.001288
Stddev	.0090214	.000157	.000134	.000590	.0002424	.0064331	.001691
%RSD	9.085576	3.625488	118.1412	93.86943	60.29209	489.9433	131.3141
#1	.1024903	-.004392	-.000023	.000020	.0002794	-.005870	-.002697
#2	.0891087	-.004452	-.000050	-.000771	.0006812	.006545	.000588
#3	.1062806	-.004155	-.000267	-.001135	.0002454	.003264	-.001754

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167260BL Acquired: 3/25/2025 11:14:29 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.000306	.0050456	-.000005
Stddev	.001601	.0004759	.000027
%RSD	522.5099	9.432635	528.3246
#1	-.001164	.0046285	.000025
#2	-.001296	.0055640	-.000014
#3	.001541	.0049443	-.000026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3368.906	76948.45	16088.56	2193.292	5433.822
Stddev	7.079	164.74	154.66	2.851	9.420
%RSD	.2101352	.2140901	.9613053	.1299676	.1733503
#1	3373.342	76759.32	15962.29	2190.213	5438.893
#2	3372.634	77060.65	16042.34	2193.822	5439.620
#3	3360.741	77025.39	16261.06	2195.840	5422.954

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167260BS Acquired: 3/25/2025 11:18:49 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7693053	1.948246	.9147698	1.977115	.8029216	1.860170
Stddev	.0074812	.005695	.0020067	.005676	.0044358	.009387
%RSD	.9724585	.2922993	.2193715	.2870737	.5524631	.5046103
#1	.7672233	1.953256	.9127857	1.971836	.8022639	1.857648
#2	.7630857	1.942053	.9147253	1.976391	.7988514	1.870560
#3	.7776070	1.949429	.9167985	1.983118	.8076496	1.852302

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1718295	.1784389	.1821547	.9337822	.3981504	.1862542
Stddev	.0009241	.0003637	.0003383	.0132431	.0062321	.0008632
%RSD	.5377832	.2038473	.1857059	1.418217	1.565271	.4634601
#1	.1708150	.1783728	.1821676	.9262074	.3965097	.1859580
#2	.1726231	.1788311	.1818101	.9490738	.3929028	.1855780
#3	.1720504	.1781127	.1824863	.9260654	.4050388	.1872265

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3057226	2.930020	.1807393	1.780621	.4664487	.0754636
Stddev	.0010846	.051002	.0004932	.009925	.0013638	.0014410
%RSD	.3547540	1.740681	.2728999	.5574097	.2923865	1.909524
#1	.3055299	2.901722	.1806794	1.788036	.4665715	.0748637
#2	.3047473	2.899440	.1812597	1.784481	.4650276	.0744194
#3	.3068905	2.988897	.1802787	1.769346	.4677469	.0771076

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.788649	.2762820	.2037529	9.820820	.2569180	.3989475
Stddev	.067245	.0014262	.0031157	.167500	.0008898	.0018377
%RSD	2.411398	.5161968	1.529175	1.705556	.3463175	.4606454
#1	2.757322	.2763181	.2032455	9.749555	.2559341	.3983561
#2	2.742783	.2776898	.2009220	9.700738	.2576662	.3974783
#3	2.865843	.2748381	.2070912	10.01217	.2571536	.4010082

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167260BS Acquired: 3/25/2025 11:18:49 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6450455	.1819035	.7797914	5.355566	F -.009680	.1883406
Stddev	.0027374	.0007019	.0205111	.011881	.003846	.0021829
%RSD	.4243665	.3858594	2.630338	.2218453	39.73100	1.159044
#1	.6462309	.1820665	.7685719	5.347315	-.014109	.1888449
#2	.6419153	.1825096	.7673374	5.350201	-.007191	.1902273
#3	.6469905	.1811345	.8034649	5.369184	-.007739	.1859496

Elem	Sr4077
Units	ppm
Avg	.1813859
Stddev	.0009495
%RSD	.5234611
#1	.1808860
#2	.1824809
#3	.1807908

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3296.982	74230.18	15888.24	2130.100	5198.215
Stddev	13.855	1017.87	105.72	21.261	13.626
%RSD	.4202401	1.371228	.6653957	.9981328	.2621208
#1	3298.983	74535.55	15851.70	2128.171	5194.506
#2	3309.728	75060.40	15805.63	2152.260	5213.311
#3	3282.235	73094.58	16007.38	2109.869	5186.828

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1625-01 Acquired: 3/25/2025 11:22:52 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.1098751	-.003029	1.645089	-.046871	.0010602	223.9360
Stddev	.0010776	.004138	.004506	.003617	.0027669	1.0659
%RSD	.9807784	136.5935	.2739153	7.716705	260.9802	.4759776
#1	.1110622	-.000960	1.639951	-.044096	-.002069	225.0677
#2	.1089585	-.007794	1.646945	-.050962	.003184	223.7892
#3	.1096047	-.000334	1.648371	-.045555	.002066	222.9512

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.099707	.0149487	.0246882	300.6058	.2697945	.2917591
Stddev	.006137	.0001830	.0002739	1.6602	.0000971	.0006295
%RSD	.1979787	1.224459	1.109217	.5523005	.0359840	.2157679
#1	3.096299	.0147780	.0245087	299.0654	.2697602	.2910364
#2	3.106792	.0149260	.0245525	300.3878	.2699041	.2920529
#3	3.096031	.0151420	.0250034	302.3643	.2697193	.2921880

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.778285	285.4472	8.450724	131.7657	.5092336	.0008948
Stddev	.003515	.3440	.015055	.1174	.0009008	.0002468
%RSD	.1976773	.1204974	.1781540	.0890939	.1768987	27.57746
#1	1.775416	285.8387	8.449419	131.9002	.5082363	.0011549
#2	1.777234	285.3096	8.466389	131.7129	.5099882	.0008655
#3	1.782207	285.1933	8.436363	131.6839	.5094764	.0006640

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1251.790	.3776254	3.359551	52.19399	.2181501	.0084286
Stddev	16.191	.0008959	.006411	.10315	.0030483	.0002075
%RSD	1.293408	.2372363	.1908204	.1976209	1.397317	2.461243
#1	1269.868	.3783183	3.363616	52.26538	.2208064	.0083193
#2	1238.625	.3766137	3.362877	52.24086	.2148220	.0082986
#3	1246.875	.3779440	3.352161	52.07573	.2188219	.0086678

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1625-01 Acquired: 3/25/2025 11:22:52 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0697172	3.498348	F 100.2719	F 22.38384	F 54.40447	.4551941
Stddev	.0013351	.008268	.0689	.04931	.12416	.0017585
%RSD	1.914983	.2363399	.0687556	.2202924	.2282147	.3863280
#1	.0696447	3.506694	100.3385	22.32907	54.29069	.4563630
#2	.0710870	3.498189	100.2008	22.39773	54.38581	.4560476
#3	.0684198	3.490161	100.2763	22.42471	54.53690	.4531717

Elem	Sr4077
Units	ppm
Avg	1.895910
Stddev	.019441
%RSD	1.025410
#1	1.912799
#2	1.900271
#3	1.874658

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3579.288	84115.58	20415.67	2359.445	3449.642
Stddev	4.801	109.47	21.88	15.629	1.784
%RSD	.1341194	.1301420	.1071512	.6623845	.0517277
#1	3574.301	83990.70	20432.92	2342.867	3451.620
#2	3583.878	84161.01	20391.06	2361.560	3449.153
#3	3579.686	84195.01	20423.02	2373.908	3448.153

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV02 Acquired: 3/25/2025 11:27:29 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	4.949085	4.938818	4.811853	4.981389	4.997254	9.678502	9.382511
Stddev	.004799	.046339	.002398	.014077	.017504	.030141	.012459
%RSD	.0969756	.9382662	.0498285	.2825905	.3502636	.3114171	.1327869
#1	4.952632	4.888112	4.810020	4.982946	5.005992	9.643974	9.374866
#2	4.943624	4.949373	4.810971	4.966598	4.977101	9.691981	9.396887
#3	4.951000	4.978970	4.814566	4.994622	5.008668	9.699551	9.375779

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2338288	2.388126	23.23172	.9867663	2.397965	1.245421	4.816656
Stddev	.0009660	.002763	.05900	.0049441	.004758	.002960	.028525
%RSD	.4131140	.1157006	.2539532	.5010455	.1984206	.2376872	.5922228
#1	.2327148	2.388243	23.18881	.9921302	2.395306	1.248236	4.848008
#2	.2343370	2.385306	23.20734	.9857772	2.395131	1.242334	4.809724
#3	.2344346	2.390828	23.29900	.9823914	2.403459	1.245693	4.792236

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.303261	23.37452	2.393637	1.233049	24.34427	2.382425	2.485342
Stddev	.007649	.06731	.004133	.001556	.16001	.012867	.000537
%RSD	.3320784	.2879549	.1726619	.1261632	.6572820	.5400633	.0215968
#1	2.299318	23.31262	2.391599	1.234736	24.52276	2.370235	2.485948
#2	2.298389	23.36478	2.390920	1.232738	24.21369	2.381163	2.485155
#3	2.312077	23.44617	2.398393	1.231672	24.29636	2.395876	2.484924

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.89040	4.664034	4.999152	4.819461	4.726608	5.296756	4.852573
Stddev	.09960	.017032	.006450	.005011	.012076	.010729	.022419
%RSD	.4001621	.3651875	.1290318	.1039761	.2554975	.2025585	.4620008
#1	24.99112	4.644929	5.000577	4.817970	4.718464	5.296181	4.833232
#2	24.79196	4.669542	4.992108	4.815365	4.720878	5.286326	4.847341
#3	24.88811	4.677630	5.004771	4.825049	4.740483	5.307761	4.877145

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV02 Acquired: 3/25/2025 11:27:29 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	4.778946	4.768750	4.733150
Stddev	.019852	.016379	.081622
%RSD	.4154068	.3434562	1.724477
#1	4.762422	4.753493	4.646028
#2	4.773449	4.766701	4.745573
#3	4.800968	4.786057	4.807848

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3229.920	73067.89	15024.72	2107.431	4784.874
Stddev	6.524	227.40	33.08	4.350	4.883
%RSD	.2019714	.3112186	.2201656	.2063901	.1020607
#1	3223.248	72806.84	15055.26	2103.561	4783.531
#2	3236.284	73222.89	15029.32	2112.139	4790.289
#3	3230.228	73173.95	14989.58	2106.593	4780.803

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB02 Acquired: 3/25/2025 11:31:40 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.000303	-.000802	-.000653	.0007630	-.000149	-.005639	-.008450
Stddev	.001612	.000813	.000553	.0017240	.000776	.002045	.000393
%RSD	532.7146	101.3454	84.71313	225.9544	520.9424	36.26836	4.653117
#1	.000003	-.000429	-.000408	-.001227	-.000048	-.003691	-.008868
#2	.001134	-.000243	-.001287	.001809	.000572	-.007769	-.008088
#3	-.002045	-.001735	-.000265	.001707	-.000970	-.005457	-.008394

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000202	-.000115	.0057101	.0000197	-.000106	-.000298	-.008129
Stddev	.0000204	.000063	.0036831	.0004364	.000191	.000448	.002001
%RSD	101.1167	54.77846	64.50106	2217.084	181.0020	150.3866	24.61665
#1	-.000001	-.000182	.0026265	-.000482	-.000261	-.000721	-.009485
#2	.000022	-.000106	.0047155	.000227	-.000164	-.000344	-.009072
#3	.000039	-.000057	.0097884	.000313	.000108	.000171	-.005831

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001133	.0018246	-.000024	.0006330	.1562390	.0011773	-.000791
Stddev	.000107	.0066456	.000074	.0001604	.0118347	.0007003	.000332
%RSD	9.421541	364.2214	312.7888	25.33153	7.574708	59.48726	41.90031
#1	-.001054	-.001128	-.000109	.0005232	.1425743	.0004216	-.000515
#2	-.001255	-.002833	.000024	.0008171	.1629497	.0018044	-.001159
#3	-.001090	.009435	.000014	.0005588	.1631932	.0013059	-.000700

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2198264	-.000473	.0003732	-.003891	.0013076	.0139503	-.003915
Stddev	.0141811	.000407	.0000863	.000229	.0005998	.0079805	.000856
%RSD	6.451053	86.04108	23.13152	5.894970	45.87085	57.20674	21.85589
#1	.2130194	-.000928	.0003492	-.004141	.0008549	.0121277	-.003441
#2	.2361277	-.000147	.0003014	-.003690	.0019879	.0226845	-.004902
#3	.2103322	-.000343	.0004690	-.003843	.0010800	.0070388	-.003400

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB02 Acquired: 3/25/2025 11:31:40 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0018177	.0025300	.0001522
Stddev	.0040682	.0009045	.0000297
%RSD	223.8101	35.75240	19.48658
#1	.0020701	.0030081	.0001212
#2	-.002371	.0030952	.0001552
#3	.005754	.0014867	.0001803

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3335.182	76102.20	15516.77	2185.301	5337.177
Stddev	5.865	206.71	126.06	6.318	12.429
%RSD	.1758553	.2716226	.8124394	.2891143	.2328815
#1	3338.576	76095.60	15650.68	2190.050	5339.806
#2	3338.560	75898.86	15499.24	2178.130	5348.081
#3	3328.409	76312.13	15400.39	2187.724	5323.643

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1625-01DUP Acquired: 3/25/2025 11:35:59 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.1118370	-.005062	1.634061	-.048881	-.000257	225.9902
Stddev	.0005115	.003652	.011666	.002839	.001710	2.5762
%RSD	.4573908	72.13515	.7139153	5.808802	664.2853	1.139976
#1	.1123796	-.009093	1.627802	-.049627	-.002231	228.7803
#2	.1117679	-.001974	1.647520	-.045743	.000759	223.7016
#3	.1113636	-.004120	1.626860	-.051273	.000700	225.4888

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.137515	.0150022	.0238670	303.6432	.2686035	.2907266
Stddev	.016761	.0002305	.0006342	3.2178	.0009270	.0015020
%RSD	.5342191	1.536690	2.657375	1.059720	.3451212	.5166348
#1	3.155958	.0152156	.0236746	307.2133	.2689618	.2896793
#2	3.123210	.0147577	.0245751	300.9666	.2675508	.2924474
#3	3.133377	.0150333	.0233512	302.7498	.2692978	.2900530

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.763850	289.9678	8.533178	131.7673	.5069212	.0011753
Stddev	.005778	1.5979	.077517	.9713	.0030391	.0004156
%RSD	.3275586	.5510627	.9084156	.7371685	.5995282	35.36242
#1	1.762333	288.7054	8.616773	132.8662	.5046011	.0008179
#2	1.770236	289.4336	8.463673	131.0236	.5103614	.0016314
#3	1.758983	291.7643	8.519087	131.4119	.5058012	.0010767

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1286.035	.3779125	3.396990	52.90546	.2476538	.0085338
Stddev	9.252	.0019847	.013256	.34622	.0087944	.0004314
%RSD	.7194196	.5251758	.3902340	.6544109	3.551093	5.055054
#1	1277.265	.3801444	3.382622	52.51320	.2377333	.0080437
#2	1295.704	.3772475	3.399602	53.03473	.2507353	.0087017
#3	1285.135	.3763457	3.408745	53.16845	.2544928	.0088559

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1625-01DUP Acquired: 3/25/2025 11:35:59 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0686246	3.523595	F 102.3497	F 22.26294	F 54.12376	.4550287
Stddev	.0017811	.024169	.7551	.07928	.28322	.0006579
%RSD	2.595465	.6859184	.7377951	.3560909	.5232761	.1445794
#1	.0705832	3.550808	101.4931	22.20725	53.92608	.4547971
#2	.0681885	3.504627	102.6367	22.35370	54.44822	.4545180
#3	.0671019	3.515351	102.9191	22.22788	53.99697	.4557711

Elem	Sr4077
Units	ppm
Avg	1.939912
Stddev	.029730
%RSD	1.532539
#1	1.957453
#2	1.905586
#3	1.956698

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3575.324	83198.06	20457.06	2343.632	3441.536
Stddev	6.567	239.28	198.40	10.327	15.110
%RSD	.1836697	.2875982	.9698548	.4406221	.4390510
#1	3575.377	83420.34	20230.49	2350.896	3449.952
#2	3568.731	83229.05	20599.69	2348.189	3424.092
#3	3581.864	82944.80	20541.02	2331.811	3450.564

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1625-01LX5 Acquired: 3/25/2025 11:40:36 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0241706	.0018044	.3519494	-.009749	-.002577	56.12492
Stddev	.0019578	.0026001	.0028908	.003801	.000770	.19091
%RSD	8.100034	144.1003	.8213648	38.98831	29.86241	.3401584
#1	.0228026	.0000240	.3500795	-.010482	-.003453	56.20654
#2	.0232959	.0047882	.3504896	-.005635	-.002008	56.26146
#3	.0264132	.0006010	.3552790	-.013129	-.002271	55.90677

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7936707	.0039777	-.000540	82.18990	.0739218	.0598441
Stddev	.0021462	.0000626	.000183	.20982	.0007816	.0001872
%RSD	.2704159	1.574830	33.85391	.2552848	1.057310	.3127663
#1	.7949148	.0039431	-.000719	82.40477	.0737373	.0597876
#2	.7949048	.0040500	-.000546	82.17942	.0747792	.0596916
#3	.7911925	.0039400	-.000354	81.98553	.0732490	.0600530

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5056939	75.49517	2.282116	34.68976	.1069377	.0010581
Stddev	.0028479	.24914	.007949	.13393	.0007778	.0001327
%RSD	.5631692	.3300031	.3483297	.3860754	.7272957	12.53647
#1	.5038699	75.68622	2.290040	34.81753	.1062656	.0011830
#2	.5042363	75.58591	2.282167	34.70133	.1067578	.0010724
#3	.5089756	75.21339	2.274142	34.55043	.1077896	.0009189

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	320.9831	.1013007	.8686512	12.08275	.0711645	.0021994
Stddev	2.8666	.0001752	.0043586	.09509	.0010079	.0003877
%RSD	.8930654	.1729793	.5017605	.7869955	1.416256	17.62788
#1	321.0217	.1011789	.8641145	12.09750	.0718847	.0021107
#2	323.8303	.1012217	.8728065	12.16960	.0700127	.0026238
#3	318.0975	.1015015	.8690326	11.98114	.0715961	.0018638

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1625-01LX5 Acquired: 3/25/2025 11:40:36 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0082532	.9326456	F 25.05334	4.347801	F 10.54858	.1235253
Stddev	.0000879	.0060975	.08576	.002472	.03055	.0019596
%RSD	1.065259	.6537844	.3423090	.0568484	.2896582	1.586354
#1	.0083499	.9354555	25.02072	4.345378	10.53598	.1255625
#2	.0082315	.9368315	25.15062	4.347708	10.52634	.1233593
#3	.0081781	.9256498	24.98867	4.350318	10.58342	.1216540

Elem	Sr4077
Units	ppm
Avg	.5045506
Stddev	.0022359
%RSD	.4431457
#1	.5063069
#2	.5053111
#3	.5020336

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3191.944	73004.48	16978.13	2098.807	4190.319
Stddev	9.363	224.20	38.84	4.713	9.306
%RSD	.2933453	.3070994	.2287384	.2245654	.2220928
#1	3202.315	73000.10	16944.15	2102.798	4198.994
#2	3189.406	72782.51	16969.77	2093.607	4191.474
#3	3184.111	73230.84	17020.46	2100.014	4180.489

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1625-01MS Acquired: 3/25/2025 11:44:53 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7102945	1.728061	2.016958	1.483338	.3017434	134.7249
Stddev	.0023695	.013079	.004085	.004103	.0025016	.0639
%RSD	.3335926	.7568356	.2025556	.2765764	.8290321	.0474588
#1	.7130301	1.714779	2.019312	1.486542	.2988659	134.7495
#2	.7088834	1.740926	2.012240	1.478714	.3034010	134.6524
#3	.7089700	1.728477	2.019321	1.484756	.3029633	134.7729

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.621102	.1478379	.2029500	322.6448	.4515909	.3897321
Stddev	.004988	.0013326	.0003816	.5067	.0078081	.0005694
%RSD	.1903044	.9014206	.1880103	.1570551	1.729019	.1461006
#1	2.619493	.1463867	.2033465	322.5349	.4456948	.3892392
#2	2.617117	.1490067	.2029179	323.1975	.4486319	.3896016
#3	2.626696	.1481203	.2025854	322.2021	.4604460	.3903554

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.643869	188.1087	8.594196	112.3587	.7817404	.0678317
Stddev	.001189	3.1130	.035040	.3801	.0021515	.0004692
%RSD	.0723339	1.654889	.4077192	.3383305	.2752163	.6917453
#1	1.642754	186.5923	8.554122	111.9240	.7803210	.0675081
#2	1.645121	186.0446	8.609404	112.6286	.7806845	.0676172
#3	1.643732	191.6894	8.619064	112.5235	.7842159	.0683699

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1375.518	.4704518	3.158859	53.92995	.4651276	.2806964
Stddev	17.007	.0007076	.034282	.91249	.0066806	.0012453
%RSD	1.236405	.1504020	1.085251	1.691987	1.436291	.4436324
#1	1368.989	.4699296	3.144087	53.64086	.4616016	.2798698
#2	1362.743	.4712571	3.134440	53.19702	.4609487	.2800907
#3	1394.822	.4701688	3.198050	54.95196	.4728324	.2821286

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1625-01MS Acquired: 3/25/2025 11:44:53 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.5812204	2.463304	F 102.1175	F 18.21081	F 47.06106	.4075808
Stddev	.0022287	.002822	1.6416	.07061	.15326	.0026677
%RSD	.3834457	.1145598	1.607599	.3877372	.3256669	.6545079
#1	.5788892	2.463169	101.5277	18.16509	47.02899	.4071194
#2	.5833299	2.460553	100.8523	18.17522	46.92636	.4051740
#3	.5814422	2.466192	103.9726	18.29214	47.22781	.4104491

Elem	Sr4077
Units	ppm
Avg	2.240596
Stddev	.018415
%RSD	.8218847
#1	2.228050
#2	2.261737
#3	2.232001

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3322.546	76023.72	18643.42	2182.865	3526.746
Stddev	3.120	1015.03	106.77	19.745	.975
%RSD	.0938974	1.335155	.5726876	.9045260	.0276585
#1	3324.445	76675.16	18735.84	2186.126	3527.577
#2	3318.945	76541.80	18526.54	2200.776	3526.989
#3	3324.248	74854.19	18667.87	2161.693	3525.672

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1625-01MSD Acquired: 3/25/2025 11:49:19 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7048371	1.722154	1.998177	1.450770	.2965368	134.8988
Stddev	.0042020	.006935	.006931	.011435	.0020212	.2418
%RSD	.5961717	.4027218	.3468452	.7882171	.6816161	.1792748
#1	.7071538	1.715789	1.991876	1.463974	.2985966	134.6527
#2	.7073710	1.729546	1.997055	1.444234	.2945565	135.1362
#3	.6999867	1.721129	2.005600	1.444102	.2964574	134.9073

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.642609	.1495586	.2019392	328.1904	.4470975	.3886389
Stddev	.005511	.0014096	.0011351	4.6145	.0005736	.0020276
%RSD	.2085586	.9424924	.5620781	1.406055	.1282926	.5217191
#1	2.637033	.1479919	.2010058	322.9664	.4475485	.3871698
#2	2.648053	.1499599	.2016090	329.8931	.4464520	.3877947
#3	2.642741	.1507241	.2032027	331.7116	.4472922	.3909522

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.630510	184.5333	8.658144	112.6675	.7815266	.0666693
Stddev	.005055	.5687	.054598	.8193	.0028289	.0002746
%RSD	.3100458	.3081759	.6305943	.7271462	.3619670	.4119338
#1	1.626264	184.9752	8.595652	111.7223	.7793228	.0665115
#2	1.629163	184.7331	8.696601	113.1057	.7805405	.0665100
#3	1.636102	183.8917	8.682180	113.1744	.7847165	.0669864

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1369.469	.4714584	3.120239	52.57710	.4581882	.2787640
Stddev	3.207	.0015884	.012322	.32215	.0011370	.0001615
%RSD	.2342058	.3369192	.3949031	.6127107	.2481441	.0579306
#1	1369.832	.4697604	3.112297	52.89573	.4591446	.2785821
#2	1366.096	.4717066	3.134434	52.58403	.4584889	.2788906
#3	1372.480	.4729080	3.113986	52.25155	.4569311	.2788193

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1625-01MSD Acquired: 3/25/2025 11:49:19 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.5772573	2.488695	F 99.89951	F 18.19783	F 46.53133	.4053061
Stddev	.0013178	.007051	.54286	.06710	.13699	.0009343
%RSD	.2282934	.2833165	.5434035	.3687085	.2944093	.2305189
#1	.5758447	2.481416	100.4519	18.16152	46.48628	.4062356
#2	.5774737	2.495494	99.8799	18.15671	46.42253	.4053157
#3	.5784536	2.489176	99.3667	18.27526	46.68517	.4043670

Elem	Sr4077
Units	ppm
Avg	2.246977
Stddev	.012086
%RSD	.5378586
#1	2.260822
#2	2.238540
#3	2.241569

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3362.063	77628.47	18488.46	2230.709	3556.097
Stddev	3.164	31.06	170.58	9.067	7.213
%RSD	.0941229	.0400062	.9226174	.4064835	.2028471
#1	3364.378	77619.04	18682.78	2238.493	3564.074
#2	3358.457	77603.22	18419.17	2220.753	3554.187
#3	3363.354	77663.15	18363.44	2232.883	3550.031

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1625-01A Acquired: 3/25/2025 11:53:45 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7200494	1.715337	2.168362	1.514350	.6552660	167.4225
Stddev	.0065058	.008378	.011261	.000673	.0014638	.1044
%RSD	.9035165	.4884287	.5193347	.0444282	.2233951	.0623602
#1	.7169395	1.724608	2.166879	1.514647	.6536244	167.4633
#2	.7156822	1.708308	2.157916	1.513579	.6564355	167.5004
#3	.7275264	1.713094	2.180291	1.514823	.6557382	167.3039

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.862064	.1441370	.2031899	313.6235	.4761489	.4197020
Stddev	.007922	.0001691	.0007878	1.5160	.0018181	.0010985
%RSD	.2767892	.1173398	.3877076	.4833694	.3818239	.2617349
#1	2.860521	.1443274	.2029031	312.8181	.4759094	.4190891
#2	2.870643	.1440795	.2025856	315.3722	.4780749	.4190466
#3	2.855027	.1440042	.2040809	312.6802	.4744625	.4209702

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.744258	229.4220	8.607325	119.2689	.8455100	.0655341
Stddev	.003033	.7102	.025519	.0489	.0024054	.0003132
%RSD	.1738725	.3095642	.2964852	.0409716	.2844943	.4778926
#1	1.742717	228.7022	8.607814	119.2314	.8442427	.0652143
#2	1.742306	230.1222	8.632597	119.2511	.8440032	.0658402
#3	1.747752	229.4416	8.581565	119.3241	.8482841	.0655478

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1320.067	.5112516	3.270131	56.23714	.4425511	.3059647
Stddev	6.798	.0006917	.016648	.17498	.0013814	.0006057
%RSD	.5150090	.1352898	.5090803	.3111443	.3121519	.1979737
#1	1314.819	.5104963	3.279640	56.06597	.4414118	.3053832
#2	1327.747	.5114047	3.279844	56.41570	.4421538	.3059187
#3	1317.635	.5118540	3.250908	56.22976	.4440877	.3065921

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1625-01A Acquired: 3/25/2025 11:53:45 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7232175	3.039848	F 98.89574	F 21.96572	F 48.60308	.4858017
Stddev	.0045768	.003889	.13081	.09647	.15239	.0007567
%RSD	.6328342	.1279431	.1322712	.4391673	.3135305	.1557552
#1	.7184861	3.038506	98.74469	21.91697	48.67261	.4860760
#2	.7235442	3.044231	98.97048	21.90336	48.42833	.4863830
#3	.7276221	3.036808	98.97204	22.07683	48.70831	.4849462

Elem	Sr4077
Units	ppm
Avg	2.141766
Stddev	.005343
%RSD	.2494861
#1	2.136984
#2	2.140780
#3	2.147533

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3441.691	79813.48	19374.18	2275.751	3528.101
Stddev	1.343	157.01	14.65	11.355	5.708
%RSD	.0390334	.1967228	.0756353	.4989754	.1617826
#1	3443.012	79985.51	19380.13	2272.862	3527.934
#2	3441.734	79677.91	19357.49	2266.119	3533.891
#3	3440.327	79777.00	19384.93	2288.272	3522.479

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167273BL Acquired: 3/25/2025 11:58:09 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.001629	-.000669	-.000820	.0010756	-.000774	-.002339
Stddev	.001853	.000444	.001094	.0008780	.000633	.000837
%RSD	113.7476	66.34479	133.4780	81.62298	81.81643	35.80322
#1	-.001945	-.000268	.000314	.0020419	-.000467	-.002758
#2	-.003304	-.000592	-.000904	.0003269	-.001503	-.001375
#3	.000362	-.001146	-.001869	.0008581	-.000353	-.002884

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008661	.0000691	-.000128	.0057693	-.000014	-.000153
Stddev	.000828	.0000157	.000029	.0017929	.000116	.000171
%RSD	9.564428	22.65088	22.48445	31.07729	840.3832	112.0277
#1	-.008758	.0000718	-.000095	.0041641	-.000091	-.000063
#2	-.009437	.0000832	-.000149	.0077042	.000119	-.000045
#3	-.007789	.0000523	-.000139	.0054396	-.000069	-.000350

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000319	-.000721	-.000788	.0104939	-.000177	.0007611
Stddev	.000076	.001358	.000165	.0065595	.000382	.0002132
%RSD	23.79142	188.2163	20.96840	62.50749	216.4665	28.01535
#1	-.000403	-.001599	-.000930	.0172986	.000194	.0005187
#2	-.000255	.000843	-.000607	.0042107	-.000154	.0009198
#3	-.000299	-.001408	-.000829	.0099725	-.000569	.0008449

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8899605	.0000500	-.000917	.6576570	-.004769	-.000007
Stddev	.0483312	.0002438	.000110	.0219961	.000230	.000121
%RSD	5.430714	487.1926	12.00724	3.344621	4.830763	1775.811
#1	.9431653	.0000107	-.000885	.6391910	-.004702	-.000125
#2	.8779471	-.000172	-.000826	.6819925	-.005025	-.000013
#3	.8487690	.000311	-.001039	.6517874	-.004579	.000117

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167273BL Acquired: 3/25/2025 11:58:09 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.003802	.0010300	.0129647	-.001960	.0072075	F .0148289
Stddev	.000680	.0002181	.0010113	.002328	.0016869	.0001718
%RSD	17.88927	21.17156	7.800199	118.7350	23.40548	1.158823
#1	-.003264	.0007820	.0139138	-.002348	.0079517	.0148055
#2	-.004566	.0011917	.0119010	.000537	.0052764	.0150112
#3	-.003574	.0011164	.0130795	-.004070	.0083943	.0146699

Elem	Sr4077
Units	ppm
Avg	.0000785
Stddev	.0000090
%RSD	11.49838
#1	.0000694
#2	.0000786
#3	.0000875

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3338.850	77829.13	15920.82	2223.304	5348.338
Stddev	10.136	1179.49	81.94	26.886	17.500
%RSD	.3035771	1.515484	.5146983	1.209299	.3271977
#1	3333.773	77054.27	15975.47	2208.917	5337.131
#2	3332.255	77246.56	15960.39	2206.673	5339.380
#3	3350.521	79186.55	15826.60	2254.323	5368.503

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167273BS Acquired: 3/25/2025 12:02:28 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7689607	1.931301	.9164129	1.974870	.8099095	1.868395
Stddev	.0015057	.017196	.0036698	.005937	.0024540	.004525
%RSD	.1958126	.8903733	.4004523	.3006215	.3030010	.2421997
#1	.7680211	1.912937	.9131307	1.972184	.8077743	1.873373
#2	.7706974	1.933944	.9157328	1.970750	.8125904	1.864530
#3	.7681637	1.947022	.9203752	1.981675	.8093636	1.867282

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1722082	.1735791	.1826473	.9369376	.3930703	.1865582
Stddev	.0013672	.0011061	.0003153	.0051257	.0004727	.0007128
%RSD	.7939190	.6372179	.1726209	.5470742	.1202689	.3821023
#1	.1731208	.1748552	.1825974	.9427970	.3925266	.1864912
#2	.1728675	.1728947	.1823598	.9347313	.3933005	.1858812
#3	.1706363	.1729874	.1829845	.9332844	.3933839	.1873021

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3061949	2.922583	.1802488	1.789245	.4673888	.0736537
Stddev	.0009562	.024313	.0011608	.026176	.0009851	.0001642
%RSD	.3122833	.8319098	.6440044	1.462978	.2107778	.2229398
#1	.3061011	2.914030	.1815647	1.780577	.4666134	.0737181
#2	.3052891	2.950017	.1798119	1.818655	.4670556	.0737759
#3	.3071946	2.903702	.1793699	1.768502	.4684973	.0734671

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.171825	.2776178	.1978776	10.11834	.2521475	.4039582
Stddev	.042824	.0005024	.0009392	.06224	.0027281	.0008346
%RSD	1.350126	.1809523	.4746363	.6151049	1.081968	.2066015
#1	3.133495	.2779131	.1989322	10.04941	.2551278	.4030367
#2	3.218045	.2770378	.1971312	10.13521	.2515413	.4041745
#3	3.163934	.2779026	.1975695	10.17041	.2497735	.4046633

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167273BS Acquired: 3/25/2025 12:02:28 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6477930	.1854651	.8015747	5.373874	F -.002691	.1931536
Stddev	.0020863	.0009463	.0097964	.021524	.001081	.0018453
%RSD	.3220580	.5102276	1.222144	.4005249	40.18062	.9553326
#1	.6480149	.1864000	.7915064	5.360321	-.002846	.1939699
#2	.6456047	.1854875	.8110744	5.362609	-.001541	.1944500
#3	.6497595	.1845078	.8021434	5.398692	-.003687	.1910410

Elem	Sr4077
Units	ppm
Avg	.1828910
Stddev	.0007239
%RSD	.3958147
#1	.1837262
#2	.1825037
#3	.1824431

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3297.947	75372.97	16148.90	2151.587	5185.287
Stddev	5.204	156.58	100.36	3.064	9.522
%RSD	.1577906	.2077431	.6214406	.1423915	.1836398
#1	3292.229	75427.85	16034.52	2148.533	5179.786
#2	3302.406	75196.33	16189.99	2154.661	5196.283
#3	3299.207	75494.72	16222.19	2151.567	5179.793

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1610-02 Acquired: 3/25/2025 12:06:30 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0886830	.0047837	.3267190	-.068978	-.011886	179.5583
Stddev	.0026728	.0011709	.0003567	.005323	.001031	1.5435
%RSD	3.013906	24.47714	.1091768	7.716697	8.672468	.8595982
#1	.0913878	.0057957	.3266961	-.063983	-.012973	178.4950
#2	.0886180	.0050541	.3263742	-.068373	-.010923	181.3287
#3	.0860434	.0035012	.3270865	-.074577	-.011762	178.8513

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.030891	.0127679	.0025970	45.14189	.4035447	.2697017
Stddev	.001150	.0000812	.0006584	.08809	.0008272	.0008938
%RSD	.1115204	.6356313	25.35285	.1951405	.2049751	.3314150
#1	1.031904	.0126751	.0021784	45.14526	.4042823	.2690999
#2	1.031128	.0128033	.0022566	45.22825	.4037015	.2692764
#3	1.029642	.0128254	.0033559	45.05217	.4026504	.2707288

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5155309	437.6354	8.605798	64.35325	.4311658	-.000888
Stddev	.0020110	2.5017	.025609	.20343	.0012409	.000225
%RSD	.3900767	.5716292	.2975751	.3161192	.2878034	25.39799
#1	.5151721	439.1720	8.612159	64.28266	.4299095	-.000887
#2	.5137235	438.9855	8.627626	64.58257	.4323907	-.000663
#3	.5176971	434.7488	8.577608	64.19451	.4311972	-.001114

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.058360	.7161866	1.088392	13.25635	-.186084	.0034915
Stddev	.016228	.0021443	.006719	.09897	.004470	.0001832
%RSD	.5306098	.2994113	.6173790	.7465812	2.402158	5.247908
#1	3.074164	.7148237	1.095874	13.36202	-.181126	.0034949
#2	3.041739	.7186584	1.086431	13.16583	-.187318	.0033066
#3	3.059177	.7150778	1.082871	13.24119	-.189806	.0036730

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1610-02 Acquired: 3/25/2025 12:06:30 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0112018	5.168939	3.372565	F 10.61768	1.362318	.4505396
Stddev	.0009342	.006697	.014775	.02785	.004889	.0021238
%RSD	8.339354	.1295699	.4381013	.2623399	.3588677	.4713943
#1	.0121529	5.170192	3.387490	10.62631	1.356676	.4527190
#2	.0111670	5.174922	3.372261	10.58653	1.365305	.4504235
#3	.0102855	5.161704	3.357945	10.64020	1.364973	.4484761

Elem	Sr4077
Units	ppm
Avg	-.177079
Stddev	.001766
%RSD	.9972494
#1	-.177981
#2	-.178211
#3	-.175044

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3951.937	90862.24	20717.91	2603.256	4434.300
Stddev	10.431	218.62	133.22	17.910	12.947
%RSD	.2639421	.2406075	.6430267	.6879793	.2919712
#1	3960.892	90784.60	20790.58	2596.381	4447.574
#2	3954.435	90693.03	20564.15	2589.801	4433.617
#3	3940.484	91109.08	20798.99	2623.584	4421.708

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-01 Acquired: 3/25/2025 12:10:50 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.3515898	-.013568	.8028697	-.040795	.0082517	149.2294
Stddev	.0049840	.002869	.0049377	.004401	.0031685	.1442
%RSD	1.417548	21.14455	.6150063	10.78783	38.39820	.0966053
#1	.3471183	-.015873	.7986642	-.036440	.0117997	149.0711
#2	.3506881	-.010355	.8016384	-.040703	.0072516	149.2640
#3	.3569630	-.014476	.8083066	-.045241	.0057040	149.3532

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8624531	.0073960	.0165950	1511.397	.2970265	.0991916
Stddev	.0014811	.0000573	.0000567	8.854	.0008775	.0003409
%RSD	.1717253	.7748524	.3417396	.5858093	.2954123	.3436844
#1	.8607792	.0074450	.0165669	1506.067	.2969605	.0988716
#2	.8629869	.0074100	.0165579	1506.507	.2979351	.0995501
#3	.8635933	.0073330	.0166603	1521.618	.2961839	.0991531

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.377305	139.9126	2.810952	70.86880	.1548881	.0006984
Stddev	.005357	.4544	.006836	.04069	.0001413	.0002491
%RSD	.1223787	.3247839	.2432006	.0574117	.0912499	35.66704
#1	4.373182	139.3921	2.806171	70.82263	.1550338	.0006653
#2	4.375374	140.2303	2.807903	70.88441	.1548791	.0004675
#3	4.383360	140.1153	2.818782	70.89938	.1547515	.0009624

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.04458	.2036940	15.87386	25.15714	.2194644	.0019888
Stddev	.18815	.0015455	.03848	.10941	.0024998	.0003362
%RSD	.4475083	.7587366	.2424004	.4349043	1.139031	16.90253
#1	41.83483	.2028341	15.91316	25.03241	.2169989	.0020438
#2	42.10041	.2054783	15.83625	25.20212	.2193971	.0022941
#3	42.19850	.2027698	15.87217	25.23689	.2219971	.0016286

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-01 Acquired: 3/25/2025 12:10:50 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0622217	5.465333	5.668659	7.500574	F 60.62066	-.055704
Stddev	.0013158	.008184	.023477	.016455	.15422	.002924
%RSD	2.114720	.1497483	.4141487	.2193879	.2543963	5.249640
#1	.0634696	5.458115	5.642415	7.481586	60.50461	-.054582
#2	.0608471	5.463660	5.675899	7.510676	60.56171	-.053507
#3	.0623484	5.474225	5.687663	7.509461	60.79566	-.059023

Elem	Sr4077
Units	ppm
Avg	F 11.98936
Stddev	.17412
%RSD	1.452319
#1	12.05836
#2	11.79132
#3	12.11842

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2925.510	67715.12	16133.19	1957.816	3679.879
Stddev	1.813	19.19	33.19	8.811	6.741
%RSD	.0619838	.0283414	.2056957	.4500553	.1831858
#1	2927.502	67701.19	16095.62	1952.605	3687.456
#2	2923.956	67737.01	16158.50	1967.990	3674.545
#3	2925.072	67707.16	16145.46	1952.855	3677.637

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-03 Acquired: 3/25/2025 12:15:10 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0527661	-.005181	.1026205	-.034942	-.001417	103.8722
Stddev	.0024724	.001417	.0031506	.000440	.002684	.0498
%RSD	4.685606	27.34713	3.070152	1.260158	189.4871	.0479564
#1	.0508503	-.005689	.1017836	-.034574	-.002418	103.9280
#2	.0555571	-.003580	.0999727	-.035430	.001625	103.8564
#3	.0518911	-.006274	.1061050	-.034822	-.003456	103.8322

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6962040	.0091924	.0042445	802.2728	.1340494	.0679067
Stddev	.0023154	.0000855	.0001041	.1455	.0010433	.0004209
%RSD	.3325799	.9300016	2.451936	.0181377	.7783189	.6198014
#1	.6988535	.0092882	.0041246	802.1908	.1352454	.0674207
#2	.6945687	.0091650	.0043115	802.1868	.1335772	.0681490
#3	.6951898	.0091240	.0042973	802.4408	.1333256	.0681504

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2363462	155.7176	4.020852	147.3770	.1762815	.0004077
Stddev	.0014872	.5482	.019622	.4393	.0010257	.0001405
%RSD	.6292592	.3520674	.4879992	.2981083	.5818410	34.47559
#1	.2348593	155.9502	4.042378	147.7979	.1774653	.0005567
#2	.2378338	155.0914	4.016212	147.4117	.1756592	.0003887
#3	.2363455	156.1112	4.003967	146.9213	.1757199	.0002775

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.626454	.1357993	2.735748	12.05880	-.008151	.0036560
Stddev	.052636	.0004544	.009396	.05640	.004651	.0004352
%RSD	.6901830	.3345754	.3434454	.4677158	57.06603	11.90298
#1	7.653687	.1354035	2.742066	12.04238	-.007176	.0033893
#2	7.565781	.1356990	2.740227	12.01243	-.013213	.0041582
#3	7.659895	.1362954	2.724951	12.12159	-.004064	.0034206

Sample Name: Q1619-03 Acquired: 3/25/2025 12:15:10 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0655768	2.431420	F 13.02186	9.015313	F 21.01228	.0772770
Stddev	.0015128	.005416	.09843	.012712	.02029	.0009833
%RSD	2.306850	.2227442	.7559054	.1410020	.0965735	1.272407
#1	.0638813	2.437303	12.96473	9.021601	21.03442	.0772333
#2	.0667886	2.430313	12.96533	9.000683	21.00783	.0763163
#3	.0660603	2.426642	13.13552	9.023656	20.99458	.0782814

Elem	Sr4077
Units	ppm
Avg	2.702408
Stddev	.015836
%RSD	.5859782
#1	2.684819
#2	2.706872
#3	2.715532

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3641.775	84330.58	20274.80	2408.276	3818.632
Stddev	11.073	43.34	126.02	7.277	7.621
%RSD	.3040541	.0513950	.6215654	.3021866	.1995660
#1	3651.314	84299.86	20215.77	2411.164	3821.145
#2	3644.379	84311.72	20189.12	2399.997	3824.678
#3	3629.632	84380.15	20419.50	2413.666	3810.072

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV03 Acquired: 3/25/2025 12:29:48 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	5.011034	4.904355	4.830588	5.071720	5.090928	9.631999	9.540418
Stddev	.033120	.044186	.021683	.027950	.040354	.195259	.311142
%RSD	.6609352	.9009448	.4488728	.5510922	.7926680	2.027188	3.261300
#1	4.991438	4.875907	4.817948	5.058190	5.066641	9.780301	9.864673
#2	4.992390	4.881900	4.818191	5.053110	5.068632	9.704923	9.512282
#3	5.049273	4.955259	4.855625	5.103860	5.137510	9.410774	9.244301

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2259646	2.392495	23.08430	.9892769	2.405143	1.257975	4.974926
Stddev	.0039125	.011687	.44182	.0012705	.012153	.008085	.014056
%RSD	1.731477	.4884895	1.913938	.1284288	.5052952	.6426967	.2825450
#1	.2294554	2.388926	23.45251	.9882596	2.401181	1.253125	4.986614
#2	.2267029	2.383008	23.20601	.9888701	2.395466	1.253492	4.978834
#3	.2217355	2.405550	22.59438	.9907010	2.418783	1.267309	4.959329

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.301464	22.96986	2.395075	1.242376	25.31182	2.377321	2.506981
Stddev	.045630	.52091	.013869	.000716	.05957	.046690	.017384
%RSD	1.982656	2.267815	.5790820	.0576711	.2353269	1.963968	.6934207
#1	2.336082	23.33863	2.388397	1.242006	25.31104	2.417870	2.503458
#2	2.318553	23.19700	2.385809	1.241920	25.37178	2.387817	2.525856
#3	2.249756	22.37394	2.411021	1.243202	25.25265	2.326277	2.491628

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.78666	4.537475	5.048875	4.824981	4.753239	5.362164	4.885389
Stddev	.05136	.076595	.031889	.026352	.090047	.019012	.030745
%RSD	.1991742	1.688061	.6315984	.5461557	1.894441	.3545624	.6293289
#1	25.72843	4.601544	5.033252	4.813229	4.823547	5.340246	4.873048
#2	25.82552	4.558245	5.027809	4.806550	4.784425	5.372040	4.862731
#3	25.80601	4.452637	5.085562	4.855164	4.651744	5.374206	4.920387

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV03 Acquired: 3/25/2025 12:29:48 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	4.817830	4.762035	4.772646
Stddev	.031241	.085868	.098112
%RSD	.6484521	1.803183	2.055724
#1	4.808930	4.830580	4.843562
#2	4.792005	4.789807	4.813701
#3	4.852556	4.665718	4.660675

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3238.443	73639.67	15760.70	2119.063	4819.944
Stddev	12.894	40.19	308.13	12.722	15.347
%RSD	.3981389	.0545807	1.955058	.6003482	.3184155
#1	3240.501	73651.77	15504.94	2112.154	4820.202
#2	3250.184	73594.82	15674.38	2111.292	4835.161
#3	3224.645	73672.43	16102.79	2133.745	4804.469

Sample Name: CCB03 Acquired: 3/25/2025 12:33:59 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.000248	-.001784	.0001716	.0033845	.0005033	-.003712	-.008788
Stddev	.001280	.000439	.0006533	.0022746	.0006784	.000884	.000679
%RSD	515.5499	24.60085	380.7977	67.20486	134.7856	23.81070	7.728791
#1	-.000930	-.001644	.0001628	.0013122	-.000057	-.003022	-.009528
#2	-.001043	-.001432	-.000477	.0058181	.001257	-.004709	-.008194
#3	.001228	-.002276	.000829	.0030233	.000309	-.003406	-.008642

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000486	-.000098	.0045348	.0001644	-.000106	-.000207	-.007301
Stddev	.0000394	.000112	.0021570	.0001679	.000078	.000054	.005565
%RSD	81.06143	114.1529	47.56500	102.0923	73.28631	25.82889	76.22584
#1	.0000210	-.000047	.0026228	.0003454	-.000133	-.000229	-.003260
#2	.0000938	-.000021	.0041085	.0000137	-.000167	-.000146	-.013649
#3	.0000312	-.000226	.0068731	.0001343	-.000018	-.000247	-.004995

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000700	.0071309	.0000305	.0008012	.1694822	-.000013	-.000840
Stddev	.000084	.0120011	.0001116	.0002368	.0134384	.001524	.000020
%RSD	11.98834	168.2978	365.6742	29.55182	7.929089	11315.49	2.401118
#1	-.000767	.0077056	.0000649	.0007866	.1597533	.001208	-.000839
#2	-.000606	-.005147	-.000094	.0005721	.1638777	.000473	-.000861
#3	-.000727	.018834	.000121	.0010450	.1848158	-.001721	-.000820

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2267427	-.000158	.0003923	-.003597	.0006945	.0087795	-.001854
Stddev	.0148091	.000308	.0002296	.000410	.0002513	.0050098	.001701
%RSD	6.531243	194.8615	58.51833	11.39302	36.18308	57.06315	91.75398
#1	.2113180	-.000376	.0005206	-.004066	.0006406	.0033519	-.000857
#2	.2280621	.000195	.0005290	-.003311	.0009683	.0097599	-.000887
#3	.2408479	-.000294	.0001273	-.003412	.0004745	.0132266	-.003819

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB03 Acquired: 3/25/2025 12:33:59 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0023458	-.002438	.0001178
Stddev	.0034774	.000762	.0000205
%RSD	148.2407	31.23731	17.43133
#1	.0044878	-.003291	.0001412
#2	.0042160	-.002197	.0001094
#3	-.001667	-.001826	.0001028

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3360.551	77491.79	16401.33	2215.341	5422.622
Stddev	14.067	278.09	61.30	7.096	13.309
%RSD	.4185989	.3588615	.3737521	.3202994	.2454341
#1	3370.079	77495.85	16373.27	2217.022	5430.246
#2	3367.179	77767.83	16359.08	2221.445	5430.367
#3	3344.394	77211.70	16471.64	2207.555	5407.255

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-05 Acquired: 3/25/2025 12:38:19 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0827535	-.000273	.3515439	-.040876	-.067825	107.6257
Stddev	.0013118	.002483	.0025144	.003300	.001455	.1039
%RSD	1.585165	908.5541	.7152337	8.072377	2.145160	.0965101
#1	.0834626	-.001204	.3538597	-.037485	-.066665	107.7348
#2	.0835581	-.002156	.3519026	-.041065	-.069458	107.5280
#3	.0812398	.002541	.3488695	-.044077	-.067352	107.6143

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6539000	.0068167	-.006244	89.43620	F 11.15030	.1693306
Stddev	.0036431	.0000422	.000357	.18631	.02963	.0001532
%RSD	.5571380	.6184415	5.716438	.2083149	.2657605	.0904564
#1	.6580977	.0068065	-.006633	89.54598	11.13113	.1691668
#2	.6515621	.0068631	-.006166	89.54154	11.18443	.1693549
#3	.6520403	.0067807	-.005932	89.22109	11.13533	.1694702

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4748610	247.4226	3.544170	40.75436	.4113695	.0033292
Stddev	.0001429	.6669	.014457	.02090	.0009443	.0001016
%RSD	.0300941	.2695538	.4079027	.0512943	.2295503	3.051991
#1	.4747278	248.1537	3.560287	40.77839	.4123409	.0032414
#2	.4748431	247.2667	3.539876	40.74432	.4113127	.0034405
#3	.4750119	246.8474	3.532347	40.74037	.4104549	.0033056

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.662010	.6879451	.8140454	11.56680	-.067773	.0007418
Stddev	.038475	.0013389	.0052017	.05315	.005024	.0001039
%RSD	.8252933	.1946216	.6389873	.4594710	7.412419	14.01001
#1	4.696712	.6864612	.8083419	11.62560	-.061972	.0008457
#2	4.620634	.6890628	.8152665	11.55263	-.070647	.0007420
#3	4.668683	.6883113	.8185279	11.52218	-.070699	.0006378

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-05 Acquired: 3/25/2025 12:38:19 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0966487	2.673107	9.881839	4.347974	6.357004	.2309839
Stddev	.0008676	.007810	.006290	.001657	.014666	.0014455
%RSD	.8977130	.2921822	.0636551	.0381186	.2307001	.6257819
#1	.0963052	2.682121	9.874889	4.348984	6.340071	.2317605
#2	.0960055	2.668349	9.887141	4.348876	6.365709	.2318750
#3	.0976355	2.668850	9.883488	4.346061	6.365231	.2293161

Elem	Sr4077
Units	ppm
Avg	-.046134
Stddev	.000426
%RSD	.9229814
#1	-.045649
#2	-.046445
#3	-.046307

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3345.808	80803.40	18626.41	2210.417	4563.316
Stddev	7.903	167.54	40.97	8.305	8.607
%RSD	.2362071	.2073386	.2199366	.3757140	.1886126
#1	3350.093	80955.04	18651.25	2218.708	4570.256
#2	3350.643	80623.55	18579.13	2210.444	4566.007
#3	3336.688	80831.61	18648.86	2202.099	4553.685

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-07 Acquired: 3/25/2025 12:42:22 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0762993	.0143479	.2191929	-.056252	-.012352	104.3556	1.050556
Stddev	.0020162	.0031127	.0004701	.002155	.002450	.3319	.004862
%RSD	2.642525	21.69459	.2144693	3.831735	19.83266	.3180697	.4628132
#1	.0782618	.0131658	.2194677	-.053807	-.015123	104.7389	1.055995
#2	.0742333	.0178785	.2194609	-.057071	-.010471	104.1616	1.046631
#3	.0764028	.0119994	.2186501	-.057877	-.011464	104.1664	1.049042

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101003	.0009314	162.2734	.2562497	.1644822	.2633386	329.2315
Stddev	.0002402	.0003369	.5642	.0009425	.0003295	.0007790	1.1467
%RSD	2.378380	36.16694	.3476852	.3678125	.2003086	.2957984	.3482924
#1	.0103728	.0013189	162.8092	.2558068	.1645812	.2632443	328.6578
#2	.0100090	.0007677	161.6846	.2556101	.1641146	.2626111	328.4849
#3	.0099191	.0007077	162.3263	.2573320	.1647509	.2641604	330.5518

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.937887	35.74377	.2909075	.0007592	3.335618	.3058846	1.100293
Stddev	.011530	.11125	.0003612	.0005887	.016268	.0015688	.001890
%RSD	.3924531	.3112322	.1241671	77.53577	.4877080	.5128746	.1717439
#1	2.950322	35.85268	.2907149	.0007555	3.318877	.3060983	1.101057
#2	2.927550	35.63032	.2906833	.0001724	3.336608	.3073356	1.101681
#3	2.935789	35.74832	.2913242	.0013497	3.351368	.3042199	1.098141

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.59653	-.176907	-.002101	.4275893	2.157861	6.313686	7.849450
Stddev	.06155	.008134	.000197	.0012553	.011429	.019391	.007566
%RSD	.3946647	4.598176	9.383010	.2935727	.5296287	.3071196	.0963849
#1	15.52644	-.185398	-.002001	.4263813	2.170205	6.302735	7.857318
#2	15.62138	-.176138	-.002328	.4288870	2.147647	6.302249	7.842227
#3	15.64178	-.169183	-.001973	.4274997	2.155732	6.336075	7.848805

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-07 Acquired: 3/25/2025 12:42:22 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	2.367338	.2846598	.1743208
Stddev	.000538	.0007625	.0022212
%RSD	.0227459	.2678457	1.274192
#1	2.367407	.2847552	.1765676
#2	2.367839	.2838541	.1742684
#3	2.366769	.2853700	.1721262

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3589.606	85516.84	19434.88	2353.309	4421.166
Stddev	6.898	214.02	72.33	8.622	5.709
%RSD	.1921696	.2502689	.3721468	.3663790	.1291272
#1	3586.327	85687.08	19356.90	2362.275	4420.876
#2	3597.532	85586.85	19499.76	2345.078	4427.015
#3	3584.959	85276.58	19447.97	2352.575	4415.608

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-09 Acquired: 3/25/2025 12:46:28 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.1501711	.0055827	.3216884	-.027179	-.136370	90.56896
Stddev	.0021236	.0009472	.0019861	.003757	.001647	.04903
%RSD	1.414137	16.96750	.6173817	13.82353	1.207983	.0541320
#1	.1526060	.0056927	.3201716	-.023973	-.136991	90.62004
#2	.1487026	.0064701	.3209572	-.031313	-.134503	90.52228
#3	.1492046	.0045852	.3239363	-.026252	-.137618	90.56457

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3876833	.0027983	-.005948	143.7582	F 28.08811	.0567741
Stddev	.0005179	.0000729	.000317	.3200	.09470	.0002036
%RSD	.1335944	2.604523	5.331851	.2225829	.3371598	.3586864
#1	.3882272	.0028366	-.006159	144.0163	28.17855	.0565498
#2	.3871959	.0028441	-.006101	143.4002	27.98965	.0568253
#3	.3876270	.0027143	-.005583	143.8581	28.09613	.0569473

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2586859	149.9613	3.131429	25.76426	.1355721	.0024055
Stddev	.0016951	.6690	.012155	.09314	.0010165	.0000658
%RSD	.6552634	.4460823	.3881677	.3614999	.7497975	2.735174
#1	.2568618	150.6918	3.143087	25.78872	.1358249	.0023296
#2	.2589832	149.8136	3.118831	25.66134	.1344530	.0024444
#3	.2602126	149.3785	3.132369	25.84273	.1364383	.0024426

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.685500	.4135284	.4370835	6.883603	-.011021	.0019818
Stddev	.013276	.0016611	.0016595	.017375	.002876	.0001889
%RSD	.7876382	.4016983	.3796738	.2524160	26.09163	9.530301
#1	1.699956	.4154258	.4351777	6.893195	-.008163	.0018359
#2	1.682689	.4128230	.4382087	6.894068	-.010986	.0021951
#3	1.673855	.4123364	.4378641	6.863546	-.013914	.0019142

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-09 Acquired: 3/25/2025 12:46:28 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0598209	1.933612	8.897695	6.409786	8.976561	.1594843
Stddev	.0019139	.006786	.035773	.026761	.023145	.0016309
%RSD	3.199452	.3509440	.4020498	.4175057	.2578393	1.022607
#1	.0588382	1.938245	8.924875	6.395956	8.973128	.1586525
#2	.0620266	1.925823	8.911042	6.392770	8.955325	.1613633
#3	.0585980	1.936768	8.857167	6.440632	9.001231	.1584370

Elem	Sr4077
Units	ppm
Avg	.1457514
Stddev	.0003170
%RSD	.2175129
#1	.1461126
#2	.1455190
#3	.1456226

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2897.151	73612.02	17151.99	1986.053	4594.761
Stddev	9.382	159.54	63.15	5.671	6.185
%RSD	.3238302	.2167332	.3682051	.2855519	.1346065
#1	2905.385	73428.03	17141.73	1984.012	4599.635
#2	2899.133	73711.97	17219.65	1981.685	4596.846
#3	2886.937	73696.06	17094.60	1992.462	4587.804

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-11 Acquired: 3/25/2025 12:50:42 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0482105	.0020654	.1981521	-.008652	-.041386	47.07149
Stddev	.0029828	.0006975	.0006847	.001783	.001730	.04351
%RSD	6.186965	33.77205	.3455631	20.60694	4.180762	.0924328
#1	.0461991	.0026166	.1989420	-.008960	-.039422	47.10492
#2	.0467950	.0012812	.1977861	-.006735	-.042685	47.08725
#3	.0516375	.0022982	.1977280	-.010260	-.042051	47.02230

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2384062	.0036773	-.002489	49.96670	F 6.613242	.0489579
Stddev	.0004248	.0000460	.000262	.04137	.128792	.0003310
%RSD	.1781920	1.251996	10.51534	.0827900	1.947485	.6761561
#1	.2386732	.0037270	-.002187	49.92698	6.467034	.0485776
#2	.2386291	.0036690	-.002645	50.00954	6.662794	.0491151
#3	.2379163	.0036360	-.002635	49.96360	6.709899	.0491810

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2096228	97.33804	.7830740	17.39871	.1007581	.0016261
Stddev	.0011366	1.45593	.0010765	.03549	.0003815	.0000950
%RSD	.5422370	1.495749	.1374648	.2039774	.3786838	5.840167
#1	.2106008	95.67391	.7831444	17.37098	.1011228	.0015165
#2	.2083758	97.96332	.7819641	17.43870	.1003617	.0016789
#3	.2098920	98.37688	.7841135	17.38644	.1007898	.0016830

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.666274	.1046441	.5333860	5.008339	-.053400	.0003483
Stddev	.023239	.0013973	.0107740	.060092	.000944	.0003680
%RSD	1.394646	1.335315	2.019931	1.199846	1.767898	105.6532
#1	1.639491	.1035191	.5209733	4.938950	-.054470	.0007083
#2	1.681092	.1062082	.5388687	5.043138	-.053048	.0003640
#3	1.678239	.1042048	.5403160	5.042928	-.052683	-.000027

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-11 Acquired: 3/25/2025 12:50:42 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0622272	1.238927	4.772367	1.870576	3.492010	.1152950
Stddev	.0018096	.002081	.071583	.004184	.004757	.0009258
%RSD	2.907997	.1679943	1.499940	.2237008	.1362378	.8029690
#1	.0601483	1.238371	4.691094	1.869187	3.497163	.1144330
#2	.0634483	1.241230	4.826047	1.867264	3.491083	.1162736
#3	.0630851	1.237180	4.799960	1.875279	3.487784	.1151784

Elem	Sr4077
Units	ppm
Avg	.0630486
Stddev	.0016838
%RSD	2.670682
#1	.0649679
#2	.0623584
#3	.0618196

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3465.815	85179.61	18120.17	2354.241	4892.611
Stddev	5.140	1412.02	35.89	30.775	7.528
%RSD	.1482916	1.657698	.1980831	1.307223	.1538701
#1	3466.938	86783.39	18160.19	2389.743	4897.630
#2	3470.300	84632.10	18109.49	2337.845	4896.250
#3	3460.207	84123.34	18090.83	2335.136	4883.955

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-13 Acquired: 3/25/2025 12:54:52 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0585373	.0012214	.2044559	-.015878	-.008122	60.13122	.3498754
Stddev	.0020224	.0039596	.0019559	.002310	.000728	.17836	.0007423
%RSD	3.454906	324.1722	.9566223	14.54990	8.964555	.2966258	.2121519
#1	.0607993	.0029069	.2041311	-.018059	-.007324	59.92548	.3490354
#2	.0569035	-.003302	.2026828	-.016116	-.008751	60.24226	.3501479
#3	.0579092	.004059	.2065539	-.013458	-.008292	60.22593	.3504428

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045258	-.001559	24.89715	1.045046	.0566461	.2542923	127.6449
Stddev	.0000350	.000187	.09760	.006272	.0001886	.0008648	.5180
%RSD	.7722028	11.99428	.3920026	.6001484	.3328758	.3400939	.4058281
#1	.0044858	-.001713	24.78526	1.038073	.0564921	.2546625	127.0582
#2	.0045502	-.001614	24.94139	1.046838	.0568564	.2533039	128.0391
#3	.0045414	-.001351	24.96479	1.050227	.0565899	.2549103	127.8375

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.348468	19.94175	.1447735	.0013938	2.004704	.1873694	.8268706
Stddev	.009073	.10447	.0011787	.0001140	.010951	.0006783	.0029785
%RSD	.3863427	.5238859	.8141323	8.179075	.5462814	.3620394	.3602127
#1	2.338106	19.83167	.1456258	.0013652	1.995757	.1875630	.8243045
#2	2.354986	19.95407	.1434284	.0012968	2.001438	.1879299	.8261704
#3	2.352313	20.03952	.1452663	.0015194	2.016916	.1866153	.8301368

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.314735	-.052556	.0054709	.0627002	1.751972	4.527793	3.277401
Stddev	.046417	.000881	.0003372	.0008424	.004450	.014922	.010306
%RSD	.6345690	1.676509	6.163846	1.343591	.2539908	.3295619	.3144702
#1	7.269740	-.052889	.0055255	.0632783	1.746966	4.512321	3.281746
#2	7.312012	-.051557	.0057774	.0617337	1.753473	4.528962	3.265633
#3	7.362454	-.053223	.0051097	.0630887	1.755478	4.542096	3.284823

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-13 Acquired: 3/25/2025 12:54:52 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	6.953646	.1559296	.0081515
Stddev	.017361	.0009577	.0001860
%RSD	.2496619	.6142131	2.281576
#1	6.964803	.1567260	.0082680
#2	6.933644	.1561958	.0079370
#3	6.962491	.1548669	.0082495

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3451.939	81784.71	17830.41	2311.833	4919.921
Stddev	7.273	411.89	101.90	13.099	5.122
%RSD	.2107028	.5036227	.5715202	.5666158	.1040986
#1	3459.653	82259.56	17947.71	2321.108	4923.912
#2	3450.958	81524.03	17779.87	2317.543	4921.705
#3	3445.206	81570.54	17763.67	2296.848	4914.146

Sample Name: PB167257BL Acquired: 3/25/2025 12:59:00 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.001307	-.002150	-.000403	.0009247	.0006524	-.005460	-.011790
Stddev	.001830	.000726	.000393	.0045502	.0016875	.003390	.000881
%RSD	139.9717	33.75737	97.44638	492.0908	258.6422	62.10086	7.472422
#1	-.003350	-.002977	-.000612	-.004088	-.000369	-.009359	-.011164
#2	.000183	-.001858	.000050	.002066	-.000274	-.003812	-.011409
#3	-.000755	-.001616	-.000647	.004796	.002600	-.003208	-.012797

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000164	-.000085	.0035931	.0000046	-.000116	-.000511	-.004916
Stddev	.0000203	.000027	.0026104	.0001253	.000087	.000112	.004818
%RSD	123.6413	31.83314	72.65175	2699.017	75.25245	21.95272	98.02410
#1	.0000395	-.000105	.0065765	.0001465	-.000201	-.000568	-.002296
#2	.0000085	-.000054	.0017291	-.000091	-.000027	-.000382	-.001974
#3	.0000013	-.000096	.0024735	-.000042	-.000119	-.000585	-.010476

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001009	-.004366	-.000187	.0006653	.0756782	.0001726	-.001088
Stddev	.000226	.001396	.000111	.0000859	.0097829	.0012137	.000485
%RSD	22.37619	31.96456	59.62473	12.91363	12.92700	703.2686	44.54808
#1	-.000791	-.002814	-.000136	.0007645	.0661848	.0010885	-.001641
#2	-.000993	-.005517	-.000315	.0006153	.0751227	.0006332	-.000880
#3	-.001241	-.004768	-.000110	.0006161	.0857270	-.001204	-.000741

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1347430	-.005219	-.000165	-.004003	.0007880	.0018529	-.002077
Stddev	.0477055	.000395	.000069	.000454	.0006102	.0062915	.001535
%RSD	35.40483	7.562736	41.54540	11.34358	77.43483	339.5583	73.90812
#1	.0958435	-.005674	-.000193	-.004522	.0003366	.0029742	-.002711
#2	.1204150	-.005018	-.000087	-.003812	.0005451	.0075083	-.000326
#3	.1879705	-.004966	-.000216	-.003676	.0014822	-.004924	-.003193

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167257BL Acquired: 3/25/2025 12:59:00 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0019364	-.003849	.0000119
Stddev	.0036163	.001362	.0000330
%RSD	186.7489	35.39889	278.1570
#1	-.000375	-.002940	.0000243
#2	.006104	-.005415	.0000369
#3	.000080	-.003191	-.000026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3349.823	76470.80	16460.97	2170.851	5438.745
Stddev	9.008	161.89	67.23	5.149	5.900
%RSD	.2689232	.2116971	.4084125	.2371946	.1084721
#1	3356.514	76291.29	16412.05	2164.969	5442.177
#2	3353.376	76515.40	16433.23	2174.543	5442.125
#3	3339.580	76605.71	16537.63	2173.042	5431.933

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167257BS Acquired: 3/25/2025 13:03:19 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7661616	1.913988	.9040720	1.967138	.8106845	1.860220
Stddev	.0025330	.014904	.0012068	.001368	.0041222	.011395
%RSD	.3306122	.7787023	.1334892	.0695515	.5084874	.6125411
#1	.7660021	1.897298	.9054550	1.968290	.8153957	1.870988
#2	.7687706	1.918697	.9032326	1.965626	.8077407	1.848288
#3	.7637121	1.925968	.9035283	1.967499	.8089170	1.861386

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1681970	.1710161	.1788716	.9199001	.3839511	.1833751
Stddev	.0013084	.0003509	.0000818	.0047431	.0034543	.0002668
%RSD	.7779061	.2052055	.0457357	.5156092	.8996727	.1454799
#1	.1677697	.1707658	.1789654	.9204443	.3848043	.1831105
#2	.1671557	.1708654	.1788346	.9149084	.3868989	.1836440
#3	.1696657	.1714172	.1788149	.9243476	.3801502	.1833708

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3035923	2.837931	.1773774	1.751100	.4590084	.0725169
Stddev	.0007230	.017838	.0008388	.020149	.0002888	.0007740
%RSD	.2381471	.6285453	.4728697	1.150631	.0629140	1.067391
#1	.3040651	2.851037	.1780143	1.739986	.4590953	.0728722
#2	.3027600	2.845138	.1764271	1.738957	.4592438	.0730495
#3	.3039517	2.817617	.1776909	1.774359	.4586862	.0716290

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.731444	.2731792	.1954373	9.583073	.2495094	.4029104
Stddev	.004458	.0012885	.0032640	.088067	.0005899	.0009781
%RSD	.1632050	.4716727	1.670122	.9189867	.2364420	.2427476
#1	2.735487	.2734766	.1957440	9.645908	.2493165	.4019261
#2	2.732182	.2717680	.1985372	9.620900	.2490400	.4038821
#3	2.726664	.2742931	.1920308	9.482412	.2501716	.4029230

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167257BS Acquired: 3/25/2025 13:03:19 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6379537	.1829814	.7662853	5.293948	F -.009332	.1831480
Stddev	.0001669	.0011483	.0098626	.013953	.001769	.0004109
%RSD	.0261703	.6275619	1.287069	.2635676	18.95154	.2243602
#1	.6378036	.1832666	.7774953	5.285282	-.007294	.1827714
#2	.6381335	.1817173	.7624190	5.310044	-.010468	.1830864
#3	.6379239	.1839602	.7589416	5.286517	-.010234	.1835863

Elem	Sr4077
Units	ppm
Avg	.1801799
Stddev	.0004167
%RSD	.2312662
#1	.1805304
#2	.1797191
#3	.1802901

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3331.280	77739.28	16418.43	2175.823	5287.304
Stddev	7.180	708.32	82.25	16.945	9.765
%RSD	.2155459	.9111481	.5009410	.7787811	.1846826
#1	3338.858	77618.79	16455.21	2168.233	5297.947
#2	3330.404	77098.93	16475.87	2164.000	5285.207
#3	3324.577	78500.12	16324.22	2195.236	5278.758

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1624-01 Acquired: 3/25/2025 13:07:21 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0349745	-.010587	.1199435	-.038863	-.008421	116.4830
Stddev	.0028290	.000519	.0003899	.004344	.001387	.0984
%RSD	8.088728	4.902224	.3250764	11.17824	16.47462	.0844903
#1	.0381103	-.010433	.1200318	-.043797	-.007261	116.5854
#2	.0326140	-.011165	.1195171	-.035613	-.008044	116.4746
#3	.0341991	-.010162	.1202818	-.037178	-.009958	116.3891

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5228962	.0054684	-.003748	41.51098	.2850047	.1339012
Stddev	.0005315	.0000425	.000238	.12383	.0016784	.0004942
%RSD	.1016464	.7763313	6.342827	.2983122	.5888977	.3690561
#1	.5224960	.0054305	-.003533	41.64751	.2832389	.1341349
#2	.5226933	.0055143	-.004004	41.47952	.2865793	.1333335
#3	.5234993	.0054605	-.003708	41.40591	.2851959	.1342351

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4564289	249.8273	2.471407	49.82751	.2334227	.0007342
Stddev	.0018168	.7933	.003235	.19875	.0000801	.0000690
%RSD	.3980482	.3175557	.1308810	.3988688	.0343387	9.402339
#1	.4583007	248.9372	2.472241	50.02696	.2335034	.0007862
#2	.4546726	250.4599	2.474142	49.82609	.2333431	.0006559
#3	.4563135	250.0847	2.467837	49.62948	.2334215	.0007605

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.736773	.4166815	.4022651	24.55066	-.123341	.0106345
Stddev	.023369	.0025513	.0011121	.14142	.003913	.0003983
%RSD	.6253694	.6122820	.2764514	.5760404	3.172104	3.745115
#1	3.710637	.4195882	.4011348	24.38776	-.127612	.0108763
#2	3.755653	.4156434	.4023025	24.64201	-.122483	.0101749
#3	3.744030	.4148129	.4033580	24.62221	-.119929	.0108525

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1624-01 Acquired: 3/25/2025 13:07:21 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.005376	6.993648	4.739553	F 11.38167	8.818777	.2213206
Stddev	.001075	.009600	.030988	.05873	.024146	.0007184
%RSD	19.99810	.1372718	.6538255	.5159822	.2738062	.3246047
#1	-.004910	7.001036	4.704801	11.43763	8.832206	.2205447
#2	-.006605	6.997112	4.749548	11.32052	8.790901	.2214543
#3	-.004612	6.982797	4.764310	11.38685	8.833224	.2219627

Elem	Sr4077
Units	ppm
Avg	-.118096
Stddev	.000733
%RSD	.6203912
#1	-.117251
#2	-.118561
#3	-.118476

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3711.203	87930.74	19605.52	2464.813	4620.292
Stddev	8.529	288.00	20.28	17.958	13.049
%RSD	.2298296	.3275348	.1034254	.7285699	.2824183
#1	3705.411	88257.82	19595.19	2475.234	4610.770
#2	3720.998	87715.15	19592.50	2475.128	4635.165
#3	3707.202	87819.25	19628.88	2444.077	4614.939

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1624-01DUP Acquired: 3/25/2025 13:11:26 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0365899	-.008457	.1184594	-.035217	-.009982	116.2795
Stddev	.0012478	.001610	.0009335	.001635	.001222	.0948
%RSD	3.410313	19.03738	.7880522	4.641657	12.24412	.0815645
#1	.0380163	-.009100	.1190047	-.036762	-.008652	116.1727
#2	.0360528	-.009646	.1189920	-.033506	-.010239	116.3540
#3	.0357005	-.006625	.1173815	-.035384	-.011055	116.3116

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5208061	.0055492	-.004888	41.35466	.2869359	.1334777
Stddev	.0008188	.0000252	.000158	.05949	.0003149	.0006623
%RSD	.1572208	.4536039	3.229885	.1438526	.1097535	.4961574
#1	.5199126	.0055338	-.004830	41.39596	.2872942	.1333874
#2	.5215205	.0055356	-.005067	41.28647	.2867030	.1328652
#3	.5209854	.0055783	-.004768	41.38155	.2868106	.1341804

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4550500	254.5162	2.474927	49.69374	.2324905	.0009123
Stddev	.0007600	.1582	.001664	.07266	.0010483	.0006517
%RSD	.1670254	.0621526	.0672222	.1462174	.4509025	71.43774
#1	.4545662	254.3612	2.475807	49.74255	.2328151	.0001609
#2	.4546578	254.6774	2.475966	49.61023	.2313182	.0012526
#3	.4559261	254.5100	2.473008	49.72844	.2333380	.0013233

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.807595	.4137793	.4051347	25.05385	-.107498	.0106745
Stddev	.016605	.0014634	.0011245	.02330	.002537	.0002219
%RSD	.4361071	.3536562	.2775538	.0929832	2.360088	2.079136
#1	3.789762	.4123203	.4063787	25.03154	-.110334	.0108931
#2	3.810411	.4137707	.4048349	25.07802	-.105442	.0104493
#3	3.822612	.4152470	.4041905	25.05199	-.106720	.0106810

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1624-01DUP Acquired: 3/25/2025 13:11:26 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.007847	6.990150	4.888727	F 11.43751	8.838230	.2239937
Stddev	.000184	.002291	.013053	.05709	.042871	.0014403
%RSD	2.349713	.0327729	.2670069	.4991898	.4850647	.6430260
#1	-.007647	6.987515	4.899367	11.40382	8.812290	.2245821
#2	-.008010	6.991667	4.892652	11.40527	8.814687	.2223523
#3	-.007885	6.991269	4.874161	11.50343	8.887714	.2250466

Elem	Sr4077
Units	ppm
Avg	-.122448
Stddev	.000144
%RSD	.1177497
#1	-.122546
#2	-.122515
#3	-.122282

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3710.734	85950.48	19486.20	2445.827	4613.303
Stddev	4.764	184.37	18.22	7.578	6.251
%RSD	.1283879	.2145044	.0934803	.3098276	.1354907
#1	3706.397	86135.66	19505.00	2439.791	4612.464
#2	3715.833	85766.94	19468.63	2443.358	4619.930
#3	3709.970	85948.83	19484.98	2454.331	4607.514

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1624-01LX5 Acquired: 3/25/2025 13:15:29 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0060430	-.000970	.0238219	-.008982	-.002645	26.72355	.1121469
Stddev	.0009154	.000638	.0011047	.002870	.000168	.07007	.0010396
%RSD	15.14750	65.73171	4.637136	31.95303	6.345964	.2621996	.9269589
#1	.0049912	-.001012	.0232545	-.011108	-.002618	26.78932	.1130660
#2	.0066591	-.001585	.0231163	-.005718	-.002493	26.64986	.1110187
#3	.0064787	-.000312	.0250950	-.010122	-.002825	26.73147	.1123559

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014398	-.002871	9.873816	.0669009	.0265041	.1094640	57.82213
Stddev	.0000492	.000018	.012404	.0003081	.0001405	.0002447	.23408
%RSD	3.415711	.6132391	.1256229	.4605001	.5301643	.2235122	.4048324
#1	.0014039	-.002862	9.859648	.0665872	.0264925	.1095512	58.09240
#2	.0014958	-.002860	9.882715	.0672030	.0263697	.1096531	57.68435
#3	.0014195	-.002891	9.879086	.0669125	.0266500	.1091877	57.68962

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5923391	11.64749	.0469902	.0007003	.8447690	.0975412	.0924641
Stddev	.0005575	.01781	.0002545	.0002147	.0123816	.0009575	.0007152
%RSD	.0941136	.1529360	.5416348	30.65085	1.465673	.9816820	.7735403
#1	.5918847	11.65205	.0468782	.0008570	.8568336	.0978241	.0930865
#2	.5929612	11.62784	.0468109	.0007883	.8320931	.0983254	.0926230
#3	.5921714	11.66258	.0472815	.0004556	.8453803	.0964741	.0916828

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.429645	-.039881	.0023867	-.005579	1.639491	1.079224	2.261404
Stddev	.030740	.001352	.0000507	.000965	.005642	.001038	.011232
%RSD	.5661438	3.390888	2.124389	17.30668	.3441270	.0961642	.4966794
#1	5.422992	-.038322	.0023755	-.004468	1.645201	1.078677	2.266789
#2	5.402777	-.040575	.0023426	-.006216	1.633920	1.080421	2.248493
#3	5.463166	-.040745	.0024421	-.006051	1.639353	1.078575	2.268929

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1624-01LX5 Acquired: 3/25/2025 13:15:29 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	1.722841	.0472142	-.026882
Stddev	.004587	.0009009	.000252
%RSD	.2662617	1.908042	.9363337
#1	1.721233	.0479102	-.027172
#2	1.719274	.0475357	-.026718
#3	1.728016	.0461967	-.026756

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3413.989	79239.10	17096.66	2246.180	5062.865
Stddev	12.935	223.93	18.89	8.820	11.966
%RSD	.3788961	.2826029	.1104605	.3926706	.2363551
#1	3424.041	79036.26	17106.78	2236.019	5069.201
#2	3418.532	79201.62	17074.87	2251.860	5070.331
#3	3399.395	79479.40	17108.33	2250.661	5049.063

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV04 Acquired: 3/25/2025 13:33:18 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	5.183440	5.073164	4.939733	5.262992	5.276618	9.926399	9.946436
Stddev	.020798	.042745	.018901	.024218	.026428	.009301	.076323
%RSD	.4012394	.8425711	.3826402	.4601628	.5008478	.0936982	.7673395
#1	5.166297	5.037225	4.925658	5.238810	5.259570	9.929777	10.00648
#2	5.177446	5.061834	4.932326	5.262920	5.263223	9.915881	9.86055
#3	5.206577	5.120432	4.961217	5.287247	5.307062	9.933538	9.97229

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2286794	2.449027	23.68967	1.004687	2.466935	1.297331	5.141861
Stddev	.0015156	.008216	.07103	.004697	.007509	.003330	.034973
%RSD	.6627585	.3354993	.2998225	.4674841	.3043985	.2566515	.6801710
#1	.2296536	2.443413	23.70012	.999269	2.461479	1.295043	5.102063
#2	.2269332	2.445210	23.61400	1.007196	2.463828	1.295798	5.167696
#3	.2294513	2.458458	23.75490	1.007597	2.475500	1.301150	5.155825

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.362969	23.52883	2.458308	1.272094	26.34388	2.447802	2.585581
Stddev	.008752	.08791	.008095	.004942	.29961	.006659	.005392
%RSD	.3703970	.3736437	.3293089	.3884883	1.137318	.2720486	.2085250
#1	2.360605	23.55771	2.454598	1.266876	26.00600	2.453267	2.580464
#2	2.355641	23.43011	2.452732	1.272704	26.57722	2.440385	2.591211
#3	2.372660	23.59868	2.467593	1.276703	26.44843	2.449755	2.585067

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.69418	4.616198	5.211355	4.942471	4.909058	5.456005	5.035082
Stddev	.27194	.040510	.022761	.022534	.014101	.073784	.021020
%RSD	1.018721	.8775563	.4367623	.4559205	.2872524	1.352347	.4174706
#1	26.38193	4.656387	5.196376	4.927981	4.899560	5.372413	5.016075
#2	26.87907	4.575375	5.200140	4.930999	4.902353	5.512062	5.031512
#3	26.82154	4.616834	5.237547	4.968432	4.925261	5.483539	5.057658

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV04 Acquired: 3/25/2025 13:33:18 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	4.961459	4.922312	4.918682
Stddev	.022809	.007454	.027001
%RSD	.4597252	.1514393	.5489474
#1	4.938482	4.914960	4.926856
#2	4.961799	4.922110	4.940651
#3	4.984097	4.929865	4.888538

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3226.468	74049.22	15941.25	2109.121	4818.498
Stddev	11.086	376.80	113.76	14.314	13.486
%RSD	.3435978	.5088554	.7135975	.6786947	.2798897
#1	3231.209	74450.49	15849.67	2125.458	4825.177
#2	3234.396	73994.28	16068.59	2103.128	4827.342
#3	3213.800	73702.91	15905.48	2098.777	4802.976

Sample Name: CCB04 Acquired: 3/25/2025 13:42:28 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.001550	-.001067	-.000773	.0014482	-.001470	-.001745	-.010938
Stddev	.000515	.000550	.000467	.0032774	.002208	.000880	.000323
%RSD	33.24222	51.54821	60.47005	226.3042	150.2009	50.40330	2.954092
#1	-.001526	-.001699	-.000857	-.000601	.001027	-.002754	-.011107
#2	-.001047	-.000701	-.000269	-.000283	-.002273	-.001347	-.010565
#3	-.002076	-.000800	-.001192	.005228	-.003163	-.001135	-.011142

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000025	-.000100	.0173514	.0002775	-.000174	-.000372	-.004066
Stddev	.0000202	.000056	.0030625	.0003500	.000053	.000562	.000664
%RSD	811.4809	56.16083	17.65013	126.1254	30.56288	151.2004	16.32735
#1	-.000001	-.000077	.0168650	.0000749	-.000175	.000047	-.004811
#2	-.000016	-.000165	.0145612	.0006816	-.000226	-.000151	-.003850
#3	.000024	-.000060	.0206280	.0000759	-.000120	-.001011	-.003537

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000967	-.002932	-.000028	.0008833	.0175034	.0006551	-.000305
Stddev	.000063	.009657	.000096	.0001474	.0198898	.0008203	.000024
%RSD	6.493043	329.3893	342.6323	16.68403	113.6339	125.2040	8.015607
#1	-.001027	.003503	.000076	.0007152	.0398598	-.000256	-.000283
#2	-.000902	.001738	-.000047	.0009442	.0017700	.001336	-.000301
#3	-.000970	-.014037	-.000113	.0009904	.0108805	.000885	-.000332

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0917470	-.003113	-.000074	-.003401	.0006834	-.000191	-.000988
Stddev	.0114869	.000141	.000249	.000215	.0006482	.006033	.000799
%RSD	12.52017	4.535319	335.4630	6.330019	94.85185	3164.744	80.90631
#1	.0798612	-.003170	.000195	-.003615	.0013411	.003218	-.000556
#2	.0925915	-.003217	-.000295	-.003403	.0006639	.003366	-.000498
#3	.1027883	-.002952	-.000122	-.003185	.0000452	-.007156	-.001910

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB04 Acquired: 3/25/2025 13:42:28 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0005848	-.005455	.0000036
Stddev	.0013433	.000368	.0000606
%RSD	229.7180	6.744260	1699.771
#1	.0014384	-.005880	-.000063
#2	.0012796	-.005247	.000019
#3	-.000964	-.005238	.000055

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3348.946	76212.44	16592.26	2145.686	5431.639
Stddev	5.648	142.42	79.62	3.448	8.164
%RSD	.1686501	.1868726	.4798782	.1607030	.1503025
#1	3351.510	76256.24	16527.43	2148.465	5430.847
#2	3352.857	76053.26	16568.22	2146.767	5440.170
#3	3342.471	76327.81	16681.14	2141.827	5423.900

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1624-01MS Acquired: 3/25/2025 13:46:48 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6925245	1.817331	1.020291	1.582904	.3317905	116.6930
Stddev	.0004870	.005112	.003124	.004753	.0041427	.0450
%RSD	.0703283	.2812667	.3062110	.3002450	1.248581	.0385717
#1	.6920177	1.821181	1.020315	1.587486	.3270077	116.6418
#2	.6925668	1.811531	1.017155	1.577998	.3342556	116.7262
#3	.6929891	1.819280	1.023403	1.583229	.3341082	116.7110

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6942045	.1481922	.1838567	46.96533	.6119140	.3320478
Stddev	.0034819	.0003914	.0005657	.11483	.0019237	.0005022
%RSD	.5015730	.2641358	.3076644	.2444902	.3143781	.1512482
#1	.6902286	.1480722	.1842331	46.83289	.6138810	.3322804
#2	.6956749	.1486296	.1832062	47.03695	.6118241	.3314715
#3	.6967101	.1478749	.1841307	47.02616	.6100367	.3323915

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7267022	249.8428	2.656505	53.15521	.7069295	.0639312
Stddev	.0019338	.6535	.013311	.13944	.0021368	.0007757
%RSD	.2661092	.2615728	.5010637	.2623247	.3022616	1.213286
#1	.7277782	249.1076	2.641137	53.00240	.7078359	.0632190
#2	.7244697	250.0632	2.663983	53.18766	.7044889	.0638171
#3	.7278588	250.3577	2.664395	53.27555	.7084637	.0647577

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.091149	.6649917	.5746007	35.67095	.0684256	.3614774
Stddev	.012661	.0016135	.0004512	.05303	.0039252	.0017049
%RSD	.2078650	.2426377	.0785284	.1486715	5.736414	.4716596
#1	6.087044	.6637460	.5741546	35.72879	.0726124	.3622057
#2	6.081049	.6668144	.5745905	35.65945	.0678357	.3595293
#3	6.105354	.6644148	.5750569	35.62461	.0648288	.3626973

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1624-01MS Acquired: 3/25/2025 13:46:48 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6484783	8.437904	5.534111	F 17.97944	F 12.90334	.3874569
Stddev	.0018751	.024267	.018665	.04721	.02729	.0008756
%RSD	.2891480	.2875923	.3372719	.2625877	.2114710	.2259904
#1	.6500219	8.409951	5.542112	17.96731	12.91391	.3866589
#2	.6463917	8.450199	5.512780	17.93947	12.87235	.3883936
#3	.6490214	8.453563	5.547443	18.03153	12.92377	.3873183

Elem	Sr4077
Units	ppm
Avg	.0642218
Stddev	.0004253
%RSD	.6622380
#1	.0640847
#2	.0638820
#3	.0646988

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3704.280	87246.30	19321.05	2451.605	4552.435
Stddev	9.075	176.74	44.22	9.120	9.183
%RSD	.2449979	.2025704	.2288834	.3720092	.2017247
#1	3695.771	87165.91	19362.38	2459.520	4545.045
#2	3713.832	87448.94	19326.35	2441.632	4562.716
#3	3703.238	87124.05	19274.41	2453.664	4549.544

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1624-01MSD Acquired: 3/25/2025 13:50:46 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6876949	1.810735	1.013724	1.561850	.3265494	117.1538
Stddev	.0017990	.009490	.003343	.001614	.0003103	.1068
%RSD	.2615969	.5240726	.3297519	.1033486	.0950220	.0911220
#1	.6857067	1.820498	1.014971	1.560495	.3262678	117.1981
#2	.6881678	1.810163	1.009937	1.563636	.3264983	117.0320
#3	.6892102	1.801544	1.016263	1.561418	.3268820	117.2312

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6839731	.1538361	.1844010	46.94102	.6065159	.3301209
Stddev	.0004180	.0009724	.0005101	.00564	.0012552	.0007710
%RSD	.0611077	.6320976	.2766248	.0120161	.2069522	.2335582
#1	.6844422	.1536634	.1847707	46.94742	.6071572	.3294358
#2	.6838369	.1548832	.1838190	46.93678	.6073209	.3299708
#3	.6836403	.1529615	.1846132	46.93884	.6050696	.3309559

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7282152	238.6848	2.670712	53.52964	.7050909	.0617765
Stddev	.0018330	.3584	.003696	.05076	.0007536	.0003181
%RSD	.2517103	.1501611	.1383956	.0948293	.1068820	.5148743
#1	.7261596	238.5755	2.673816	53.54807	.7053245	.0620737
#2	.7288065	238.3937	2.671696	53.56862	.7042482	.0618149
#3	.7296796	239.0851	2.666623	53.47224	.7057001	.0614410

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.813872	.6623616	.5708788	34.06955	.0180862	.3602264
Stddev	.016038	.0027501	.0034208	.09673	.0046985	.0008606
%RSD	.2758520	.4151915	.5992173	.2839215	25.97854	.2388983
#1	5.832372	.6630867	.5748043	34.11226	.0145775	.3596044
#2	5.805352	.6646765	.5692966	33.95882	.0162569	.3612085
#3	5.803893	.6593217	.5685356	34.13757	.0234242	.3598664

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1624-01MSD Acquired: 3/25/2025 13:50:46 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6496181	8.396412	5.389940	F 17.91835	F 12.80053	.3851946
Stddev	.0008089	.004783	.005112	.02791	.01067	.0009983
%RSD	.1245213	.0569647	.0948414	.1557805	.0833424	.2591692
#1	.6499598	8.398714	5.385837	17.89356	12.81153	.3851728
#2	.6486945	8.390914	5.388316	17.94858	12.79022	.3842074
#3	.6502001	8.399610	5.395666	17.91290	12.79985	.3862036

Elem	Sr4077
Units	ppm
Avg	.0719728
Stddev	.0001747
%RSD	.2427552
#1	.0721566
#2	.0719530
#3	.0718088

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3721.035	88295.62	18548.89	2486.914	4576.272
Stddev	7.006	114.43	53.12	14.796	7.893
%RSD	.1882877	.1295962	.2863782	.5949447	.1724666
#1	3728.150	88176.51	18529.10	2470.650	4578.273
#2	3720.812	88305.66	18508.50	2499.577	4582.971
#3	3714.142	88404.70	18609.06	2490.515	4567.571

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1624-01A Acquired: 3/25/2025 13:54:45 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6886159	1.784387	.9928503	1.568719	.6815420	119.2831
Stddev	.0031196	.011613	.0011157	.006870	.0028167	.3403
%RSD	.4530320	.6508043	.1123778	.4379242	.4132793	.2852779
#1	.6900556	1.788063	.9941039	1.560967	.6837057	119.0296
#2	.6850364	1.771381	.9924809	1.571139	.6783571	119.6698
#3	.6907558	1.793717	.9919661	1.574051	.6825631	119.1498

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6926666	.1439846	.1759440	42.19994	.6006427	.3189489
Stddev	.0032275	.0008345	.0003214	.17618	.0026518	.0005397
%RSD	.4659517	.5795590	.1826768	.4174906	.4415000	.1692001
#1	.6922346	.1442018	.1761395	42.08367	.5985149	.3183293
#2	.6960884	.1446891	.1761195	42.40264	.6036136	.3193159
#3	.6896769	.1430631	.1755731	42.11350	.5997996	.3192016

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6929096	258.1511	2.616105	51.07462	.6925674	.0642150
Stddev	.0018030	1.1682	.013081	.24684	.0029628	.0002260
%RSD	.2602018	.4525160	.5000179	.4832936	.4277964	.3518840
#1	.6909232	256.8950	2.609363	50.83664	.6892130	.0643607
#2	.6933630	259.2050	2.631182	51.32946	.6948268	.0643296
#3	.6944426	258.3533	2.607771	51.05777	.6936624	.0639547

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.504381	.6449398	.5716498	34.76360	.1052318	.3508574
Stddev	.033430	.0045126	.0026339	.15224	.0040984	.0003723
%RSD	.5139655	.6996880	.4607578	.4379314	3.894619	.1061202
#1	6.475739	.6403017	.5733243	34.59783	.1005810	.3509223
#2	6.541114	.6493154	.5730113	34.89715	.1067993	.3511930
#3	6.496290	.6452022	.5686138	34.79581	.1083151	.3504569

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1624-01A Acquired: 3/25/2025 13:54:45 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6449276	7.437935	F 10.18465	F 16.78243	8.774945	.3906761
Stddev	.0018453	.033569	.05384	.03090	.007092	.0027098
%RSD	.2861234	.4513201	.5286451	.1841118	.0808250	.6936143
#1	.6433636	7.421732	10.19601	16.79857	8.779100	.3891136
#2	.6469628	7.476532	10.12603	16.80191	8.766756	.3938051
#3	.6444564	7.415541	10.23190	16.74680	8.778980	.3891096

Elem	Sr4077
Units	ppm
Avg	.0335188
Stddev	.0011537
%RSD	3.441792
#1	.0341792
#2	.0341905
#3	.0321867

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3674.634	85181.44	19415.66	2404.487	4573.243
Stddev	5.312	212.58	102.00	4.409	7.678
%RSD	.1445499	.2495654	.5253273	.1833747	.1678882
#1	3669.162	85384.92	19420.79	2406.555	4571.988
#2	3674.972	84960.80	19311.19	2399.425	4566.270
#3	3679.769	85198.60	19514.99	2407.483	4581.471

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-05DLX10 Acquired: 3/25/2025 13:58:43 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0062453	.0009840	.0370563	.0004359	-.008975	12.03216	.0622174
Stddev	.0011186	.0020425	.0010244	.0020396	.001249	.02255	.0014812
%RSD	17.91065	207.5686	2.764354	467.8936	13.91754	.1874415	2.380648
#1	.0051135	-.000974	.0361390	.0024847	-.007742	12.00626	.0637554
#2	.0062721	.000825	.0368682	.0004172	-.008942	12.04275	.0608005
#3	.0073502	.003101	.0381616	-.001594	-.010240	12.04747	.0620962

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008839	-.001594	10.31084	1.298047	.0169170	.0543407	27.61898
Stddev	.0000535	.000074	.02793	.002664	.0003061	.0001488	.01969
%RSD	6.056300	4.644343	.2708461	.2052001	1.809578	.2737719	.0712923
#1	.0009106	-.001675	10.32495	1.301024	.0167665	.0545102	27.63967
#2	.0009188	-.001579	10.32889	1.295889	.0167153	.0542798	27.60047
#3	.0008223	-.001529	10.27867	1.297227	.0172693	.0542320	27.61678

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4119881	4.654377	.0416877	.0009426	.4777627	.0782134	.0896541
Stddev	.0020907	.017264	.0006908	.0000941	.0173460	.0006122	.0001135
%RSD	.5074577	.3709289	1.657113	9.985148	3.630678	.7826965	.1265894
#1	.4140846	4.669406	.0411658	.0010499	.4598783	.0788664	.0897831
#2	.4119765	4.658205	.0414261	.0009040	.4788949	.0781214	.0896096
#3	.4099033	4.635520	.0424711	.0008740	.4945149	.0776525	.0895695

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.238058	-.016415	.0000108	.0052455	.3080840	1.061182	.4168826
Stddev	.025764	.000784	.0001971	.0003466	.0011970	.010657	.0006172
%RSD	2.081002	4.774566	1820.041	6.607742	.3885338	1.004267	.1480538
#1	1.208408	-.016372	-.000134	.0056455	.3070677	1.048880	.4171533
#2	1.254995	-.017219	.000235	.0050578	.3094034	1.067074	.4161763
#3	1.250769	-.015653	-.000068	.0050332	.3077809	1.067591	.4173181

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-05DLX10 Acquired: 3/25/2025 13:58:43 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6051478	.0220586	-.004697
Stddev	.0037520	.0010044	.000080
%RSD	.6200171	4.553140	1.701970
#1	.6066574	.0226911	-.004627
#2	.6008761	.0225841	-.004679
#3	.6079098	.0209005	-.004784

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3329.111	76448.23	16778.94	2160.599	5180.634
Stddev	4.172	238.49	70.67	8.788	15.100
%RSD	.1253155	.3119638	.4212054	.4067480	.2914696
#1	3332.297	76235.16	16697.45	2152.605	5177.207
#2	3330.646	76705.86	16823.37	2170.010	5197.153
#3	3324.389	76403.66	16816.02	2159.181	5167.542

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1626-01 Acquired: 3/25/2025 14:02:59 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0791445	.0088267	9.582461	-.064433	.0267230	76.13780
Stddev	.0024816	.0003658	.032251	.002997	.0009742	.15465
%RSD	3.135526	4.143751	.3365600	4.651426	3.645560	.2031135
#1	.0791726	.0084049	9.548480	-.063294	.0257175	76.29541
#2	.0766490	.0090566	9.586256	-.062172	.0276626	75.98630
#3	.0816120	.0090186	9.612646	-.067833	.0267889	76.13168

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.782559	.0073035	.1130704	187.2123	.4502013	.2202772
Stddev	.029460	.0000892	.0001096	.2847	.0006890	.0011769
%RSD	.7788405	1.221304	.0969699	.1520584	.1530349	.5342952
#1	3.750458	.0074064	.1131856	187.4074	.4495546	.2190070
#2	3.808359	.0072558	.1130583	187.3438	.4509259	.2204936
#3	3.788859	.0072483	.1129673	186.8856	.4501234	.2213309

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.373191	357.2363	3.814848	44.72707	.6084214	.0104155
Stddev	.007476	2.5077	.007444	.13751	.0020811	.0003915
%RSD	.2216405	.7019680	.1951430	.3074333	.3420441	3.758488
#1	3.372550	355.7411	3.817141	44.66041	.6066320	.0100881
#2	3.366056	355.8365	3.806526	44.63560	.6079270	.0103094
#3	3.380967	360.1314	3.820876	44.88520	.6107051	.0108491

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.321117	.3318361	14.52914	22.82580	-.053018	.0946716
Stddev	.006763	.0006928	.05084	.06862	.001017	.0003154
%RSD	.1565020	.2087910	.3499481	.3006081	1.918458	.3331345
#1	4.328608	.3326220	14.58692	22.88186	-.053332	.0945659
#2	4.319281	.3313132	14.49123	22.74928	-.051881	.0950262
#3	4.315462	.3315732	14.50928	22.84627	-.053841	.0944226

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1626-01 Acquired: 3/25/2025 14:02:59 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	1.648741	4.302629	F 10.53398	F 12.26313	F 12.24689	.2257880
Stddev	.004980	.004941	.01254	.06917	.06181	.0012881
%RSD	.3020371	.1148427	.1190387	.5640395	.5047207	.5704980
#1	1.643699	4.305253	10.54124	12.20908	12.18423	.2268631
#2	1.648867	4.296929	10.51951	12.23923	12.24862	.2243603
#3	1.653657	4.305704	10.54121	12.34108	12.30782	.2261405

Elem	Sr4077
Units	ppm
Avg	.4752075
Stddev	.0028759
%RSD	.6051881
#1	.4783393
#2	.4745979
#3	.4726852

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3908.757	92630.88	21584.61	2563.485	4345.504
Stddev	10.149	211.37	60.73	8.025	9.771
%RSD	.2596521	.2281822	.2813732	.3130481	.2248636
#1	3903.598	92571.54	21623.51	2563.849	4349.232
#2	3920.449	92865.57	21615.69	2571.322	4352.863
#3	3902.223	92455.53	21514.62	2555.285	4334.418

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1630-01 Acquired: 3/25/2025 14:11:18 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0712505	.0192478	.3718137	-.086872	-.008131	232.9441	1.892914
Stddev	.0017512	.0039658	.0008137	.001236	.002955	2.2375	.004048
%RSD	2.457860	20.60384	.2188535	1.423345	36.34349	.9605285	.2138342
#1	.0710386	.0202945	.3713080	-.088255	-.011016	235.3300	1.890262
#2	.0730980	.0148636	.3727524	-.085873	-.008265	230.8926	1.890907
#3	.0696149	.0225852	.3713808	-.086489	-.005111	232.6098	1.897573

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0178739	.0053265	218.2289	.4098693	.2838979	.6707679	463.6248
Stddev	.0001259	.0001801	.7506	.0007080	.0005687	.0028747	1.1052
%RSD	.7041026	3.382227	.3439517	.1727459	.2003200	.4285627	.2383841
#1	.0177388	.0054834	217.3920	.4101665	.2834201	.6678702	462.3505
#2	.0179878	.0051297	218.8423	.4090611	.2837465	.6708145	464.3228
#3	.0178951	.0053663	218.4525	.4103803	.2845269	.6736189	464.2010

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.87300	165.2137	.5713703	-.003461	3.084918	.5866030	1.734469
Stddev	.01392	.4445	.0012833	.000183	.024990	.0010944	.005343
%RSD	.1003660	.2690590	.2245945	5.301424	.8100691	.1865643	.3080237
#1	13.85998	165.4483	.5703387	-.003404	3.059288	.5865520	1.733841
#2	13.88768	165.4918	.5709650	-.003666	3.086252	.5877220	1.729468
#3	13.87133	164.7010	.5728073	-.003312	3.109214	.5855350	1.740097

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.51782	-.156386	.0046936	.0056350	4.638222	3.229401	7.780774
Stddev	.17382	.003719	.0002106	.0005217	.007661	.022396	.008896
%RSD	.5035719	2.377897	4.486693	9.258187	.1651813	.6935138	.1143385
#1	34.39356	-.159300	.0048936	.0052559	4.640964	3.207572	7.773198
#2	34.44344	-.152198	.0047134	.0062299	4.629567	3.228307	7.778553
#3	34.71645	-.157660	.0044738	.0054190	4.644136	3.252325	7.790570

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1630-01 Acquired: 3/25/2025 14:11:18 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	1.427092	1.058610	.5962536
Stddev	.003182	.002925	.0026477
%RSD	.2229865	.2763294	.4440521
#1	1.423441	1.055959	.5992595
#2	1.428557	1.058123	.5952338
#3	1.429277	1.061749	.5942675

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3529.508	83098.79	19470.04	2332.566	4114.135
Stddev	7.373	221.52	10.92	6.375	6.617
%RSD	.2088978	.2665748	.0560643	.2732966	.1608373
#1	3536.530	83224.50	19459.31	2332.148	4120.325
#2	3530.167	83228.85	19481.13	2339.139	4114.917
#3	3521.828	82843.01	19469.69	2326.410	4107.161

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167267BL Acquired: 3/25/2025 14:15:56 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.002816	-.001736	-.001103	-.000495	.0004204	.0050211	-.011880
Stddev	.001516	.000613	.000546	.001902	.0019505	.0055572	.000148
%RSD	53.83766	35.30247	49.50144	383.8839	463.9181	110.6766	1.242571
#1	-.001505	-.002220	-.001720	.001154	.0012980	-.001382	-.011824
#2	-.002467	-.001942	-.000906	-.002576	-.001815	.008592	-.012047
#3	-.004477	-.001047	-.000682	-.000064	.001778	.007853	-.011768

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000138	-.000112	.0106772	-.000104	-.000068	-.000293	.0066643
Stddev	.0000424	.000059	.0042410	.000308	.000169	.000200	.0029781
%RSD	307.9657	53.06930	39.71979	296.1380	248.2476	68.24986	44.68777
#1	.0000417	-.000146	.0094755	-.000333	-.000083	-.000154	.0046001
#2	-.000035	-.000043	.0153894	-.000226	.000107	-.000202	.0100783
#3	.000035	-.000146	.0071668	.000246	-.000229	-.000522	.0053144

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000718	.0031055	.0001789	.0006816	-.014018	-.000208	-.001014
Stddev	.000201	.0147222	.0000707	.0000839	.017190	.000731	.000036
%RSD	27.99353	474.0674	39.53721	12.30506	122.6285	351.5569	3.506895
#1	-.000643	-.011369	.0000973	.0007399	-.029474	.000402	-.001005
#2	-.000566	.002622	.0002195	.0005855	-.017076	-.001018	-.001053
#3	-.000946	.018064	.0002201	.0007194	.004496	-.000008	-.000984

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0364620	-.006081	-.000230	-.003895	.0009032	.0040687	-.001331
Stddev	.0130843	.000152	.000258	.000161	.0002725	.0042910	.002220
%RSD	35.88475	2.499365	111.8200	4.132050	30.17132	105.4626	166.8302
#1	.0243697	-.006256	-.000323	-.004081	.0005894	.0053005	-.003666
#2	.0503523	-.005983	-.000429	-.003815	.0010807	-.000703	-.001082
#3	.0346639	-.006004	.000061	-.003790	.0010394	.007609	.000754

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167267BL Acquired: 3/25/2025 14:15:56 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0012671	-.004919	.0000839
Stddev	.0012473	.000684	.0000402
%RSD	98.43424	13.89585	47.92198
#1	.0001064	-.004452	.0000464
#2	.0011091	-.004602	.0001264
#3	.0025859	-.005704	.0000790

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3349.465	76762.68	16228.00	2179.633	5433.215
Stddev	7.556	604.98	66.93	26.993	12.009
%RSD	.2255925	.7881143	.4124518	1.238405	.2210267
#1	3343.296	77379.18	16249.12	2210.549	5419.776
#2	3347.205	76738.94	16281.83	2167.603	5436.978
#3	3357.893	76169.92	16153.06	2160.747	5442.892

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167267BS Acquired: 3/25/2025 14:20:15 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7695699	1.896357	.9042908	1.988719	.8145114	1.860423
Stddev	.0035460	.008826	.0023072	.007151	.0044424	.001959
%RSD	.4607808	.4654177	.2551392	.3595608	.5454079	.1053219
#1	.7735732	1.887301	.9024470	1.994835	.8119039	1.862187
#2	.7668234	1.896838	.9035474	1.980857	.8119894	1.860766
#3	.7683132	1.904933	.9068781	1.990466	.8196408	1.858314

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1672938	.1701620	.1798770	.9150027	.3849232	.1842169
Stddev	.0015796	.0006691	.0007121	.0084066	.0013794	.0006749
%RSD	.9442359	.3931882	.3958672	.9187536	.3583549	.3663535
#1	.1686979	.1704672	.1790747	.9160879	.3861673	.1834560
#2	.1655834	.1693947	.1801225	.9061062	.3834398	.1844521
#3	.1676002	.1706239	.1804339	.9228141	.3851625	.1847428

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3057550	2.864665	.1764619	1.733622	.4614139	.0731822
Stddev	.0010827	.010229	.0014611	.012673	.0018821	.0002327
%RSD	.3541067	.3570868	.8279748	.7310251	.4078916	.3180143
#1	.3046204	2.876018	.1768773	1.730131	.4598416	.0734235
#2	.3058676	2.861809	.1748382	1.723061	.4609006	.0731639
#3	.3067770	2.856167	.1776703	1.747675	.4634993	.0729591

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.730423	.2715782	.1961610	9.679607	.2485588	.4016540
Stddev	.025057	.0023250	.0008322	.093638	.0015229	.0013114
%RSD	.9176931	.8561258	.4242479	.9673688	.6127058	.3264908
#1	2.755417	.2740522	.1961286	9.770741	.2477129	.4002562
#2	2.730550	.2694382	.1953455	9.684429	.2476467	.4018486
#3	2.705303	.2712444	.1970089	9.583652	.2503169	.4028572

Sample Name: PB167267BS Acquired: 3/25/2025 14:20:15 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6388797	.1821319	.7707131	5.336165	F -.008110	.1831888
Stddev	.0019183	.0009646	.0064229	.018715	.002028	.0009057
%RSD	.3002522	.5296011	.8333675	.3507286	25.00347	.4943895
#1	.6369233	.1831611	.7763956	5.321394	-.010431	.1841834
#2	.6389586	.1812486	.7719992	5.329889	-.006684	.1829716
#3	.6407573	.1819860	.7637445	5.357212	-.007214	.1824115

Elem	Sr4077
Units	ppm
Avg	.1805436
Stddev	.0007541
%RSD	.4176815
#1	.1812901
#2	.1797821
#3	.1805586

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3307.564	76751.17	16470.14	2157.929	5236.403
Stddev	8.175	95.22	78.26	11.034	12.856
%RSD	.2471490	.1240695	.4751557	.5113032	.2455079
#1	3315.784	76649.35	16474.23	2162.832	5250.912
#2	3307.472	76766.13	16546.28	2145.293	5231.868
#3	3299.436	76838.03	16389.92	2165.661	5226.429

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-09DLX25 Acquired: 3/25/2025 14:24:18 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0042780	-.002106	.0131162	.0016243	-.007871	3.802038	.0056288
Stddev	.0025847	.000595	.0017187	.0007741	.000859	.006481	.0004394
%RSD	60.41834	28.25312	13.10398	47.65870	10.90919	.1704591	7.805785
#1	.0071475	-.001445	.0132331	.0015681	-.007679	3.794846	.0059896
#2	.0021326	-.002599	.0147735	.0008798	-.007124	3.807425	.0057573
#3	.0035539	-.002272	.0113420	.0024250	-.008809	3.803843	.0051395

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001378	-.000444	6.238185	1.236975	.0022709	.0104082	6.183262
Stddev	.0000484	.000034	.022124	.004724	.0001069	.0001838	.017441
%RSD	35.15547	7.577453	.3546508	.3819237	4.707648	1.766018	.2820748
#1	.0001236	-.000405	6.239593	1.231521	.0023778	.0105613	6.163530
#2	.0001917	-.000461	6.215392	1.239604	.0021640	.0102043	6.196622
#3	.0000980	-.000465	6.259572	1.239800	.0022709	.0104589	6.189633

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1373359	1.120995	.0057020	.0006910	.0597010	.0173434	.0167694
Stddev	.0003594	.025235	.0003162	.0002327	.0128043	.0006932	.0001649
%RSD	.2616810	2.251101	5.545552	33.67087	21.44741	3.997178	.9835937
#1	.1369461	1.096631	.0059140	.0004603	.0623069	.0170401	.0166061
#2	.1374073	1.119334	.0053385	.0006871	.0710020	.0168535	.0167662
#3	.1376542	1.147019	.0058534	.0009256	.0457942	.0181366	.0169359

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3271457	-.007635	.0001226	-.001755	.0839229	.3527319	.2503440
Stddev	.0190369	.000182	.0002515	.000670	.0007920	.0030581	.0029712
%RSD	5.819072	2.385817	205.1591	38.15376	.9436907	.8669670	1.186851
#1	.3227848	-.007580	-.000146	-.002489	.0843546	.3562104	.2537682
#2	.3479846	-.007838	.000160	-.001600	.0830089	.3504664	.2484481
#3	.3106677	-.007486	.000353	-.001177	.0844052	.3515190	.2488156

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-09DLX25 Acquired: 3/25/2025 14:24:18 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.3470475	.0012366	.0063255
Stddev	.0017900	.0003743	.0000526
%RSD	.5157756	30.26334	.8319901
#1	.3453920	.0012630	.0063251
#2	.3468038	.0008499	.0062731
#3	.3489469	.0015970	.0063783

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3323.178	77006.38	16716.28	2185.173	5272.385
Stddev	18.034	130.72	34.20	5.389	22.863
%RSD	.5426615	.1697491	.2046030	.2465968	.4336461
#1	3322.690	77066.18	16681.02	2191.303	5275.565
#2	3341.451	77096.49	16749.32	2183.031	5293.493
#3	3305.394	76856.46	16718.51	2181.184	5248.099

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-11DLX10 Acquired: 3/25/2025 14:28:33 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0044503	-.000652	.0188402	-.001692	-.006428	5.056299	.0161255
Stddev	.0004176	.001196	.0011055	.003664	.000391	.094775	.0008643
%RSD	9.383452	183.4417	5.867670	216.5310	6.083740	1.874401	5.359741
#1	.0042913	-.001070	.0178642	.000209	-.006833	5.010411	.0151387
#2	.0049240	.000697	.0186158	.000631	-.006401	5.165284	.0164901
#3	.0041356	-.001582	.0200407	-.005917	-.006052	4.993202	.0167478

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004360	-.000666	5.495346	.7369959	.0047322	.0225407	10.80949
Stddev	.0000477	.000034	.103829	.0028477	.0000647	.0003387	.01658
%RSD	10.94181	5.122185	1.889400	.3863960	1.367492	1.502389	.1533854
#1	.0004495	-.000639	5.442229	.7396165	.0047427	.0228705	10.80103
#2	.0003830	-.000655	5.614987	.7339655	.0046629	.0225579	10.82859
#3	.0004754	-.000704	5.428821	.7374059	.0047910	.0221938	10.79885

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0846449	1.880317	.0100972	.0007729	.1821820	.0109313	.0570617
Stddev	.0014523	.030230	.0001189	.0002049	.0196951	.0017973	.0002692
%RSD	1.715692	1.607717	1.177205	26.51710	10.81070	16.44215	.4718402
#1	.0836792	1.871621	.0099606	.0005793	.1764828	.0093414	.0568220
#2	.0863150	1.913942	.0101776	.0007518	.2040983	.0128815	.0573530
#3	.0839405	1.855388	.0101533	.0009876	.1659649	.0105711	.0570101

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5800513	-.011842	-.000320	.0015152	.1340948	.5189140	.1790822
Stddev	.0186284	.000970	.000051	.0008641	.0029169	.0055175	.0002672
%RSD	3.211503	8.193980	15.96404	57.02867	2.175241	1.063277	.1491817
#1	.5586810	-.010722	-.000339	.0013755	.1327246	.5189265	.1790826
#2	.5886156	-.012397	-.000359	.0024406	.1374446	.5133903	.1793492
#3	.5928572	-.012408	-.000262	.0007294	.1321154	.5244253	.1788148

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1619-11DLX10 Acquired: 3/25/2025 14:28:33 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.3326415	.0071109	.0067691
Stddev	.0058362	.0014808	.0003343
%RSD	1.754496	20.82465	4.938311
#1	.3299927	.0054385	.0065752
#2	.3285995	.0082553	.0071551
#3	.3393324	.0076389	.0065769

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3372.101	77714.76	16773.02	2214.095	5274.218
Stddev	15.253	29.20	261.29	4.615	26.831
%RSD	.4523221	.0375688	1.557821	.2084517	.5087144
#1	3380.646	77742.52	16910.24	2208.766	5282.026
#2	3381.166	77684.31	16471.71	2216.737	5296.279
#3	3354.491	77717.43	16937.12	2216.781	5244.349

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV05 Acquired: 3/25/2025 14:38:11 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	5.179359	4.979564	4.896961	5.262009	5.275964	9.939364
Stddev	.035231	.014233	.015563	.024560	.018928	.155174
%RSD	.6802245	.2858292	.3178103	.4667365	.3587545	1.561208
#1	5.144946	4.980971	4.885010	5.246423	5.263490	10.10093
#2	5.177776	4.964679	4.891315	5.249285	5.266659	9.79148
#3	5.215355	4.993041	4.914560	5.290320	5.297743	9.92568

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.742941	.2267703	2.424698	23.51584	1.004534	2.436354
Stddev	.299592	.0029010	.008204	.36943	.005229	.008400
%RSD	3.074968	1.279284	.3383371	1.570988	.5205361	.3447585
#1	10.08809	.2299753	2.421984	23.91413	.998768	2.433155
#2	9.59062	.2243241	2.418196	23.18440	1.005866	2.430024
#3	9.55012	.2260114	2.433915	23.44898	1.008969	2.445883

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.284887	5.082792	2.328645	23.45934	2.425973	1.257699
Stddev	.005070	.022000	.036246	.34057	.008952	.004296
%RSD	.3946030	.4328367	1.556513	1.451733	.3690224	.3416063
#1	1.281733	5.089180	2.368951	23.83757	2.424069	1.253546
#2	1.282191	5.058305	2.298727	23.17700	2.418125	1.257426
#3	1.290735	5.100891	2.318258	23.36344	2.435723	1.262126

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.92046	2.438952	2.564006	26.65584	4.550757	5.172896
Stddev	.12424	.034989	.013224	.13397	.061891	.021744
%RSD	.4793308	1.434576	.5157701	.5025949	1.360010	.4203437
#1	25.89855	2.475959	2.554055	26.54425	4.619400	5.159489
#2	25.80863	2.406410	2.579013	26.61885	4.499214	5.161216
#3	26.05420	2.434487	2.558952	26.80442	4.533658	5.197984

Sample Name: CCV05 Acquired: 3/25/2025 14:38:11 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	4.891925	4.873188	F 5.504014	4.905604	4.879949	4.862104
Stddev	.018607	.075910	.029992	.018631	.009497	.078465
%RSD	.3803518	1.557700	.5449030	.3797953	.1946157	1.613811
#1	4.887190	4.953594	5.474506	4.893797	4.890586	4.943676
#2	4.876143	4.802762	5.503069	4.895932	4.872321	4.787168
#3	4.912441	4.863209	5.534467	4.927082	4.876941	4.855468

Elem	Sr4077
Units	ppm
Avg	4.906588
Stddev	.066997
%RSD	1.365454
#1	4.982567
#2	4.855989
#3	4.881208

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3180.065	72564.99	15717.47	2047.471	4776.032
Stddev	10.006	310.84	207.48	11.039	11.722
%RSD	.3146556	.4283565	1.320066	.5391475	.2454298
#1	3184.384	72914.75	15486.28	2059.608	4775.432
#2	3187.186	72459.93	15887.47	2038.031	4788.042
#3	3168.625	72320.30	15778.68	2044.774	4764.621

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB05 Acquired: 3/25/2025 14:48:15 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.002381	-.001830	-.001256	.0001435	-.001074	-.006208	-.011998
Stddev	.001450	.000916	.001179	.0007878	.001161	.000824	.000631
%RSD	60.86914	50.04713	93.82946	548.9741	108.0659	13.26729	5.259928
#1	-.002352	-.000773	-.000191	.0010090	-.002246	-.006734	-.011473
#2	-.000947	-.002342	-.002522	-.000047	-.001053	-.006631	-.011822
#3	-.003846	-.002375	-.001055	-.000532	.000076	-.005259	-.012698

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000023	-.000067	.0070698	-.000030	-.000043	-.000296	-.007501
Stddev	.000056	.000095	.0027297	.000162	.000137	.000252	.002700
%RSD	245.0605	141.4879	38.60971	546.3216	321.6305	84.97695	35.99604
#1	.000002	-.000103	.0102050	-.000087	-.000175	-.000115	-.005767
#2	.000016	.000040	.0052207	.000153	-.000050	-.000190	-.006125
#3	-.000087	-.000138	.0057839	-.000155	.000098	-.000584	-.010612

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001121	.0044573	.0000962	.0006289	-.030644	.0000314	-.000771
Stddev	.000076	.0023324	.0001358	.0002418	.009445	.0004796	.000323
%RSD	6.800666	52.32857	141.1600	38.45164	30.82030	1527.225	41.92413
#1	-.001153	.0032924	-.000042	.0003527	-.020390	.0005508	-.001048
#2	-.001175	.0071427	.000229	.0008023	-.038986	-.000395	-.000851
#3	-.001033	.0029368	.000102	.0007318	-.032557	-.000062	-.000416

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0464280	-.003436	-.000033	-.003817	.0006884	.0063772	-.001619
Stddev	.0116627	.000723	.000142	.000482	.0003171	.0057218	.000932
%RSD	25.11994	21.03913	433.1249	12.62930	46.06854	89.72341	57.58132
#1	.0592866	-.003629	-.000172	-.003866	.0009945	.0011258	-.002505
#2	.0434641	-.004042	.000112	-.003312	.0007093	.0055306	-.001703
#3	.0365332	-.002636	-.000039	-.004272	.0003613	.0124751	-.000647

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB05 Acquired: 3/25/2025 14:48:15 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.001783	-.006745	.0000359
Stddev	.001950	.000657	.0000339
%RSD	109.3608	9.737174	94.36291
#1	-.000644	-.007362	.0000035
#2	-.000670	-.006055	.0000712
#3	-.004035	-.006818	.0000331

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3382.644	77082.96	15755.85	2196.651	5471.349
Stddev	13.519	295.97	106.51	9.803	12.721
%RSD	.3996590	.3839583	.6759956	.4462924	.2325066
#1	3384.238	77419.70	15634.47	2205.038	5481.089
#2	3395.295	76864.06	15833.68	2199.042	5476.002
#3	3368.398	76965.12	15799.40	2185.873	5456.956

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167161BL Acquired: 3/25/2025 14:52:34 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.001952	-.001649	-.001138	.0027848	-.000973	-.005207	-.011259
Stddev	.001518	.001487	.000906	.0017573	.002073	.000544	.000989
%RSD	77.73254	90.15016	79.64905	63.10177	213.1299	10.45151	8.784701
#1	-.002287	-.003247	-.000490	.0014924	-.002869	-.005683	-.012358
#2	-.000295	-.001394	-.000750	.0020763	-.001291	-.004614	-.010978
#3	-.003274	-.000307	-.002174	.0047858	.001241	-.005324	-.010440

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000290	-.000093	.0160002	-.000143	-.000184	-.000402	-.009366
Stddev	.0000300	.000155	.0047046	.000103	.000178	.000325	.000912
%RSD	103.3156	167.3377	29.40365	71.98048	96.25377	81.03248	9.732899
#1	.0000636	-.000162	.0118652	-.000117	-.000245	-.000594	-.010401
#2	.0000138	-.000200	.0150164	-.000256	.000015	-.000585	-.009013
#3	.0000097	.000085	.0211189	-.000055	-.000324	-.000026	-.008683

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000835	-.006749	.0002794	.0010018	-.013554	-.000484	-.000209
Stddev	.000069	.003166	.0001323	.0001663	.014994	.000799	.000174
%RSD	8.280962	46.90546	47.36880	16.59632	110.6228	164.9967	83.44813
#1	-.000762	-.010155	.0003934	.0009787	-.022111	-.000306	-.000152
#2	-.000899	-.003897	.0001343	.0008483	-.022311	.000210	-.000404
#3	-.000844	-.006195	.0003105	.0011784	.003759	-.001357	-.000070

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0526685	-.004687	.0000130	-.003425	.0005893	.0059733	-.002703
Stddev	.0086133	.000270	.0001430	.000370	.0002314	.0056765	.001041
%RSD	16.35381	5.756168	1097.475	10.79674	39.26215	95.03108	38.52364
#1	.0469252	-.004934	.0001288	-.003122	.0006266	.0080373	-.002162
#2	.0485081	-.004728	.0000571	-.003837	.0007997	.0103291	-.002044
#3	.0625722	-.004399	-.000147	-.003317	.0003415	-.000446	-.003904

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167161BL Acquired: 3/25/2025 14:52:34 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.001768	-.005890	.0000319
Stddev	.001600	.000668	.0000404
%RSD	90.52507	11.34095	126.3818
#1	-.002747	-.006424	.0000401
#2	-.002636	-.006106	-.000012
#3	.000079	-.005141	.000068

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3354.588	77647.27	16475.53	2214.091	5408.432
Stddev	6.873	55.38	61.02	4.561	10.848
%RSD	.2048803	.0713273	.3703551	.2059792	.2005692
#1	3362.507	77691.51	16407.26	2208.904	5420.916
#2	3350.179	77585.16	16494.59	2215.896	5401.306
#3	3351.077	77665.15	16524.75	2217.473	5403.074

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167133TB Acquired: 3/25/2025 15:00:56 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.006154	-.007076	-.001412	.0052053	.0015478	-.005202
Stddev	.001568	.000550	.001090	.0026954	.0008513	.003823
%RSD	25.48572	7.772352	77.17987	51.78276	55.00361	73.49142
#1	-.007711	-.006510	-.000411	.0083177	.0009783	-.000801
#2	-.004574	-.007109	-.002574	.0036570	.0011386	-.007103
#3	-.006177	-.007608	-.001252	.0036412	.0025265	-.007701

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.011447	-.000100	-.000219	-.001944	-.000127	-.000313
Stddev	.001008	.000046	.000007	.001758	.000535	.000123
%RSD	8.803230	45.89030	3.040665	90.44146	422.1900	39.24115
#1	-.011752	-.000118	-.000217	-.000144	.000491	-.000256
#2	-.010322	-.000135	-.000214	-.003656	-.000440	-.000453
#3	-.012267	-.000048	-.000227	-.002032	-.000432	-.000228

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000063	.0228168	-.000513	.0004390	.0003392	.0006460
Stddev	.000349	.0033172	.000156	.0104445	.0002610	.0004771
%RSD	550.3824	14.53854	30.33492	2379.226	76.92373	73.84600
#1	-.000466	.0203695	-.000579	-.011247	.0000423	.0010108
#2	.000155	.0214885	-.000335	.003700	.0005321	.0008211
#3	.000120	.0265923	-.000624	.008864	.0004434	.0001062

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 403.2529	-.000601	-.000452	-.017157	-.006096	.0000654
Stddev	3.5340	.000512	.000270	.028453	.000299	.0002419
%RSD	.8763611	85.08931	59.62852	165.8345	4.898033	370.0722
#1	406.9416	-.000468	-.000348	-.016892	-.006153	.0000386
#2	399.8973	-.001167	-.000759	.011162	-.005773	-.000162
#3	402.9197	-.000170	-.000251	-.045741	-.006363	.000320

Sample Name: PB167133TB Acquired: 3/25/2025 15:00:56 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.003561	.0009188	.0092778	.0035102	F .0104346	-.007817
Stddev	.001049	.0007340	.0048236	.0024273	.0034909	.000998
%RSD	29.46510	79.88413	51.99026	69.14847	33.45525	12.76369
#1	-.003341	.0000832	.0070671	.0010156	.0141142	-.006691
#2	-.002639	.0014591	.0059558	.0058639	.0071695	-.008171
#3	-.004702	.0012141	.0148105	.0036511	.0100200	-.008590

Elem	Sr4077
Units	ppm
Avg	.0000868
Stddev	.0000465
%RSD	53.55776
#1	.0001218
#2	.0001046
#3	.0000341

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3041.717	71712.27	16316.34	2011.247	4555.860
Stddev	18.592	542.58	153.28	9.843	26.949
%RSD	.6112481	.7566040	.9394103	.4893771	.5915253
#1	3054.525	71730.86	16148.77	2005.752	4567.864
#2	3050.234	72245.31	16350.80	2022.610	4574.721
#3	3020.392	71160.63	16449.45	2005.378	4524.995

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167161BS Acquired: 3/25/2025 15:12:45 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7792311	1.926521	.9169025	2.005377	.8274965	1.900258
Stddev	.0018955	.025430	.0012126	.006685	.0026306	.005925
%RSD	.2432544	1.319990	.1322463	.3333612	.3179040	.3118144
#1	.7775429	1.933542	.9155366	2.009724	.8302563	1.905181
#2	.7812816	1.947703	.9178520	1.997679	.8250176	1.893681
#3	.7788688	1.898318	.9173189	2.008729	.8272157	1.901911

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2093906	.2098639	.1815815	.9514488	.3897854	.1862337
Stddev	.0013884	.0005032	.0002082	.0036893	.0016942	.0002414
%RSD	.6630481	.2397931	.1146687	.3877530	.4346450	.1296452
#1	.2101008	.2104282	.1813439	.9473124	.3913594	.1862617
#2	.2077908	.2094618	.1817319	.9543993	.3879924	.1859794
#3	.2102801	.2097017	.1816688	.9526347	.3900045	.1864599

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3100790	2.926769	.1820968	1.779266	.4657458	.0746044
Stddev	.0008269	.021114	.0002358	.005119	.0014264	.0004313
%RSD	.2666629	.7214255	.1295155	.2877030	.3062662	.5780793
#1	.3100243	2.933939	.1821060	1.784914	.4651182	.0750760
#2	.3092809	2.903004	.1818565	1.777953	.4647408	.0745071
#3	.3109319	2.943366	.1823279	1.774932	.4673784	.0742300

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.798348	.2790763	.2149553	9.892287	.2558020	.4101502
Stddev	.012077	.0027575	.0007636	.086633	.0010226	.0008762
%RSD	.4315606	.9880870	.3552316	.8757604	.3997640	.2136218
#1	2.798756	.2814296	.2158318	9.966754	.2565777	.4109109
#2	2.786072	.2797571	.2144343	9.797207	.2561850	.4091922
#3	2.810215	.2760421	.2145997	9.912902	.2546431	.4103476

Sample Name: PB167161BS Acquired: 3/25/2025 15:12:45 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6478439	.1868452	.7925412	5.423204	F -.002847	.1877920
Stddev	.0004639	.0003901	.0049098	.011495	.002579	.0011636
%RSD	.0716011	.2088039	.6194971	.2119597	90.59903	.6196203
#1	.6473160	.1868945	.7963579	5.428178	.000122	.1871095
#2	.6480295	.1864327	.7870023	5.431374	-.004538	.1871311
#3	.6481862	.1872083	.7942634	5.410059	-.004124	.1891356

Elem	Sr4077
Units	ppm
Avg	.1852244
Stddev	.0009641
%RSD	.5205099
#1	.1861207
#2	.1842044
#3	.1853481

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3330.221	76805.39	16412.17	2181.220	5278.940
Stddev	4.754	278.87	64.94	8.554	2.191
%RSD	.1427457	.3630884	.3956929	.3921648	.0414974
#1	3329.125	76547.26	16346.15	2171.453	5277.330
#2	3335.427	77101.18	16475.98	2184.824	5281.434
#3	3326.111	76767.72	16414.40	2187.381	5278.055

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1631-01 Acquired: 3/25/2025 15:16:46 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0848822	-.008093	.1780815	-.076825	-.004235	195.2335
Stddev	.0054709	.003414	.0034415	.001053	.001850	1.9215
%RSD	6.445266	42.19031	1.932530	1.370994	43.68918	.9842060
#1	.0831643	-.011682	.1789698	-.077932	-.005215	195.5571
#2	.0804765	-.004884	.1809917	-.075835	-.005388	196.9726
#3	.0910059	-.007713	.1742830	-.076710	-.002101	193.1707

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8083268	.0095465	.0094073	F 2325.028	1.448679	.1038297
Stddev	.0031385	.0001434	.0002393	8.318	.003950	.0004159
%RSD	.3882715	1.501864	2.544127	.3577505	.2726379	.4006021
#1	.8053439	.0094860	.0091833	2332.478	1.452283	.1033847
#2	.8116007	.0097102	.0093793	2326.554	1.449296	.1042087
#3	.8080358	.0094433	.0096595	2316.053	1.444457	.1038956

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4865288	296.0130	9.107952	536.2201	.4334144	.0100289
Stddev	.0011636	.5372	.040047	2.0492	.0009376	.0009960
%RSD	.2391698	.1814806	.4396969	.3821547	.2163243	9.931713
#1	.4870183	296.4168	9.100288	535.6551	.4325978	.0110307
#2	.4873677	296.2188	9.151277	538.4925	.4332071	.0100172
#3	.4852004	295.4033	9.072290	534.5127	.4344383	.0090387

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.902341	.3446225	3.411301	17.35546	.1025768	.0620515
Stddev	.007143	.0014079	.008891	.01913	.0063661	.0005098
%RSD	.1830426	.4085276	.2606368	.1102084	6.206215	.8216585
#1	3.895714	.3443571	3.421567	17.35339	.1081646	.0614660
#2	3.901403	.3461441	3.406234	17.33745	.0956465	.0623972
#3	3.909907	.3433661	3.406102	17.37554	.1039192	.0622915

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1631-01 Acquired: 3/25/2025 15:16:46 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0242600	5.992805	3.446765	F 10.74731	F 111.2314	.1318835
Stddev	.0031133	.015546	.057463	.02327	.1772	.0019416
%RSD	12.83287	.2594053	1.667148	.2165448	.1592972	1.472230
#1	.0242706	5.992788	3.462729	10.73040	111.2593	.1305987
#2	.0211415	6.008359	3.383008	10.73768	111.0420	.1309347
#3	.0273680	5.977267	3.494557	10.77386	111.3930	.1341171

Elem	Sr4077
Units	ppm
Avg	6.550540
Stddev	.082572
%RSD	1.260533
#1	6.609895
#2	6.585482
#3	6.456242

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2872.614	68492.65	17504.69	1884.241	3217.697
Stddev	.692	202.29	74.82	11.239	.152
%RSD	.0241063	.2953445	.4274182	.5964597	.0047362
#1	2872.110	68264.49	17497.47	1871.297	3217.521
#2	2872.328	68563.38	17433.75	1889.906	3217.779
#3	2873.404	68650.08	17582.86	1891.520	3217.791

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1631-04 Acquired: 3/25/2025 15:21:15 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0478297	-.016432	.2016377	-.051193	.0054067	55.12444
Stddev	.0002050	.000886	.0035236	.001326	.0035634	.12935
%RSD	.4286459	5.389512	1.747484	2.590024	65.90707	.2346483
#1	.0478656	-.016866	.2030461	-.050791	.0050730	55.13229
#2	.0476091	-.015413	.1976278	-.052673	.0091253	54.99135
#3	.0480144	-.017016	.2042393	-.050115	.0020219	55.24969

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3183954	.0039532	.0016405	F 4015.074	.5436596	.0345138
Stddev	.0013973	.0001236	.0002048	19.098	.0013293	.0002478
%RSD	.4388416	3.127555	12.48635	.4756460	.2445017	.7179184
#1	.3194979	.0038140	.0014390	3993.254	.5451895	.0346781
#2	.3168240	.0039954	.0016341	4028.745	.5430020	.0346346
#3	.3188643	.0040502	.0018485	4023.223	.5427874	.0342288

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1498686	97.24286	2.765849	976.3538	.1633278	.0008948
Stddev	.0012190	.54041	.005802	2.0459	.0010618	.0001454
%RSD	.8133520	.5557294	.2097552	.2095482	.6500717	16.24983
#1	.1494994	97.84705	2.772448	974.4438	.1624784	.0009024
#2	.1488769	97.07586	2.763549	978.5128	.1629868	.0010363
#3	.1512295	96.80566	2.761550	976.1048	.1645182	.0007457

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.426725	.2167742	1.421717	10.31419	.0551767	.0226176
Stddev	.035092	.0012276	.005412	.04938	.0020871	.0009474
%RSD	1.024066	.5663163	.3806694	.4787375	3.782475	4.188699
#1	3.459645	.2181294	1.427758	10.34662	.0566316	.0215741
#2	3.389804	.2164568	1.420081	10.25737	.0561131	.0234237
#3	3.430725	.2157365	1.417311	10.33859	.0527855	.0228550

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1631-04 Acquired: 3/25/2025 15:21:15 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.001060	1.918848	9.315289	3.798384	F 82.51418	-.412102
Stddev	.001001	.006167	.113059	.028607	.53945	.003137
%RSD	94.50097	.3213773	1.213696	.7531283	.6537615	.7613263
#1	-.002139	1.925257	9.444771	3.789882	82.49831	-.408668
#2	-.000160	1.912956	9.236121	3.774991	81.98284	-.414820
#3	-.000880	1.918332	9.264974	3.830277	83.06139	-.412817

Elem	Sr4077
Units	ppm
Avg	F 10.25869
Stddev	.07751
%RSD	.7555497
#1	10.22296
#2	10.34762
#3	10.20549

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2407.515	58199.18	15067.93	1578.023	2915.372
Stddev	9.571	257.20	50.73	10.880	11.938
%RSD	.3975537	.4419346	.3366518	.6894760	.4094933
#1	2408.756	58053.78	15108.26	1573.603	2917.535
#2	2416.405	58047.62	15010.97	1570.048	2926.081
#3	2397.383	58496.15	15084.54	1590.417	2902.500

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1634-01 Acquired: 3/25/2025 15:25:37 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0212019	-.004707	.3694781	-.025824	-.005138	73.78798	.3008077
Stddev	.0011385	.001359	.0005713	.000563	.002016	.10809	.0009223
%RSD	5.369821	28.86750	.1546309	2.180948	39.23596	.1464819	.3066213
#1	.0210591	-.004397	.3688216	-.025284	-.005844	73.91177	.3018474
#2	.0201415	-.006195	.3697501	-.025782	-.006706	73.71233	.3004883
#3	.0224051	-.003531	.3698627	-.026408	-.002864	73.73983	.3000876

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035136	-.003415	93.04992	.1619801	.0710906	.3938359	160.1299
Stddev	.0000758	.000092	.33971	.0003229	.0003454	.0005441	.4401
%RSD	2.158039	2.702744	.3650870	.1993666	.4858133	.1381415	.2748176
#1	.0035342	-.003325	93.43750	.1616334	.0711320	.3944241	159.6391
#2	.0035770	-.003510	92.90849	.1620344	.0714134	.3933508	160.2616
#3	.0034296	-.003409	92.80377	.1622724	.0707264	.3937328	160.4891

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.051327	57.31767	.1290460	.0016019	4.160072	.2400966	.4124991
Stddev	.006110	.23405	.0004660	.0001708	.010983	.0009185	.0009687
%RSD	.2978576	.4083299	.3610850	10.66123	.2640160	.3825757	.2348344
#1	2.058264	57.58787	.1287879	.0014047	4.147444	.2407939	.4133072
#2	2.048971	57.17806	.1295839	.0017026	4.167406	.2404401	.4114253
#3	2.046745	57.18707	.1287661	.0016984	4.165365	.2390558	.4127648

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.697620	.1340506	.0034557	.0004944	4.009670	3.933993	2.844214
Stddev	.034474	.0039429	.0000530	.0004249	.010963	.034303	.006745
%RSD	.7338686	2.941380	1.533047	85.93852	.2734161	.8719570	.2371474
#1	4.660363	.1303411	.0035033	.0004221	4.021673	3.909382	2.848494
#2	4.704105	.1381915	.0033986	.0001103	4.007154	3.973177	2.847709
#3	4.728391	.1336191	.0034652	.0009508	4.000184	3.919421	2.836439

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1634-01 Acquired: 3/25/2025 15:25:37 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	3.094523	.1185648	.0938235
Stddev	.006118	.0012602	.0010381
%RSD	.1977127	1.062867	1.106479
#1	3.096929	.1190863	.0947148
#2	3.099073	.1171275	.0940721
#3	3.087567	.1194805	.0926837

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3281.206	77558.23	17250.15	2142.112	4627.555
Stddev	5.116	150.50	85.55	7.631	3.146
%RSD	.1559214	.1940464	.4959557	.3562461	.0679772
#1	3283.895	77708.82	17153.33	2150.759	4630.286
#2	3284.417	77558.04	17281.56	2136.318	4624.115
#3	3275.306	77407.83	17315.55	2139.260	4628.262

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1634-03 Acquired: 3/25/2025 15:29:43 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0263094	-.008205	.2599817	-.040447	-.007194	118.0723	.6877137
Stddev	.0015237	.001920	.0021973	.002448	.000624	.2271	.0021103
%RSD	5.791319	23.40246	.8451680	6.053234	8.680130	.1923028	.3068586
#1	.0257869	-.006677	.2621333	-.037621	-.006877	118.1000	.6878411
#2	.0280256	-.010360	.2600705	-.041928	-.007913	118.2842	.6897573
#3	.0251157	-.007578	.2577414	-.041793	-.006792	117.8326	.6855425

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049688	-.005273	122.4234	.2681551	.1458298	.6882716	253.5288
Stddev	.0000496	.000207	.3239	.0007351	.0002252	.0034030	1.0659
%RSD	.9987620	3.920387	.2646139	.2741235	.1544071	.4944190	.4204153
#1	.0049778	-.005078	122.1205	.2678385	.1456041	.6919882	252.3233
#2	.0049152	-.005489	122.7650	.2676314	.1460545	.6853087	254.3465
#3	.0050133	-.005251	122.3846	.2689955	.1458307	.6875179	253.9166

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.325902	95.04335	.2509358	.0040652	9.586515	.4553160	.5140459
Stddev	.009973	.26083	.0015358	.0003887	.016649	.0021282	.0027228
%RSD	.2305347	.2744368	.6120335	9.561851	.1736677	.4674121	.5296774
#1	4.317070	94.77790	.2527028	.0036354	9.574627	.4528649	.5169583
#2	4.336718	95.29931	.2501821	.0041683	9.605542	.4563891	.5136152
#3	4.323919	95.05283	.2499224	.0043920	9.579375	.4566940	.5115641

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.942670	1.072903	.0019864	-.006253	8.302531	3.808811	3.143782
Stddev	.016910	.004394	.0006830	.000540	.023381	.075723	.017329
%RSD	.3421257	.4095093	34.38301	8.643459	.2816168	1.988110	.5512159
#1	4.951623	1.068130	.0014249	-.005779	8.308530	3.833256	3.161670
#2	4.953221	1.076778	.0027467	-.006842	8.322329	3.869293	3.142604
#3	4.923165	1.073801	.0017875	-.006138	8.276735	3.723885	3.127072

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1634-03 Acquired: 3/25/2025 15:29:43 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	3.541772	.2024328	.3483427
Stddev	.017507	.0011878	.0024339
%RSD	.4943038	.5867628	.6986985
#1	3.545645	.2021785	.3507605
#2	3.557018	.2037271	.3483746
#3	3.522652	.2013927	.3458931

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3259.608	76852.24	18100.55	2101.925	4445.570
Stddev	3.350	162.91	12.30	4.449	3.051
%RSD	.1027738	.2119794	.0679525	.2116576	.0686289
#1	3258.774	77039.69	18106.13	2107.056	4448.293
#2	3263.296	76772.24	18109.07	2099.590	4442.273
#3	3256.753	76744.80	18086.45	2099.130	4446.144

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1635-01 Acquired: 3/25/2025 15:33:47 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0269340	.0031908	.1695379	-.024741	-.004159	88.28529
Stddev	.0016309	.0014439	.0014494	.003686	.001597	.07501
%RSD	6.055161	45.25269	.8549399	14.89805	38.40381	.0849611
#1	.0250513	.0016369	.1679797	-.023213	-.003856	88.37155
#2	.0278367	.0034441	.1708460	-.028945	-.005887	88.24893
#3	.0279139	.0044912	.1697879	-.022065	-.002736	88.23540

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4666343	.0062098	-.004670	19.45756	.1227630	.0742261
Stddev	.0013060	.0001797	.000260	.05709	.0005816	.0002853
%RSD	.2798718	2.893016	5.559479	.2934001	.4737271	.3844237
#1	.4664262	.0061321	-.004840	19.49049	.1227007	.0738966
#2	.4654449	.0064152	-.004372	19.39164	.1222150	.0743933
#3	.4680319	.0060820	-.004799	19.49055	.1233731	.0743883

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2955498	163.2264	3.416164	19.96555	.1434987	.0041785
Stddev	.0005793	1.1144	.010478	.08808	.0005390	.0002756
%RSD	.1960227	.6827311	.3067299	.4411487	.3756073	6.594620
#1	.2961213	163.1685	3.418961	20.03207	.1429166	.0044826
#2	.2955652	162.1420	3.404570	19.86567	.1439805	.0039452
#3	.2949629	164.3685	3.424959	19.99892	.1435990	.0041078

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.921936	.1712066	.4000530	9.597717	-.068761	.0003784
Stddev	.031411	.0008501	.0012403	.051846	.004948	.0004805
%RSD	.8009076	.4965436	.3100446	.5401886	7.196505	126.9760
#1	3.896304	.1711561	.4013597	9.613926	-.067432	-.000134
#2	3.912529	.1703829	.3999075	9.539703	-.074239	.000450
#3	3.956976	.1720809	.3988919	9.639522	-.064614	.000819

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1635-01 Acquired: 3/25/2025 15:33:47 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0026729	2.049075	F 10.00114	5.215697	.5846654	.1556194
Stddev	.0004825	.012459	.03343	.008564	.0026345	.0011107
%RSD	18.05019	.6080135	.3342701	.1642045	.4506074	.7137003
#1	.0023211	2.063442	9.97046	5.224723	.5816938	.1564665
#2	.0024748	2.041255	10.03677	5.214685	.5855872	.1543619
#3	.0032229	2.042527	9.99620	5.207684	.5867152	.1560297

Elem	Sr4077
Units	ppm
Avg	-.020878
Stddev	.001011
%RSD	4.840667
#1	-.020607
#2	-.020030
#3	-.021996

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3634.528	84434.90	18775.47	2374.159	4864.146
Stddev	7.066	338.78	30.89	10.082	2.063
%RSD	.1943994	.4012298	.1645227	.4246526	.0424022
#1	3626.577	84302.39	18739.98	2375.922	4861.930
#2	3636.919	84819.90	18790.15	2383.243	4864.499
#3	3640.088	84182.41	18796.29	2363.311	4866.010

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1635-01DUP Acquired: 3/25/2025 15:37:54 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0274578	.0044686	.1689835	-.026120	-.005009	86.95115	.4718487
Stddev	.0051672	.0048378	.0027142	.002861	.001432	.09680	.0009809
%RSD	18.81879	108.2619	1.606190	10.95393	28.58416	.1113321	.2078923
#1	.0232283	.0024415	.1670078	-.027556	-.003449	87.03508	.4711625
#2	.0332172	.0009741	.1678644	-.022826	-.006263	86.97311	.4729723
#3	.0259279	.0099902	.1720783	-.027980	-.005316	86.84525	.4714114

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061487	-.005208	19.24957	.1235104	.0748896	.2957592	165.5099
Stddev	.0000555	.000164	.00661	.0015790	.0001945	.0006279	.2890
%RSD	.9020992	3.145991	.0343471	1.278447	.2597195	.2123005	.1746285
#1	.0062080	-.005252	19.24843	.1224019	.0747142	.2956075	165.2535
#2	.0061398	-.005027	19.25668	.1253183	.0748559	.2964490	165.4531
#3	.0060982	-.005345	19.24360	.1228111	.0750988	.2952210	165.8231

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.417792	19.82776	.1449325	.0041299	3.832010	.1708404	.3756868
Stddev	.001638	.06020	.0004218	.0002458	.019425	.0007842	.0010663
%RSD	.0479155	.3036314	.2910152	5.951048	.5069200	.4590125	.2838361
#1	3.416042	19.88872	.1450088	.0040482	3.838202	.1704091	.3749941
#2	3.419287	19.76834	.1453109	.0039354	3.847585	.1717456	.3769147
#3	3.418046	19.82621	.1444778	.0044061	3.810244	.1703666	.3751515

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.414971	-.052202	.0006370	.0012511	2.011738	7.944304	5.257869
Stddev	.053767	.000875	.0003095	.0008554	.006598	.224101	.021117
%RSD	.5710802	1.675318	48.58317	68.37483	.3279567	2.820904	.4016201
#1	9.404986	-.052213	.0009557	.0007413	2.011527	8.118218	5.252156
#2	9.473030	-.053071	.0003376	.0007733	2.018439	8.023288	5.281255
#3	9.366896	-.051322	.0006178	.0022387	2.005249	7.691405	5.240197

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1635-01DUP Acquired: 3/25/2025 15:37:54 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.5293012	.1554009	-.022703
Stddev	.0025998	.0015632	.000359
%RSD	.4911701	1.005886	1.581857
#1	.5320298	.1538807	-.022486
#2	.5290208	.1553181	-.022505
#3	.5268530	.1570038	-.023118

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3640.993	84773.12	19109.89	2403.465	4848.810
Stddev	6.984	198.47	22.08	4.662	4.872
%RSD	.1918193	.2341211	.1155513	.1939560	.1004703
#1	3642.199	84921.04	19132.34	2403.682	4850.793
#2	3633.485	84850.76	19109.14	2408.015	4843.259
#3	3647.296	84547.57	19088.20	2398.699	4852.376

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1635-01LX5 Acquired: 3/25/2025 15:42:01 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0061497	-.001305	.0358632	-.004642	-.000277	19.63668	.0973297
Stddev	.0018704	.000746	.0003872	.000476	.000630	.03445	.0007371
%RSD	30.41457	57.20513	1.079592	10.24735	227.2667	.1754373	.7573040
#1	.0072283	-.000555	.0360293	-.004286	-.000976	19.59725	.0976879
#2	.0039899	-.001312	.0361397	-.005182	-.000107	19.65185	.0978192
#3	.0072308	-.002047	.0354207	-.004457	.000250	19.66095	.0964820

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015043	-.001790	4.438778	.0277420	.0152174	.0702525	35.64549
Stddev	.0000676	.000076	.010040	.0002616	.0002851	.0004590	.25242
%RSD	4.490577	4.260655	.2261807	.9431038	1.873783	.6533977	.7081344
#1	.0014374	-.001877	4.449927	.0280069	.0152626	.0704695	35.93573
#2	.0015029	-.001756	4.435954	.0277353	.0149123	.0697253	35.47722
#3	.0015725	-.001737	4.430452	.0274838	.0154772	.0705629	35.52353

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7875846	4.560041	.0295714	.0011210	.7865730	.0394943	.0834258
Stddev	.0032719	.006309	.0001732	.0000704	.0233682	.0011066	.0002319
%RSD	.4154332	.1383635	.5855529	6.276824	2.970888	2.801886	.2779129
#1	.7892315	4.567132	.0294578	.0010604	.8131923	.0402569	.0832124
#2	.7838165	4.555046	.0297707	.0011044	.7694380	.0400010	.0836725
#3	.7897058	4.557946	.0294856	.0011982	.7770888	.0382251	.0833926

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.035827	-.025691	.0000078	-.003649	.4782706	2.070505	1.070500
Stddev	.016521	.001531	.0001467	.000468	.0085687	.040475	.003527
%RSD	.8114982	5.958692	1879.151	12.81792	1.791604	1.954844	.3294828
#1	2.017730	-.024081	.0001653	-.003172	.4849351	2.054587	1.070529
#2	2.050102	-.025864	-.000017	-.003666	.4686050	2.116519	1.066959
#3	2.039649	-.027128	-.000125	-.004107	.4812717	2.040409	1.074013

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1635-01LX5 Acquired: 3/25/2025 15:42:01 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.1063271	.0290393	-.003203
Stddev	.0045544	.0004935	.000034
%RSD	4.283413	1.699548	1.072443
#1	.1085430	.0284815	-.003169
#2	.1010888	.0294195	-.003203
#3	.1093495	.0292167	-.003238

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3424.498	81789.15	17278.83	2285.180	5201.432
Stddev	7.815	290.74	52.60	18.604	11.767
%RSD	.2282100	.3554738	.3044165	.8141198	.2262341
#1	3428.792	81513.43	17309.37	2263.723	5206.781
#2	3429.225	82092.88	17309.01	2295.007	5209.575
#3	3415.477	81761.15	17218.09	2296.811	5187.940

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV06 Acquired: 3/25/2025 15:46:17 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	5.186996	4.933116	4.925409	5.271428	5.305378	9.894137	9.907730
Stddev	.014975	.027848	.010654	.014758	.014806	.009773	.029447
%RSD	.2886998	.5645088	.2163091	.2799592	.2790837	.0987729	.2972107
#1	5.170185	4.957232	4.914026	5.269040	5.289918	9.901800	9.900946
#2	5.191898	4.902637	4.927060	5.258009	5.306787	9.883131	9.882268
#3	5.198906	4.939479	4.935142	5.287234	5.319430	9.897479	9.939977

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2267074	2.441108	23.51279	1.000289	2.460362	1.299050	5.102792
Stddev	.0009890	.006032	.06228	.001331	.005125	.002393	.007486
%RSD	.4362305	.2471082	.2648673	.1330775	.2082849	.1842080	.1467135
#1	.2277065	2.434865	23.57579	1.000293	2.454797	1.296339	5.094171
#2	.2266868	2.441557	23.51131	.998955	2.461401	1.299938	5.106555
#3	.2257289	2.446904	23.45126	1.001617	2.464887	1.300871	5.107650

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.339398	23.25488	2.453621	1.264575	26.36958	2.439459	2.573678
Stddev	.010067	.06974	.006456	.001046	.09800	.004074	.008199
%RSD	.4303273	.2999041	.2631153	.0827432	.3716591	.1670158	.3185862
#1	2.348968	23.32565	2.447298	1.265672	26.29659	2.442717	2.576175
#2	2.340327	23.25280	2.453363	1.264465	26.48097	2.440768	2.564520
#3	2.328898	23.18621	2.460202	1.263588	26.33117	2.434891	2.580338

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.80394	4.564632	5.206610	4.920448	4.885846	5.431058	4.928807
Stddev	.09436	.022155	.007566	.008229	.014389	.019791	.016678
%RSD	.3520394	.4853618	.1453065	.1672401	.2945026	.3644020	.3383851
#1	26.73868	4.590156	5.198553	4.911896	4.897960	5.408249	4.912751
#2	26.91213	4.550371	5.207715	4.921136	4.889636	5.443676	4.927625
#3	26.76102	4.553369	5.213562	4.928311	4.869941	5.441251	4.946045

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV06 Acquired: 3/25/2025 15:46:17 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	4.925898	4.911706	4.892839
Stddev	.008998	.005820	.083384
%RSD	.1826641	.1184826	1.704212
#1	4.918179	4.916915	4.989026
#2	4.923735	4.912780	4.841008
#3	4.935781	4.905425	4.848482

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3213.813	74514.93	16110.91	2098.806	4819.114
Stddev	3.797	135.75	97.48	2.717	6.565
%RSD	.1181332	.1821717	.6050497	.1294579	.1362275
#1	3218.080	74380.75	15999.93	2096.571	4826.449
#2	3210.807	74511.86	16150.13	2101.831	4817.104
#3	3212.552	74652.18	16182.68	2098.017	4813.789

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB06 Acquired: 3/25/2025 15:50:29 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.001213	-.002002	-.001037	.0032622	-.001361	-.004860	-.011830
Stddev	.000528	.000939	.000819	.0021608	.000883	.001761	.001168
%RSD	43.55673	46.92660	79.00050	66.23558	64.89983	36.24364	9.875392
#1	-.001784	-.001841	-.000797	.0012630	-.001808	-.004590	-.010557
#2	-.000742	-.001153	-.000365	.0055546	-.000343	-.006741	-.012079
#3	-.001114	-.003011	-.001950	.0029692	-.001930	-.003249	-.012854

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000184	-.000167	.0165334	-.000079	-.000031	-.000459	-.006551
Stddev	.0000277	.000041	.0063633	.000457	.000051	.000141	.005439
%RSD	150.1640	24.65423	38.48767	580.2081	163.0761	30.62542	83.02810
#1	.0000502	-.000133	.0142623	.000250	-.000035	-.000497	-.000389
#2	.0000058	-.000155	.0116172	-.000600	.000022	-.000303	-.010685
#3	-.000001	-.000213	.0237207	.000114	-.000080	-.000576	-.008579

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000864	-.005471	.0001594	.0009934	.0020202	-.000175	-.000434
Stddev	.000218	.005720	.0000845	.0001761	.0088229	.000928	.000480
%RSD	25.19982	104.5508	53.01772	17.72493	436.7257	531.7177	110.7935
#1	-.000613	-.000484	.0002107	.0011395	.0068773	.000808	-.000885
#2	-.000985	-.004215	.0000618	.0007979	.0073473	-.001038	-.000488
#3	-.000995	-.011714	.0002056	.0010429	-.008164	-.000294	.000072

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0937942	-.002504	.0001693	-.003828	.0007728	.0130613	-.001359
Stddev	.0200518	.000542	.0000952	.000768	.0001903	.0033163	.001724
%RSD	21.37851	21.63786	56.25138	20.05002	24.62978	25.39024	126.9063
#1	.0794984	-.002047	.0001606	-.003435	.0006466	.0168689	.000400
#2	.0851687	-.002363	.0002686	-.003337	.0009917	.0108039	-.001429
#3	.1167154	-.003103	.0000787	-.004713	.0006800	.0115113	-.003046

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB06 Acquired: 3/25/2025 15:50:29 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.001330	-.006610	.0000776
Stddev	.001012	.000905	.0000228
%RSD	76.11922	13.68629	29.32303
#1	-.001391	-.007573	.0000979
#2	-.000288	-.006480	.0000530
#3	-.002310	-.005778	.0000818

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3319.833	78999.31	16640.46	2205.639	5363.819
Stddev	9.372	64.11	33.19	9.051	9.625
%RSD	.2823094	.0811468	.1994302	.4103774	.1794400
#1	3324.697	79065.52	16602.24	2195.310	5362.083
#2	3325.773	78937.54	16661.96	2209.426	5374.193
#3	3309.029	78994.88	16657.18	2212.183	5355.180

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1635-01MS Acquired: 3/25/2025 15:54:48 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7225475	1.819354	1.121088	1.676837	.4033901	91.21065
Stddev	.0038432	.008185	.003348	.006703	.0018091	.06789
%RSD	.5318959	.4498835	.2986733	.3997630	.4484842	.0744324
#1	.7182349	1.820118	1.120016	1.680549	.4037208	91.25146
#2	.7237975	1.810814	1.124841	1.669099	.4050111	91.24820
#3	.7256101	1.827130	1.118407	1.680863	.4014384	91.13228

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6332864	.1494784	.1808162	22.87627	.4589946	.2704517
Stddev	.0013875	.0008986	.0000758	.04316	.0009373	.0005261
%RSD	.2190917	.6011573	.0419366	.1886702	.2042148	.1945062
#1	.6343144	.1484794	.1807397	22.82692	.4596349	.2701421
#2	.6338367	.1502207	.1808176	22.90695	.4594302	.2710591
#3	.6317082	.1497352	.1808914	22.89495	.4579188	.2701541

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5676571	160.9337	3.278796	22.48035	.6242247	.0691148
Stddev	.0014544	.6699	.008191	.12225	.0013801	.0003029
%RSD	.2562192	.4162347	.2498077	.5437868	.2210985	.4383157
#1	.5661913	161.5747	3.272788	22.35039	.6234942	.0693700
#2	.5676800	160.9882	3.288126	22.59305	.6258166	.0691943
#3	.5690999	160.2383	3.275475	22.49760	.6233634	.0687800

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.387401	.4279950	.5782860	18.02353	.1285365	.3468408
Stddev	.049879	.0003025	.0021654	.14873	.0037564	.0018422
%RSD	.7808974	.0706783	.3744456	.8251996	2.922472	.5311411
#1	6.440885	.4279841	.5768133	18.17608	.1328341	.3447847
#2	6.342153	.4283028	.5807723	18.01558	.1268961	.3473964
#3	6.379164	.4276981	.5772725	17.87894	.1258792	.3483412

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1635-01MS Acquired: 3/25/2025 15:54:48 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6453721	2.081527	5.133551	F 11.32564	1.076354	.3252519
Stddev	.0009405	.010213	.069218	.02756	.003815	.0012516
%RSD	.1457336	.4906643	1.348353	.2433341	.3544494	.3848049
#1	.6448683	2.082726	5.191286	11.33036	1.073295	.3265324
#2	.6464572	2.091088	5.152548	11.35054	1.075139	.3251919
#3	.6447907	2.070768	5.056817	11.29603	1.080629	.3240314

Elem	Sr4077
Units	ppm
Avg	.1549969
Stddev	.0001498
%RSD	.0966674
#1	.1548693
#2	.1549595
#3	.1551619

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3555.256	84157.54	19164.31	2320.230	4686.685
Stddev	11.046	87.73	110.30	3.546	7.780
%RSD	.3107045	.1042497	.5755615	.1528372	.1660115
#1	3567.360	84062.65	19291.64	2322.464	4695.645
#2	3552.689	84174.27	19103.12	2322.085	4681.635
#3	3545.719	84235.71	19098.16	2316.141	4682.775

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1635-01MSD Acquired: 3/25/2025 15:58:49 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7005609	1.770156	1.090057	1.610627	.3823552	90.75848
Stddev	.0027217	.005591	.001176	.003832	.0028598	.28502
%RSD	.3885057	.3158201	.1078645	.2379186	.7479443	.3140409
#1	.6984520	1.765292	1.090304	1.608700	.3822312	91.07197
#2	.6995974	1.768914	1.091089	1.615040	.3795594	90.51495
#3	.7036333	1.776264	1.088777	1.608141	.3852750	90.68853

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6333588	.1487204	.1776867	23.82892	.4517731	.2676858
Stddev	.0022069	.0005652	.0002041	.04597	.0003731	.0004449
%RSD	.3484452	.3800363	.1148879	.1929247	.0825797	.1661853
#1	.6354683	.1491877	.1774511	23.88139	.4514021	.2671743
#2	.6335423	.1488812	.1778115	23.79572	.4517691	.2679819
#3	.6310659	.1480922	.1777973	23.80964	.4521482	.2679014

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5599798	158.0159	3.301349	22.33382	.6182696	.0673421
Stddev	.0018568	.1645	.003595	.02444	.0006183	.0002146
%RSD	.3315831	.1040911	.1088889	.1094210	.1000053	.3186769
#1	.5578641	157.9718	3.305427	22.36203	.6179765	.0670960
#2	.5613387	157.8779	3.299984	22.31993	.6189799	.0674401
#3	.5607366	158.1979	3.298637	22.31949	.6178523	.0674902

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.502260	.4264521	.5998767	17.52787	.1224439	.3326805
Stddev	.011929	.0022572	.0016165	.01183	.0010930	.0007794
%RSD	.1834578	.5292997	.2694644	.0675028	.8926413	.2342642
#1	6.506472	.4285385	.6013602	17.54033	.1221547	.3319056
#2	6.488796	.4240561	.6001159	17.52649	.1215247	.3326716
#3	6.511512	.4267618	.5981540	17.51679	.1236524	.3334643

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1635-01MSD Acquired: 3/25/2025 15:58:49 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6301940	2.036395	3.022088	F 11.04359	1.176914	.3270056
Stddev	.0024588	.006628	.019678	.02954	.002866	.0006484
%RSD	.3901655	.3254882	.6511301	.2675230	.2435464	.1982975
#1	.6283108	2.043873	3.004681	11.00982	1.175188	.3269886
#2	.6292955	2.034065	3.043439	11.06467	1.175332	.3263659
#3	.6329757	2.031245	3.018144	11.05628	1.180223	.3276624

Elem	Sr4077
Units	ppm
Avg	.1597303
Stddev	.0010053
%RSD	.6293435
#1	.1608904
#2	.1591157
#3	.1591849

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3634.553	85885.81	19130.22	2372.443	4782.720
Stddev	5.721	86.10	46.60	3.468	9.406
%RSD	.1573946	.1002464	.2435947	.1461894	.1966644
#1	3641.036	85795.29	19080.76	2368.473	4791.664
#2	3630.215	85895.46	19136.60	2373.978	4772.912
#3	3632.408	85966.67	19173.30	2374.879	4783.584

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1635-01A Acquired: 3/25/2025 16:07:07 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6934162	1.754477	1.087988	1.595729	.3776340	89.83309
Stddev	.0041203	.005602	.004068	.005102	.0030187	.07647
%RSD	.5942086	.3193240	.3739143	.3196978	.7993609	.0851264
#1	.6955709	1.754955	1.085835	1.590253	.3753154	89.92140
#2	.6886653	1.759826	1.085449	1.596588	.3765393	89.78907
#3	.6960125	1.748651	1.092680	1.600347	.3810472	89.78881

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6374956	.1503075	.1768034	23.86289	.4505259	.2673328
Stddev	.0007575	.0007765	.0000329	.03446	.0018874	.0007050
%RSD	.1188251	.5166407	.0186300	.1444159	.4189414	.2637243
#1	.6382038	.1511223	.1768077	23.89482	.4527019	.2667479
#2	.6375860	.1502243	.1768340	23.86749	.4495436	.2671347
#3	.6366969	.1495759	.1767685	23.82636	.4493321	.2681156

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5567459	160.2613	3.315580	22.31111	.6184352	.0680036
Stddev	.0010362	.3100	.013224	.08723	.0009318	.0005638
%RSD	.1861228	.1934607	.3988415	.3909502	.1506667	.8290091
#1	.5564406	159.9098	3.326502	22.37822	.6187537	.0674301
#2	.5558967	160.3787	3.319361	22.34260	.6173860	.0685570
#3	.5579005	160.4956	3.300878	22.21251	.6191660	.0680238

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.598981	.4247620	.6012207	17.65296	.1326274	.3299736
Stddev	.016640	.0005139	.0001009	.10846	.0025604	.0011703
%RSD	.2521654	.1209921	.0167764	.6143878	1.930535	.3546645
#1	6.582007	.4243383	.6012843	17.53610	.1296919	.3294420
#2	6.599672	.4253337	.6012735	17.67241	.1344001	.3291635
#3	6.615266	.4246140	.6011044	17.75038	.1337902	.3313154

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1635-01A Acquired: 3/25/2025 16:07:07 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6287552	2.030829	2.942151	F 11.10957	1.170798	.3274189
Stddev	.0019295	.004618	.016889	.00457	.004594	.0015935
%RSD	.3068792	.2274085	.5740241	.0411497	.3923493	.4866857
#1	.6267444	2.035356	2.947999	11.10905	1.175724	.3256864
#2	.6289297	2.026125	2.955338	11.11437	1.166632	.3288219
#3	.6305916	2.031004	2.923116	11.10527	1.170038	.3277484

Elem	Sr4077
Units	ppm
Avg	.1573321
Stddev	.0007014
%RSD	.4457851
#1	.1581188
#2	.1571054
#3	.1567722

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3667.612	85482.69	19190.07	2409.891	4809.939
Stddev	7.601	84.62	123.24	3.593	6.103
%RSD	.2072426	.0989884	.6422045	.1490856	.1268917
#1	3671.011	85402.36	19058.79	2407.676	4811.225
#2	3672.920	85571.03	19208.14	2414.037	4815.296
#3	3658.905	85474.67	19303.27	2407.961	4803.295

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167296BL Acquired: 3/25/2025 16:11:08 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.002148	-.000950	-.000309	.0018942	-.000093	-.005594	-.012116
Stddev	.001787	.000963	.000689	.0017829	.000694	.003733	.000697
%RSD	83.18082	101.4192	223.1982	94.12092	746.4241	66.72674	5.753895
#1	-.000605	.000140	-.000496	.0019415	.000605	-.007217	-.011381
#2	-.001734	-.001686	.000455	.0036530	-.000782	-.008241	-.012200
#3	-.004106	-.001304	-.000885	.0000882	-.000102	-.001325	-.012768

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000015	-.000140	.0152691	-.000019	-.000187	-.000391	-.004186
Stddev	.000022	.000042	.0044814	.000272	.000107	.000141	.004105
%RSD	147.9812	30.08868	29.34947	1439.179	57.25997	36.07410	98.06036
#1	-.000033	-.000120	.0150111	.000148	-.000065	-.000503	-.002626
#2	.000010	-.000113	.0109223	-.000332	-.000232	-.000439	-.001090
#3	-.000021	-.000189	.0198739	.000128	-.000266	-.000233	-.008841

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000951	.0018404	.0000013	.0008109	-.018545	-.000194	-.000403
Stddev	.000090	.0040676	.0000451	.0003297	.007922	.000131	.000103
%RSD	9.450135	221.0139	3560.719	40.65307	42.71629	67.78308	25.46794
#1	-.001010	-.002534	-.000006	.0008666	-.026683	-.000174	-.000521
#2	-.000994	.005509	-.000040	.0004569	-.010859	-.000334	-.000339
#3	-.000847	.002546	.000050	.0011091	-.018092	-.000074	-.000348

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0706988	-.005873	-.000084	-.004214	.0008201	.0021684	.0012037
Stddev	.0490933	.000315	.000147	.000618	.0004660	.0009118	.0023964
%RSD	69.44012	5.366687	175.8966	14.65845	56.82534	42.05187	199.0805
#1	.0562736	-.005510	-.000169	-.004892	.0013484	.0032209	-.001408
#2	.0304341	-.006037	-.000167	-.004067	.0006445	.0016657	.003302
#3	.1253885	-.006073	.000086	-.003683	.0004673	.0016185	.001717

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167296BL Acquired: 3/25/2025 16:11:08 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	-.000822	-.007402	.0000462
Stddev	.002612	.000315	.0000496
%RSD	317.7401	4.261566	107.3695
#1	-.000844	-.007407	.0000955
#2	-.003422	-.007715	.0000468
#3	.001801	-.007084	-.000004

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3393.432	80042.16	16227.33	2254.251	5480.579
Stddev	3.944	181.42	51.06	7.414	2.152
%RSD	.1162137	.2266585	.3146761	.3289047	.0392711
#1	3393.756	80240.37	16189.24	2262.189	5478.956
#2	3389.336	79884.33	16285.35	2253.062	5479.760
#3	3397.203	80001.79	16207.38	2247.504	5483.020

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167296BS Acquired: 3/25/2025 16:15:28 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.7687319	1.865887	.8987872	1.975692	.8118556	1.841064
Stddev	.0031839	.015075	.0044615	.008062	.0017641	.001384
%RSD	.4141764	.8079486	.4963928	.4080566	.2172881	.0751573
#1	.7711093	1.882975	.8958492	1.977800	.8099954	1.842660
#2	.7651145	1.860218	.8965913	1.966786	.8120669	1.840339
#3	.7699717	1.854468	.9039211	1.982491	.8135045	1.840194

Elem	Ba4934	Be2348	Cd2265	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1637775	.1738473	.1789361	.9154952	.3800320	.1834066
Stddev	.0006795	.0006152	.0004933	.0031721	.0004331	.0005244
%RSD	.4148926	.3538722	.2757020	.3464852	.1139576	.2859416
#1	.1639153	.1736069	.1787975	.9191343	.3799680	.1830644
#2	.1630397	.1733886	.1785269	.9133154	.3804936	.1831450
#3	.1643776	.1745464	.1794839	.9140360	.3796346	.1840104

Elem	Cu2247	Fe2404	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3040616	2.744345	.1736566	1.720660	.4610327	.0720942
Stddev	.0010818	.007124	.0013617	.012294	.0008311	.0001522
%RSD	.3557910	.2595719	.7841647	.7144938	.1802671	.2110441
#1	.3039603	2.739558	.1751921	1.734409	.4612871	.0719895
#2	.3030340	2.752531	.1725954	1.716847	.4601042	.0720244
#3	.3051906	2.740946	.1731824	1.710725	.4617069	.0722687

Elem	Na5895	V_2924	Zn2138	K_7664	B_2496	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.590204	.2685013	.1952495	9.263533	.2524173	.3980016
Stddev	.002913	.0016156	.0006944	.051393	.0011817	.0011565
%RSD	.1124482	.6016985	.3556437	.5547861	.4681583	.2905695
#1	2.593421	.2703150	.1958613	9.280836	.2521582	.3977169
#2	2.589446	.2679725	.1944948	9.304041	.2513866	.3970142
#3	2.587746	.2672164	.1953925	9.205722	.2537070	.3992739

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: PB167296BS Acquired: 3/25/2025 16:15:28 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.6391636	.1797392	.7493178	5.339948	F -.008007	.1810248
Stddev	.0017099	.0005134	.0077115	.011064	.001478	.0008589
%RSD	.2675235	.2856241	1.029131	.2071898	18.46211	.4744849
#1	.6390554	.1798243	.7456427	5.345755	-.006330	.1819028
#2	.6375103	.1802048	.7581793	5.327190	-.008571	.1809852
#3	.6409250	.1791887	.7441313	5.346900	-.009121	.1801863

Elem	Sr4077
Units	ppm
Avg	.1763388
Stddev	.0008099
%RSD	.4592721
#1	.1771605
#2	.1763146
#3	.1755413

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3307.314	77622.09	16084.29	2196.920	5203.235
Stddev	6.290	159.76	70.83	6.097	14.105
%RSD	.1901770	.2058160	.4403660	.2775451	.2710833
#1	3309.474	77805.28	16088.30	2200.832	5208.952
#2	3312.239	77549.26	16153.03	2200.032	5213.585
#3	3300.229	77511.72	16011.54	2189.894	5187.169

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1636-01 Acquired: 3/25/2025 16:19:30 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.1293822	.0251141	.2046252	-.053166	-.007727	150.1131	.4013218
Stddev	.0036418	.0032552	.0021287	.002107	.002878	.2649	.0005783
%RSD	2.814792	12.96162	1.040275	3.962303	37.25249	.1764726	.1441008
#1	.1254948	.0286944	.2046610	-.055557	-.005790	150.3053	.4019871
#2	.1299369	.0223326	.2024788	-.051585	-.006355	150.2231	.4010387
#3	.1327149	.0243155	.2067357	-.052355	-.011034	149.8109	.4009396

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090532	-.010979	12.39499	.1985076	.1661302	.2684827	344.1683
Stddev	.0000588	.000432	.01583	.0007078	.0003156	.0007538	1.6757
%RSD	.6494376	3.935495	.1277402	.3565580	.1899938	.2807760	.4868854
#1	.0090150	-.011388	12.41242	.1979999	.1658717	.2687874	344.7844
#2	.0091209	-.010527	12.39107	.1993161	.1660369	.2676243	342.2717
#3	.0090236	-.011020	12.38149	.1982068	.1664819	.2690366	345.4486

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.862839	32.36578	.2299026	.0001254	5.802922	.2679211	.8235008
Stddev	.010930	.02811	.0008542	.0004630	.030429	.0006114	.0019347
%RSD	.2247679	.0868647	.3715634	369.2943	.5243714	.2282147	.2349323
#1	4.874163	32.33804	.2289405	.0003783	5.807344	.2676327	.8212672
#2	4.852351	32.39425	.2301952	-.000409	5.770525	.2686234	.8245829
#3	4.862002	32.36505	.2305720	.000407	5.830898	.2675073	.8246523

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.118263	-.142693	.0077204	.0034681	1.129692	7.471687	5.688859
Stddev	.030348	.005531	.0004635	.0003228	.011576	.050994	.018295
%RSD	.3738202	3.875867	6.003364	9.306768	1.024675	.6824913	.3215983
#1	8.138227	-.142152	.0072314	.0038407	1.139495	7.528649	5.676458
#2	8.083340	-.148475	.0077766	.0032747	1.116922	7.456122	5.680249
#3	8.133223	-.137453	.0081533	.0032889	1.132660	7.430289	5.709871

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1636-01 Acquired: 3/25/2025 16:19:30 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.3963213	.3358279	-.204889
Stddev	.0049511	.0010261	.001538
%RSD	1.249255	.3055553	.7507801
#1	.3995962	.3362452	-.205154
#2	.3906256	.3365797	-.203236
#3	.3987421	.3346589	-.206278

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3376.395	79003.00	18309.32	2181.084	4694.776
Stddev	5.372	140.33	36.55	7.245	15.087
%RSD	.1591001	.1776320	.1996477	.3321606	.3213572
#1	3375.226	79021.31	18312.65	2186.409	4702.258
#2	3382.254	79133.28	18271.22	2184.010	4704.659
#3	3371.703	78854.41	18344.10	2172.834	4677.410

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1636-05 Acquired: 3/25/2025 16:23:36 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0565903	.0077262	.1778480	-.024572	-.003471	80.05195	.7971439
Stddev	.0015772	.0029068	.0010050	.003403	.001775	.09719	.0021213
%RSD	2.786964	37.62317	.5650648	13.84979	51.13523	.1214092	.2661176
#1	.0571800	.0110359	.1768849	-.028427	-.005515	79.95492	.7958552
#2	.0577876	.0065546	.1777691	-.021984	-.002576	80.14930	.7995923
#3	.0548032	.0055879	.1788901	-.023305	-.002322	80.05162	.7959843

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049902	-.005992	8.126009	.1071261	.0601745	.1221230	161.8325
Stddev	.0001128	.000251	.049141	.0013646	.0001941	.0011558	1.1588
%RSD	2.260038	4.193373	.6047320	1.273801	.3225845	.9464072	.7160455
#1	.0048631	-.006224	8.070237	.1074531	.0599875	.1209374	162.6501
#2	.0050782	-.006028	8.144845	.1082974	.0601611	.1221850	162.3411
#3	.0050294	-.005725	8.162946	.1056277	.0603750	.1232465	160.5064

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.298682	18.25357	.1149899	-.000074	4.012017	.1397793	.7108850
Stddev	.011721	.12184	.0004097	.000596	.038015	.0015857	.0047908
%RSD	.5099028	.6674727	.3562858	809.9178	.9475321	1.134398	.6739223
#1	2.285250	18.14910	.1145267	.000556	4.045187	.1390440	.7133099
#2	2.306840	18.22421	.1151382	-.000149	4.020330	.1415991	.7139786
#3	2.303955	18.38741	.1153048	-.000628	3.970533	.1386948	.7053666

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.223734	-.078265	.0011283	.0026353	.6825074	9.716094	4.001237
Stddev	.065432	.006606	.0001451	.0008410	.0172342	.092006	.006411
%RSD	1.549152	8.440425	12.86299	31.91556	2.525135	.9469462	.1602367
#1	4.287284	-.071525	.0009978	.0022771	.6940603	9.814028	3.999138
#2	4.227348	-.078542	.0011024	.0035961	.6626983	9.702791	4.008434
#3	4.156570	-.084728	.0012846	.0020325	.6907636	9.631464	3.996138

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1636-05 Acquired: 3/25/2025 16:23:36 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.3635894	.1607798	-.078582
Stddev	.0010100	.0011526	.001303
%RSD	.2777824	.7168860	1.657722
#1	.3624589	.1595298	-.079522
#2	.3639063	.1610092	-.079129
#3	.3644029	.1618005	-.077095

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3367.673	78797.94	17500.09	2206.510	4850.175
Stddev	5.606	395.25	132.92	17.661	11.667
%RSD	.1664542	.5016000	.7595621	.8003834	.2405421
#1	3369.539	78548.71	17645.06	2201.790	4860.719
#2	3372.108	78591.45	17471.25	2191.690	4852.165
#3	3361.372	79253.67	17383.95	2226.052	4837.641

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1636-13 Acquired: 3/25/2025 16:27:43 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0381162	.0093951	.1036526	-.032132	-.005844	106.6454	.3124291
Stddev	.0005751	.0015840	.0012655	.003429	.001404	.2794	.0008517
%RSD	1.508723	16.85969	1.220923	10.67141	24.02789	.2620340	.2725947
#1	.0374573	.0108636	.1037996	-.032868	-.005786	106.9087	.3129531
#2	.0385170	.0077166	.1048381	-.035133	-.007276	106.6752	.3128877
#3	.0383742	.0096052	.1023199	-.028395	-.004470	106.3522	.3114464

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058161	-.009181	10.42203	.3322079	.0551485	.1468907	206.2200
Stddev	.0000618	.000105	.00751	.0013976	.0002268	.0005079	.3861
%RSD	1.062915	1.140108	.0720469	.4206885	.4112125	.3458019	.1872252
#1	.0057730	-.009185	10.42977	.3335741	.0549173	.1463995	206.0649
#2	.0058869	-.009074	10.42156	.3307810	.0551578	.1468588	205.9356
#3	.0057883	-.009283	10.41477	.3322686	.0553705	.1474139	206.6596

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7380835	30.40120	.1855789	.0001479	.7242054	.2801586	.6439200
Stddev	.0015229	.06167	.0000738	.0003718	.0028206	.0015236	.0028342
%RSD	.2063293	.2028540	.0397533	251.3459	.3894765	.5438191	.4401464
#1	.7394357	30.47220	.1855086	-.000118	.7265361	.2817015	.6467216
#2	.7383810	30.36091	.1856557	-.000011	.7250103	.2801191	.6439839
#3	.7364338	30.37050	.1855724	.000573	.7210698	.2786551	.6410544

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.51140	-.035922	.0017793	.0003928	1.241643	5.931550	2.824721
Stddev	.06502	.003021	.0000627	.0004033	.007492	.088189	.006946
%RSD	.5648322	8.411031	3.525518	102.6748	.6033718	1.486779	.2458856
#1	11.48706	-.038736	.0017592	.0008558	1.233976	5.977508	2.816878
#2	11.58507	-.036302	.0017291	.0001183	1.242006	5.987268	2.827193
#3	11.46205	-.032729	.0018496	.0002043	1.248946	5.829874	2.830093

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1636-13 Acquired: 3/25/2025 16:27:43 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.2561717	.2621762	-.128525
Stddev	.0052834	.0013394	.000438
%RSD	2.062439	.5108612	.3407365
#1	.2620038	.2637046	-.128351
#2	.2548063	.2616164	-.128201
#3	.2517051	.2612076	-.129023

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3353.855	78444.70	17842.94	2226.027	4820.656
Stddev	4.911	121.01	79.04	8.539	8.912
%RSD	.1464418	.1542568	.4429898	.3836015	.1848668
#1	3353.653	78380.29	17752.14	2216.192	4824.121
#2	3358.864	78584.29	17896.35	2231.548	4827.315
#3	3349.047	78369.52	17880.33	2230.342	4810.532

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1636-17 Acquired: 3/25/2025 16:31:50 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.1021657	.0156154	.2558045	-.034417	-.008777	99.30872	.4628320
Stddev	.0024196	.0033088	.0018472	.003448	.003037	.12839	.0011753
%RSD	2.368295	21.18932	.7221112	10.01694	34.60216	.1292828	.2539336
#1	.1025742	.0190327	.2574076	-.031112	-.007146	99.45693	.4640867
#2	.0995679	.0153865	.2537845	-.037991	-.012281	99.23743	.4617568
#3	.1043551	.0124270	.2562215	-.034149	-.006904	99.23179	.4626525

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080011	-.008648	13.38786	.2933157	.0782045	.2598710	249.0155
Stddev	.0000930	.000046	.06418	.0001521	.0000672	.0009884	.9722
%RSD	1.162193	.5374055	.4794032	.0518564	.0858711	.3803415	.3904257
#1	.0079880	-.008615	13.46111	.2934909	.0782314	.2597489	250.1372
#2	.0081000	-.008702	13.34146	.2932399	.0781281	.2609148	248.4950
#3	.0079154	-.008628	13.36102	.2932165	.0782541	.2589494	248.4144

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.050985	17.19585	.1245996	.0002153	4.360059	.2954204	.6300489
Stddev	.010714	.10021	.0009246	.0003783	.032524	.0018353	.0012871
%RSD	.5223681	.5827330	.7420843	175.7217	.7459443	.6212346	.2042839
#1	2.062146	17.28884	.1248682	.0006197	4.397394	.2974612	.6300301
#2	2.040782	17.08972	.1235705	.0001562	4.344912	.2948944	.6287712
#3	2.050028	17.20899	.1253603	-.000130	4.337872	.2939055	.6313452

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.985054	-.075276	.0054193	.0030257	.9462481	5.869790	6.839897
Stddev	.036940	.002608	.0003267	.0010556	.0036829	.049910	.024088
%RSD	.4111217	3.464293	6.028958	34.88694	.3892065	.8502911	.3521664
#1	9.026547	-.074901	.0056495	.0039473	.9420378	5.902182	6.866494
#2	8.955746	-.072876	.0055629	.0032558	.9478350	5.812313	6.833647
#3	8.972869	-.078051	.0050453	.0018741	.9488715	5.894874	6.819551

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1636-17 Acquired: 3/25/2025 16:31:50 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.5058562	.1918774	-.075917
Stddev	.0022823	.0003527	.000375
%RSD	.4511670	.1837998	.4934726
#1	.5049648	.1920760	-.076225
#2	.5041542	.1920860	-.076026
#3	.5084496	.1914702	-.075500

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3482.810	82009.26	18467.82	2326.713	4788.676
Stddev	5.153	109.33	58.29	8.494	17.880
%RSD	.1479413	.1333165	.3156495	.3650803	.3733865
#1	3476.920	81891.29	18407.74	2334.175	4769.428
#2	3485.026	82029.34	18524.15	2328.495	4804.769
#3	3486.483	82107.17	18471.57	2317.469	4791.832

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1636-09 Acquired: 3/25/2025 16:35:56 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.0980182	.0169117	.1485316	-.038783	-.006215	116.3171	.2661219
Stddev	.0057494	.0036103	.0033109	.003311	.001629	.2096	.0003568
%RSD	5.865606	21.34768	2.229103	8.536633	26.21491	.1802095	.1340630
#1	.1003190	.0127948	.1478223	-.042576	-.006101	116.1324	.2663705
#2	.1022609	.0184024	.1456328	-.036473	-.004646	116.2739	.2662820
#3	.0914748	.0195378	.1521396	-.037300	-.007899	116.5449	.2657131

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068097	-.010046	12.41599	.1416283	.0964234	.1935685	248.6902
Stddev	.0001751	.000119	.04505	.0003625	.0003351	.0008203	.8458
%RSD	2.571695	1.187335	.3628423	.2559295	.3475793	.4237744	.3401095
#1	.0069782	-.009914	12.44464	.1412309	.0960886	.1945151	247.8520
#2	.0068225	-.010145	12.36406	.1417132	.0967589	.1930660	248.6751
#3	.0066286	-.010080	12.43926	.1419407	.0964227	.1931245	249.5434

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.216832	28.67407	.1827934	-.001170	9.353836	.1789348	.6038059
Stddev	.006052	.18456	.0005908	.000268	.034505	.0007486	.0033051
%RSD	.2730216	.6436382	.3232042	22.89065	.3688841	.4183630	.5473790
#1	2.221778	28.79944	.1824369	-.001474	9.319766	.1796031	.6001861
#2	2.210083	28.46215	.1834754	-.001068	9.388760	.1781258	.6045687
#3	2.218634	28.76064	.1824681	-.000969	9.352983	.1790755	.6066630

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.897391	-.143918	.0016929	.0014192	.7123902	5.004715	2.974920
Stddev	.037802	.002607	.0003781	.0003457	.0025674	.115468	.005366
%RSD	.7718889	1.811166	22.33283	24.35980	.3603953	2.307188	.1803884
#1	4.860068	-.146738	.0017986	.0017820	.7094605	4.873475	2.979465
#2	4.935656	-.141597	.0020068	.0013821	.7134626	5.049965	2.969000
#3	4.896449	-.143418	.0012732	.0010935	.7142476	5.090705	2.976294

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: Q1636-09 Acquired: 3/25/2025 16:35:56 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	.2951028	.2645526	-.154100
Stddev	.0026149	.0012095	.000776
%RSD	.8860844	.4571962	.5033722
#1	.2932234	.2644649	-.153331
#2	.2980890	.2633893	-.154087
#3	.2939958	.2658036	-.154882

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3379.317	79144.17	17224.60	2234.412	4813.420
Stddev	1.820	353.05	95.13	13.764	1.727
%RSD	.0538532	.4460845	.5522668	.6159865	.0358771
#1	3380.416	79453.89	17176.60	2245.412	4812.257
#2	3377.216	79218.86	17334.16	2238.846	4815.404
#3	3380.318	78759.75	17163.03	2218.977	4812.600

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV07 Acquired: 3/25/2025 16:40:02 Type: Unk
Method: NON EPA-6010-200.7(v2843) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.968198	4.770237	4.773104	5.017760	5.056633	9.653228	9.514806
Stddev	.018256	.060261	.017490	.026889	.025275	.035198	.111694
%RSD	.3674539	1.263273	.3664187	.5358770	.4998296	.3646254	1.173901
#1	4.963757	4.713708	4.760005	5.010383	5.049236	9.692026	9.459079
#2	4.952572	4.763364	4.766341	4.995330	5.035881	9.644315	9.643400
#3	4.988265	4.833640	4.792965	5.047568	5.084780	9.623344	9.441940

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2254912	2.375741	22.77891	.9722241	2.396091	1.251915	4.829895
Stddev	.0004962	.007872	.03434	.0014394	.006938	.004071	.032970
%RSD	.2200499	.3313649	.1507657	.1480521	.2895486	.3251824	.6826237
#1	.2251723	2.370906	22.74341	.9708062	2.390819	1.252185	4.843974
#2	.2260629	2.371492	22.81197	.9721819	2.393503	1.247716	4.792223
#3	.2252384	2.384825	22.78134	.9736841	2.403951	1.255844	4.853488

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.262641	22.68701	2.397768	1.220616	24.44507	2.361137	2.483221
Stddev	.002679	.01710	.006455	.000923	.15830	.000936	.004511
%RSD	.1184040	.0753535	.2692028	.0755992	.6475684	.0396269	.1816393
#1	2.265154	22.70622	2.394009	1.219589	24.57938	2.361071	2.488392
#2	2.259822	22.68133	2.394073	1.220883	24.27054	2.360236	2.480093
#3	2.262947	22.67348	2.405221	1.221376	24.48530	2.362104	2.481179

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.02753	4.525486	5.016590	4.767747	4.713387	5.140458	4.798883
Stddev	.13333	.014577	.022394	.020475	.007908	.016962	.034006
%RSD	.5327486	.3221094	.4464007	.4294487	.1677712	.3299688	.7086174
#1	25.14999	4.516606	5.005106	4.749568	4.721400	5.133890	4.766596
#2	24.88548	4.542309	5.002268	4.763747	4.705589	5.127762	4.795674
#3	25.04711	4.517542	5.042397	4.789927	4.713172	5.159722	4.834380

Sample Name: CCV07 Acquired: 3/25/2025 16:40:02 Type: Unk
Method: NON EPA-6010-200.7(v2843) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.768634	4.764597	4.792868
Stddev	.019266	.014953	.023001
%RSD	.4040222	.3138318	.4798952
#1	4.760503	4.781692	4.802248
#2	4.754765	4.753950	4.809697
#3	4.790633	4.758150	4.766660

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3256.888	74989.81	15739.10	2128.456	4844.992
Stddev	7.861	83.30	64.06	6.380	10.080
%RSD	.2413581	.1110778	.4070243	.2997620	.2080566
#1	3262.378	75081.91	15777.48	2132.626	4852.691
#2	3260.404	74967.76	15665.14	2121.111	4848.703
#3	3247.883	74919.76	15774.67	2131.630	4833.582

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB07 Acquired: 3/25/2025 16:44:13 Type: Unk
Method: NON EPA-6010-200.7(v2843) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002748	-.001782	-.001202	.0027706	.0006405	-.004095	-.010564
Stddev	.001422	.000176	.001028	.0002314	.0011742	.003987	.001201
%RSD	51.74148	9.856325	85.49432	8.351923	183.3195	97.36135	11.37357
#1	-.001370	-.001964	-.001143	.0030230	.0008578	-.006333	-.011447
#2	-.002664	-.001769	-.000205	.0027203	-.000627	-.006459	-.011049
#3	-.004210	-.001614	-.002258	.0025685	.001691	.000508	-.009196

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000353	-.000096	.0175747	-.000108	-.000015	-.000200	-.006639
Stddev	.0000870	.000029	.0042803	.000164	.000139	.000093	.002891
%RSD	246.1488	30.17028	24.35519	151.2936	952.7762	46.24418	43.55134
#1	.0000514	-.000108	.0171777	.000062	-.000158	-.000296	-.003502
#2	-.000059	-.000117	.0220397	-.000265	.000119	-.000194	-.007216
#3	.000113	-.000063	.0135066	-.000122	-.000004	-.000111	-.009198

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000803	-.001826	-.000007	.0006062	-.018487	-.000427	-.000213
Stddev	.000275	.007851	.000089	.0002121	.013053	.000592	.000064
%RSD	34.19713	429.8462	1245.790	34.98027	70.60755	138.4444	30.05151
#1	-.001092	-.000091	.000085	.0004527	-.024853	-.000084	-.000164
#2	-.000773	.005011	-.000092	.0008482	-.027137	-.000087	-.000285
#3	-.000545	-.010399	-.000014	.0005177	-.003472	-.001111	-.000189

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0661496	-.002830	.0002265	-.003877	.0008026	.0117050	-.002536
Stddev	.0343152	.000504	.0003200	.000617	.0003698	.0021117	.002573
%RSD	51.87513	17.79448	141.3053	15.90747	46.08028	18.04132	101.4731
#1	.0386228	-.002288	.0002641	-.004235	.0003923	.0094835	-.003648
#2	.1045958	-.003284	-.000111	-.003165	.0011104	.0136864	-.004366
#3	.0552303	-.002919	.000526	-.004232	.0009051	.0119450	.000406

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB07 Acquired: 3/25/2025 16:44:13 Type: Unk
Method: NON EPA-6010-200.7(v2843) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000154	-.005026	.0001502
Stddev	.001798	.001808	.0000547
%RSD	1166.460	35.96188	36.40608
#1	-.001442	-.006560	.0000967
#2	.001900	-.003033	.0001479
#3	-.000920	-.005485	.0002060

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3355.066	76400.23	16044.04	2151.010	5428.955
Stddev	8.070	554.07	48.63	15.805	9.473
%RSD	.2405286	.7252171	.3030995	.7347529	.1744868
#1	3359.773	76554.90	16042.30	2156.185	5425.991
#2	3359.677	76860.53	15996.31	2163.579	5439.555
#3	3345.748	75785.26	16093.52	2133.267	5421.318

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: LR1 Acquired: 3/25/2025 16:48:06 Type: Unk
Method: NON EPA-6010-200.7(v2844) 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	.0522846	.0747637	.0308408	-.202468	-.003658	2052.649	.0045859
Stddev	.0044861	.0038389	.0041865	.017117	.003200	19.660	.0011847
%RSD	8.580177	5.134776	13.57465	8.454379	87.46787	.9577830	25.83394
#1	.0570852	.0706242	.0264488	-.182978	-.006450	2044.288	.0032374
#2	.0481988	.0754600	.0347861	-.209361	-.004358	2075.107	.0054594
#3	.0515697	.0782068	.0312874	-.215063	-.000166	2038.551	.0050609

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081116	.0104441	1952.428	.0251083	.0319366	.0523504	1007.033
Stddev	.0003327	.0025251	11.667	.0005256	.0004137	.0042773	11.376
%RSD	4.101344	24.17726	.5975696	2.093193	1.295469	8.170513	1.129701
#1	.0078477	.0077768	1943.434	.0256434	.0316714	.0495165	1019.959
#2	.0080017	.0107576	1965.611	.0250885	.0317251	.0502641	1002.595
#3	.0084853	.0127977	1948.240	.0245929	.0324134	.0572705	998.544

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.032560	1622.710	.0084671	-.029355	1935.001	.0181013	.1900360
Stddev	.000342	4.417	.0009149	.001836	25.357	.0023425	.0017445
%RSD	1.051654	.2722229	10.80594	6.254338	1.310453	12.94085	.9179605
#1	-.032429	1618.099	.0075331	-.027239	1929.976	.0178601	.1880373
#2	-.032949	1623.127	.0085064	-.030294	1962.494	.0205550	.1908185
#3	-.032303	1626.904	.0093617	-.030532	1912.532	.0158888	.1912521

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1478.878	^ *****	-.011900	-.008245	-.034776	.1562641	.0700584
Stddev	14.216	-----	.000337	.002170	.000934	.0163242	.0026840
%RSD	.9612923	-----	2.828507	26.31994	2.684481	10.44652	3.831127
#1	1483.093	^ -----	-.011529	-.010455	-.034580	.1743751	.0711629
#2	1490.510	^ -----	-.011984	-.008163	-.035791	.1517331	.0720140
#3	1463.031	^ -----	-.012186	-.006117	-.033955	.1426841	.0669984

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: LR1 Acquired: 3/25/2025 16:48:06 Type: Unk
Method: NON EPA-6010-200.7(v2844) 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	-.209059	.0932237	-.874789
Stddev	.006663	.0070512	.009985
%RSD	3.187254	7.563719	1.141371
#1	-.216506	.1013653	-.886144
#2	-.203661	.0892208	-.870840
#3	-.207009	.0890849	-.867382

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2145.548	50249.31	13313.21	1375.769	2737.046
Stddev	7.192	139.44	87.59	5.991	10.260
%RSD	.3351859	.2775025	.6579523	.4354362	.3748701
#1	2151.998	50211.94	13413.29	1373.069	2743.023
#2	2146.854	50132.36	13275.84	1371.604	2742.917
#3	2137.793	50403.63	13250.49	1382.635	2725.199

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: LR2 Acquired: 3/25/2025 16:53:05 Type: Unk
Method: NON EPA-6010-200.7(v2844) 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	.0072669	-.022351	250.2315	.0044996	-.004556	.1598749	^F *****
Stddev	.0033207	.001708	1.4073	.0008907	.000858	.0042818	-----
%RSD	45.69614	7.640357	.5624170	19.79446	18.82627	2.678218	-----
#1	.0060625	-.022921	250.0042	.0049840	-.005524	.1554749	82.26741
#2	.0047164	-.023701	248.9516	.0050431	-.003893	.1601221	^ -----
#3	.0110217	-.020432	251.7386	.0034717	-.004250	.1640278	^ -----

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001422	-.002255	.2692375	.0078365	.0045532	252.2517	.0193188
Stddev	.000064	.000156	.0004169	.0004518	.0001221	1.2388	.0020263
%RSD	4.522132	6.911392	.1548309	5.765398	2.682714	.4910949	10.48891
#1	-.001363	-.002089	.2688833	.0079708	.0044526	251.1745	.0209933
#2	-.001491	-.002398	.2696968	.0082059	.0046891	253.6054	.0198968
#3	-.001413	-.002278	.2691323	.0073328	.0045179	251.9752	.0170662

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	47.26601	-.065629	51.41098	.0001689	.2041135	-.009682	32.99525
Stddev	.32019	.014001	.25185	.0002889	.0199584	.001205	.05892
%RSD	.6774195	21.33340	.4898704	170.9886	9.778086	12.44294	.1785809
#1	47.02167	-.078247	51.39001	.0004934	.2208218	-.009261	33.06135
#2	47.62848	-.068074	51.17027	.0000735	.2095057	-.008744	32.97616
#3	47.14786	-.050567	51.67266	-.000060	.1820130	-.011041	32.94823

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3834405	-.005247	-.006120	-.007059	-.033097	-.005748	.2320941
Stddev	.0352318	.000322	.000243	.000238	.000153	.009254	.0021707
%RSD	9.188331	6.140551	3.978484	3.369829	.4609740	160.9897	.9352676
#1	.4241113	-.005030	-.005922	-.006893	-.033270	-.012586	.2309741
#2	.3639398	-.005095	-.006046	-.006952	-.032984	-.009440	.2307121
#3	.3622705	-.005618	-.006392	-.007332	-.033036	.004782	.2345960

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: LR2 Acquired: 3/25/2025 16:53:05 Type: Unk
Method: NON EPA-6010-200.7(v2844) 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	-.018288	-.002380	.0014828
Stddev	.001685	.000657	.0000122
%RSD	9.213740	27.58074	.8225577
#1	-.016358	-.002735	.0014779
#2	-.019042	-.001623	.0014739
#3	-.019464	-.002783	.0014967

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2939.385	76931.85	16009.86	2087.480	4961.291
Stddev	2.697	128.38	65.74	4.504	15.807
%RSD	.0917414	.1668794	.4106028	.2157458	.3186113
#1	2936.745	76783.83	16049.87	2092.419	4956.815
#2	2942.135	77012.89	15933.99	2086.421	4978.854
#3	2939.274	76998.84	16045.73	2083.601	4948.204

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV08 Acquired: 3/25/2025 17:01:49 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	5.003901	4.812627	4.840894	5.047842	5.071827	9.695749	9.409170
Stddev	.043515	.029853	.014467	.039102	.037383	.010998	.149679
%RSD	.8696247	.6203037	.2988404	.7746260	.7370725	.1134312	1.590780
#1	4.969695	4.778701	4.836267	5.016785	5.045772	9.684297	9.283498
#2	4.989129	4.824302	4.829307	5.034988	5.055050	9.696719	9.369251
#3	5.052879	4.834878	4.857108	5.091753	5.114660	9.706229	9.574762

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2342762	2.412564	23.16370	.9936995	2.428852	1.261552	4.882479
Stddev	.0009856	.007049	.04382	.0044333	.009907	.005309	.023487
%RSD	.4206850	.2921724	.1891624	.4461368	.4078913	.4208094	.4810385
#1	.2334049	2.412231	23.13053	.9971343	2.426779	1.257739	4.896524
#2	.2340779	2.405687	23.14720	.9952692	2.420146	1.259303	4.895548
#3	.2353459	2.419773	23.21337	.9886949	2.439632	1.267616	4.855365

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.300121	23.27941	2.434195	1.236614	23.95514	2.389628	2.495853
Stddev	.004828	.03628	.009150	.003038	.23415	.011183	.005322
%RSD	.2099134	.1558573	.3758854	.2456585	.9774410	.4679634	.2132348
#1	2.300505	23.26517	2.432065	1.239404	24.18880	2.381079	2.492137
#2	2.295113	23.25240	2.426298	1.237059	23.95613	2.385521	2.501950
#3	2.304746	23.32065	2.444222	1.233378	23.72050	2.402283	2.493472

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.85783	4.662942	5.051985	4.849852	4.736827	5.153899	4.868870
Stddev	.18191	.037666	.028105	.012040	.005459	.033849	.014555
%RSD	.7318187	.8077684	.5563102	.2482649	.1152547	.6567744	.2989439
#1	25.03700	4.628004	5.028837	4.845543	4.740472	5.189660	4.864960
#2	24.86321	4.657980	5.043861	4.840560	4.730550	5.149683	4.856669
#3	24.67329	4.702844	5.083257	4.863455	4.739460	5.122356	4.884980

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCV08 Acquired: 3/25/2025 17:01:49 Type: Unk
Method: NON EPA-6010-200.7(v2843) 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	4.844583	4.726383	4.756036
Stddev	.021498	.008593	.016099
%RSD	.4437542	.1818137	.3384887
#1	4.824207	4.732466	4.737459
#2	4.842492	4.716553	4.765894
#3	4.867050	4.730130	4.764756

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3225.401	72803.35	15081.47	2089.330	4776.788
Stddev	11.560	255.84	77.18	6.469	17.272
%RSD	.3583991	.3514134	.5117393	.3096251	.3615914
#1	3227.107	72527.79	15137.51	2082.945	4766.777
#2	3236.012	72848.90	15113.47	2089.167	4796.732
#3	3213.083	73033.35	14993.44	2095.880	4766.854

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB08 Acquired: 3/25/2025 17:05:59 Type: Unk
Method: NON EPA-6010-200.7(v2843) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005316	-.000380	.0006579	-.000548	-.000981	-.003826	-.009317
Stddev	.0006616	.001079	.0014751	.000940	.000830	.001728	.000544
%RSD	124.4394	284.2697	224.2156	171.6117	84.53727	45.17878	5.840696
#1	.0012950	-.000830	.0019748	-.000728	-.000426	-.001937	-.009832
#2	.0001747	.000852	-.000936	.000469	-.001935	-.005328	-.009372
#3	.0001252	-.001161	.000935	-.001385	-.000583	-.004213	-.008748

Elem	Be2348	Cd2265	Ca3736	Cr2677	Co2286	Cu2247	Fe2404
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000421	-.000044	.0187804	-.000157	-.000108	-.000070	-.006561
Stddev	.0000311	.000037	.0011932	.000034	.000055	.000139	.002053
%RSD	73.95949	84.86761	6.353136	21.95596	50.66523	199.0089	31.28754
#1	.0000066	-.000059	.0192066	-.000184	-.000070	-.000225	-.005799
#2	.0000547	-.000071	.0174327	-.000118	-.000171	.000041	-.004998
#3	.0000649	-.000001	.0197019	-.000167	-.000083	-.000025	-.008885

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na5895	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000767	-.000583	.0000655	.0001700	.1195550	.0006239	-.000254
Stddev	.000338	.008088	.0001766	.0001592	.0219608	.0017649	.000030
%RSD	44.08761	1387.608	269.6459	93.66207	18.36876	282.8817	11.77250
#1	-.001109	.002249	-.000093	.0001117	.1008932	.0020480	-.000283
#2	-.000433	-.009706	.000033	.0000481	.1140172	.0011744	-.000223
#3	-.000759	.005708	.000256	.0003500	.1437547	-.001351	-.000255

Elem	K_7664	B_2496	Mo2020	Sn1899	Ti3361	Si2881	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1126148	-.002030	.0003102	-.003314	.0013668	.0031959	.0008411
Stddev	.0261648	.000470	.0003444	.000931	.0007813	.0057917	.0012899
%RSD	23.23387	23.13350	111.0345	28.10612	57.16087	181.2214	153.3514
#1	.0858706	-.001567	.0001975	-.004304	.0006787	.0078213	.0002626
#2	.1138150	-.002506	.0000362	-.003181	.0012056	-.003300	-.000058
#3	.1381588	-.002015	.0006968	-.002456	.0022161	.005066	.002319

Reviewed By:JANVI
On:3/26/2025 4:27:30 PM
Inst Id :P4
LB :LB135182

Sample Name: CCB08 Acquired: 3/25/2025 17:05:59 Type: Unk
Method: NON EPA-6010-200.7(v2843) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB08 Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0024856	-.005424	.0001694
Stddev	.0016443	.000975	.0000718
%RSD	66.15459	17.97110	42.36051
#1	.0006554	-.005484	.0001480
#2	.0029629	-.004420	.0001108
#3	.0038385	-.006367	.0002495

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3378.936	76456.50	15613.23	2195.306	5405.722
Stddev	16.774	110.75	77.52	3.223	22.168
%RSD	.4964359	.1448476	.4965175	.1468203	.4100843
#1	3391.357	76553.38	15702.75	2191.685	5417.796
#2	3385.597	76335.78	15568.38	2197.861	5419.232
#3	3359.855	76480.35	15568.57	2196.373	5380.138

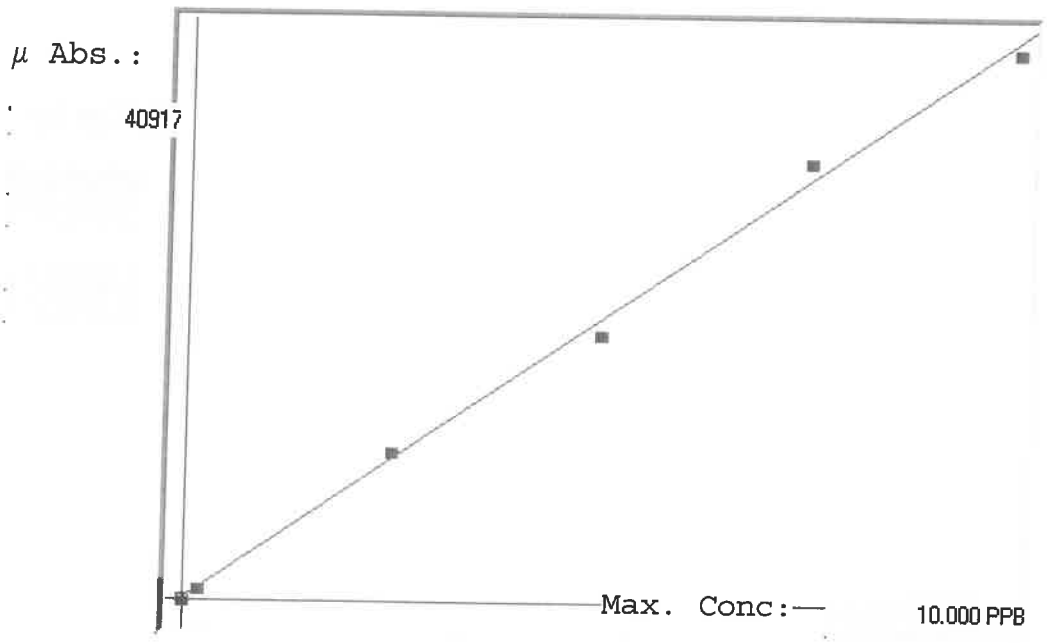
Reviewed By:jaswal
On:3/20/2025 11:16:04 AM
Inst Id :CV1
LB :LB135064

LB135064

7470A

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.4024e-004

C= -3.2981e-002

Rho= 0.9985198

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.0	0.000	-0.020	-0.020	55	0.000	55	0				-1
0.2	0.200	0.172	-0.028	855	0.0 %	855					-14
2.5	2.500	2.636	0.136	11108	0.0 %	11108					5
5.0	5.000	4.762	-0.238	19960	0.0 %	19960					-5
7.5	7.500	7.853	0.353	32824	0.0 %	32824					5
10.0	10.000	9.797	-0.203	40917	0.0 %	40917					2

Reviewed By:jaswal
On:3/20/2025 11:16:04 AM
Inst Id :CV1
LB :LB135064

LB135064 INSTRUMENT ID : CV1

Method: 7470A Operator: Admin Date of Analysis: 18 Mar 2025 07:56:17

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type	Type
0.0 - 1	S0	55	-	0.0000	7470A	PPB	18 Mar 2025 09:34:39	S	Std
0.2 - 1	S0.2	855	-	0.2000	7470A	PPB	18 Mar 2025 09:36:56	S	Std
2.5 - 1	S2.5	11108	-	2.5000	7470A	PPB	18 Mar 2025 09:39:14	S	Std
5.0 - 1	S5	19960	-	5.0000	7470A	PPB	18 Mar 2025 09:41:31	S	Std
7.5 - 1	S7.5	32824	-	7.5000	7470A	PPB	18 Mar 2025 09:49:56	S	Std
10.0 - 1	S10	40917	-	10.0000	7470A	PPB	18 Mar 2025 09:52:11	S	Std
ICV46 - 1	ICV46	16548	3.9425		7470A	PPB	18 Mar 2025 09:55:05	U	SMPL
ICB46 - 1	ICB46	-227	-0.0875		7470A	PPB	18 Mar 2025 09:57:22	U	SMPL
CCV20 - 1	CCV20	22482	5.3681		7470A	PPB	18 Mar 2025 09:59:38	U	SMPL
CCB20 - 1	CCB20	-43	-0.0433		7470A	PPB	18 Mar 2025 10:04:36	U	SMPL
CRA - 1	CRA	808	0.1611		7470A	PPB	18 Mar 2025 10:06:51	U	SMPL
HighStd - 1	HighStd	42000	10.0571		7470A	PPB	18 Mar 2025 10:09:06	U	SMPL
ChkStd - 1	ChkStd	29904	7.1511		7470A	PPB	18 Mar 2025 10:11:22	U	SMPL
PB167166BL - 1	PBW	-3	-0.0337		7470A	PPB	18 Mar 2025 10:16:17	U	SMPL
PB167166BS - 1	LCSW	19273	4.5972		7470A	PPB	18 Mar 2025 10:18:34	U	SMPL
Q1568-04 - 1	JC-03-03132025	-244	-0.0916		7470A	PPB	18 Mar 2025 10:20:52	U	SMPL
Q1568-04DUP - 1	JC-03-03132025DUP	-3	-0.0337		7470A	PPB	18 Mar 2025 10:23:10	U	SMPL
Q1568-04MS - 1	JC-03-03132025MS	16522	3.9363		7470A	PPB	18 Mar 2025 10:25:27	U	SMPL
Q1568-04MSD - 1	JC-03-03132025MSD	16341	3.8928		7470A	PPB	18 Mar 2025 10:27:44	U	SMPL
Q1569-02 - 1	TAP-IDW-SOIL-031325-01	-87	-0.0539		7470A	PPB	18 Mar 2025 10:30:02	U	SMPL
CCV21 - 1	CCV21	20408	4.8698		7470A	PPB	18 Mar 2025 10:35:02	U	SMPL
CCB21 - 1	CCB21	47	-0.0217		7470A	PPB	18 Mar 2025 10:41:17	U	SMPL
Q1569-05 - 1	TAP-IDW-SOIL-031325-02	42	-0.0229		7470A	PPB	18 Mar 2025 10:43:32	U	SMPL
Q1574-02 - 1	WC1	2309	0.5217		7470A	PPB	18 Mar 2025 10:45:47	U	SMPL
PB167133TB - 1	PB167133TB	-66	-0.0488		7470A	PPB	18 Mar 2025 10:48:03	U	SMPL
Q1568-04LX5 - 1		25	-0.0270		7470A	PPB	18 Mar 2025 10:50:19	U	SMPL
Q1568-04A - 1		16440	3.9166		7470A	PPB	18 Mar 2025 10:52:35	U	SMPL
CCV22 - 1	CCV22	21462	5.1230		7470A	PPB	18 Mar 2025 10:54:51	U	SMPL
CCB22 - 1	CCB22	4	-0.0320		7470A	PPB	18 Mar 2025 10:59:43	U	SMPL

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167161

SOP ID : M3010A-Digestion-17

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: 03/17/2025 **Time :** 12:05 **Temp :** 96 °C

End Digest Date: 03/17/2025 **Time :** 15:10 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SLS.

Supervisor Signature: JP

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6003
LFS-2	1.00	M6012
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
Conc. HNO3	3.00	M6158
1:1 HCL	5.00	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 #50 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/17/25 16:10	SLS. met. dig	JP Met Dig
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167161

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167133TB	PB167133TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	1
PB167161BL	PBW161	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	2
PB167161BS	LCS161	<2	5	25	Colorless	Colorless	Clear	Clear	M6003,M6012	3
Q1568-04MS	JC-03-03132025MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6003,M6012	6
Q1568-04MSD	JC-03-03132025MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6003,M6012	7
Q1568-04DUP	JC-03-03132025DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	5
Q1568-04	JC-03-03132025	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	4
Q1569-02	TAP-IDW-SOIL-031325-01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	8
Q1569-05	TAP-IDW-SOIL-031325-02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	9
Q1574-02	WC1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	10

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167133

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep P
PB167133TB	LEB133	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1
~~Q1567-04~~ SK	~~58 MIDDLESEX AVE~~ SK 3/20	~~01~~ SK	~~100.03~~ SK	~~2000~~ SK 3/20	~~N/A~~ SK 3/20	~~N/A~~ SK	~~N/A~~ SK	~~4.5~~ SK	~~1.5~~ SK	~~T-1~~
Q1568-04	JC-03-03132025	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1569-02	TAP-IDW-SOIL-031325-01	03	100.01	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1569-05	TAP-IDW-SOIL-031325-02	04	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1574-02	WC1	05	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167166

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 03/17/2025 **Time :** 10:35 **Temp :** 94 °C

End Digest Date: 03/17/2025 **Time :** 12:35 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: N

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP84889
CCV	30mL	MP84891
CRA	30mL	MP84893
Blank Spike	0.48mL	MP84881
Matrix Spike	0.48mL	MP84881

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP84563
KMnO4 (5%)	4.5mL	MP84564
K2S2O8 (5%)	2.5mL	MP84565
Hydroxylamine HCL (12%)	2.0mL	MP84566
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

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP84882
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP84883
2.5 ppb	S2.5	30mL	MP84884
5.0 ppb	S5.0	30mL	MP84885
7.5 ppb	S7.5	30mL	MP84886
10.0 ppb	S10.0	30mL	MP84887
ICV	ICV	30mL	MP84889
ICB	ICB	30mL	MP84890
CCV	CCV	30mL	MP84891
CCB	CCB	30mL	MP84892
CRI	CRI	30mL	MP84893
CHK STD	CHK STD	30mL	MP84894

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/17/25 @ 13:05	MB - HG · LAS	MB - Metals LAS
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167166

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB167133TB	PB167133TB	3	30	<2	N/A	3-1
PB167166BL	PBW166	30	30	<2	N/A	2
PB167166BS	LCS166	30	30	<2	MP84881	3
Q1568-04DUP	JC-03-03132025DUP	3	30	<2	N/A	5
Q1568-04MS	JC-03-03132025MS	3	30	<2	MP84881	6
Q1568-04MSD	JC-03-03132025MSD	3	30	<2	MP84881	7
Q1568-04	JC-03-03132025	3	30	<2	N/A	4
Q1569-02	TAP-IDW-SOIL-031325-01	3	30	<2	N/A	8
Q1569-05	TAP-IDW-SOIL-031325-02	3	30	<2	N/A	9
Q1574-02	WC1	3	30	<2	N/A	10

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167133

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1

TCLP Filter ID : 115525

Start Prep Date : 03/14/2025 Time : 14:00

End Prep Date : 03/15/2025 Time : 08:30

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 18

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : 18

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	W3172.	W1931,W1934,W3171,W3172
N/A	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked.30 rpm. Particle size reduction is not required. q1568-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/17/25 10:00	18 /TCLP Room	SM. PJ /EXT
	Preparation Group	Analysis Group /Met Dig

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 # LB135063

Review By	kareem	Review On	3/18/2025 12:28:54 PM
Supervise By	jaswal	Supervise On	3/20/2025 11:15:13 AM

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	03/17/25 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	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135063

Review By	kareem	Review On	3/18/2025 12:28:54 PM
Supervise By	jaswal	Supervise On	3/20/2025 11:15:13 AM

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	PB167119BL	PB167119BL	MB	03/17/25 15:39		Kareem	OK
20	PB167119BS	PB167119BS	LCS	03/17/25 15:44	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
21	Q1543-01	ISB878MW02	SAM	03/17/25 15:48		Kareem	OK
22	Q1543-02	ISB878MW05	SAM	03/17/25 15:52		Kareem	OK
23	Q1543-02DUP	ISB878MW05DUP	DUP	03/17/25 15:56		Kareem	OK
24	Q1543-02L	ISB878MW05L	SD	03/17/25 16:01		Kareem	OK
25	Q1543-02MS	ISB878MW05MS	MS	03/17/25 16:05	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
26	Q1543-02MSD	ISB878MW05MSD	MSD	03/17/25 16:09	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
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		Kareem	OK
30	Q1543-02A	ISB878MW05A	PS	03/17/25 16:26	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	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	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135063

Review By	kareem	Review On	3/18/2025 12:28:54 PM
Supervise By	jaswal	Supervise On	3/20/2025 11:15:13 AM

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

35	Q1568-04MSD	JC-03-03132025MSD	MSD	03/17/25 16:47	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
36	Q1568-04A	JC-03-03132025A	PS	03/17/25 16:52	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
37	PB167133TB	PB167133TB	MB	03/17/25 16:56	NOT USE	Kareem	Not Ok
38	PB167161BL	PB167161BL	MB	03/17/25 17:00	NOT USE	Kareem	Not Ok
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	NOT USE	Kareem	Not Ok
42	Q1566-01	CTWK-COMP	SAM	03/17/25 17:17		Kareem	OK
43	Q1568-01	JC-03-03132025	SAM	03/17/25 17:21		Kareem	OK
44	Q1568-01DUP	JC-03-03132025DUP	DUP	03/17/25 17:25		Kareem	OK
45	Q1568-01L	JC-03-03132025L	SD	03/17/25 17:29		Kareem	OK
46	Q1568-01MS	JC-03-03132025MS	MS	03/17/25 17:34	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
47	Q1568-01MSD	JC-03-03132025MSD	MSD	03/17/25 17:38	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
48	Q1568-01A	JC-03-03132025A	PS	03/17/25 17:43	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
49	CCV04	CCV04	CCV	03/17/25 17:51		Kareem	OK
50	CCB04	CCB04	CCB	03/17/25 17:55		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135063

Review By	kareem	Review On	3/18/2025 12:28:54 PM
Supervise By	jaswal	Supervise On	3/20/2025 11:15:13 AM

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

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	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	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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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135064

Review By	Mohan	Review On	3/20/2025 11:15:47 AM
Supervise By	jaswal	Supervise On	3/20/2025 11:16:04 AM

STD. NAME	STD REF.#
ICAL Standard	MP84882,MP84883,MP84884,MP84885,MP84886,MP84887
ICV Standard	MP84889
CCV Standard	MP84891
ICSA Standard	
CRI Standard	MP84893
LCS Standard	
Chk Standard	MP84890,MP84892,MP84894,MP84898

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/18/25 09:34		Mohan	OK
2	S0.2	S0.2	CAL2	03/18/25 09:36		Mohan	OK
3	S2.5	S2.5	CAL3	03/18/25 09:39		Mohan	OK
4	S5	S5	CAL4	03/18/25 09:41		Mohan	OK
5	S7.5	S7.5	CAL5	03/18/25 09:49		Mohan	OK
6	S10	S10	CAL6	03/18/25 09:52		Mohan	OK
7	ICV46	ICV46	ICV	03/18/25 09:55		Mohan	OK
8	ICB46	ICB46	ICB	03/18/25 09:57		Mohan	OK
9	CCV20	CCV20	CCV	03/18/25 09:59		Mohan	OK
10	CCB20	CCB20	CCB	03/18/25 10:04		Mohan	OK
11	CRA	CRA	CRDL	03/18/25 10:06		Mohan	OK
12	HighStd	HighStd	HIGH STD	03/18/25 10:09		Mohan	OK
13	ChkStd	ChkStd	SAM	03/18/25 10:11		Mohan	OK
14	PB167166BL	PB167166BL	MB	03/18/25 10:16		Mohan	OK
15	PB167166BS	PB167166BS	LCS	03/18/25 10:18		Mohan	OK
16	Q1568-04	JC-03-03132025	SAM	03/18/25 10:20		Mohan	OK
17	Q1568-04DUP	JC-03-03132025DUP	DUP	03/18/25 10:23		Mohan	OK
18	Q1568-04MS	JC-03-03132025MS	MS	03/18/25 10:25		Mohan	OK

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135064

Review By	Mohan	Review On	3/20/2025 11:15:47 AM
Supervise By	jaswal	Supervise On	3/20/2025 11:16:04 AM

STD. NAME	STD REF.#
ICAL Standard	MP84882,MP84883,MP84884,MP84885,MP84886,MP84887
ICV Standard	MP84889
CCV Standard	MP84891
ICSA Standard	
CRI Standard	MP84893
LCS Standard	
Chk Standard	MP84890,MP84892,MP84894,MP84898

19	Q1568-04MSD	JC-03-03132025MSD	MSD	03/18/25 10:27		Mohan	OK
20	Q1569-02	TAP-IDW-SOIL-03132	SAM	03/18/25 10:30		Mohan	OK
21	CCV21	CCV21	CCV	03/18/25 10:35		Mohan	OK
22	CCB21	CCB21	CCB	03/18/25 10:41		Mohan	OK
23	Q1569-05	TAP-IDW-SOIL-03132	SAM	03/18/25 10:43		Mohan	OK
24	Q1574-02	WC1	SAM	03/18/25 10:45		Mohan	OK
25	PB167133TB	PB167133TB	MB	03/18/25 10:48		Mohan	OK
26	Q1568-04L	JC-03-03132025L	SD	03/18/25 10:50		Mohan	OK
27	Q1568-04A	JC-03-03132025A	PS	03/18/25 10:52		Mohan	OK
28	CCV22	CCV22	CCV	03/18/25 10:54		Mohan	OK
29	CCB22	CCB22	CCB	03/18/25 10:59		Mohan	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135083

Review By	kareem	Review On	3/19/2025 10:45:13 AM
Supervise By	jaswal	Supervise On	3/20/2025 11:14:55 AM

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	03/18/25 10:11		Kareem	OK
2	S1	S1	CAL2	03/18/25 10:15		Kareem	OK
3	S2	S2	CAL3	03/18/25 10:20		Kareem	OK
4	S3	S3	CAL4	03/18/25 10:24		Kareem	OK
5	S4	S4	CAL5	03/18/25 10:28		Kareem	OK
6	S5	S5	CAL6	03/18/25 10:32		Kareem	OK
7	ICV01	ICV01	ICV	03/18/25 10:36		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/18/25 10:41		Kareem	OK
9	ICB01	ICB01	ICB	03/18/25 10:45		Kareem	OK
10	CRI01	CRI01	CRDL	03/18/25 10:49		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/18/25 10:54		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/18/25 11:04		Kareem	OK
13	CCV01	CCV01	CCV	03/18/25 11:09		Kareem	OK
14	CCB01	CCB01	CCB	03/18/25 11:13		Kareem	OK
15	PB167145BL	PB167145BL	MB	03/18/25 11:18		Kareem	OK
16	PB167145BS	PB167145BS	LCS	03/18/25 11:22	0.1 ml of M6013 and M6004 were added to 10 ml of sample	Kareem	OK
17	PB167150BL	PB167150BL	MB	03/18/25 11:27		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 # LB135083

Review By	kareem	Review On	3/19/2025 10:45:13 AM
Supervise By	jaswal	Supervise On	3/20/2025 11:14:55 AM

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

18	PB167150BS	PB167150BS	LCS	03/18/25 11:32	0.1 ml of M6013 and M6004 were added to 10 ml of sample	Kareem	OK
19	Q1569-05	TAP-IDW-SOIL-03132	SAM	03/18/25 11:36		Kareem	OK
20	Q1569-02	TAP-IDW-SOIL-03132	SAM	03/18/25 11:40		Kareem	OK
21	Q1574-02	WC1	SAM	03/18/25 11:45		Kareem	OK
22	Q1574-01	WC1	SAM	03/18/25 11:49	Cr,Cu,Fe,Zn High & Ag (Oversaturated)	Kareem	Dilution
23	Q1569-04	TAP-IDW-SOIL-03132	SAM	03/18/25 11:54	Not in login page	Kareem	Not Ok
24	Q1581-01	TR-06-031425	SAM	03/18/25 11:58		Kareem	OK
25	CCV02	CCV02	CCV	03/18/25 12:08		Kareem	OK
26	CCB02	CCB02	CCB	03/18/25 12:17		Kareem	OK
27	Q1581-01DUP	TR-06-031425DUP	DUP	03/18/25 12:22		Kareem	OK
28	Q1581-01L	TR-06-031425L	SD	03/18/25 12:26		Kareem	OK
29	Q1581-01MS	TR-06-031425MS	MS	03/18/25 12:30	0.1 ml of M6013 and M6004 were added to 10 ml of sample	Kareem	OK
30	Q1581-01MSD	TR-06-031425MSD	MSD	03/18/25 12:34	0.1 ml of M6013 and M6004 were added to 10 ml of sample	Kareem	OK
31	Q1581-01A	TR-06-031425A	PS	03/18/25 12:38	0.1 ml of M6013 and M6004 were added to 10 ml of sample	Kareem	OK
32	Q1585-01	OK-02-03142025	SAM	03/18/25 12:42		Kareem	OK
33	Q1585-01DUP	OK-02-03142025DUP	DUP	03/18/25 12:46		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135083

Review By	kareem	Review On	3/19/2025 10:45:13 AM
Supervise By	jaswal	Supervise On	3/20/2025 11:14:55 AM

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	Q1585-01L	OK-02-03142025L	SD	03/18/25 12:50		Kareem	OK
35	Q1585-01MS	OK-02-03142025MS	MS	03/18/25 12:55	0.1 ml of M6013 and M6004 were added to 10 ml of sample	Kareem	OK
36	Q1585-01MSD	OK-02-03142025MSD	MSD	03/18/25 12:59	0.1 ml of M6013 and M6004 were added to 10 ml of sample	Kareem	OK
37	CCV03	CCV03	CCV	03/18/25 13:07		Kareem	OK
38	CCB03	CCB03	CCB	03/18/25 13:13		Kareem	OK
39	Q1585-01A	OK-02-03142025A	PS	03/18/25 13:17	0.1 ml of M6013 and M6004 were added to 10 ml of sample	Kareem	OK
40	Q1574-02L	WC1L	SD	03/18/25 13:32	NOT USE	Kareem	Not Ok
41	Q1574-01DL	WC1DL	SAM	03/18/25 13:41	20X for Cr,Cu,Fe,Ag,Zn	Kareem	Confirms
42	LR1	LR1	HIGH STD	03/18/25 13:45		Kareem	OK
43	LR2	LR2	HIGH STD	03/18/25 13:50		Kareem	OK
44	Q1590-02	20071	SAM	03/18/25 13:54		Kareem	OK
45	Q1590-02DUP	20071DUP	DUP	03/18/25 13:58		Kareem	OK
46	Q1590-02L	20071L	SD	03/18/25 14:03		Kareem	OK
47	CCV04	CCV04	CCV	03/18/25 14:07		Kareem	OK
48	CCB04	CCB04	CCB	03/18/25 14:20		Kareem	OK
49	Q1590-02MS	20071MS	MS	03/18/25 14:24	0.1 ml of M6013 and M6004 were added to 10 ml of sample	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135083

Review By	kareem	Review On	3/19/2025 10:45:13 AM
Supervise By	jaswal	Supervise On	3/20/2025 11:14:55 AM

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

50	Q1590-02MSD	20071MSD	MSD	03/18/25 14:28	0.1 ml of M6013 and M6004 were added to 10 ml of sample	Kareem	OK
51	Q1590-02A	20071A	PS	03/18/25 14:32	0.1 ml of M6013 and M6004 were added to 10 ml of sample	Kareem	OK
52	Q1592-01	OILY-DEBRIS-COMP	SAM	03/18/25 14:37		Kareem	OK
53	PB167179BL	PB167179BL	MB	03/18/25 14:41		Kareem	OK
54	PB167179BS	PB167179BS	LCS	03/18/25 14:45	0.1 ml of M6013 and M6004 were added to 10 ml of sample	Kareem	OK
55	CCV05	CCV05	CCV	03/18/25 14:49		Kareem	OK
56	CCB05	CCB05	CCB	03/18/25 14:53		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135182

Review By	kareem	Review On	3/26/2025 10:50:02 AM
Supervise By	JANVI	Supervise On	3/26/2025 4:27:30 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	03/25/25 09:38		Kareem	OK
2	S1	S1	CAL2	03/25/25 09:42		Kareem	OK
3	S2	S2	CAL3	03/25/25 09:46		Kareem	OK
4	S3	S3	CAL4	03/25/25 09:50		Kareem	OK
5	S4	S4	CAL5	03/25/25 09:54		Kareem	OK
6	S5	S5	CAL6	03/25/25 09:59		Kareem	OK
7	ICV01	ICV01	ICV	03/25/25 10:03		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/25/25 10:14		Kareem	OK
9	ICB01	ICB01	ICB	03/25/25 10:18		Kareem	OK
10	CRI01	CRI01	CRDL	03/25/25 10:22		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/25/25 10:27		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/25/25 10:31		Kareem	OK
13	CCV01	CCV01	CCV	03/25/25 10:35		Kareem	OK
14	CCB01	CCB01	CCB	03/25/25 10:40		Kareem	OK
15	Q1619-12	TP-4	SAM	03/25/25 10:44		Kareem	OK
16	Q1619-14	TP-5	SAM	03/25/25 10:48		Kareem	OK
17	Q1619-14DUP	TP-5DUP	DUP	03/25/25 10:53		Kareem	OK
18	Q1619-14L	TP-5L	SD	03/25/25 10:57		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135182

Review By	kareem	Review On	3/26/2025 10:50:02 AM
Supervise By	JANVI	Supervise On	3/26/2025 4:27:30 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	Q1619-14MS	TP-5MS	MS	03/25/25 11:01	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
20	Q1619-14MSD	TP-5MSD	MSD	03/25/25 11:06	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
21	Q1619-14A	TP-5A	PS	03/25/25 11:10	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
22	PB167260BL	PB167260BL	MB	03/25/25 11:14		Kareem	OK
23	PB167260BS	PB167260BS	LCS	03/25/25 11:18	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
24	Q1625-01	FRAC-TANK-A1291	SAM	03/25/25 11:22		Kareem	OK
25	CCV02	CCV02	CCV	03/25/25 11:27		Kareem	OK
26	CCB02	CCB02	CCB	03/25/25 11:31		Kareem	OK
27	Q1625-01DUP	FRAC-TANK-A1291D	DUP	03/25/25 11:35		Kareem	OK
28	Q1625-01L	FRAC-TANK-A1291L	SD	03/25/25 11:40		Kareem	OK
29	Q1625-01MS	FRAC-TANK-A1291M	MS	03/25/25 11:44	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
30	Q1625-01MSD	FRAC-TANK-A1291M	MSD	03/25/25 11:49	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
31	Q1625-01A	FRAC-TANK-A1291A	PS	03/25/25 11:53	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
32	PB167273BL	PB167273BL	MB	03/25/25 11:58		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB135182

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Supervise By	JANVI	Supervise On	3/26/2025 4:27:30 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

33	PB167273BS	PB167273BS	LCS	03/25/25 12:02	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
34	Q1610-02	SOIL-PILE	SAM	03/25/25 12:06		Kareem	OK
35	Q1619-01	CONCRETE-1	SAM	03/25/25 12:10		Kareem	OK
36	Q1619-03	CONCRETE-2	SAM	03/25/25 12:15		Kareem	OK
37	CCV03	CCV03	CCV	03/25/25 12:29		Kareem	OK
38	CCB03	CCB03	CCB	03/25/25 12:33		Kareem	OK
39	Q1619-05	TP-1	SAM	03/25/25 12:38	Cr high	Kareem	Dilution
40	Q1619-07	TP-2	SAM	03/25/25 12:42		Kareem	OK
41	Q1619-09	TP-3	SAM	03/25/25 12:46	Cr high	Kareem	Dilution
42	Q1619-11	TP-4	SAM	03/25/25 12:50	Cr high	Kareem	Dilution
43	Q1619-13	TP-5	SAM	03/25/25 12:54		Kareem	OK
44	PB167257BL	PB167257BL	MB	03/25/25 12:59		Kareem	OK
45	PB167257BS	PB167257BS	LCS	03/25/25 13:03		Kareem	OK
46	Q1624-01	OK-01-03212025	SAM	03/25/25 13:07		Kareem	OK
47	Q1624-01DUP	OK-01-03212025DUP	DUP	03/25/25 13:11		Kareem	OK
48	Q1624-01L	OK-01-03212025L	SD	03/25/25 13:15		Kareem	OK
49	CCV04	CCV04	CCV	03/25/25 13:33		Kareem	OK
50	CCB04	CCB04	CCB	03/25/25 13:42		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB135182

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Supervise By	JANVI	Supervise On	3/26/2025 4:27:30 PM

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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

51	Q1624-01MS	OK-01-03212025MS	MS	03/25/25 13:46	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
52	Q1624-01MSD	OK-01-03212025MSD	MSD	03/25/25 13:50	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
53	Q1624-01A	OK-01-03212025A	PS	03/25/25 13:54	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
54	Q1619-05DL	TP-1DL	SAM	03/25/25 13:58	10x for Cr	Kareem	Confirms
55	Q1626-01	CO-32-1	SAM	03/25/25 14:02		Kareem	OK
56	Q1630-01	VNJ-206	SAM	03/25/25 14:11		Kareem	OK
57	PB167267BL	PB167267BL	MB	03/25/25 14:15		Kareem	OK
58	PB167267BS	PB167267BS	LCS	03/25/25 14:20	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
59	Q1619-09DL	TP-3DL	SAM	03/25/25 14:24	25x for Cr	Kareem	Confirms
60	Q1619-11DL	TP-4DL	SAM	03/25/25 14:28	10x for Cr	Kareem	Confirms
61	CCV05	CCV05	CCV	03/25/25 14:38		Kareem	OK
62	CCB05	CCB05	CCB	03/25/25 14:48		Kareem	OK
63	PB167161BL	PB167161BL	MB	03/25/25 14:52		Kareem	OK
64	PB167133TB	PB167133TB	MB	03/25/25 15:00		Kareem	OK
65	PB167161BS	PB167161BS	LCS	03/25/25 15:12	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
66	Q1631-01	364	SAM	03/25/25 15:16		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135182

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Supervise By	JANVI	Supervise On	3/26/2025 4:27:30 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

67	Q1631-04	359	SAM	03/25/25 15:21		Kareem	OK
68	Q1634-01	HR-01-032425	SAM	03/25/25 15:25		Kareem	OK
69	Q1634-03	HR-04-032425	SAM	03/25/25 15:29		Kareem	OK
70	Q1635-01	TP-2	SAM	03/25/25 15:33		Kareem	OK
71	Q1635-01DUP	TP-2DUP	DUP	03/25/25 15:37		Kareem	OK
72	Q1635-01L	TP-2L	SD	03/25/25 15:42		Kareem	OK
73	CCV06	CCV06	CCV	03/25/25 15:46		Kareem	OK
74	CCB06	CCB06	CCB	03/25/25 15:50		Kareem	OK
75	Q1635-01MS	TP-2MS	MS	03/25/25 15:54	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
76	Q1635-01MSD	TP-2MSD	MSD	03/25/25 15:58	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
77	Q1635-01A	TP-2A	PS	03/25/25 16:07	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
78	PB167296BL	PB167296BL	MB	03/25/25 16:11		Kareem	OK
79	PB167296BS	PB167296BS	LCS	03/25/25 16:15	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
80	Q1636-01	WC-1	SAM	03/25/25 16:19		Kareem	OK
81	Q1636-05	WC-2	SAM	03/25/25 16:23		Kareem	OK
82	Q1636-13	WC-4	SAM	03/25/25 16:27		Kareem	OK

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Supervise By	JANVI	Supervise On	3/26/2025 4:27:30 PM

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ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
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CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

83	Q1636-17	WC-5	SAM	03/25/25 16:31		Kareem	OK
84	Q1636-09	WC-3	SAM	03/25/25 16:35		Kareem	OK
85	CCV07	CCV07	CCV	03/25/25 16:40		Kareem	OK
86	CCB07	CCB07	CCB	03/25/25 16:44		Kareem	OK
87	LR1	LR1	HIGH STD	03/25/25 16:48		Kareem	OK
88	LR2	LR2	HIGH STD	03/25/25 16:53		Kareem	OK
89	CCV08	CCV08	CCV	03/25/25 17:01		Kareem	OK
90	CCB08	CCB08	CCB	03/25/25 17:05		Kareem	OK

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167133

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1

TCLP Filter ID : 115525

Start Prep Date : 03/14/2025 **Time :** 14:00

End Prep Date : 03/15/2025 **Time :** 08:30

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 18

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : 18

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	W3172.	W1931,W1934,W3171,W3172
N/A	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked.30 rpm. Particle size reduction is not required. q1568-04 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03117125 10:00	18 /TCLP Room	18 /EXT
	Preparation Group	Analysis Group /MET 3/19

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167133

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167133TB	LEB133	06	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-1
Q1507-04	50-MIDDLESEX-AVE	01	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q1568-04	JC-03-03132025	02	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1569-02	TAP-IDW-SOIL-031325-01	03	100.01	2000	N/A	N/A	N/A	3.5	1.5	T-1
Q1569-05	TAP-IDW-SOIL-031325-02	04	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1574-02	WC1	05	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167133TB	LEB133	N/A	N/A	N/A	N/A	N/A	N/A
Q1507-04	50-MIDDLESEX-AVE	N/A	N/A	N/A	N/A	100	N/A
Q1568-04	JC-03-03132025	N/A	N/A	N/A	N/A	100	N/A
Q1569-02	TAP-IDW-SOIL-031325-01	N/A	N/A	N/A	N/A	100	N/A
Q1569-05	TAP-IDW-SOIL-031325-02	N/A	N/A	N/A	N/A	100	N/A
Q1574-02	WC1	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167133

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167133TB	LEB133	N/A	N/A	N/A	N/A	#1	4.93
Q1507-04	50-MIDDLESEX-AVE	5.02	96.5	7.0	2.5	#1	4.93
Q1568-04	JC-03-03132025	5.01	96.5	7.0	2.5	#1	4.93
Q1569-02	TAP-IDW-SOIL-031325-01	5.03	96.5	6.8	2.0	#1	4.93
Q1569-05	TAP-IDW-SOIL-031325-02	5.04	96.5	10.0	4.0	#1	4.93
Q1574-02	WC1	5.03	96.5	6.8	2.0	#1	4.93

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

Prep Standard - Chemical Standard Summary

Order ID : Q1569

Test : TCLP ICP Metals,TCLP Mercury

Prepbatch ID : PB167161,PB167166,

Sequence ID/Qc Batch ID: LB135063,LB135063,LB135064,LB135083,LB135182,LB135182,

Standard ID :
MP84563,MP84564,MP84565,MP84566,MP84636,MP84637,MP84638,MP84639,MP84640,MP84643,MP84644,MP84646,MP84649,MP84650,MP84720,MP84721,MP84845,MP84846,MP84881,MP84882,MP84883,MP84884,MP84885,MP84886,MP84887,MP84889,MP84890,MP84891,MP84892,MP84893,MP84894,MP84898,

Chemical ID :
M4371,M4465,M4883,M4891,M4916,M5062,M5218,M5288,M5296,M5395,M5429,M5467,M5472,M5497,M5532,M5658,M5697,M5698,M5747,M5748,M5769,M5789,M5792,M5798,M5799,M5800,M5801,M5806,M5808,M5811,M5814,M5815,M5816,M5817,M5820,M5875,M5882,M5884,M5959,M5970,M5978,M5985,M6003,M6012,M6021,M6023,M6028,M6030,M6032,M6041,M6077,M6126,M6137,M6146,M6150,M6151,M6152,M6155,M6156,M6158,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3965	2:1 H2SO4 : HNO3	MP84563	02/18/2025	06/03/2025	Mohan Bera	None	None	Janvi Patel 02/19/2025

FROM 1600.00000ml of M6041 + 800.00000ml of M6126 = Final Quantity: 3200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP84564	02/18/2025	08/18/2025	Mohan Bera	None	None	Janvi Patel 02/19/2025

FROM 100.00000gram of M4916 + 2000.00000ml 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
66	POTASSIUM PERSULFATE SOLUTION 5 %	MP84565	02/18/2025	08/06/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Janvi Patel 02/19/2025

FROM 100.00000ml of M4465 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP84566	02/18/2025	06/25/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Janvi Patel 02/19/2025

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = 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
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

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

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Metals STANDARD PREPARATION LOG

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

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

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Metals STANDARD PREPARATION LOG

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

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

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Metals STANDARD PREPARATION LOG

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

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

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Metals STANDARD PREPARATION LOG

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

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

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Metals STANDARD PREPARATION LOG

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

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

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Metals STANDARD PREPARATION LOG

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

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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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP84881	03/17/2025	03/18/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 1.00000ml of M6158 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP84882	03/17/2025	03/18/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 247.50000ml of W3112 = 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
1341	Hg 0.2 PPB STD	MP84883	03/17/2025	03/18/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 247.30000ml of W3112 + 0.20000ml of MP84881 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP84884	03/17/2025	03/18/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 245.00000ml of W3112 + 2.50000ml of MP84881 = 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
1343	Hg 5.0 PPB STD	MP84885	03/17/2025	03/18/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 247.50000ml of W3112 + 5.00000ml of MP84881 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP84886	03/17/2025	03/18/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 240.00000ml of W3112 + 7.50000ml of MP84881 = 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
1345	Hg 10.0 PPB STD	MP84887	03/17/2025	03/18/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 237.50000ml of W3112 + 10.00000ml of MP84881 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP84889	03/17/2025	03/18/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M5532 + 2.50000ml of M6158 + 245.00000ml of W3112 = 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
1351	ICB (Hg 0.00 PPB SOLUTION)	MP84890	03/17/2025	03/18/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP84891	03/17/2025	03/18/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6158 + 10.00000ml of MP84881 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP84892	03/17/2025	03/18/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 495.00000ml of W3112 + 5.00000ml of M6158 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1349	CRA/CRI (Hg 0.2 PPB SOLUTION)	MP84893	03/17/2025	03/18/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 247.30000ml of W3112 + 0.20000ml of MP84881 = 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
1350	CHK STD (Hg 7.0 PPB SOLUTION)	MP84894	03/17/2025	03/18/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 03/22/2025

FROM 2.50000ml of M6158 + 240.50000ml of W3112 + 7.00000ml of MP84881 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP84898	03/18/2025	03/19/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 03/22/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6151 = Final Quantity: 500.000 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 #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3238-05 / Potassium Persulfate (2.5kg)	0000234156	08/06/2025	07/23/2019 / jaswal	07/25/2019 / manojkumar	M4465

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 #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

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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	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

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

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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.	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 #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	03/31/2025	01/02/2025 / jaswal	03/30/2023 / mohan	M5532

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

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

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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.	/ 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

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

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

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

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

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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.	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

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

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

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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

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	09/17/2025	03/17/2025 / Eman	05/14/2024 / Jaswal	M6012

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

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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.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

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

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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	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

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	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	03/25/2029	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

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CHEMICAL RECEIPT LOG BOOK

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

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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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)

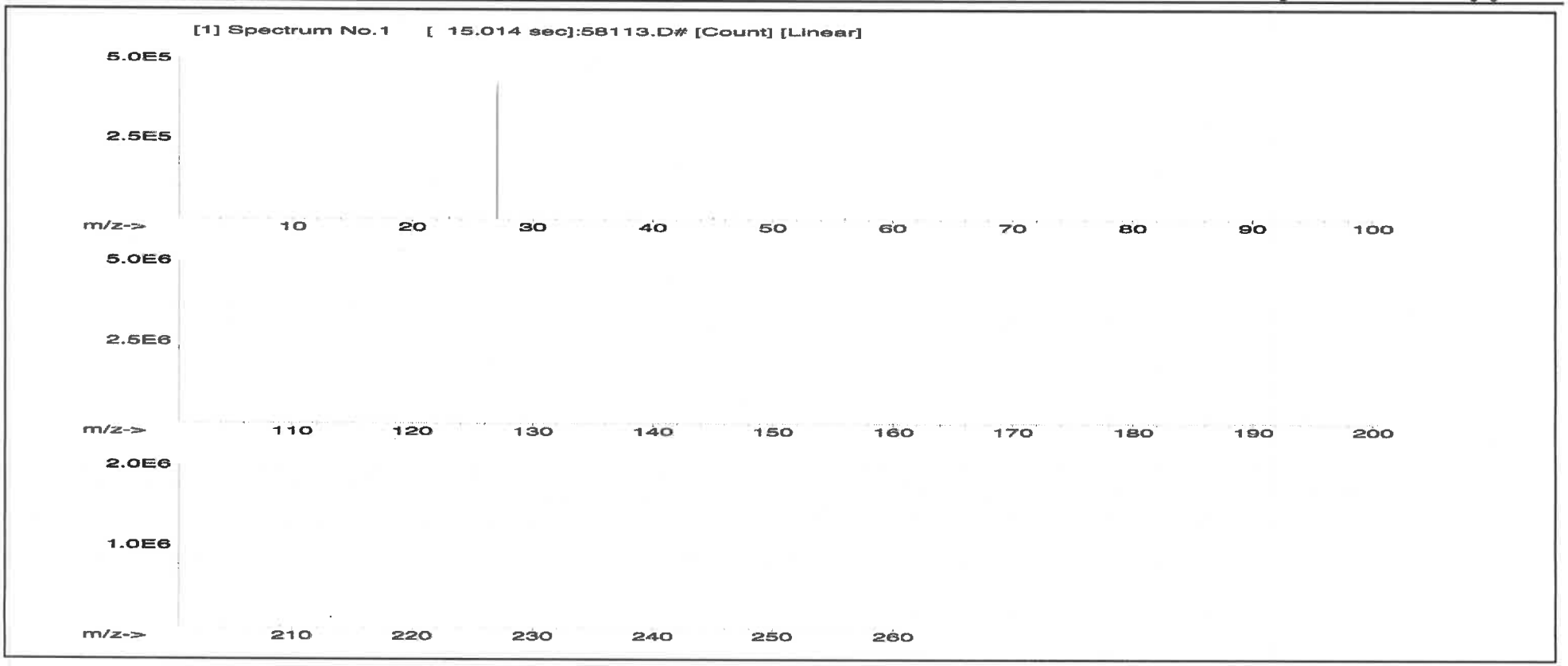
Expiration Date: 122926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	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



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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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M6032

R 8/5/24

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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		

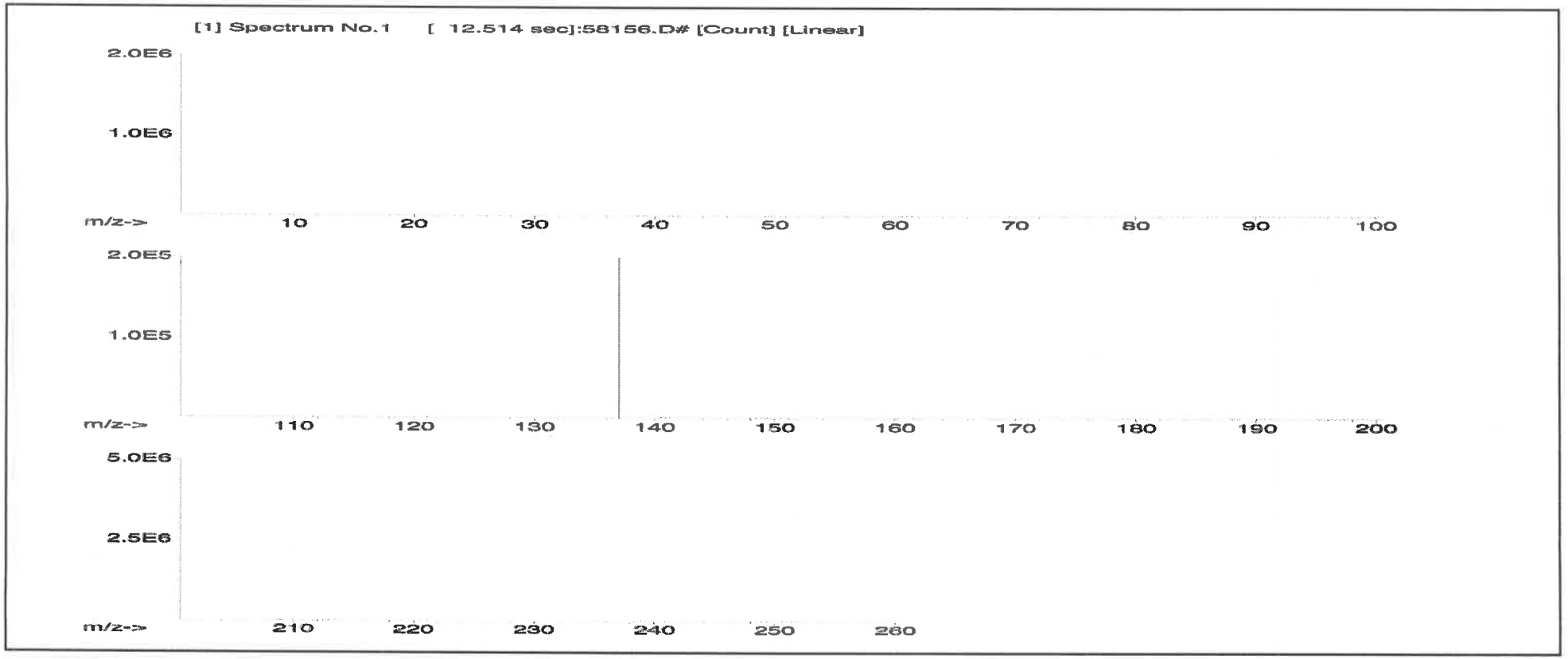
Giovanni Esposito

Formulated By:	Giovanni Esposito	010924

Pedro Rentas

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



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Q1569-METALS

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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 Reference Material CRM

M6028

R 8/15/24

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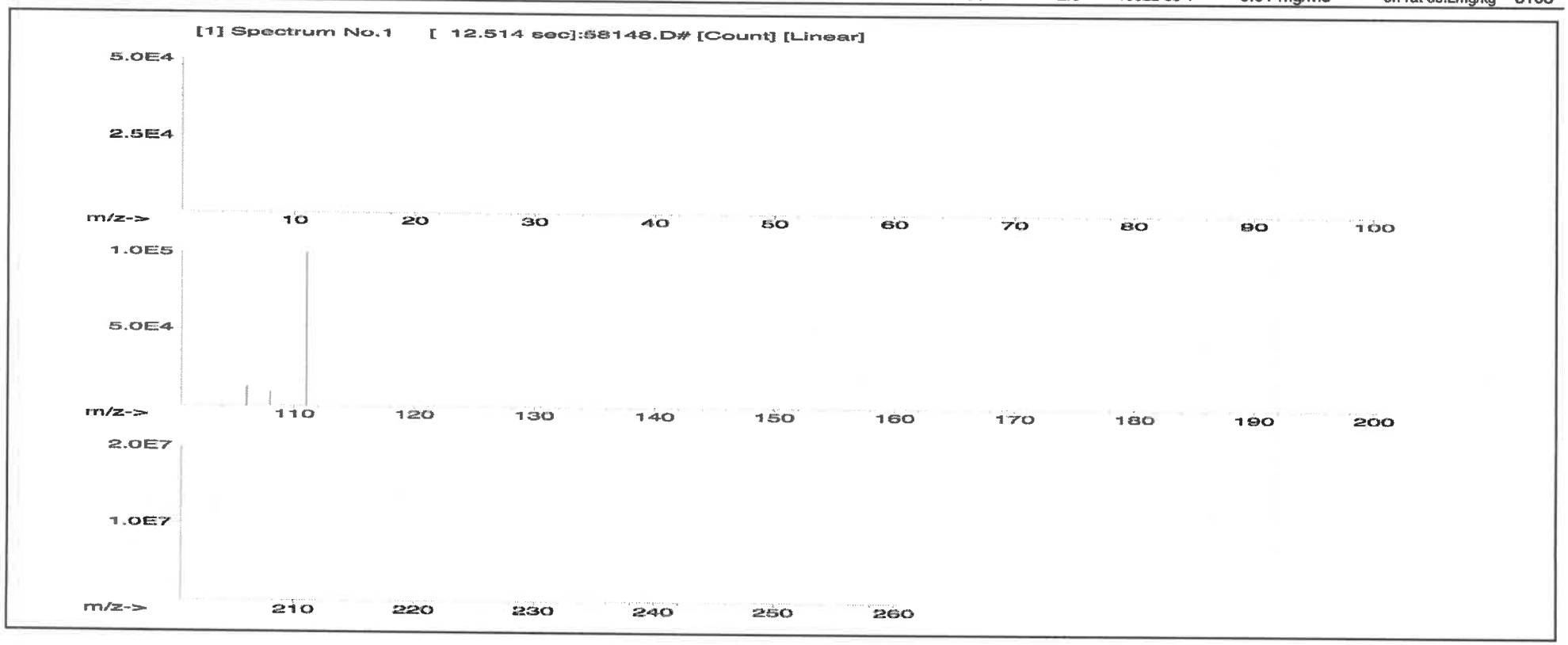
CERTIFIED WEIGHT REPORT:

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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:

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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Certificate of Analysis

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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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

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Certificate of Analysis

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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:	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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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"

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- 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

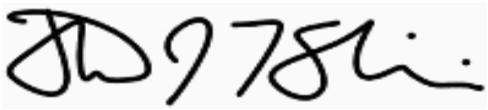
- Sealed TCT Bag Open Date: _____

- 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:

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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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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.

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- 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

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

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

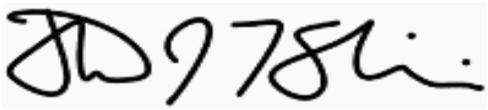
- Sealed TCT Bag Open Date: _____

- 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

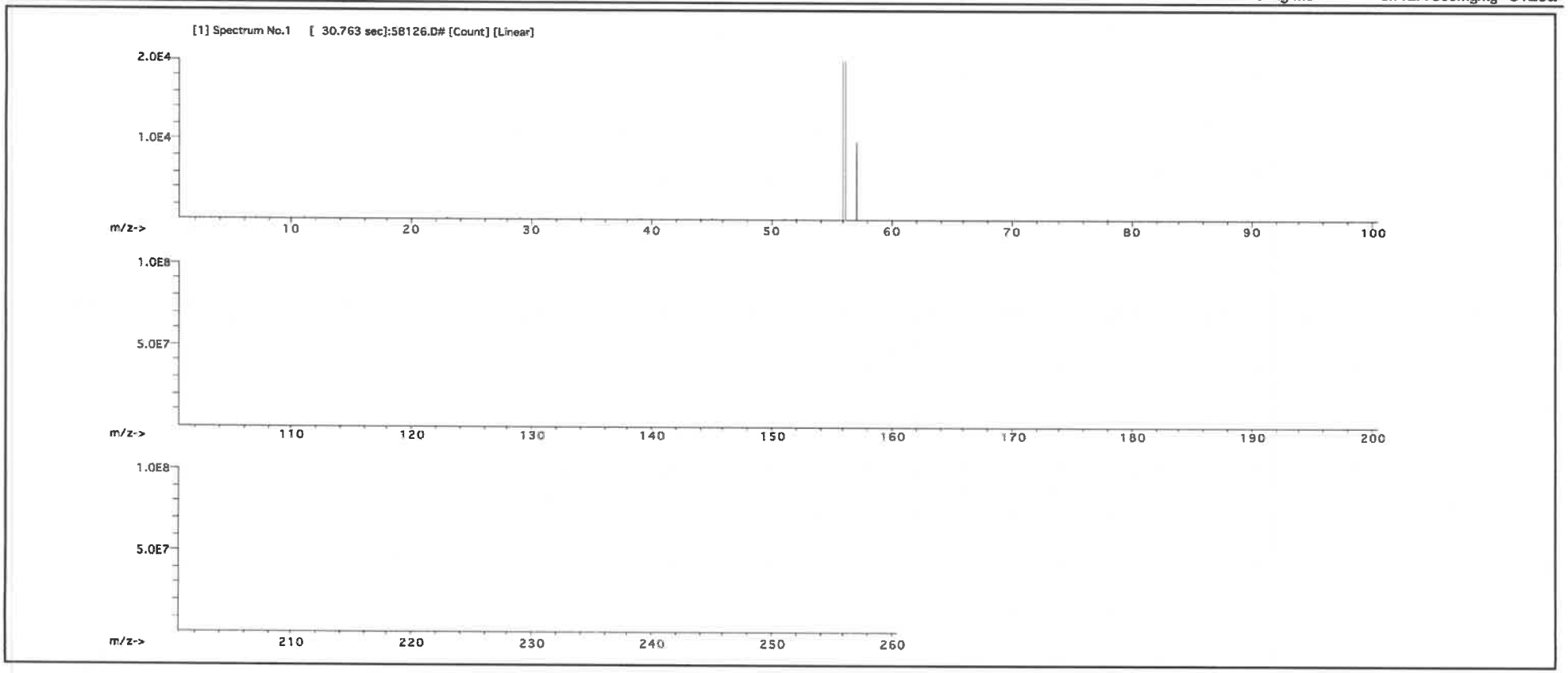
CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**58126**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**051523**			
Description:	**Iron (Fe)**	5.0%	250.0 (mL)	Nitric Acid
Expiration Date:	051526			
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):	5000.1	0.12	Flask 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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

Refine your results. Redefine your industry.

Certificate of Analysis

RD:05/14/2024

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
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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:	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

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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

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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

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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

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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 °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	

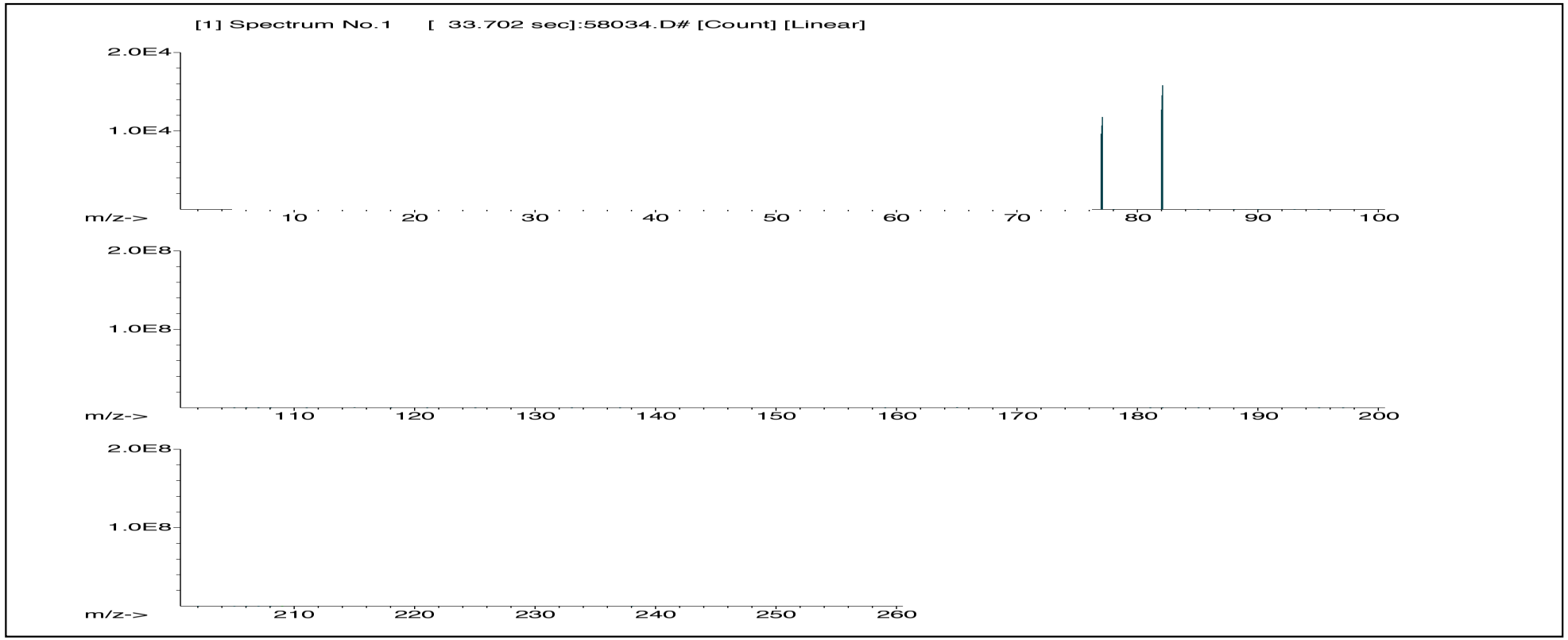
Giovanni Esposito

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



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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).

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Certified Reference Material CRM

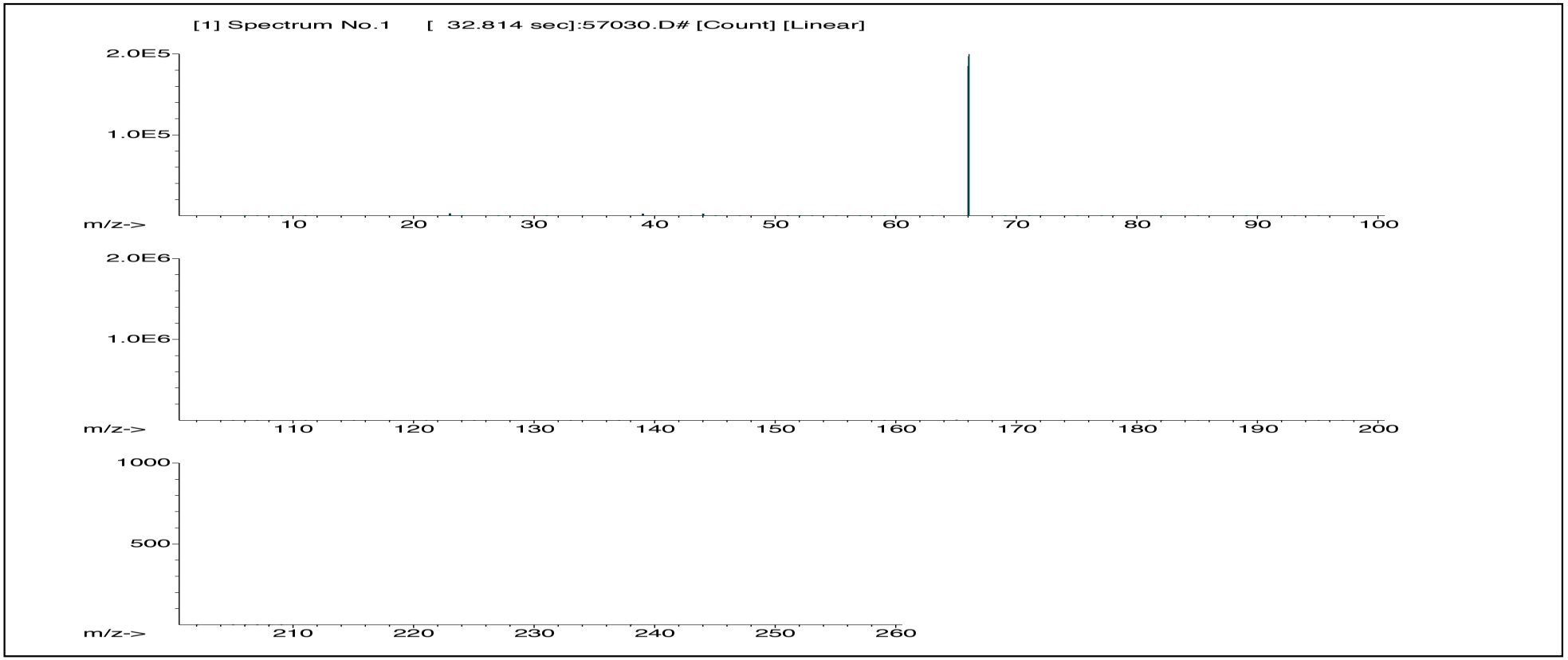
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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 °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:	Giovanni Esposito	031921
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



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.
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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).

ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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

M5062
M5063
M3

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 Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

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 - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

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 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

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

September 22, 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

- September 22, 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 Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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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

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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:	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.

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$X_{CRM/RM} = \Sigma(w_i)(X_i)$

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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5288 R: 07/21/2022

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

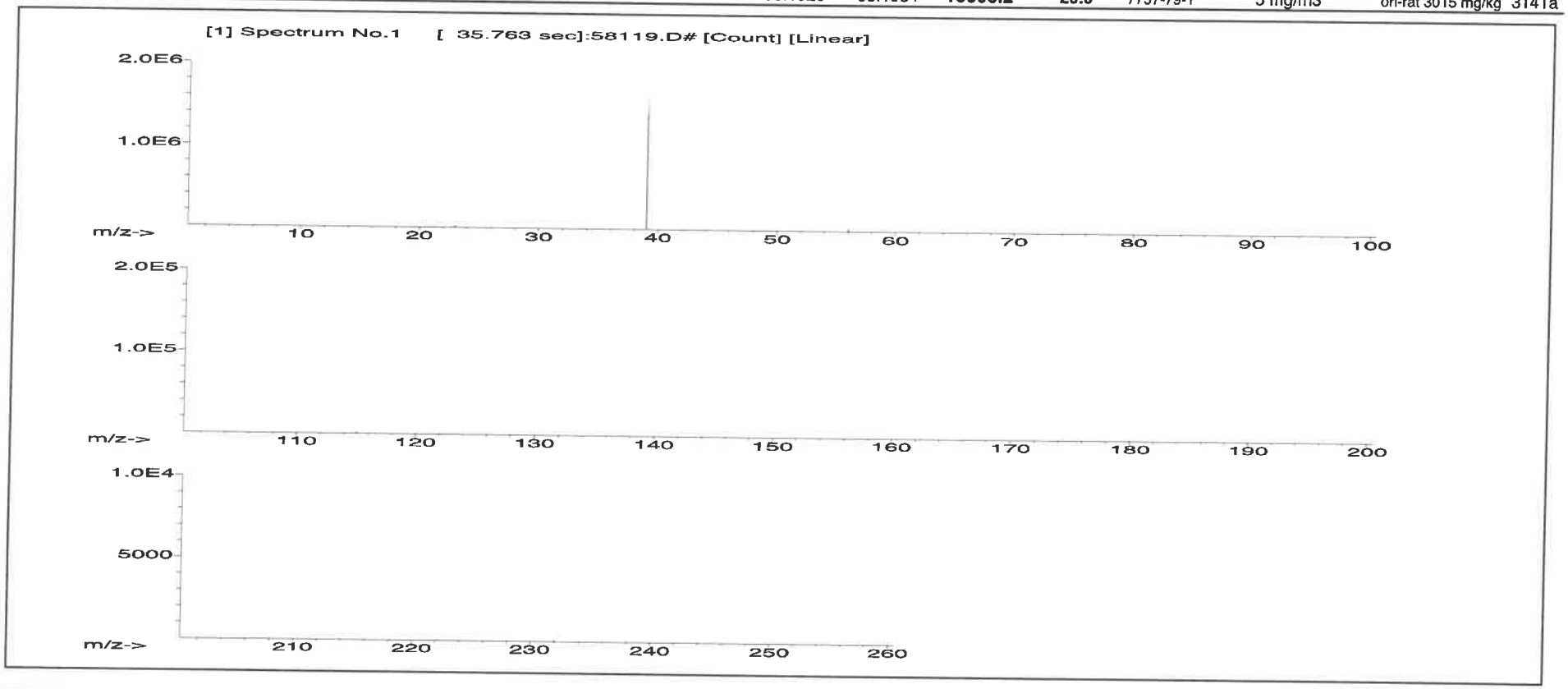
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5429 R1 01/26/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

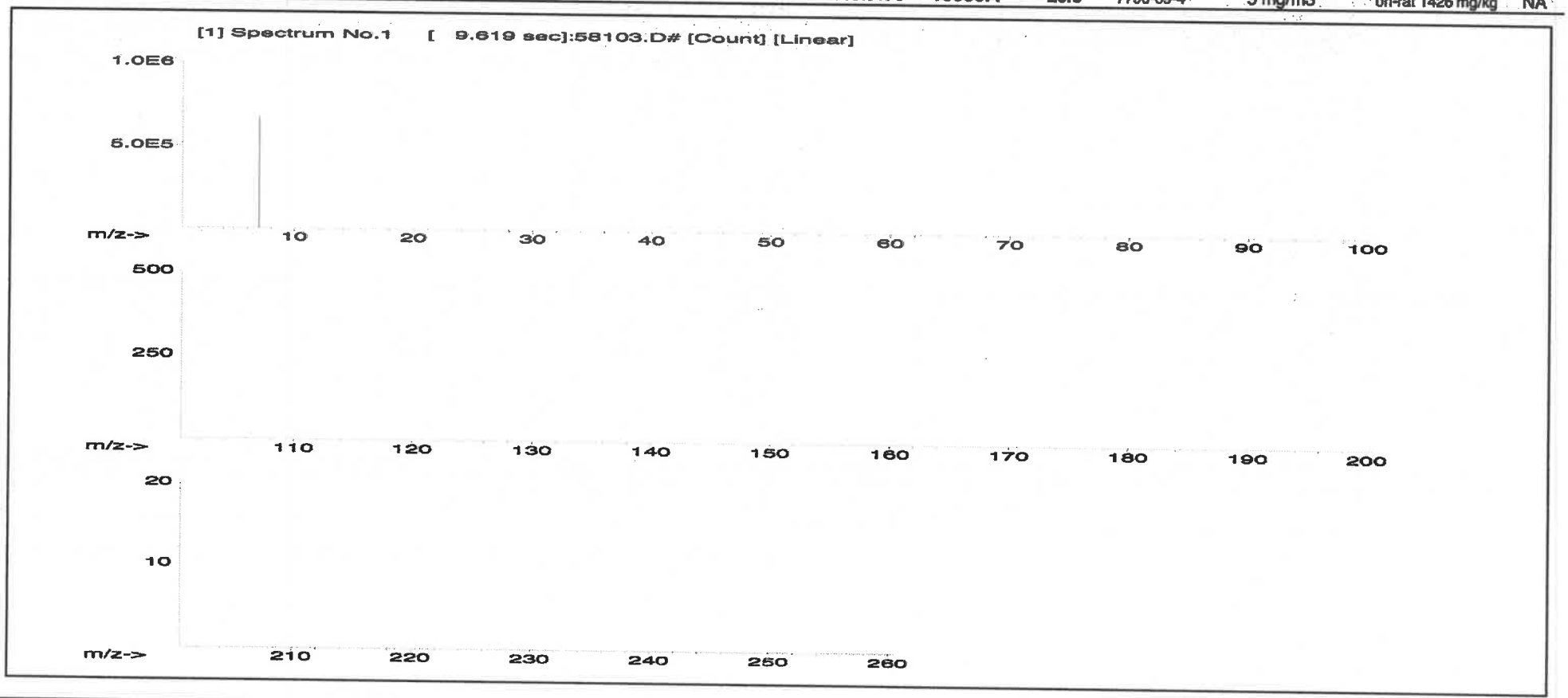
Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

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	5E-05	Balance Uncertainty
2%	20.0 (mL)	Nitric Acid	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



QUALITY-METALS

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.
* 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

M5467 R: 03/01/23 (LA)

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

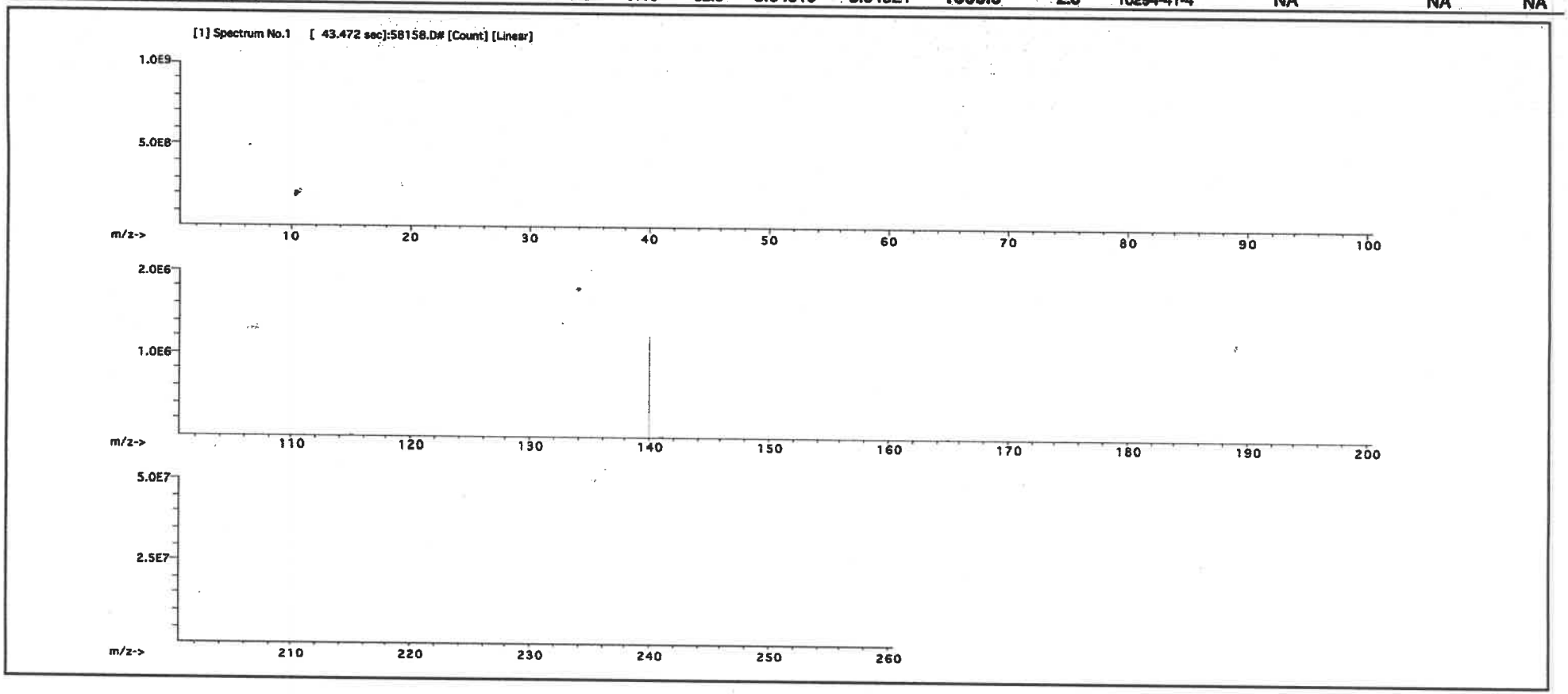
Weight shown below was diluted to (mL): 1000.12 ± 0.058 Flask Uncertainty

		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



21369-METALS

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.
* 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

IN5497 - IN5498 R: 03/17/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

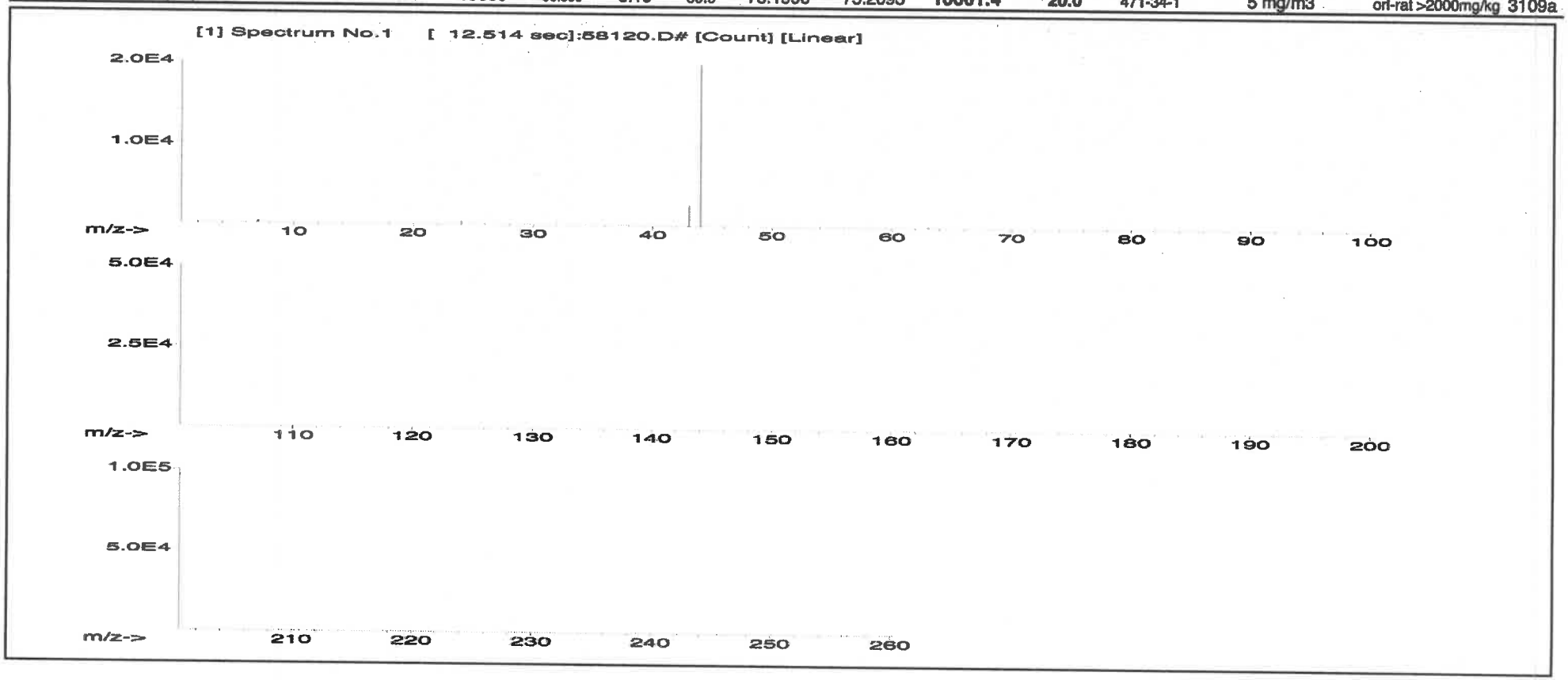
	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask 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.
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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).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

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.

MSS28-37
MB

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.

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

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

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M5658 R ! 8/25/23

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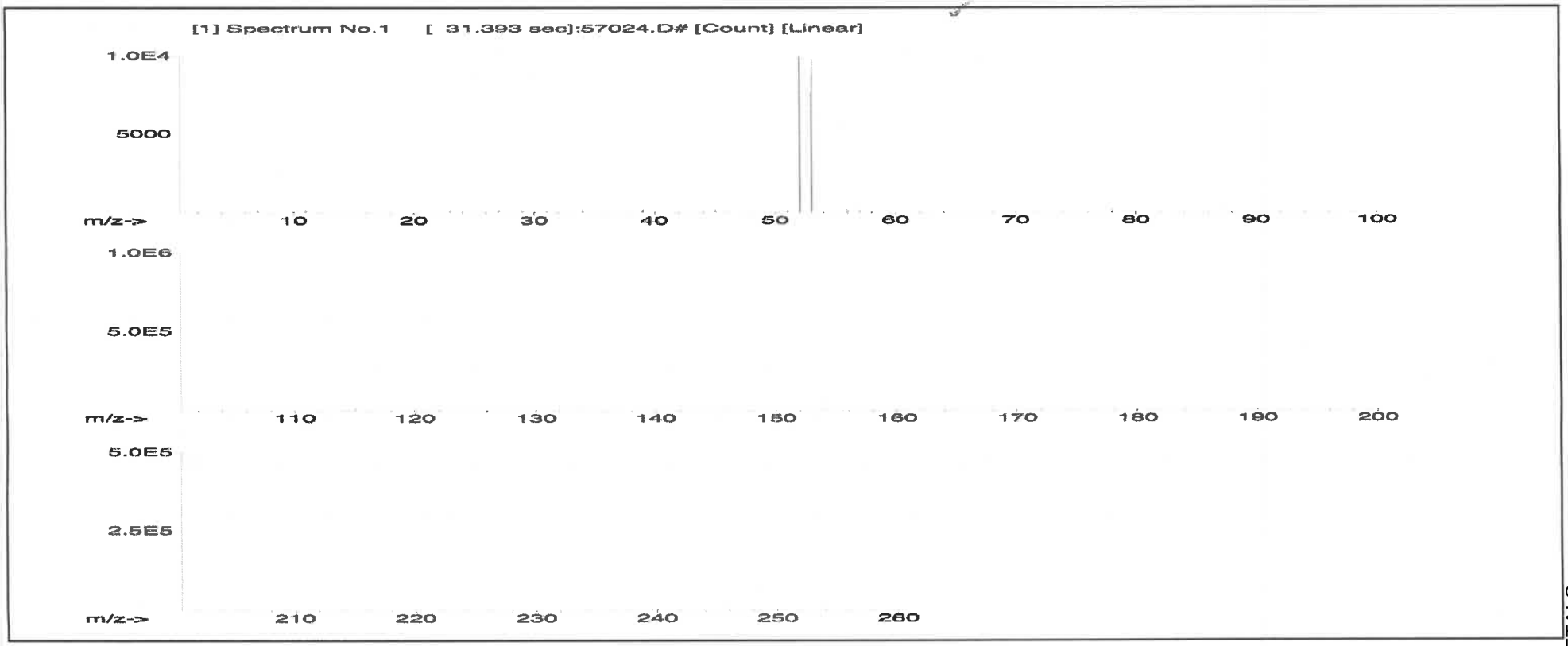
CERTIFIED WEIGHT REPORT:

		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



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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.

* 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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M5697 R: 10/27/23

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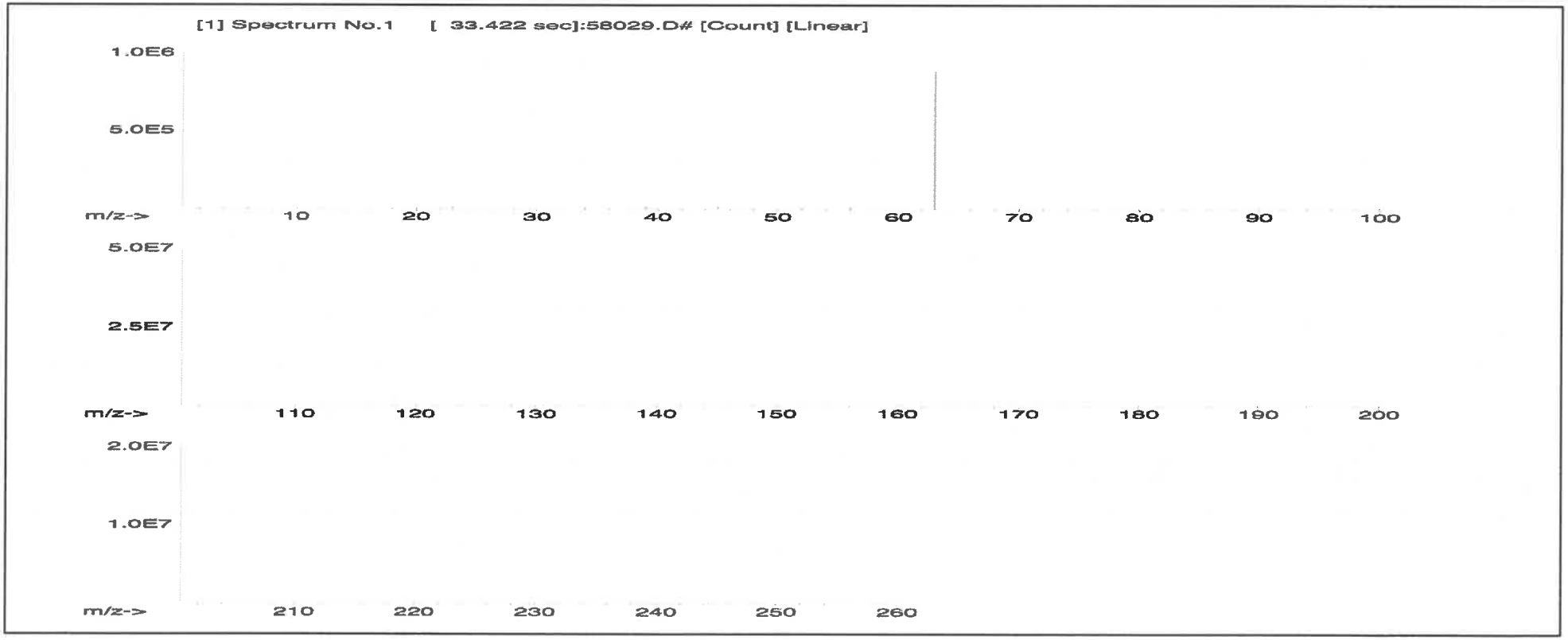
CERTIFIED WEIGHT REPORT:

		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



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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.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
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M5648 R: 10/27/23

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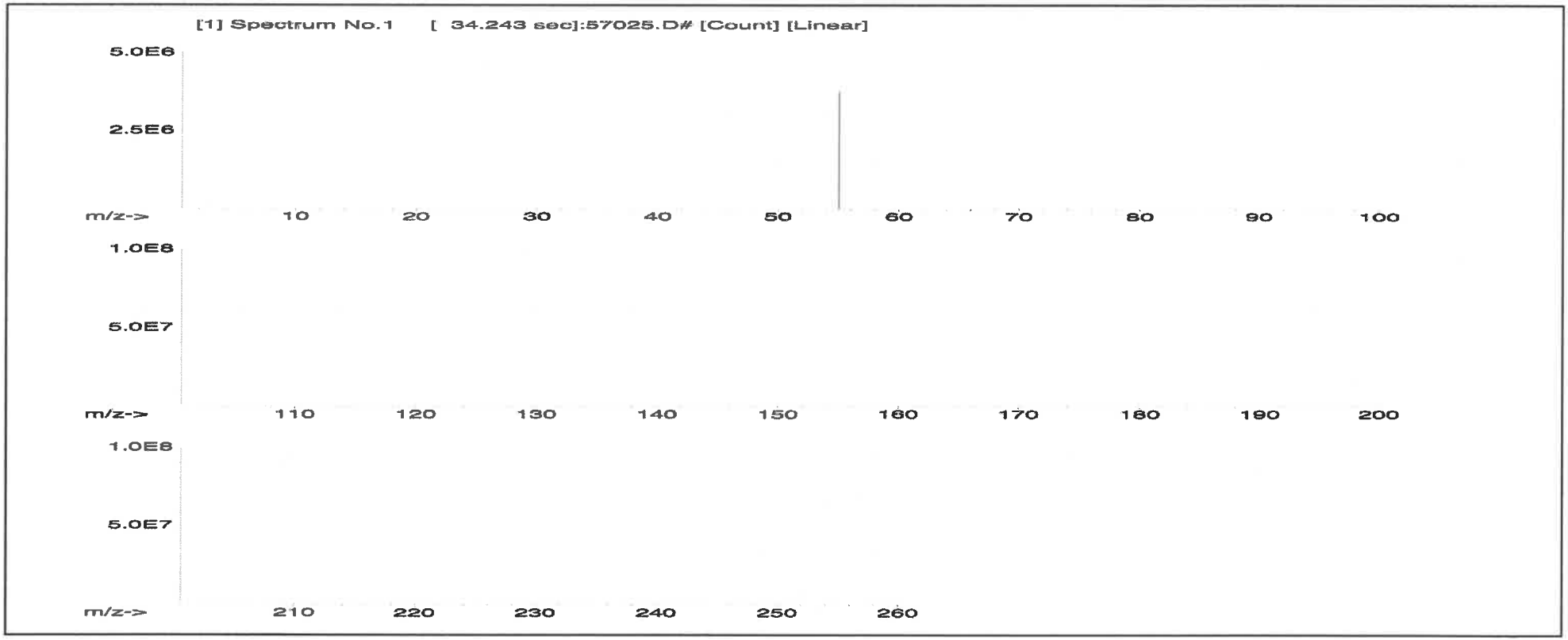
CERTIFIED WEIGHT REPORT:

		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



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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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Certified Reference Material CRM

R: 12/20/23 M5747

ANAB ISO 17034 Accredited
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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

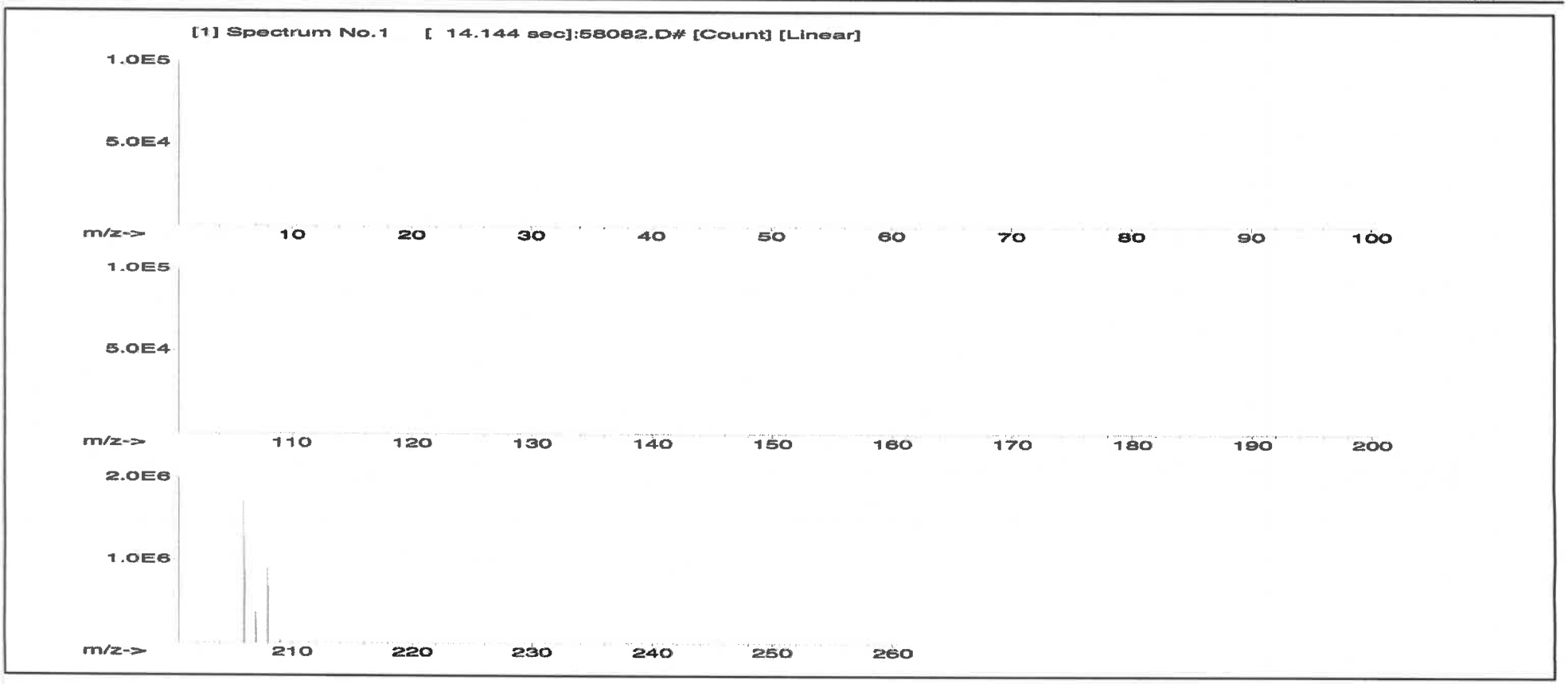
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	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



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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.

* 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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R: 12/20/23 M5748

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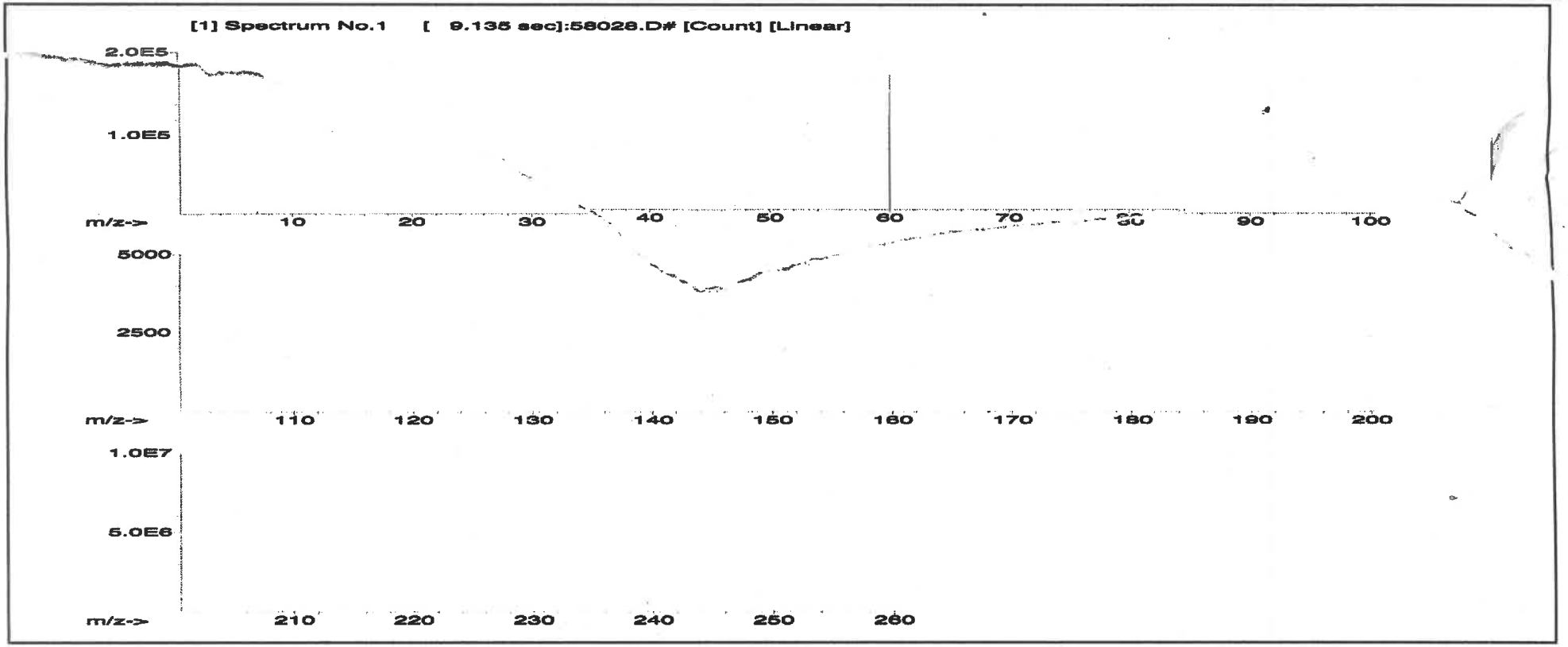
CERTIFIED WEIGHT REPORT:

		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



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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.

* 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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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
Weight shown below was diluted to (mL): 2000.02 ± 0.058 Flask Uncertainty

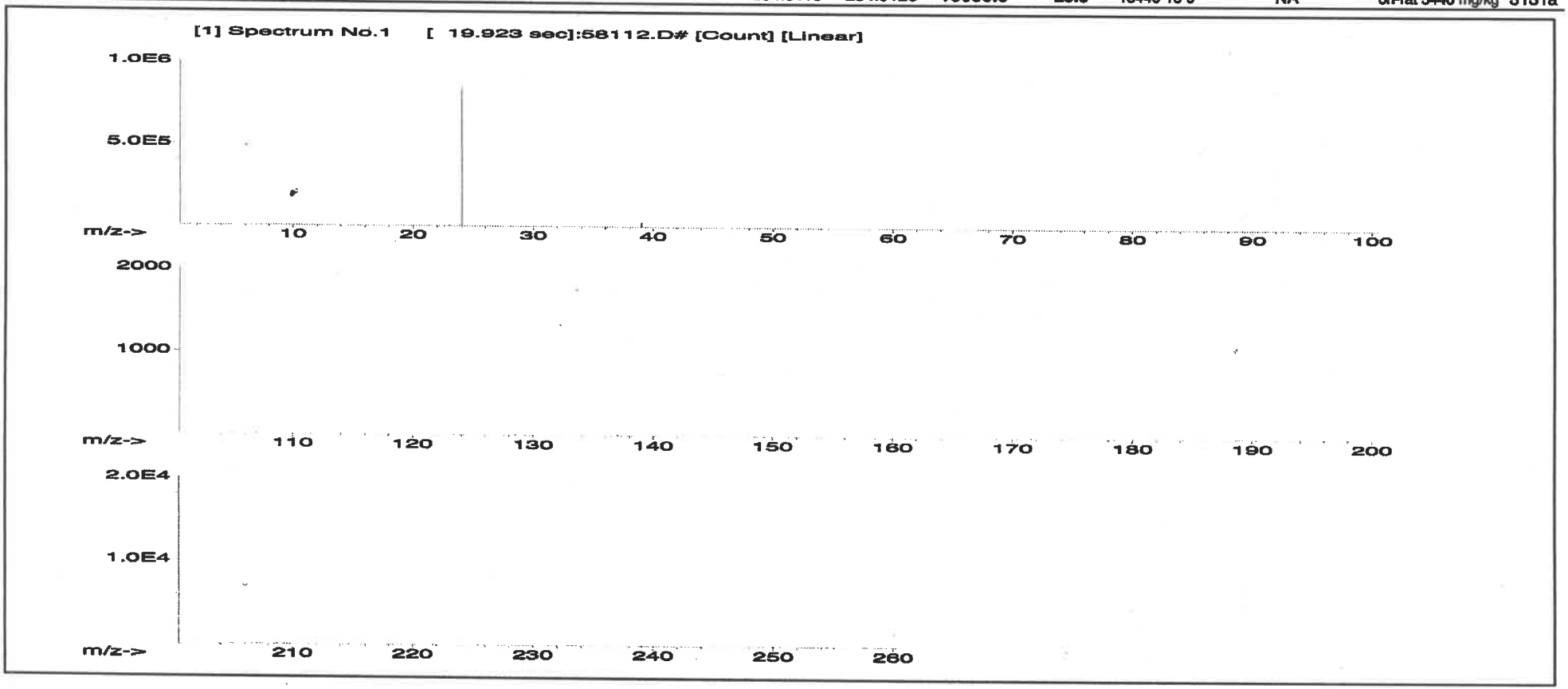
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

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



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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:

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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R: 02/09/24 M5798

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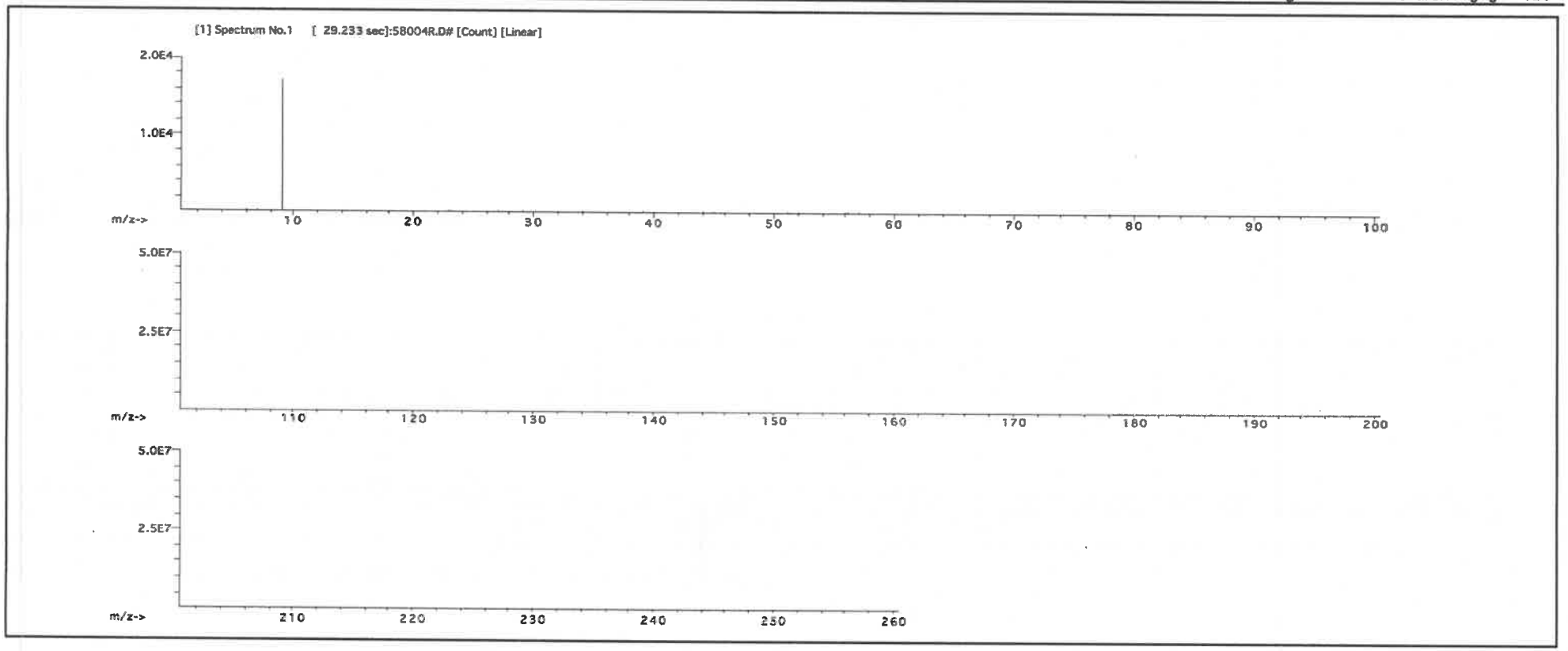
CERTIFIED WEIGHT REPORT:

		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



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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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R? 02/09/24 IM5799

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CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

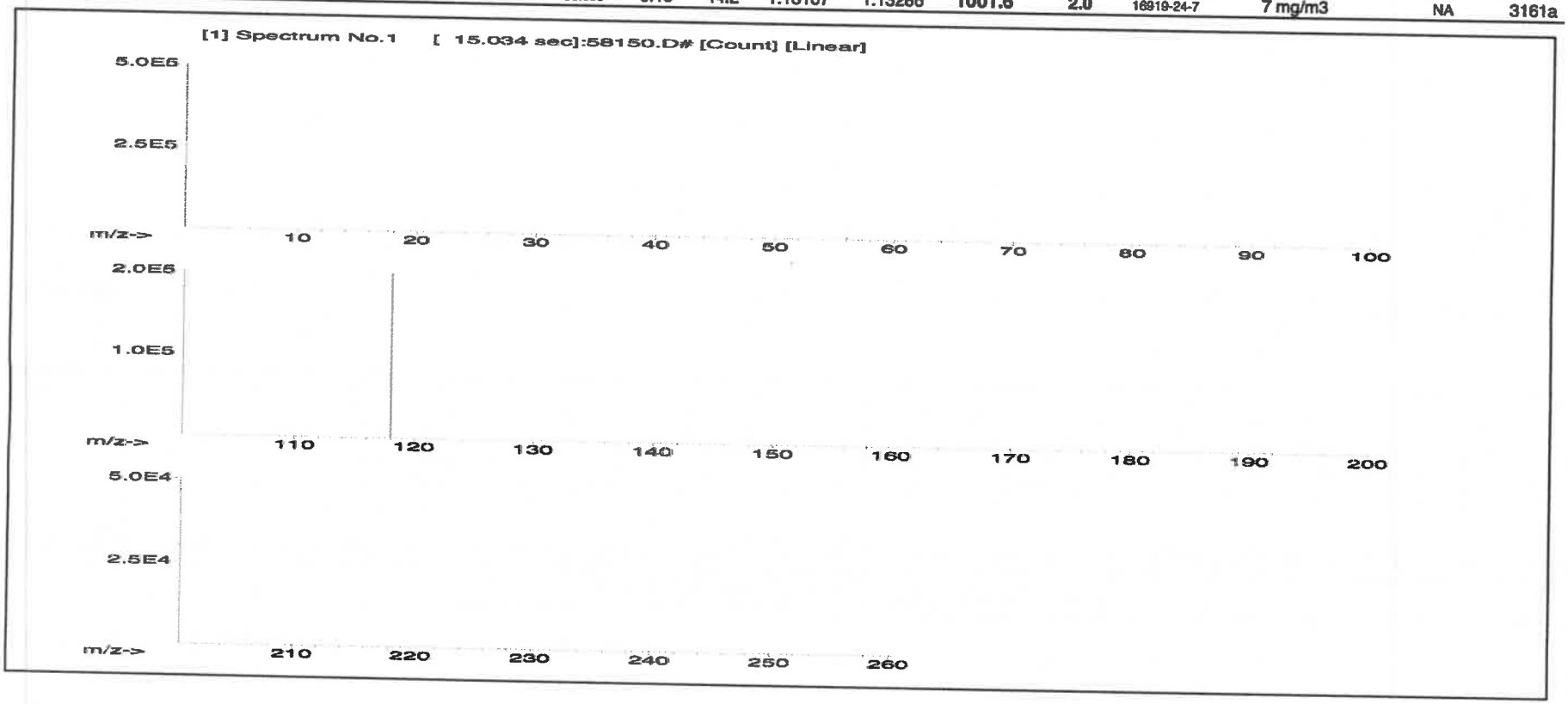
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

Solvents:	Lot #	
	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



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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:

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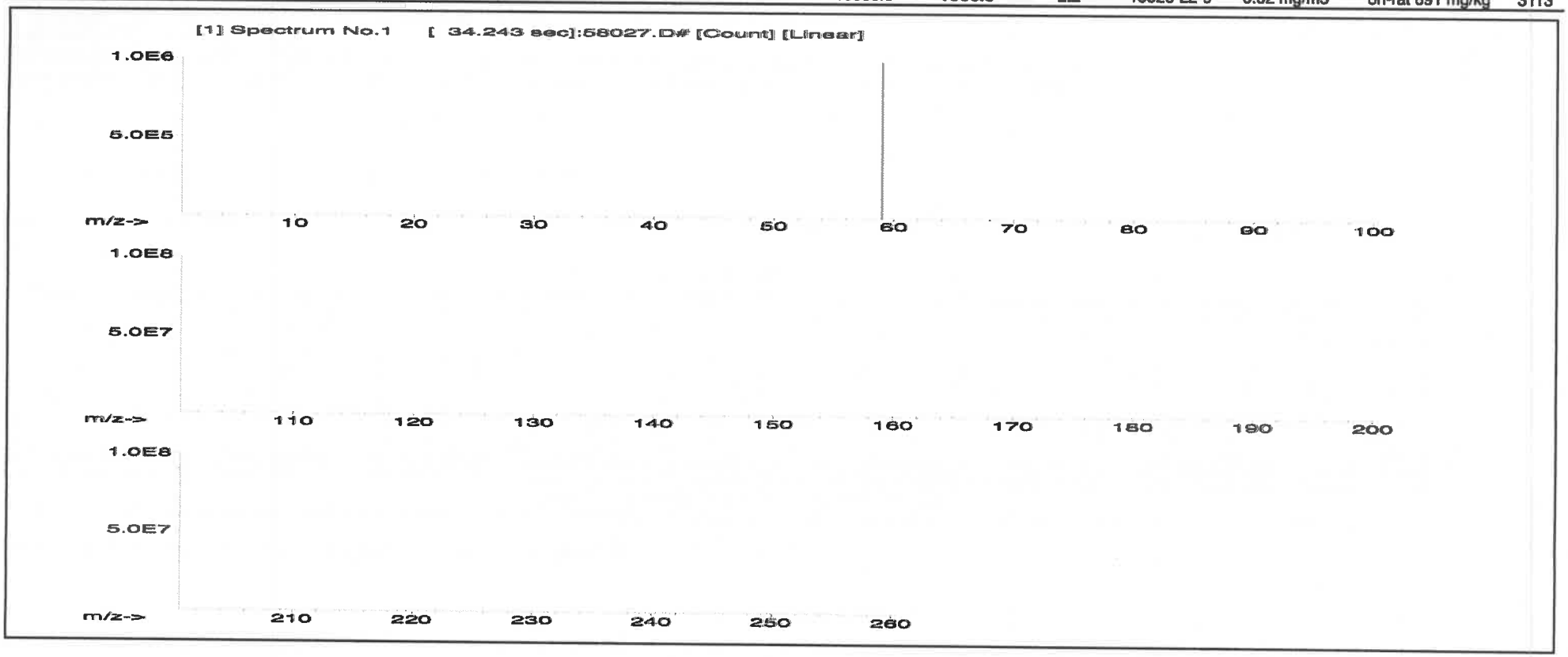
CERTIFIED WEIGHT REPORT:

		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



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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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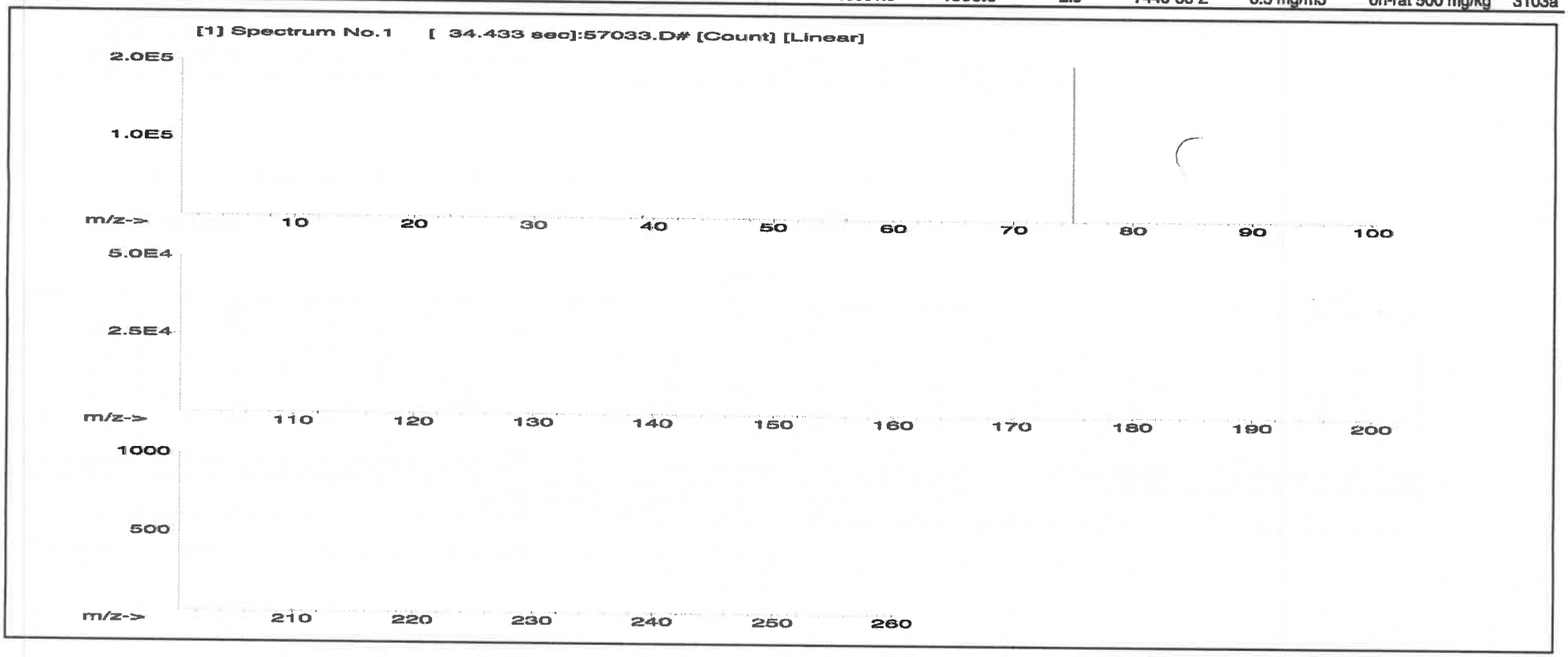
CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
Lot Number:	**111323**	24002546	Nitric Acid		
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



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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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A: 02/09/24 M.5814

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CERTIFIED WEIGHT REPORT:

Part Number: 57005
Lot Number: 071123
Description: Boron (B)

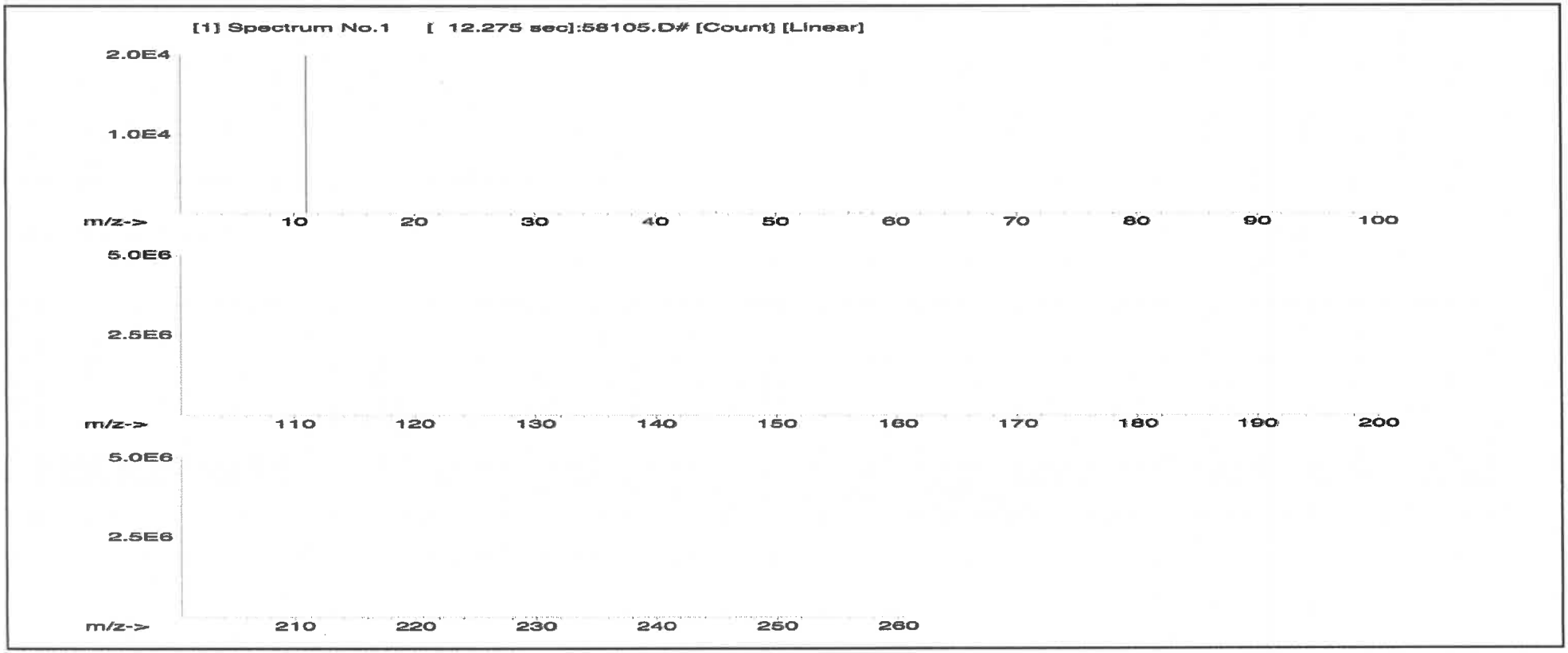
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

	Lot #			
Solvent:	MKBQ8597V	Ammonium hydroxide		
	2.0%	40.0 (mL)	Ammonium hydroxide	
		5E-05	Balance 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



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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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R1 02/09/24. M58165

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CERTIFIED WEIGHT REPORT:

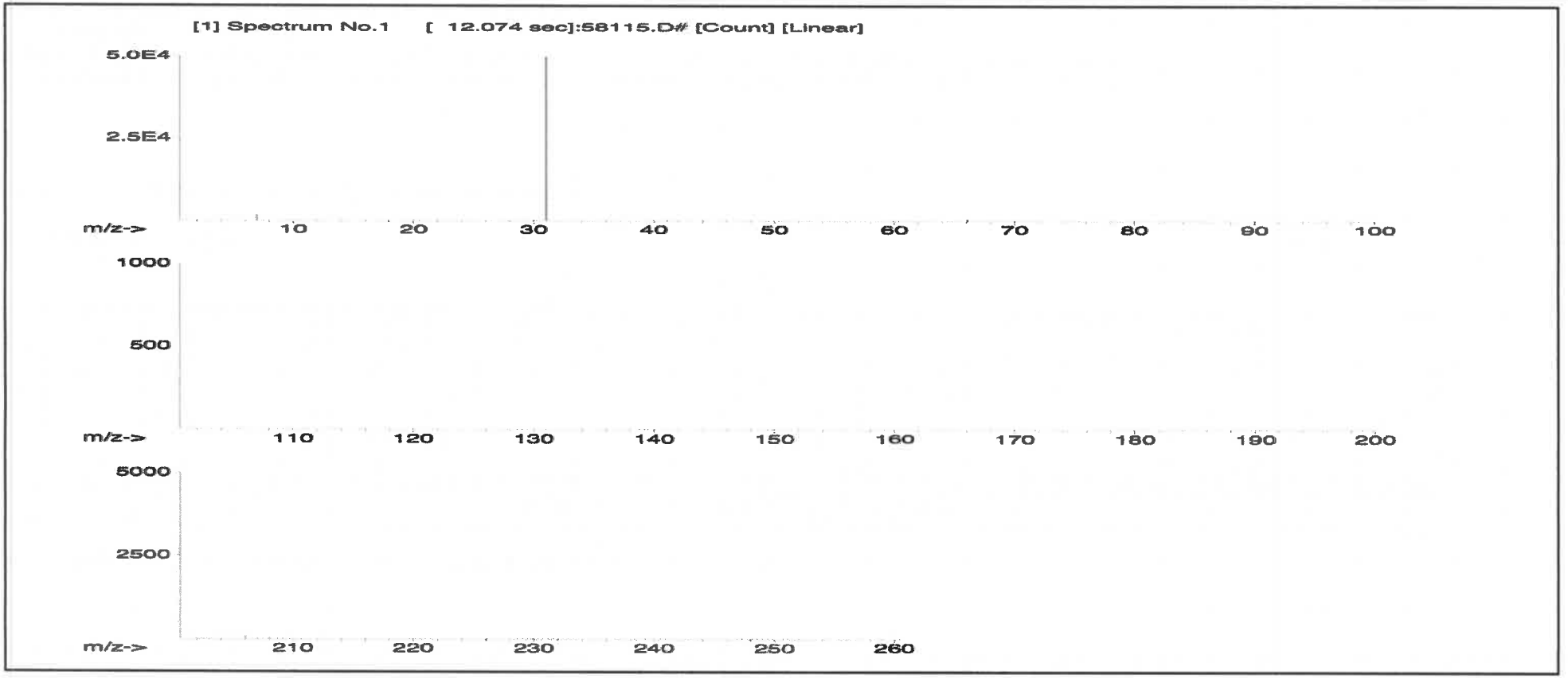
Part Number: 57115
Lot Number: 041723
Description: Phosphorous (P)

Expiration Date: 041726
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:	21110221	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	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



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Certified Reference Material CRM

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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.
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Certified Reference Material CRM

R: 02/09/24 M5816

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CERTIFIED WEIGHT REPORT:

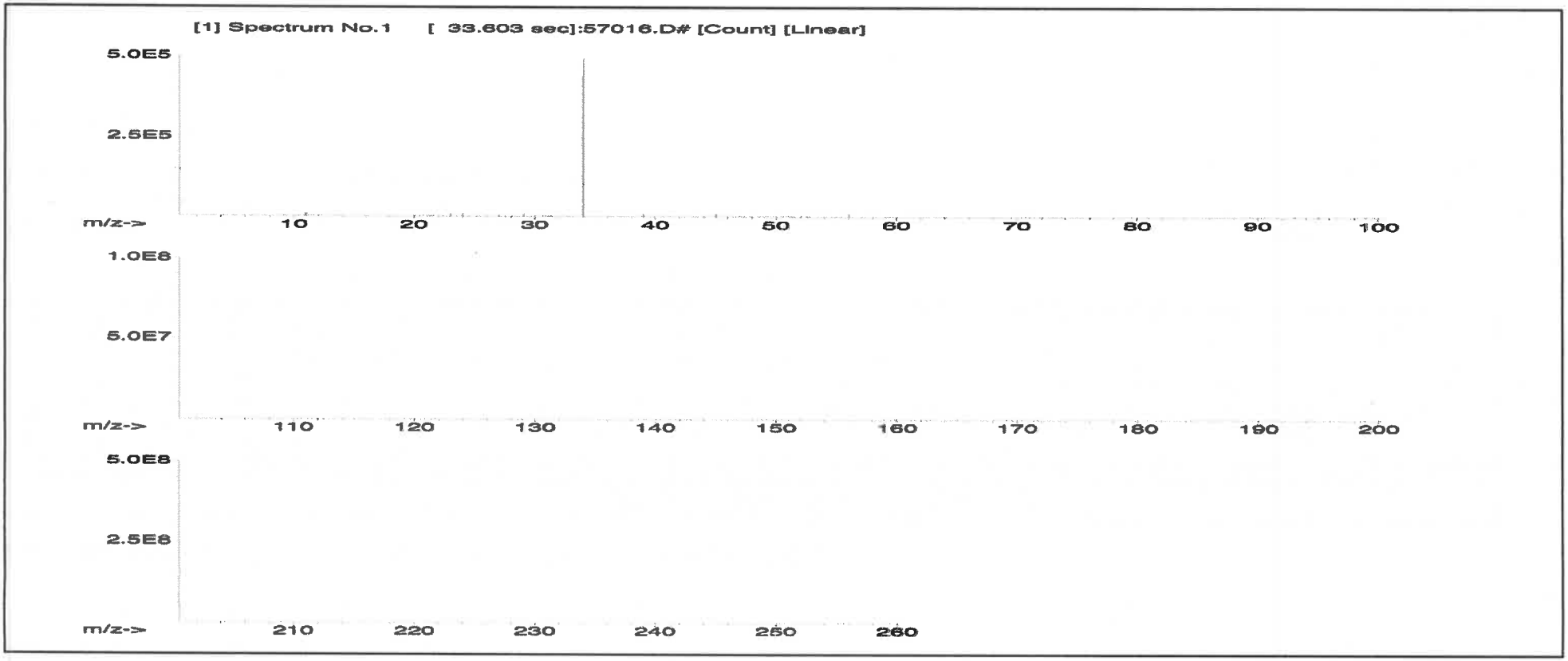
Part Number: 57016
Lot Number: 122923
Description: Sulfur (S)

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

	Lot #	
Solvent:	122923	ASTM Type 1 Water

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



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AR-1539 Certificate Number
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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 M5817

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

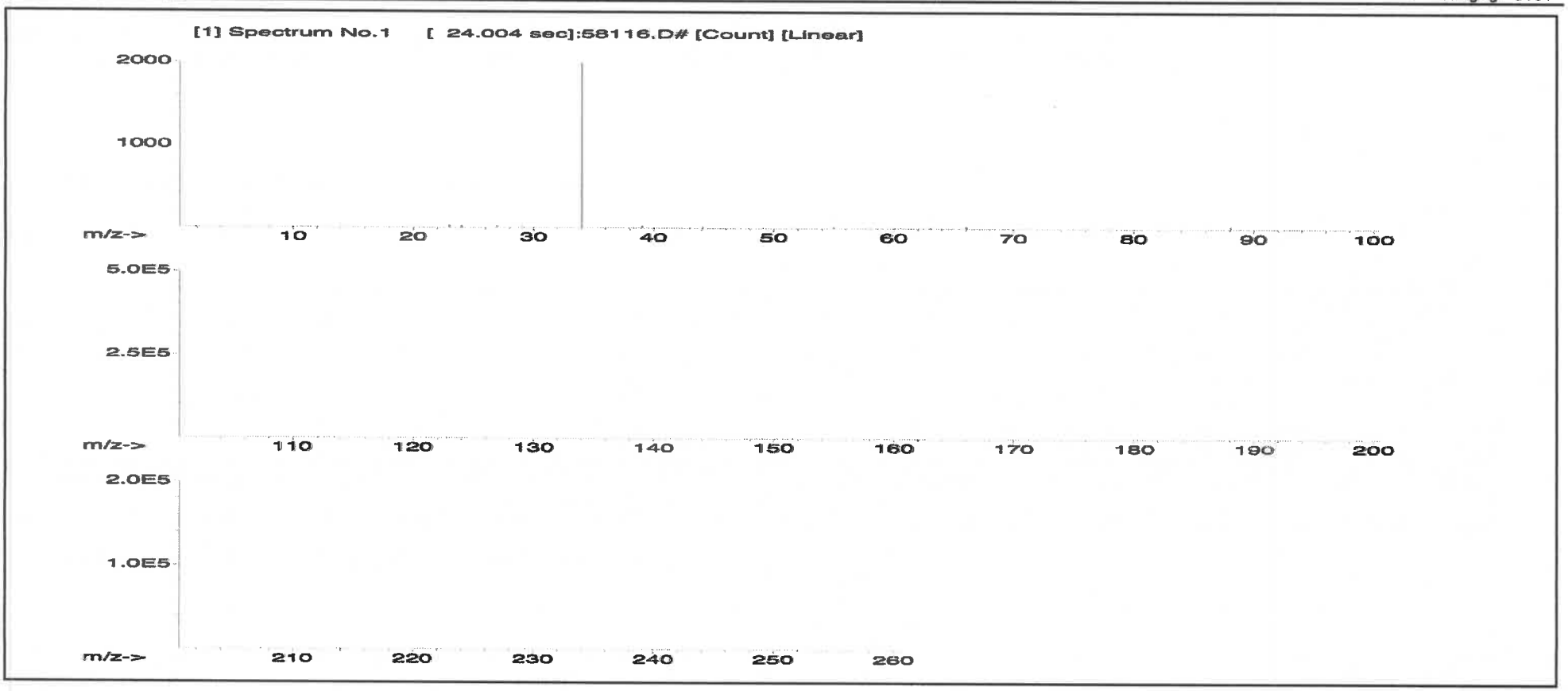
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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	ori-rat 4250mg/kg	3181



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Certified Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

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:

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R: 02/09/24 M5820

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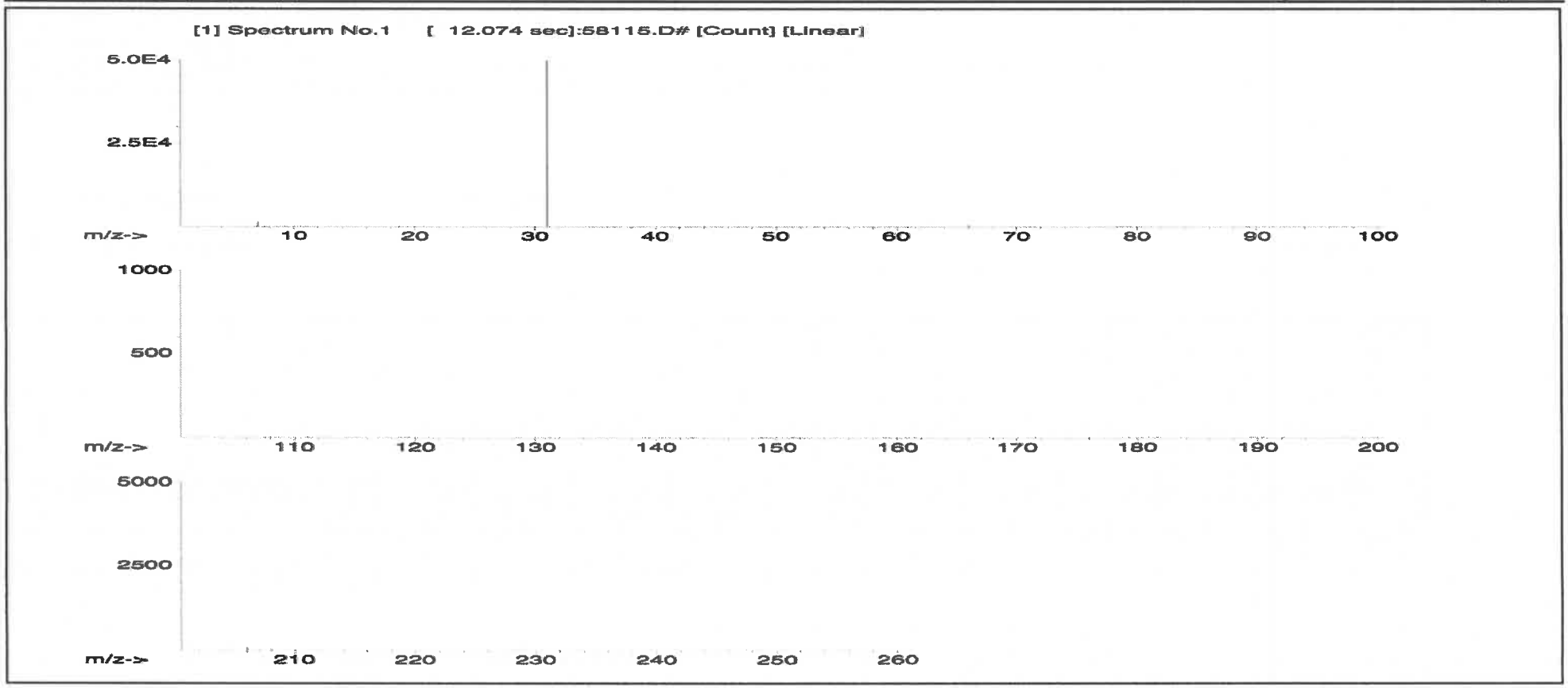
CERTIFIED WEIGHT REPORT:

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



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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:

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Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

MF884
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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Certificate of Analysis

M5959 R: 6/14/24.

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:	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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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	<	0.004600	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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5970, M5971 R: 7/01/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57003
Lot Number: 062124
Description: Lithium (Li)
Expiration Date: 062127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 250.11

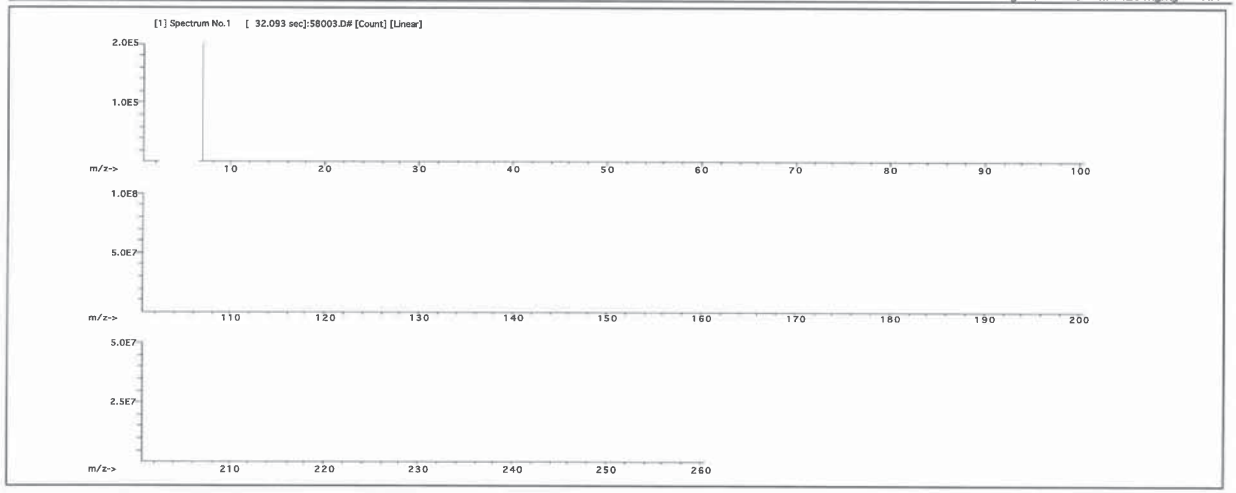
Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	5.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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).

MS978, MS979

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R: 2/22/24

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 865.01

ACCREDITED Reference Material Producer Certificate 865.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGT11
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 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:

$$X_{CRM/RM} = \sum(w_i)\,(x_i)$$

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

$$w_i = (1/u_{char\ i})^2 \,/\, (\sum(1/u_{char\ i})^2)$$

CRM/RM Expanded Uncertainty ($\pm$) = $u_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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 ($\pm$) = $u_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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	<	0.000536	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 for months in 1% 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

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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 property 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 Kozlkowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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MS985
R: 6/14/24

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 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

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M 6041-46
MS

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

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
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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

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

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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info@inorganicventures.com

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M6156

Certified Reference Material CRM

R→ 6/12/24

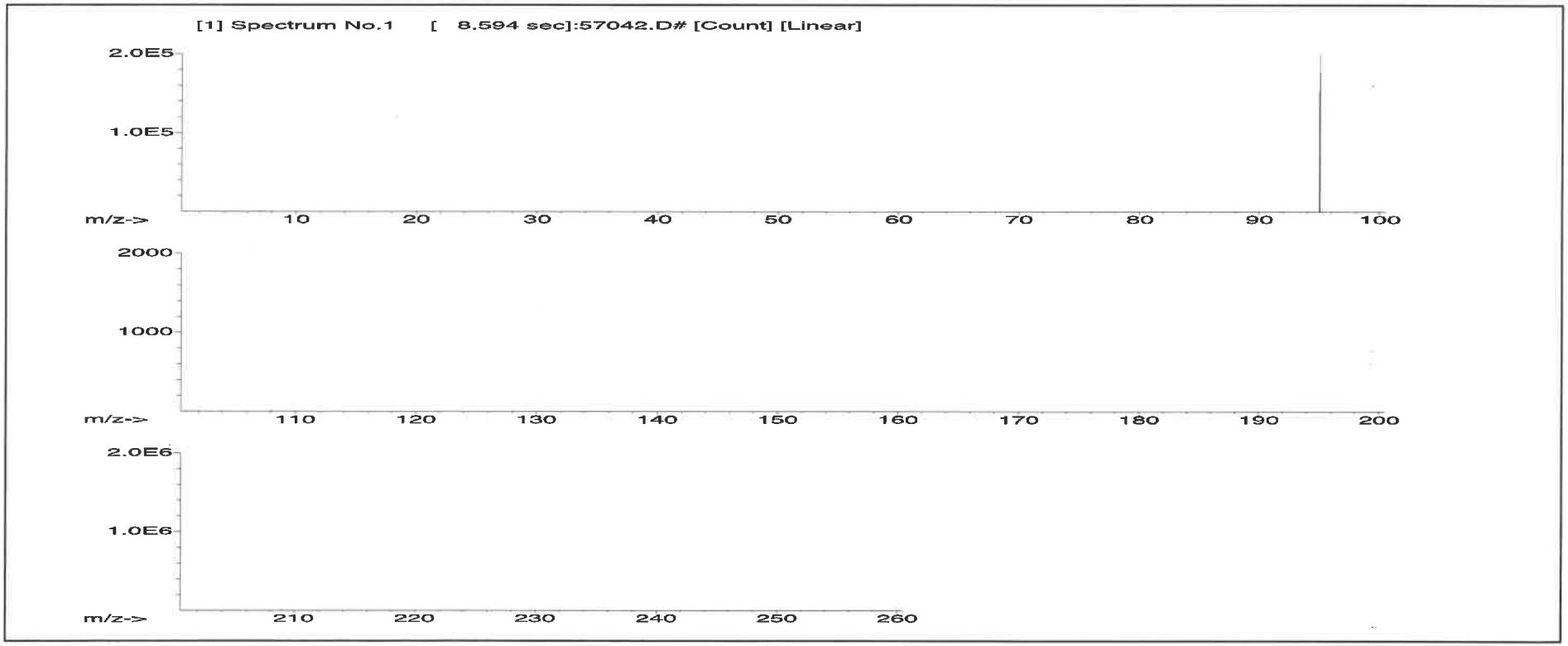
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**57042**	MKBQ8597V	Ammonium hydroxide
Lot Number:	**032123**		
Description:	**Molybdenum (Mo)**	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



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Certified Reference Material CRM

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https://Absolutestandards.com

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).

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R-02102/2025

M-6158

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
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

R: 01/03/24 M5806, M5807

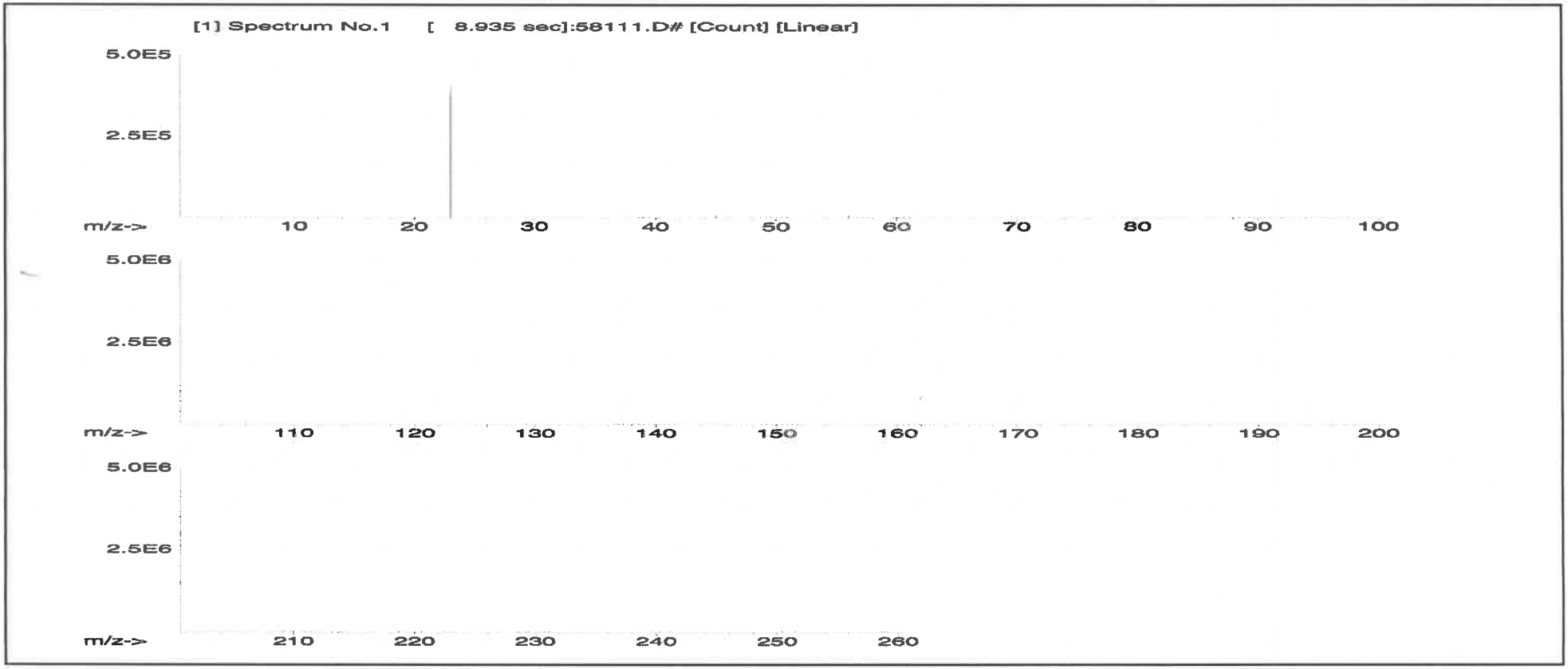
CERTIFIED WEIGHT REPORT:

Part Number:	**58111**		**Lot #**		
Lot Number:	**122223**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**				
		2%	60.0 (mL)	Nitric Acid	
Expiration Date:	122226				
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):	3000.4	0.06	Flask 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



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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).
* 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

M6030

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

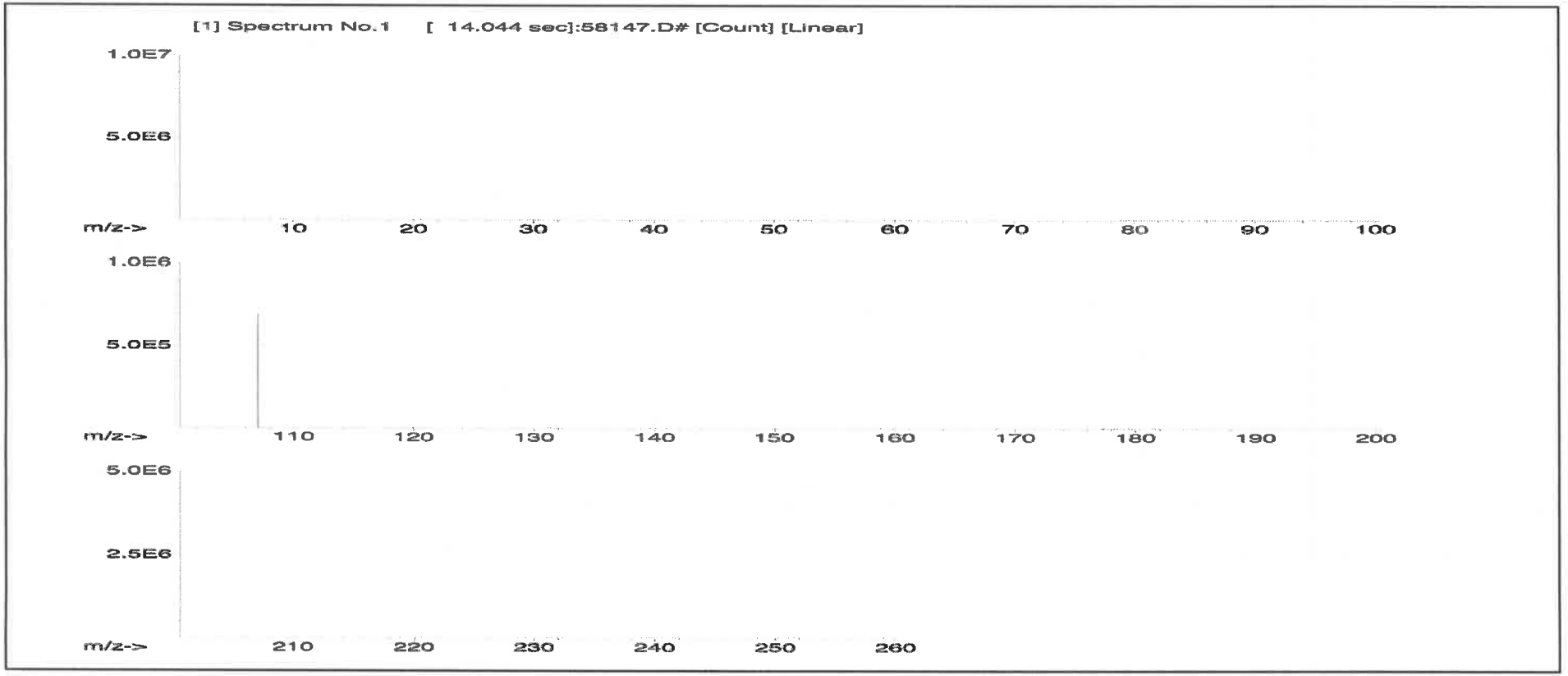
Part Number: 57047
Lot Number: 122823
Description: Silver (Ag)

Expiration Date: 122826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 4000.30

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	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



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Certified Reference Material CRM

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AR-1539 Certificate Number
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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:

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: 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	

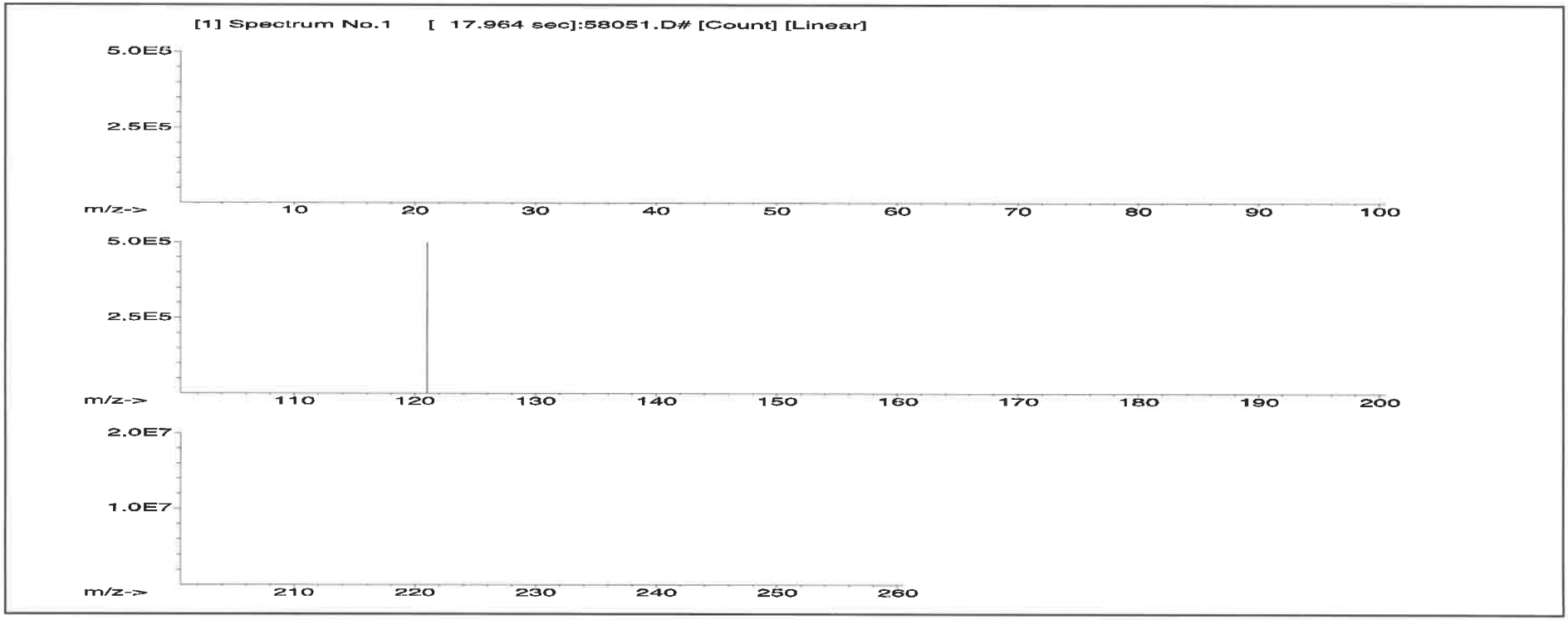
Giovanni Esposito

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



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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:

* 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).

R : 04/20/21

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
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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,

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™
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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 885.01 ACCREDITED Reference Material Producer Certificate 883.02

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

M6023

R ! 8/5/24

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		

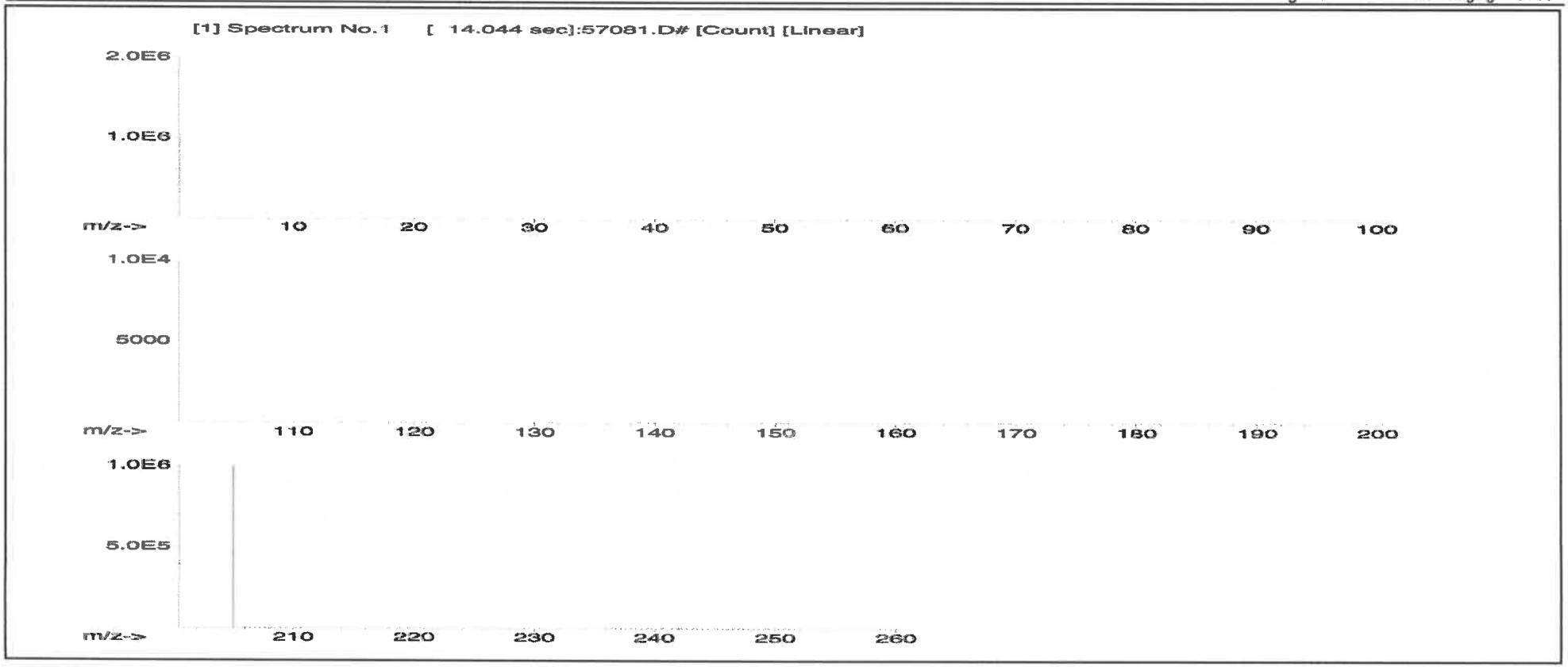
Aleah O'Brady

Formulated By:	Aleah O'Brady	062724

Pedro Rentas

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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.
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www.absolutestandards.com

Certified Reference Material CRM

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Rc. 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	

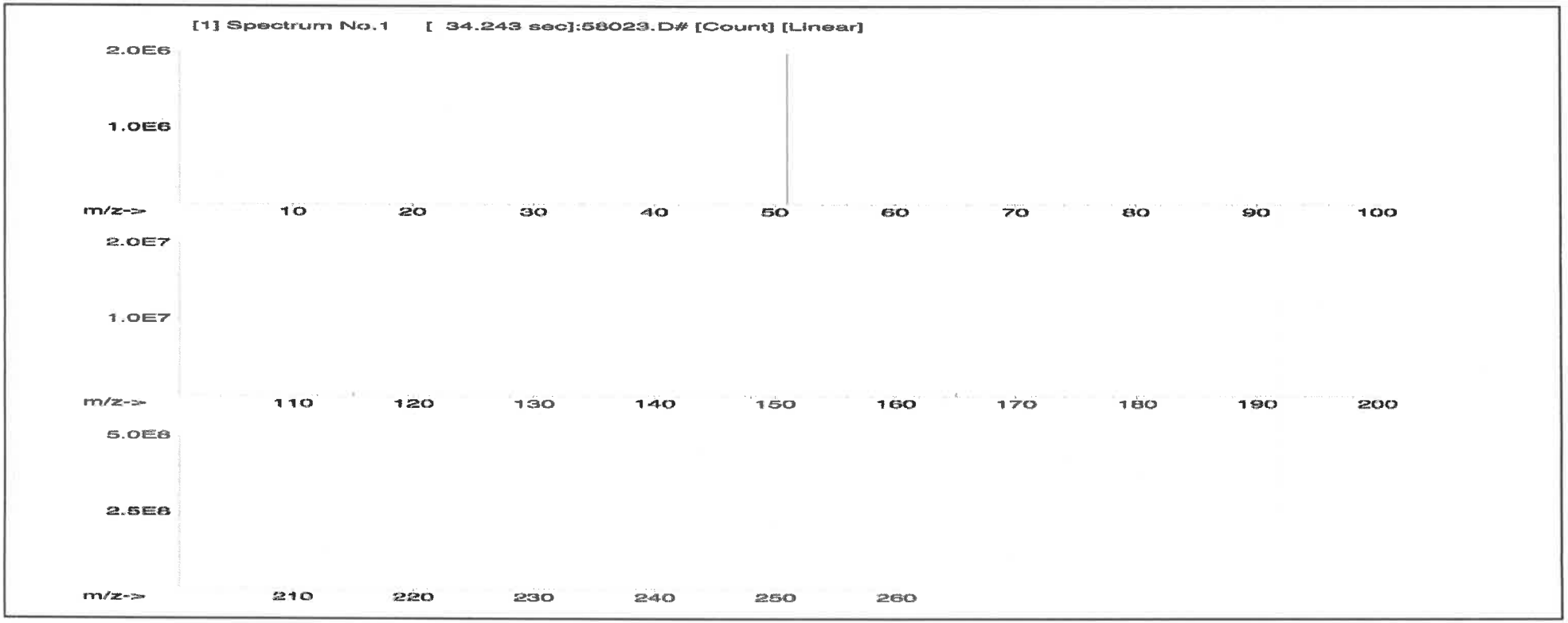
Aleah O'Brady

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



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Certified Reference Material CRM

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AR-1539 Certificate Number
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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

(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).

SHIPPING DOCUMENTS

Q1569

Weston COC ID
Weston_20250313_1208

Chain of Custody Record/Lab Work Request

Page 1 of 1

Client:	Weston Solutions, Inc.		
Project Manager:	David Sembrot		
Street Address:	1400 Weston Way	City:	West Chester
Phone:	610-314-5456	ST, ZIP:	PA, 19038
e-mail:	david.sembrot@westonsolutions.com		
Sampled By:	Cheyenne Harrington		

Project Name:	Fort Meade RI	**Project POC:**	Nathan Fretz
PO Number	0111169	**Phone:**	484-524-5665
W.O. #:		**POC e-mail:**	nathan.fretz@westonsolutions.com
Lab:	CHEMTECH	**Lab POC:**	Jordan Hedvat
TAT (days):	21	**Lab Phone:**	908-728-3144
Lab Address:	284 Sheffield Street Mountainside, NJ 07092		

Matrix Codes
SS - Soil
SE - Sediment
SO - Solid
SL - Sludge
GW - Groundwater
W - Water
SB - Soil Boring
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab Use Only		
Temperature of cooler when received (°C)		
COC Tape was present and unbroken on outer package?	Y	N
Samples received in good condition?	Y	N
Labels indicate properly preserved?	Y	N
Received within holding times?	Y	N
Discrepancies between sample labels and COC record?	Y	N

#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected	Analyses Requested: TCLP VOCs by EPA 8260D (1311)	TCLP SVOCs by EPA 8270E (1311)	TCLP Metals by EPA 6010D/7470A	TCLP Pesticides by EPA 8081B	TCLP Herbicides by EPA 8151A	Total Cyanide by EPA 9012B	Total Sulfide by EPA 9034	PCBs by EPA 8082A	pH by EPA 9045D	Ignitability by EPA 1030	Special Instructions/Comments
	Container Type:							Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	
	Container Size:							4 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	
	Preservative:							Ice to 0-6	Ice to 0-6 deg	Ice to 0-6 deg	Ice to 0-6 deg	Ice to 0-6 deg c	Ice to 0-	Ice to 0-6	Ice to 0-	Ice to 0-6	Ice to 0-6	
1	TAP-IDW-SOIL-031325-01	c	DS	7	no	3/13/2025	10:20	X	X	X	X	X	X	X	X	X	X	VOCs no headspace, prep immediately
2	TAP-IDW-SOIL-031325-02	c	DS	7	no	3/13/2025	10:50	X	X	X	X	X	X	X	X	X	X	VOCs no headspace, prep immediately
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Shipping Airbill Number: 7726 9601 3376

Cooler Number: 1 of 1

	Relinquished By	Date	Time	Received By	Date	Time
1.)	Lynn Hoyt	3/13/25	1315		3/14/25	1000
2.)						
3.)						

Additional Comments

QSM 6.0 Compliant

Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD

2-9-C

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